



Brunswick-Glynn County Joint Water and Sewer Commission
1703 Gloucester Street, Brunswick GA 31520
Thursday, October 20, 2016 at 2:00 pm
Commission Chambers

COMMISSION MEETING AGENDA

Amended

Call to Order

Invocation

Pledge

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.

COMMITTEE UPDATES

Communications & Customer Service – Commissioner Adams
Economic Development – Commissioner Boland
Facilities – Commissioner Perry
Finance – Commissioner Elliott
Human Resources – Commissioner Cason
Legislative – Commissioner Boland

PRESENTATION

Coal Ash in Coastal GA – Megan Desrosiers, President/CEO 100 Miles

APPROVAL

1. Minutes from September 22, 2016 Regular *(subject to any necessary changes)*
2. Minutes from September 22, 2016 Executive Session *(subject to any necessary changes)*
3. PS 2032 Pipe Pre-Purchase Ratification – J. Meridith
4. Line of Credit BB&T – J. Junkin / D. Elliott / J. Donaghy
5. Stillwater Engineering Grant/Loan for SSI Water Tank Project – J. Junkin/B. Simmons
6. Innoprise Capital Project Planning & Contract Management – J. Donaghy

DISCUSSION

1. September End of Month Financials – J. Donaghy
2. Grand Jury Update – D. Lovein, HBS

EXECUTIVE SESSION

Potential Litigation

EXECUTIVE DIRECTOR'S UPDATE

* 2032 Capacity Demand Survey, * Re-Organization Considerations for JWSC, * IT Tech Needs; * Engineering Staff, * Hurricane Matthew Overview, * Capital Project Status Reporting; * Sewer Capacity Needs Summary

CHAIRMAN'S UPDATE

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 and Sewer Commission
1703 Gloucester Street, Brunswick, GA 31520
Thursday, October 20, 2016 at 2:00 PM

COMMISSION MINUTES

PRESENT:

- Thomas A. Boland, Sr., Chairman**
- Clifford Adams, Vice-Chairman**
- Donald M. Elliott, Commissioner**
- Allen Booker, County Commissioner**
- John A. Cason, III, City Commissioner**
- Ronald Perry, Commissioner**
- Robert Bowen, Commissioner**

ALSO PRESENT:

- Jimmy Junkin, Executive Director**
- Dan Lovein, Legal Counsel HBS**
- John D. Donaghy, Director of Administration & Finance**
- Todd Kline, Senior Engineer**
- Pam Crosby, Director of Purchasing**
- Kirk Young, Superintendent Systems Pumping and Maintenance**
- Billy Simmons, Water Production**

Commissioner Boland called the meeting to order at 2:00 PM. Commissioner Booker provided the invocation and Commissioner Boland led the pledge.

PUBLIC COMMENT PERIOD

Ray Barnett, St. Simons Island. Mr. Barnett stated he purchased his property on July 6th and on July 7th JWSC imposed the halt on taps and can't be issued a building permit. Since this change he feels his property has declined 30 % to 40%. He is requesting the board reconsider and review the decision on the lottery. He recommends the first come first serve process.

Jeffrey Counts, N. Mainland. Mr. Counts has questions and would like the commission to address and provide an update on the north Mainland capacity and progress. He asks that if it's not going to be today than in the near future provide a timeline. Mr. Junkin addressed his questions with Todd Kline that there is a project moving forward and should get some relief in the next 3 to 6 months. Mr. Counts asks for updates to be provided.

Jason Counts, N. Mainland. Mr. Counts requested clarification of 3 to 6 months on N. Mainland projects. Mr. Junkin explained that there will be capacity and JWSC still working on the engineering portion and is similar to other projects.

There being no additional citizens who wished to address the Commission, the Chairman closed the public comment period.

COMMITTEE UPDATES

Communications & Customer Service Committee – Commissioner Adams

There was nothing new to report.

Economic Development Committee – Commissioner Elliott

There was nothing new to report.

Facilities Committee – Commissioner Perry

There was nothing new to report.

Finance Committee – Commissioner Elliott

Items will be covered later in the agenda.

Human Resources Committee – Commissioner Cason

There was nothing new to report.

Legislative Committee – Commissioner Boland

There was nothing new to report.

PRESENTATION

Megan Desrosiers, Chief Executive Officer of 100 Miles. This is a Coastal Conservation Organization whose mission is to preserve, protect and enhance the Georgia's 100 miles coast. Thanks to Commissioner Case of inviting me here today. Megan presented the subject of storing coal waste, also known as Coal Combustion Residual. The storing of coal ash waste has been a problem in the last few years especially. The EPA reclassified Coal Ash so that it could be stored more readily in facilities across the country. The best way to store is in a lined facility. There are 48 municipal solid waste landfills in Georgia. There are four of these 48 are not lined and not eligible for coal ash to be stored. My organization became concerned because Glynn County is downstream. Our drinking water and where we live is downstream. Two of the landfills that concerns Glynn County are Chester Island Landfill and Broadhurst Landfill. Chester Island is a lined landfill and it recently had a release of a chemical that is a bi-product of coal product into the Okefenokee Swamp. Liners have a lifespan and are known to crack. Our landfills are important pieces of our infrastructure that our communities need to be able to thrive and grow. Ms. Desrosiers stated that in Coastal Georgia where we have sandy soils and landfills are on top of drinking water and our landfills are in the middle of wetlands, it is a bad idea to store coal ash. Ms. Desrosier stated the movement started in Wayne County and brought Megan and 100 Miles to get involved. The Land Protection Division of EPD contact is Jeff Cown and has stated that that a trigger is needed to evaluate the landfill and what is dumped. It was suggested that Megan get with Mr. Junkin and figure a way to address further.

APPROVAL

1. Minutes from the September 22, 2016 Regular Meeting

Commissioner Adams made a motion seconded by Commissioner Cason to approve the minutes from September 22, 2016 Regular Meeting. Motion carried 7-0-0.

2. Minutes from the September 22, 2016 Executive Session Meeting

Commissioner Adams made a motion seconded by Commissioner Cason to approve the minutes from the September 22, 2016 Executive Session Meeting. Motion carried 7-0-0.

Todd Kline introduced JWSC new employee Tiffany Tiner to the Commission. She was recently hired on as a Service Review Specialist in the Planning & Construction Division. She originally came in as a temporary employee. The position was created to be a direct liaison between the Customers, Finance, and Planning & Construction to make the process a little more efficient. Tiffany explained that she will be working with new water and sewer taps.

Commissioner Perry made a motion seconded by Commissioner Adams to add Innoprise Capital Project Planning to the agenda under Approval item # 6. Motion approved 7-0-0.

3. PS 2032 Pipe Pre-Purchase Ratification – J. Meridith

Janice Meridith presented the Ratification - Pre-Purchase of 16" HDPE Pipe for PS2032 Force Main Project. It was explained that this is a formality only. As explained in the background of the memorandum the approval was granted on August 18, 2016 and is related to the PS2032 Force Main

project. The lead time for this material is approximately (6) to (8) weeks. It was noted that another company was added making it a total of (4) bids. The warranty for the pipe will remain with the product and this item's pre-purchase will be incorporated into the bid package that is due to be release on 10/13/2016. The pre-purchase is also included in the IFB (Invitation For Bid) package to the contractors. A meeting concluded to reduce the amount of the material from 12,000 to 11,000. After looking at the terms, availability and working with the (4) companies staff selected to go with Consolidated Pipe. The cost will be \$300,190.00. The memorandum stated due to the events surrounding Hurricane Matthew, senior staff had to move forward with the purchase no later than 10/12/2016. With the regular Commission meeting of 10/06/2016 being postponed, the decision was made to move forward with issuing a purchase order for the material and seeking ratification to bring before the Commission today. This would allow JWSC to lock in the existing pricing and delivery schedule with our risk of price increase or delivery delay if items were bid again. It was noted that the purchase of the pipe is in an effort for JWSC to do what is possible in our control to expedite the project of PS 2032 and running the 16" Force Main line from Palmetto down Frederica to the Harrington facility.

Commissioner Elliott made a motion seconded by Commissioner Adams to approve to ratify the purchase of 11,000 feet of 16" HDPE pipe from Consolidated Pipe in the amount of \$300,190.00.

Commissioner Cason inquired about the delivery date and Janice stated January 28th was requested. The hopeful date to start the project is on January 2nd with the selected contractor who is not known at the time. It was stated that the contractor will be required to be present when the product is delivered in order for them to inspect. The ownership will transfer from JWSC to the contractor as well as the warranty. Consolidated Pipe will be present at the pre-bid meeting for the IFB. The pipe will be coming from the Elizabethtown plant in KY.

Motion approved 7-0-0.

4. Line of Credit BB&T – J. Junkin/J. Donaghy

John Donaghy presented the Debt Acquisition Compliance with Policy Line of Credit. The JWSC has two debt instances of incurring debt. The first one is for a capital lease for the acquisition of four VacCons trucks. At a previous meeting the cost benefit of capital leasing or the out-right purchase of those vehicles. It was determined that capital leasing was the appropriate options/direction. The Executive Director was given the authority to go ahead with the purchase under capital lease and report back to the commission with the leasing terms. John stated that BB&T, who works in conjunction with GMA, was determined for the lease proposal with a four year term and 1.49% interest rate. The second issue is a line of credit with BB&T, who is the banking institution for the JWSC. This will be used to provide the cash flow necessary to complete projects. This is in anticipation of recouping those monies through collection of capital improvement fees. This will allow JWSC cash flow those improvements. This will allow incurring when needed. The line of credit is \$1,500,000.00 line of credit with a one month LIBER Rate plus 1.95% with a maximum repayment term of 24 months. John continued by stating with any incurrence of debt by JWSC there is a provision within the financial policy that the issuance of debt is in the best interest of the JWSC. In this policy it lists (4) conditions for the issuing debt and (6) conditions for the sound financing of that debt. This was reviewed by the Finance Committee earlier today and it is recommended that the JWSC determined that a line of credit from BB&T bank and the capital lease for the acquisition of VacCons meet the policy established and that the conditions for using debt and the sound financing of that debt has been satisfied.

Commissioner Elliott made a motion seconded by Cason that the JWSC affirmatively determine that a line of credit from BB&T Bank and a capital lease for the acquisition of VacCons are in accordance with adopted JWSC Financial Policy and that the conditions for using debt and the sound financing of that debt have been satisfied. And, that the Chairman and Executive Director be authorized to execute the documents necessary, subject to review by legal counsel. Motion approved 7-0-0.

5. Stillwater Engineering Grant/Load for SSI Water Tank Project – J. Junkin/B. Simmons
Executive Director Jimmy Junkin presented the Stillwater Engineering Loan for the SSI Water Tank Project. The request is asking permission for the Executive Director to submit an application for a GEFA loan in the amount of \$1,401,035.00 to provide funds for the raising of the Demere Road water tank and the Seaside Village water main project. This tank is currently dysfunctional due to its low elevation relative to the other system assets. This loan will allow the raising of the tank 20 feet, provide necessary fire protection to the area, and replace transit pipe in the Seaside Village area. This project was identified earlier. GEFA will provide debt forgiveness on the first \$1,250,000.00, forty percent (40%) of the loan which is a huge discount. The loan would be a 20 year loan with annual payment of \$93,935 yearly until the un-forgiven principal amount is paid off. The request today is for the Commission to allow the Executive Director to prepare the application to secure this loan on the contingency that it does qualify for the debt forgiveness.

Commissioner Elliott made a motion seconded by Booker that the Executive Director to submit an application to the GEFA loan for \$1,714,035.00 to provide funds for raising the water tank on Demere Road and to replace the transite pipe in the Seaside Village area.

It was inquired about the asbestos in the pipe and if it's dangerous. It was stated that it does not present a health hazard and it is inside of the mix of concrete. Billy Simmons explained that the other tank is higher and called Oglethorpe. It does not exchange water and believes this is a good fit.

Motion approved 7-0-0.

6. Innoprise Capital Project Planning & Contract Management – J. Donaghy
John Donaghy presented the quote from Harris for Innoprise Capital Project Planning & Contract Management. It was discovered that the two (2) modules used in the user training using for financials are in the process of development. The project reporting features were very superficial. Harris is in the development process to better track construction projects both the costs, planning and contract management of these. This is a three (3) phased implementation now and expected completion date is spring of next year. JWSC has the opportunity to become a member of the validation group for development and to test the system. We would be participants in helping to develop the capabilities of this software. This will not cost JWSC anything until the program is available for sale. This would be very useful for JWSC as there is a large amount of projects in the Master Plan to get completed. This program would tie together all the budgeting, contract management, and cost accumulations into one package. It will provide reports quickly and easily and interfaces with Microsoft Project which we currently have installed. Part of this implementation process JWSC would be able take projects and see how the functionality works and make necessary modifications. A representative will be here in November to meet with staff and review our system and how it can benefit JWSC. The product is expected to be completed in March or April 2017.

Commissioner Elliott made a motion seconded by Commissioner Adams to approve the use of the Innoprise Capital Project Planning and Contract Management modules for the Innoprise suite as part of the validation group at no cost to JWSC until the product is available for sale. Motion approved 7-0-0.

DISCUSSION

1. September End of Month Financials – J. Donaghy
John Donaghy provided an update on the Balance Sheet explaining the current assets, cash in hand, interest in bond sinking fund and accounts receivable. The Supplemental Schedule of Cash Balances Report was discussed and included Cash and Cash Equivalents, JWSC Reserves, Capital Improvement Fee Reserves, Bond trustee Reserves and Customer Deposit Reserve. The Project Encumbrances were compared to the Unencumbered Balances to Complete Projects leaving a balance of \$36,401 to commit to projects at the time of report. This does not include user fees that are to be accumulated. The next report noted as the Commission Report and Revenue Expense Report ending 9/30/16. The 2017 budget for revenue is \$28, 075,000 dollars and it was reported that JWSC was 14.5% percent ahead as of 9/30/16.

The line item details were briefly explained. The Cash in and cash out was discussed. The final report shows the Project Cost Report and lists the projects currently on the books. It was requested for an estimated date of completion to be listed for each project.

2. Grand Jury Update – C. Dorminy

Dan Lovein of HBS discussed the Grand Jury Appointments to JWSC which begins January 1, 2017. The last date for submission of applications was October 14th. Two (2) individuals submitted their applications for consideration of appointment those being current Commissioner Donald Elliott and previous Commissioner David Ford. The Grand Jury will conduct interviews on November 2nd and will then hold a meeting to gather public comments on November 16th. Then on November 30th the Grand Jury will make the appointment in compliance with legislation statute. That is the update with regard to the Grand Jury and those that applied.

EXECUTIVE DIRECTOR'S UPDATE

*Mr. Junkin discussed the 2032 Capacity Demand Survey in anticipation to issue taps as quickly as possible. This form will be sent out the first of the week most likely electronically and due back by noon 10/31/16. The intent is to determine how many individuals are ready to build, how many developers have parcels, and how many have parcels beyond the 90 day window. A hold harmless is required before selling the taps. *The Re-Organization Considerations for JWSC were discussed and looking at the way the organization is structured. *The IT Tech was discussed and the INS group works on the bigger picture. *Engineering Staff was also discussed. *Hurricane Matthew Overview was reviewed and was estimated to be approx. \$500k in loss of pumps, motors and expense in labor. *Capital Project Status Reporting was noted that staff will be working in Innoprise to get project reports to reflect milestone, financials, and completion of projects. *Sewer Capacity Needs Summary is expected to come out October 31st and will give people something to review on capacity overflow needs.

CHAIRMAN'S UPDATE

The Chairman provided a SPLOST update and stated that the meetings put on by the county have been low in attendance. It was recommended for people to support the SPLOST as if will help with costs on very important needed improvements and will benefit everyone.

EXECUTIVE SESSION

Commissioner Perry made a motion seconded by Commissioner Bowen to adjourn into Executive Session to discuss Potential Litigation. Motion approved 7-0-0.

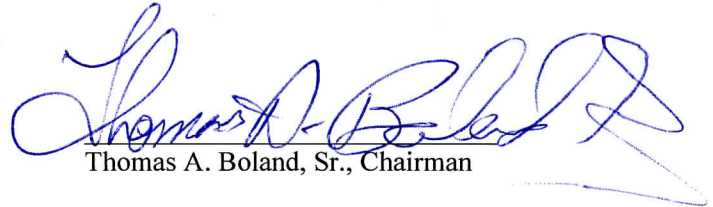
Executive Session ended

Commissioner Elliott made a motion seconded by Commissioner Perry to adjourn the Executive Session and adjourned the Regular meeting. Motion approved 6-0-1 (Commissioner Bowen was absent for the vote).

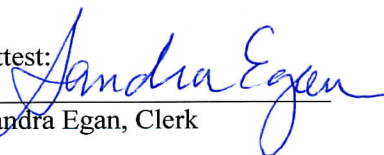
Commissioner Bowen was excused from the meeting

Commissioner Cason made a motion seconded by Commissioner Adams to adjourn the Regular Commission Meeting. Motion approved 6-0-1 (Commissioner Bowen was absent for the vote).

Chairman Boland adjourned the open meeting at 4:09 pm.



Thomas A. Boland, Sr., Chairman

Attest: 
Sandra Egan, Clerk



Brunswick-Glynn County Joint Water and Sewer Commission

MEMORANDUM

To: JWSC Commission
From: Janice Meridith / Pam Crosby
Date: October 20, 2016
Re: APPROVAL – RATIFICATION - Pre-Purchase of 16" HDPE Pipe for PS2032 Force Main Project

Background

At the JWSC Commission meeting held on August 18, 2016, approval was granted for the pre-purchase of HDPE pipe for construction needs related to the PS2032 Force Main project. The lead time for this material is approximately (6) to (8) weeks. Bids were requested from (4) local suppliers and compiled on Monday, 10/4. The bid tabulation and product specifications are attached for the Commission's review. The warranty will remain with the product and this item's pre-purchase will be incorporated into the bid package that is due to be released on 10/13/2016.

Staff Recommendation

~~Staff would like to move forward with the purchase of 11,000 feet of 16" HDPE from Consolidated Pipe in the amount of \$300,190.00. The anticipated delivery date for the product would be the week of 12/26/2016.~~

Staff is seeking ratification of the purchase of this material from Consolidated Pipe. Due to events surrounding Hurricane Matthew, senior staff had to move forward with the purchase no later than 10/12/2016. With the regular Commission meeting of 10/6/2016 being postponed, the decision was made to move forward with issuing a purchase order for the material and seeking ratification at the next available Commission meeting on 10/20/2016. This would allow JWSC to lock in the existing pricing and delivery schedule with our risk of price increase or delivery delay if items were bid again.

Enclosures:
Minutes from 8/18/2016 Commission Meeting
Original Memo
IFB Timeline
Bid Tabulation
Product Specification



Brunswick-Glynn County Joint Water and Sewer Commission
1703 Gloucester Street, Brunswick, GA 31520
Thursday, August 18, 2016 at 2:00 PM

COMMISSION MINUTES

PRESENT:

Thomas A. Boland, Sr., Chairman
Clifford Adams, Vice-Chairman
Donald M. Elliott, Commissioner
Allen Booker, County Commissioner
John A. Cason, III, City Commissioner
Ronald Perry, Commissioner
Robert Bowen, Commissioner

ALSO PRESENT:

Jimmy Junkin, Executive Director
Charlie Dorminy, Legal Counsel
John D. Donaghy, Director of Administration & Finance
Todd Kline, Senior Engineer
Pam Crosby, Director of Purchasing
Kirk Young, Systems Pumping & Maintenance

Commissioner Boland called the meeting to order at 2:00 PM. Commissioner Booker provided the invocation and Commissioner Boland led the pledge.

PUBLIC COMMENT PERIOD

Wayne Moxley, Brunswick – Mr. Moxley represents Enclave Development Partnership and came today to say he is building a 400 unit complex and came to JWSC with questions about sewer capacity. His project escrow closes on September 20 and ground breaking is scheduled for January 1st. The project is worth \$500,000 in tap fees. He asked who he can talk to move forward.

Chris Amos, came to discuss the same project on Glyngo Parkway and would like some answers as they are to close on the project tomorrow and didn't have any answers. How is the new additional capacity going to be allocated? Will it be tied in to existing developments? Will new development be able to tie in?

Chairman Boland stated appreciation for the public comments. He discussed the meeting on August 10th with the County, City and the Development Authority and he shared the large books on the Master Plan. For the years 2009 -2012 the master plans were not addressed fully. The peaking factor was created back in 2012 and there was no technical engineering facts to back up the numbers that someone created. Commissioner Boland appreciated the two (2) men's comments and hoped to have answers shortly. He asked the two (2) men to stay and the answers they are looking for should be discussed during the meeting.

There being no additional citizens who wish to address the Commission, the Chairman closed the public comment period.

COMMITTEE UPDATES

Communications & Customer Service Committee – Commissioner Adams

There was nothing new to report.

Economic Development Committee – Commissioner Elliott

There was nothing new to report.

Facilities Committee – Commissioner Perry

The Committee did meet and all of the information was forwarded to the commission.

Finance Committee – Commissioner Elliott

The Committee met this week and the items will be discussed on today's agenda.

Resources Committee – Commissioner Cason

There was nothing new to report.

Legislative Committee – Commissioner Boland

There was nothing new to report.

Commissioner Perry made a motion seconded by Commissioner Booker to move item #4 under approval to Executive Session and to move item #7 under approval to combine with item #5 under discussion.

Commissioner Perry made a motion seconded by Commissioner Booker to amend his motion to differ item # 4 Hawkins Island Deed until after the Executive Session. Motion approved 7-0-0.

APPROVAL

1. Minutes from the August 4, 2016 Regular Meeting

Commissioner Cason made a motion seconded by Commissioner Adams to approve the minutes from August 4, 2016 Regular Meeting. Motion carried 7-0-0.

2. Minutes from August 4, Executive Session Meeting

Commissioner Elliott made a motion seconded by Commissioner Booker to approve the minutes from the August 4, 2016 Executive Session Meeting. Motion carried 7-0-0.

3. Bank Resolution Revision – F. Wilson

Frances Wilson presented the Bank Resolution to the full Commission. It was stated that staff is requesting the approval of a new banking resolution and signature cards. Each time an authorized individual is added or removed a new signature card and banking resolution is needed to be submitted to the bank. Staff recommends that the Chairman, Vice-Chairman and Finance Committee Chairman of the JWSC be authorized signatories on the bank accounts of the JWSC and the Chairman, Vice-Chairman, Finance Committee Chairman, Executive Director, and Chief Financial Officer be authorized to execute the necessary banking resolution and signature cards with BB&T Bank.

Commissioner Elliott made a motion seconded by Commissioner Cason that the Chairman, Vice-Chairman and Finance Committee Chairman of the JWSC be authorized signatories on the bank accounts of the JWSC and the Chairman, Vice-Chairman, Finance Committee Chairman, Executive Director, and Chief Financial Officer be authorized to execute the necessary banking resolution and signature cards with BB&T Bank.

Commissioner Booker inquired as to who signs the checks currently. Frances stated that we are adding the Executive Director and normally checks under \$25,000 requires 1 signature which could be primarily the Chief Financial Officer. Anything about \$25,000 requires 2 signatures and any of those listed can sign in the absence of the Chief Financial Officer or Executive Director. It was further discussed that large expenditure items would go before the full commission and the check signing is the last step in a process in which the commissioners and/or the Executive Director would already be aware of. It was noted that an item will be coming to the Human Resources Committee on Policy where the Executive

Director can not bind the Commission to a contract in writing or orally without placing before the full Commission.

Motion approved 7-0-0.

4. Hawkins Island Deed – Comm. Boland

This item was motioned to be differed until after the Executive Session.

5. Public Information Officer – Comm. Elliott

Commissioner Elliott presented the Public Information Officer to the full Commission. It was noted that there is a need for a focal point and a contact person for several important areas. One area in particular is public information and how it is handled. A public Information Officer would handle the following areas: relationship with the media, provide public education, manage the JWSC website, receive and process open records requests, and handle legislation matters. This was presented before the Finance Committee for review and approval on 8/16 and it was confirmed that funds are available for this position. The Executive Director would work with Teamworks Services, Inc. to develop the job description, pay scale, and requirements to perform the function of a Public Information Officer and bring before the Human Resources Committee on September 1st and before the Full Commission on the same date. This position could help deal with customer relation issues, which is currently under the Finance Department.

Commissioner Elliott made a motion seconded Commissioner Cason to authorize the Executive Director to develop the position of a Public Information Officer and present to the Human Resources to approve the job description and the position. Motion approved 7-0-0.

6. Amendment of CIF Language – Comm. Elliott

Commissioner Elliott updated the Commission that the BGJWSC adopted a rate Resolution for the fiscal year ending June 30, 2017 at its Meeting on June 16, 2016. Amendments to Section IV, (e) and (f) were made on July 7, 2016. A further amendment is required to Section IV (e). It is currently written as: Capital improvement fees must be paid prior to, or concurrent with, the JWSC's approval of construction plans for the capacity required. The required capacity will be reserved for that property. Staff proposes that it be written as: Capital improvement fees shall be paid concurrent with, the JWSC's approval of construction plans for the capacity required. The required capacity will then be reserved for that property. The reason for this change is such that capital tap fees will be paid after the planning and construction approves the construction plans. The person will then go pay the tap fees. Right now as it is written it is not clear how that function will work. The term 'shall' is used instead of the word 'must'. Commissioner Boland restated that at the point the construction plans are approved by JWSC and the tap fee is paid this will guarantee to capacity.

Commissioner Elliott made a motion seconded by Commissioner Perry to accept the second amendment to Section IV of the Rate Resolution for the fiscal year ending June 30, 2017. Motion approved 7-0-0.

7. N. Mainland Additional Tap – T. Kline

Moved to discussion to be combined with item #5.

8. PS 2032 Pipe Pre-Purchase – P. Crosby

Pam Crosby presented to the Commissioners the PS2032 Pipe Pre-Purchase for approval. This item was brought before the Finance and Facilities Committees. She stated that the project 2032 on SSI will require the pre-purchase of pipe in order to keep the contractor on target and on timeline. The project design calls for approximately 12,000 feet of pipe to be required for this project. If left up to the contractor of this project to order could take up to 8 weeks and could delay the project through and past the holiday season. The contract would be awarded in early December. What staff is asking for today is to seek formal quotes for the purchase of the 16" HDPE pipe for further review and approval. Staff will

also work with legal counsel to craft contract language to support contractor installation of the 16" HDPE pipe that would maintain all warranties and claims on the work performed. The main reason JWSC is asking for the request is help accelerate the timeline and ultimate completion of this project. This option has been reviewed and approved by both Finance and Facilities Committees at the respective meeting held on 8/16/16.

Commissioner Elliott made a motion seconded by Commissioner Perry that we approve the pre-purchase of 16" HDPE Pipe for the PS2032 Force Main Project.

It was stated that this is the main way to try to stay on schedule in getting 2032 fixed. Currently as the engineering designs stands it is a 6 month construction window. If we waited this would push JWSC into July or maybe even August. Pam concluded that these are estimates for today and the plan is to pursue and return back with final numbers which they do vary. The suppliers were noted as producing domestic products S. Carolina and Kentucky.

Motion approved 7-0-0.

9. Lift Station Bypass Pump – K. Young

Kirk Young presented the approval of Bypass Pump rental and purchase. He began by updating the commission on the project currently under way. It includes multiple projects and initiative that are underway to address the limitations on sewer capacity in the SSI 2032 basin and North Mainland basin. The memorandum stated that on 8/4/16 the JWSC Commission approved a Basin Assessment project for the North Mainland basin with the engineering firm of Hussey Gay Bell. The assessment will include an existing data review, field confirmation, modeling and technical memo which will provide findings, rank alternatives and provide recommendations both short and long term to address sewer capacity deficiencies in this basin. The engineering phase of the 2032 basin Force Main upgrade is due to be completed in early October with construction anticipated to start in January of 2017. There have been multiple stakeholder meetings to discuss with Glynn County, Sea Palms staff, and 4 Waters Engineering firm. There is a public meeting scheduled to present the 30% design concept planned for the first week of September. The Joint Water and Sewer Commission approved a \$1M line item allocation during the FY2017 budget process to provide a means to address these critical repair needs within the sewer transmission system. An option to install permanent backup pumps at lift stations with identified capacities over target limits is currently underway. Xylem and Godwin pumps were selected as the sole source supplier for lift station pumps in 2014. JWSC staff has met with Xylem and Godwin representatives twice in the past week to address this need. Staff recommends a two-pronged approach to address the bypass requirements necessary to facilitate immediate and longer term capacity relief in the 2032 and North Mainland basins. In order to properly determine that bypass pumping requirements are specified correctly a significant amount of analysis is necessary. The JWSC staff has consulted with Xylem and the initial plan of action is outlined below for JWSC Commissions consideration: **Short-Term Contingency Plan**-JWSC to provide for (2) Rental Pumps from Xylem/Godwin-approximately \$15K per month, up to (12) weeks, not to exceed \$100K. These pumps will be returned once purchased pumps are installed. **Long-Term Plan**-Approve purchase of permanent pumps for (6) Mainland and (4) SSI lift stations at an estimated cost of \$1.25M. JWSC and Hussey Gay Bell are currently engaged in an overall North Mainland (NM)Basin Assessment Project of which this is a vital component. Continued assessment and determination is being done by both JWSC and HGB to determine the sizing and location for the following lift stations: NM basins; 4005, 4039, 4048, 4110, 4105, and 4107. The SSI basins include; 2032, 2001, 2002, and 2003. This approach has been reviewed and approved by the Finance and Facilities Committee. The estimated cost was included and discussed. Estimated duty point was noted to be based on the Master Plan calculations and our needs for pumping. The staff is looking to push beyond capacity and open up about 200 REU's. The testing and calculating will need to be done on all basins. Some of the transmission lines could be contributing to the capacity problems. Pumps will be added to basins 4105 and 4107 as they are under capacity and growth potential. These two were part of the list and

are still needing to be reviewed and are located near exit 38. These pumps can be used as backup pumps and contribute to your flow data once the permanent fix is completed. It was stated that I&I take away from capacity. Removable manholes and fines were discussed. Pump station 4108 will be part of the reverse or redirect project and provide relief off of 4039. Hussey Gay Bell is looking at condition of line and will provide a report and have been given 90 days. The pumps could be available in 12 – 14 weeks which is an adaptation that could correct some of our problems. Many of these problems were pointed out in the 2009 Master Plan but never got addressed. Kirk stated that the main area that was studied hard was PS2032. We have a solution and for that area and now there are others that are being addressed.

Commissioner Elliott made a motion seconded by Commissioner Perry to provide authorization for the short-term contingency plan and rent 2 pumps from Xylem/Godwin for approx.. \$15K per month, up to (12) weeks, not to exceed \$100K. these pumps will be returned once purchased pumps are installed. AND approve the long-term plan to purchase permanent pumps for 6) Mainland and (4) SSI lift stations at an estimated cost of \$1.25M. JWSC staff and HGB are currently engaged in an overall N. Mainland basin assessment project of which this is a vital component. The next update meeting for this project is scheduled for August 22, 2016 also that the Executive Director respond to the Wayne Moxley business by close of business/4:30 on Friday.

Commissioner Elliot explained that JWSC can not assume your business risk.

Motion approved 7-0-0.

DISCUSSION

1. Financial Report – June End of Month – F. Wilson

Frances presented to the Commission the Financial Statement ending June 30,2016. They were reminded that the numbers will change as the Finance Department is in the middle of an audit. Frances provided the reserve accounts which includes the operating, the capital reserve, expansion, Restore and Repair, and capital tap fee reserves. Also a listing of and encumbrances was pointed out which included the 1.5 capital assets on vehicles and equipment. The totals for the projects and capital purchases were discussed. The condensed summary of revenue and expenses were discussed and noted that it is a comparative statement. The projected revenues were \$26,305,950 and the actual was 24,627,002. It was noted that Administration portion includes all of the department in the Admin building and is; Office of Director, Finance, Planning and Construction, and Purchasing. Various items and their costs were detailed out and explained that the flow meters are part of the EPD consent order. The sludge dryer was a big expense. Bio-solids disposal was explained that the cost was \$653,000 due to the dryer being down periodically. Frances stated JWSC is currently under budget by \$552,443.00 and may change but not much. The last document was the detailed report and shares the history, year to date budget and expenses for the year.

2. RFP Financial Service Update – P. Crosby

Pam Crosby updated the Commissioners on the RFP Financial Services. This Monday a pre-proposal conference was held and there were 23 participants from 14 different firms. Questions were answered and discussed. The selection committee has been selected from the Financial Department and will review the bids on September 8th. The plan is to bring that recommendation before the commission on the October 6th meeting.

3. Impact Bond Defeasance – Comm. Elliott

Commissioner Elliott addressed the Commission to help them understand the Bond Defeasance. Defeasance, as suggested by some in the community, really doesn't help JWSC that much. There is the thought that if we go in and restructure our bonds it will reduce our interest rate, the cash will be available to us. The best way to handle a defeasance is to work, it as best possible, to offset the rate increase that is going to happen in operational portion of the bill against the reduction in the amount they are paying for the debt service charge.

4. Peaking Factors – T. Kline / H. Patel

Todd Kline presented the peaking factors and how they are calculated and assessed with regard to capacity. An equation and method used in designing for anticipate average of peek flows and method used to plan for existing and ultimate conditions must be established. Per EPD JWSC must use industry standard practices as the benchmark for acceptance. The regulatory measurement includes the EPD which regulates the JWSC on Operational & Design standards. The document we are held to is the EPD Guidelines for Sewage Collection System (2010). In this Design Document it is stated that the sewer must be designed in accordance with acceptable provisions of recognized design references in general use. The EPD cited design references are 10-State Standards, ASCE Manuals, EPA Publications, etc. JWSC does recognize the 10-State Standards as well as other communities and utilities like Savannah, Macon, JEA (Jacksonville). Todd discussed the development of anticipated flow-hydraulic capacity. The Average Daily Flow (ADF) was stated as how much water the system is expected to see on an average day. In absence of sufficient empirical (measured) data, industry standards are used. The best policy is noted as “Projections shall be made from the actual flow data to the extent possible.” Historical/measured flow data is preferred; used to develop actual flow characteristics. The peaking factor was explained as an industry standard multiplier used to incorporate a factor of safety when designing wastewater collection and treatment systems. It is also used to design unforeseen flows, sustained wet weather flow/storm events, etc. There are several methods used to develop: Fair-Geyer (10-State Standards) JWSC Master Plan; Babbitt Equation (ASCE); and Design example using both methods. The JWSC master Plan was presented on March 2015(ATM/4 Waters Engineering); updated 2009 Master Plan (ATM). The Master Plan was adopted by the JWSC Commission Board as the guiding document for system health and planning. The engineers did not rely on assumed per capita usage, utilized a developed usage from population and measured flow. The population data is provided by Glynn County form the Brunswick Area Transportation Study (BATS). The BATS established specific Traffic Area Zone (TAZs) throughout the whole county. Flow Data was utilized measured from flow data. Per Capita Usage was derived from the total influent at the WWTP under dry weather. Additional area was discussed under individual sewer flow development. The JWSC Sewer Design Standards were discussed and the latest revision was 2012. Sections 3.2.2 Gravity Sewer Systems and Section 4.2.2 Sanitary Sewer Lift Stations and Forcemains were discussed as not having backup documents to reference. It was noted that there was a contradiction in design standards and a revision is recommended. The last pump station design approved by the JWSC use a peaking factor of 4.0 on Canal Crossing. Staff recommends the JWSC Standards for Water & Sewer Design and Construction be updated for consistency with accepted industry design standards and the Master Plan 2015. Staff also recommends that the design standards continue to be verified and adjusted accordingly through the use of actual measured flow data. The actual calculation of peaking factor was explained in detail by Harry Patel. Fair-Geyer and Babbitt Equation calculations were practiced. It was stated that staff took each basin and developed its own peaking factor based on population.

5. Allocation of Capacity Additions – J. Junkin

Executive Director presented the Allocation of Capacity. With the changes and measures that are being made to add capacity there is a need to be fair and prevent one entity to gather all of the available taps. There will be a public meeting to be held Tuesday, August 30th. The general outline is to make sure tap fees are sold to builders who are truly ready to commence construction. It is intended to prevent entities for gathering them and just sitting on them. There have been many tap fees that have been sold where no construction has begun. The policy outline was presented and explained what is required and included a 30 day condition to begin construction. It was noted that those who are in immediate need for tap-ins, like Mr. Moxley presented, could possibly obtain those taps. It was noted that the Executive Director would be happy to meet with individuals separately to discuss needs for tap ins.

Commissioner Cason stated that much is happening and unfolded before us. The JWSC is taking every measures that we can to facilitate the needs of this community. He mentioned his concern of the force being placed on Dunbar Creek and Academy Creek that we know have deficiencies.

Chairman Boland asked the public to get behind the SPLOST as it will help to take care of fixing a lot of N. Mainland Issues. There is also money set aside by the County for a WWT facility that will not happen and asks that the money can be used to fix Academy Creek.

Commissioner Elliott proposed/made a motion that JWSC send a letter to the county on the SPLOST that states the valid initiative on the SPLOST needs to clearly state that we have the option to use the SPLOST dollars, should it pass, to repay debt that we are going to have to assume to correct these issues.

Commissioner Elliott explained that the as SPLOST works out it won't be passed until November 2016 which means the flows won't start until sometime 2017 and useable dollars won't be available to us until 2019. Once it passes, assuming that it does, we can borrow money to perform the work required in a much quicker fashion. We can use the SPLOST dollars to repay the principle and the interest in the debt service charge.

Seconded by Commissioner Adams. Motion approved 7-0-0.

Commissioner Perry wanted to take the time to say thank you to Chairman Boland and Commissioner Elliott for the time they have put in while filing the position and have both done a tremendous job. We really appreciate it. All those present agreed with gratitude and acclamation.

CHAIRMAN'S UPDATE

There being no additional business to bring before the Commission, Chairman Boland adjourned the open meeting at 5:02 pm.

Commissioner Elliott made a motion seconded by Commissioner Cason to adjourn the meeting. Motion approved 5-0-2 (Commissioners Booker and Bowen were absent for the vote).

EXECUTIVE SESSION

Commissioner Perry made a motion seconded by Commissioner Elliott to adjourn into Executive Session for Potential Litigation and a Property Contract Issue. Motion carried 7-0-0.

Executive Session ended

Commissioner Elliott made a motion seconded by Commissioner Cason to adjourn the Executive Session and return to the regular meeting. Motion approved 7-0-0.

Commissioner Elliott made a motion seconded by Commissioner Adams to authorize Commissioner Ronnie Perry to conduct negotiations for the purchase of the suggested property. Motion approved 7-0-0.

Commissioner Elliott made a motion seconded by Commissioner Bowen that the discussion item of Hawkins Island be deferred. Motion approved 7-0-0.

Commissioner Elliott made a motion seconded by Commissioner Cason to adjourn the Regular Meeting. Motion approved 7-0-0.

Thomas A. Boland, Sr., Chairman

Attest:

Sandra Egan, Clerk



Brunswick-Glynn County Joint Water and Sewer Commission

MEMORANDUM

To: JWSC Commission
From: Pam Crosby
Date: August 18, 2016
Re: APPROVAL – Pre-Purchase of 16" HDPE Pipe for PS2032 Force Main Project

Background

The PS2032 Force Main Upgrade project is currently in the Engineering & Design Phase. The current timeline projects bidding of construction in October – November with contract award to be approved at the December Commission meeting. The project design calls for approximately 12,000 feet of pipe to be required for this construction. Based on feedback from pipe suppliers and potential construction bidders, the lead time for the 16" HDPE pipe could be as long as (8) weeks for an order of this size. This timeframe creates the potential for the awarded contract to be delayed against the BGJWSC goal of an early January start date on the drilling. The lowest estimated cost of the pipe that will be required is \$323,760.00 and the highest is \$490,004.40.

Staff Recommendation

Staff would like to initiate JWSC seeking formal quotes for the purchase of the 16" HDPE pipe for further review and approval. Additionally, JWSC staff will work with legal counsel to craft contract language to support contractor installation of the 16" HDPE pipe that would maintain all warranties and claims on the work performed. This option has been reviewed and approved by both Finance and Facilities Committees at the respective meetings held on 8/18/2016.

Enclosures:
Estimate – Consolidated Pipe
Product Specification Sheet – WL Plastics
Estimate – Ferguson Waterworks
Product Specification Sheet – Performance Pipe



Timeline/Project Milestones - Invitation For Bids PS 2032 Force Main Upgrade Construction

Complete	Date	Project Milestone
	Tuesday, 10/11/2016 - NOON	Deadline - BGJWSC Staff - Advertisement submission to Brunswick News for 10/13 and 10/28
	Tuesday, 10/11/2016 - 5:00 p.m.	Final Submittal RFP Docs from 4 Waters
	Wednesday, 10/12/2016 - 5:00 p.m.	Any additional items incorporated by BGJWSC Staff - Bid Doc finalized and posted to BGJWSC website
	Thursday, 10/13/2016 - 5:00 p.m.	Addtl Website Postings; E-mail announcement to mailing list; 1st Newspaper Advertisement appears
	Friday, 10/28/2016	2nd Advertisement appears - Brunswick News
	Wednesday, 11/2/2016 - 10:00 a.m.	Mandatory Pre-Bid Meeting Held; Optional Site
	Friday, 11/4/2016 - NOON	Issue any addenda that is a result of pre-bid feedback
	Wednesday, 11/9/2016 - 5:00 p.m.	Deadline for Questions & Pre-Qualification Application
	Thursday, 11/17/2016 - 5:00 p.m.	Issue Addenda for responses to final questions & Release list of Pre-Qualified Bidders
	Wednesday, 11/30/2016 - NOON	Bids Due
	Wednesday, 11/30/2016	Bid Tabulation; Memo Update for Full Commission approval
	Thursday, 12/1/2016 - 2:00 p.m.	Full Commission Approval
	Monday, 12/12/2016	Pre-Construction Meeting & Public Meeting for Project /Submittal process Begins
	Wednesday, 12/28/2016	Pipe Delivery to Construction Staging Area
	Week of 1/3/2017	Issue Notice To Proceed - Physical Construction Begins



Bid Tabulation For Pipe Pre-Purchase HDPE SDR11 DIPS 16" Force Main - PS2032 Project BGJWSC #505

	Consolidated Pipe & Supply Co.		Ferguson Waterworks		HD Supply Waterworks		Chatham Steel Corporation	
Pipe Quantity	Unit Price (CFT)	Total Price	Unit Price (CFT)	Total Price	Unit Price (CFT)	Total Price	Unit Price (CFT)	Total Price
11,000 ft.	\$ 2,729.00	\$ 300,190.00	\$ 2,917.00	\$ 320,870.00	\$ 2,867.00	\$ 315,370.00	\$ 3,510.00	\$ 386,100.00
12,000 ft.	\$ 2,724.00	\$ 326,880.00	\$ 2,917.00	\$ 350,040.00	\$ 2,867.00	\$ 344,040.00	\$ 3,510.00	\$ 421,200.00
Returnable?	No		No		No		No	
Restock Fee?	N/A		N/A		N/A		N/A	
Description	Black w/ Green Stripe		Black w/ Green Stripe		Black w/ Green Stripe		Black w/ Green Stripe	
Length Pcs.	50 feet		50 feet		50 feet		50 feet	
Warranty Info.	Manufacturer Defects Covered		Warranty Stays W/ Material.		Manufacturer Defects Only		1 Year Warranty After Shipment	
Payment Terms	Net 30		Net 10th Prox.		Net 30		Net 30 - After Acct. Set Up.	
Place of Origin	Elizabethtown, KY		Greenville, SC		United States - IA; TX; MD; TN; OK; NY		N/A	
MSDS Included	Yes, # WL131-0511		N/A		N/A		N/A	
Quote Expires	10/12/2016 12:00 pm NOON		10/18/2016		N/A		N/A	

* All Quotes are FOB Destination (St. Simons Island, GA)

WL104 – DIPS (DIOD) PRESSURE CLASS PIPE



CONTACT WL PLASTICS CUSTOMER SERVICE TO CONFIRM THE AVAILABILITY OF SIZES SHOWN, AND FOR PC'S AND DR'S NOT SHOWN. SEE TABLE FOOTNOTES FOR ADDITIONAL INFORMATION.

DIPS Size ^A	Average OD, in	Pressure Class ^B , psi DR	ASTM F714 PE4710						ASTM F714/AWWA C906 PE3608/PE3408					
			PC350	PC300	PC250	PC200	PC150	PC100	PC350	PC300	PC250	PC200	PC150	PC100
4	4.80	Min wall, in	0.591	0.514	0.533	0.436	0.336	0.229	0.707	0.629	0.649	0.533	0.410	0.282
		Avg ID ^C , in	2.707	2.870	3.669	3.875	4.088	4.315	2.461	2.627	3.425	3.669	3.930	4.201
		Weight, lb/ft	2.707	2.408	3.093	2.587	2.040	1.423	3.127	2.849	3.663	3.093	2.447	1.732
6	6.90	Min wall, in	0.716	0.623	0.767	0.627	0.483	0.329	0.857	0.762	0.932	0.767	0.590	0.406
		Avg ID ^C , in	3.281	3.478	5.275	5.570	5.877	6.203	2.983	3.185	4.923	5.275	5.650	6.040
		Weight, lb/ft	3.976	3.539	6.396	5.348	4.215	2.940	4.595	4.184	7.563	6.396	5.062	3.585
8	9.05	Min wall, in	1.030	0.896	1.006	0.823	0.633	0.431	1.232	1.095	1.223	1.006	0.774	0.532
		Avg ID ^C , in	4.717	5.000	6.918	7.306	7.708	8.136	4.288	4.578	6.457	6.918	7.410	7.921
		Weight, lb/ft	8.221	7.315	11.004	9.207	7.245	5.051	9.495	8.643	13.016	11.004	8.710	6.162
10	11.10	Min wall, in	1.351	1.175	1.233	1.009	0.776	0.529	1.616	1.437	1.500	1.233	0.949	0.653
		Avg ID ^C , in	6.186	6.558	8.485	8.961	9.454	9.979	5.624	6.005	7.920	8.485	9.089	9.716
		Weight, lb/ft	14.144	12.582	16.543	13.845	10.894	7.604	16.335	14.876	19.581	16.543	13.099	9.276
12	13.20	Min wall, in	1.657	1.442	1.467	1.200	0.923	0.629	1.982	1.762	1.784	1.467	1.128	0.776
		Avg ID ^C , in	7.588	8.044	10.091	10.656	11.243	11.867	6.898	7.365	9.418	10.091	10.808	11.554
		Weight, lb/ft	21.276	18.937	23.405	19.581	15.409	10.752	24.574	22.373	27.693	23.405	18.516	13.110
14	15.30	Min wall, in	1.970	1.714	1.700	1.391	1.070	0.729	2.357	2.095	2.068	1.700	1.308	0.900
		Avg ID ^C , in	9.023	9.566	11.696	12.351	13.032	13.755	8.203	8.758	10.917	11.696	12.528	13.392
		Weight, lb/ft	30.082	26.770	31.438	26.308	20.704	14.444	34.752	31.635	37.209	31.438	24.886	17.623
16	17.40	Min wall, in	2.284	1.987	1.933	1.582	1.217	0.829	2.732	2.429	2.351	1.933	1.487	1.024
		Avg ID ^C , in	10.459	11.088	13.301	14.047	14.820	15.643	9.508	10.151	12.415	13.301	14.247	15.230
		Weight, lb/ft	40.424	35.970	40.654	34.027	26.780	18.680	46.689	42.512	48.109	40.654	32.176	22.802
18	19.50	Min wall, in	2.597	2.260	2.167	1.773	1.364	0.929	3.107	2.762	2.635	2.167	1.667	1.147
		Avg ID ^C , in	11.894	12.609	14.907	15.742	16.609	17.531	10.813	11.545	13.914	14.907	15.967	17.068
		Weight, lb/ft	52.274	46.527	51.074	42.738	33.637	23.459	60.385	54.976	60.427	51.074	40.423	28.625
20	21.60	Min wall, in	2.910	2.532	2.400	1.964	1.510	1.029		3.429	2.919	2.400	1.846	1.271
		Avg ID ^C , in	13.330	14.131	16.512	17.437	18.398	19.419		14.331	15.412	16.512	17.686	18.906
		Weight, lb/ft	65.646	58.420	62.659	52.440	41.250	28.783		84.725	74.148	62.659	49.585	35.134
24	25.80	Min wall, in		2.805	2.867	2.345	1.804	1.229				2.867	2.205	1.518
		Avg ID ^C , in		15.653	19.723	20.828	21.975	23.195				19.723	21.125	22.583
		Weight, lb/ft		104.259	91.123	76.229	59.995	41.852				91.123	72.106	51.086
30	32.00	Min wall, in				2.909	2.238	1.524					2.735	1.882
		Avg ID ^C , in				25.833	27.256	28.770					26.202	28.009
		Weight, lb/ft				117.285	92.313	64.370					110.930	78.557

Contact WL Plastics Customer Service to confirm availability and for PC's and DR's not shown. (A) DIPS (DIOD) sizes per ASTM F714 and AWWA C906. (B) Pressure Class rating (PC) in psi is for water at 73°F (23°C) and lower. PC will vary for water at other temperatures. See WL106A PE3608/PE3408 Pipe Compound, WL106B PE4710 Pipe Compound and WL118 Pressure Rating. (C) Calculated Avg ID = Avg OD - (2.12 x min wall), and is for estimating water flow. Pipe ID is approximate, not a specification dimension. (D) All dimensions in inches. (E) NSF-61 certification for potable water available on request. (F) See WL101 and WL124 for fusion, electrofusion, mechanical joining and installation information. (G) The information in this publication does not constitute a guarantee or warranty for piping installations and cannot be guaranteed because the conditions of use are beyond our control. The user of this information assumes all risk associated with its use. See WL125 Terms and Conditions of Sale. Changes to this publication may occur from time to time without notice. Contact WL Plastics Corporation to determine if you have the most current edition. Copying without change permitted.

CASPER PLANT: 2075 North Pyrite Road • P. O. Box 1120 • Mills, WY 82644 • Customer Service: 307-472-6000 • Fax: 307-472-6200
 CEDAR CITY PLANT: 4660 W. Highway 56 • P. O. Box 627 • Cedar City, UT 84721 • Customer Service: 435-867-8908 • Fax: 435-865-2703

ELIZABETHTOWN PLANT: 2151 West Park Road • Elizabethtown, KY 42702 • Customer Service: 270-765-1020 • Fax: 270-765-1030

BOWIE PLANT: 1110 Old Wise Road • PO Box 32 • Bowie, TX 76230 • Customer Service: 940-872-8300 • Fax: 940-872-8304

SNYDER PLANT: 2160 South Business 84 • Snyder, TX 79549 • Customer Service: 325-574-6100

CROSSFIELD PLANT: PO Box 860 • 1030 Western Drive • Crossfield, AB T0M 0S0 Canada • Customer Service: 403-946-0202 • Fax: 403-946-0252



ISO 9001:2008 Certified



WL104 – DIPS (DIOD) PRESSURE CLASS PIPE



WL Plastics DIPS Pressure Class Pipe for Water Distribution and Transmission

WL Plastics DIPS Pressure Class Pipe is produced in PC350, PC300, PC250, PC200, PC150 and PC100 in PE4710 and PE3608 compounds. Pressure Class is for continuous internal water pressure at 73°F (23°C) and lower temperatures, including surge pressure allowances above the PC. Pressure Class is reduced for service temperatures above 73°F (23°C).

$$PC_T = PC \times F_T$$

Where PC_T = Pressure Class rating for water at temperature other than 73°F (23°C), psi

PC = Pressure Class for water $\leq 73^\circ\text{F}$ ($\leq 23^\circ\text{C}$), psi

F_T = temperature multiplier

Table 1 – Temperature Multipliers, F_T ,

Continuous Use Temperature		Multiplier, F_T	
°F	°C	PE4710	PE3608
73 and lower	23 and lower	1.00	1.00
above 73 to 80	above 23 to 27	0.98	0.97
above 80 to 90	above 27 to 32	0.93	0.90
above 90 to 100	above 32 to 38	0.87	0.82
above 100 to 110	above 38 to 43	0.81	0.75
above 110 to 120	above 43 to 49	0.76	0.68
above 120 to 130	above 49 to 54	0.70	0.61
above 130 to 140	above 54 to 60	0.65	0.54

WL Plastics DIPS Pressure Class Pipe withstands surge pressures that momentarily increase internal pressure above the PC rating without short-term or long-term damage.

- Allowances for momentary surge pressures are applied above the Pressure Class rating, not deducted from PC.
- The allowable pressure in the pipe during a momentary surge pressure event is the sum of PC and the surge pressure allowance.

Surge pressure allowances are added to PC and always available for a momentary surge pressure event. Surge pressure allowance is never used to supplement PC for steady operating pressure (working pressure). If the potential surge pressure is greater than the surge pressure allowance, operating pressure (working pressure) is reduced and the difference is applied to the surge pressure allowance; or pipe having a higher PC is used to provide higher surge pressure allowance.

- **Allowance for recurring surge pressure (P_{RS}).** Recurring surge pressures occur frequently and are inherent to the normal design and operation of the system. Recurring surge pressures may be caused by normal pump start-up or shut down and normal control valve opening or closure. The allowance for recurring surge pressure is:

$$P_{RS} = 0.5 \times PC_T$$

- **Allowance for occasional surge pressure (P_{OS}).** Occasional surge pressures are generated during irregularly occurring conditions such as emergency operation or system malfunction. Occasional surge pressures are often the result of firefighting or a malfunction, such as a power failure or system component failure, including pump seize-up, valve-stem failure, or pressure-relief-valve failure. The allowance for occasional surge pressure is:

$$P_{OS} = 1.0 \times PC_T$$

Table 2 – PC, Surge Pressure Allowance and Maximum Pressure for Water at $\leq 73^\circ\text{F}$ ($\leq 23^\circ\text{C}$), psi

PC	Surge Pressure Allowance		Max. Pressure during Surge Event	
	P_{RS}	P_{OS}	$PC + P_{RS}$	$PC + P_{OS}$
350	175	350	475	700
300	150	300	450	600
250	125	250	375	500
200	100	200	300	400
150	75	150	225	300
100	50	100	150	200

Table 3 – Velocity* for Water at $\leq 73^\circ\text{F}$ ($\leq 23^\circ\text{C}$)

PC	Allowable Sudden Velocity Change for PE4710, ft/sec		Surge pressure for 1 fps velocity change, psi	Allowable Sudden Velocity Change for PE3608, ft/sec		Surge pressure for 1 fps velocity change, psi
	Occas.	Recur.		Occas.	Recur.	
	350	18.0		9.0	19.4	
300	16.8	8.4	17.8	14.9	7.4	20.2
250	18.9	9.5	13.2	17.1	8.6	14.6
200	16.7	8.4	12.0	15.1	7.6	13.2
150	14.3	7.1	10.5	12.9	6.5	11.6
100	11.4	5.7	8.7	10.3	5.2	9.7

* This is the water flow velocity for working pressure equal to PC ($WP = PC$). Higher flow velocity is allowable where working pressure is lower than PC ($WP < PC$) because the pressure difference ($PC - WP$) may be applied to surge pressure allowance, thus increasing allowable velocity.

For example, the allowable flow velocities for $WP = 110$ psi in PC150 PE3608 pipe are 9.9 fps for recurring surge pressure conditions, and 16.3 fps for occasional surge pressure conditions:

$$6.5 + \frac{(150 - 110)}{11.6} = 9.9 \text{ fps recurring}$$

$$12.9 + \frac{(150 - 110)}{11.6} = 16.3 \text{ fps occasional}$$

WL106B PE4710 PIPE COMPOUND



Typical Physical Properties for WL Plastics PE4710 Pipe Compound

- WL Plastics PE4710 pipe is manufactured from pressure rated PE4710 polyethylene compounds that meet or exceed ASTM D 3350 requirements and Cell Classification PE445574C. WL Plastics PE4710 compound meets or exceed ASTM D3350 requirements and Cell Classification PE345464C and material code designations PE3608 and PE3408
- WL Plastics PE4710 polyethylene pipe compounds are Listed by PPI in TR-4 and are stress rated for pressure pipe with PPI HDS ratings for water at 73°F (23°C) and PPI HDB ratings at 73°F (23°C) and 140°F (60°C)
- WL Plastics PE4710 exceeds PPI TR-3 and ASTM D3350 SCG resistance requirements per ASTM F 1473 (PENT). WL Plastics PE4710 ductility is substantiated with greater than 438,300 hours (50 years) at 73°F (23°C) before the onset of SCG.
- For potable water service, WL Plastics PE4710 black polyethylene compounds are certified to NSF-61

Physical Property	Test Method	Typical Value ⁽¹⁾
Cell classification (black compound)	ASTM D3350	PE445574C
Melt Index (190/2.16)	ASTM D1238	0.1 g/10 min
High Load Melt Index ⁽²⁾ (190/21.6)	ASTM D1238	4 – 20 g/10 min
Density with 2% minimum carbon black (73°F/23°C)	ASTM D792	0.960 g/cm ³
Tensile strength at yield (2 in/min; 73°F/23°C)	ASTM D638	3500 < 4000 psi
Tensile elongation (2 in/min; 73°F/23°C)	ASTM D638	>700%
Flexural modulus (73°F/23°C)	ASTM D790	110,000 < 160,000 psi
SCG Resistance, PENT (80°C, 2.4 MPa)	ASTM F1473	> 2500 h ⁽⁴⁾
Thermal stability	ASTM D3350	>428°F (> 220°C)
Brittleness temperature	ASTM D746	<-103°F (<-75°C)
Thermal expansion coefficient	ASTM D696	9 x 10 ⁻⁵ in/in/°F
HDB ⁽³⁾ at 140°F (60°C)	ASTM D2837/PPI TR-3	1000 psi (6.9 MPa)
HDS ⁽³⁾ for water at 73°F (23°C)	ASTM D2837/PPI TR-3	1000 psi (6.9 MPa)
HDS for water at 140°F (60°C)	ASTM D2837/PPI TR-3	630 psi (4.3 MPa)
RCP Resistance, Critical Pressure at 32°F (0°C)	ISO 13477	>174 psi (>1.2 MPa) ⁽⁴⁾
RCP Resistance, Critical Temp. at 72.5 psi (0.5 MPa)	ISO 13477	<2°F (<-17°C) ⁽⁴⁾

Contact WL Plastics Customer Service for availability. (1) Typical values determined from laboratory tests of samples of compounds (resins) prepared as plaque specimens in accordance with industry standard test methods. Values determined on samples prepared from pipe may vary. The typical values presented herein are for PE4710 polyethylene pipe compounds (resins) but do not constitute engineering properties for pipe. (2) Overall range of HLMI values for all compounds from all WL Plastics compound suppliers; HLMI variation for an individual compound will be well within the overall range. (3) Listed HDB and HDS ratings in accordance with ASTM D 2837 and PPI TR-3 are published in PPI TR-4 by the compound manufacturer (independent listing) and by WL Plastics (dependent listing). WL Plastics dependent listing compounds are identified by a compound code for the supplier: D (Dow); E (Lyondell Basell); S (Ineos); T (Total); C (Chevron-Phillips). (4) RCP data not available for compound code C.

This publication is intended for use as a piping system guide. It should not be used in place of a professional engineer's judgment or advice and it is not intended as installation instructions. The information in this publication does not constitute a guarantee or warranty for piping installations and cannot be guaranteed because the conditions of use are beyond our control. The user of this information assumes all risk associated with its use. WL Plastics Corporation has made every reasonable effort to ensure accuracy, but the information in this publication may not be complete, especially for special or unusual applications. Changes to this publication may occur from time to time without notice. Contact WL Plastics Corporation to determine if you have the most current edition. Publication duplication permitted.



ISO 9001:2008 Certified



CASPER PLANT: 2075 North Pyrite • P. O. Box 1120 • Mills, WY 82644 • Customer Service 307-472-6000 • Fax: 307-472-6200
 CEDAR CITY PLANT: 4660 W. Highway 56 • P. O. Box 627 • Cedar City, UT 84721 • Customer Service 435-867-8908 • Fax: 435-865-2703
 ELIZABETHTOWN PLANT: 2151 West Park Road • Elizabethtown, KY 42702 • Customer Service: 270-765-1020 • Fax: 270-765-1030
 BOWIE PLANT: 1110 Old Wise Road • PO Box 32 • Bowie, TX 76230 • Customer Service 940-872-8300 • Fax: 940-872-8304
 SNYDER PLANT: 2160 South Business 84 • Snyder, TX 79549 • Customer Service: 325-574-6100
 CROSSFIELD PLANT: PO Box 860 • 1030 Western Drive • Crossfield, AB T0M 0S0 Canada • Customer Service 403-946-0202 • Fax: 403-946-0252



Material Safety Data Sheet
WL Plastics Polyethylene Pipe
All Grades – All Colors – All Materials
MSDS #: WL131

Section 1 – Product and Company identification

Product Name	WL Plastics polyethylene pipe		
MSDS #	WL131		
Product Description	Polyethylene pipe (various colors, and with and without external color stripes, and with and without internal color layer)		
Product Use	Component for conveying gases, liquids and other fluid media		
Company Identification	WL Plastics Corporation 3575 Lone Star Cir, Ste 315 Fort Worth, TX 76177	Product Information: Technical Information: General Information:	1-435-867-8908 1-435-867-8908 www.wlplastics.com
24-Hour Emergency Telephone Number	CHEMTREC – 1-800-424-9300		

Section 2 – Composition / Information on Ingredients

INGREDIENT NAME	CAS NUMBER	AMOUNT
Polyethylene	9002-88-4	> 96% by weight
Polyethylene Hexene Copolymer	25213-02-9	> 96% by weight
Polyethylene Butene Copolymer	25807-34-7	> 96% by weight
May include carbon black	1333-86-4	0 - 4% by weight
May include cadmium sulphide pigment	1306-23-6	< 0.1% by weight
May include lead chromate pigment	1344-37-2	0 - 1% by weight
May include flux calcined diatomaceous earth	68855-54-9	<1% by weight
May include crystalline silica (cristobalite)	14464-46-1	<1% by weight

Section 3 – Hazards Identification

Emergency Overview	Physical Appearance: <ul style="list-style-type: none">○ Black polyethylene pipe○ Black polyethylene pipe with external longitudinal contrasting color stripes○ Black polyethylene pipe with contrasting internal color layer○ Yellow polyethylene pipe○ Yellow polyethylene pipe with external longitudinal contrasting color stripes○ Polyethylene pipe is supplied in straight lengths or coils
Hazards of Product	<ul style="list-style-type: none">○ This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.○ Injury or death can result from product falling from a height or unexpected movement during storage, unloading or handling. Call 1-435-867-8908 for unloading and handling instructions or obtain unloading and handling instructions from www.wlplastics.com.○ Product surface can be slippery especially if there is water, snow or ice on the surface. Do not walk on product.○ May contain an ingredient that can cause cancer. See Section 11. Not expected to be harmful if all recommendations in this MSDS are followed. See Section 7 and Section 8.○ EYE: Not expected to cause prolonged or significant eye irritation. If this material is heated, thermal burns may result from eye contact.○ SKIN: Contact with the skin is not expected to cause prolonged or significant irritation or cause an allergic skin response. If this material is heated, thermal burns may result from skin contact.○ INHALATION: Not expected to be harmful if inhaled. If this material is heated, fumes may be unpleasant and produce nausea and irritation of the upper respiratory tract.○ INGESTION: Not expected to be harmful if swallowed.



Material Safety Data Sheet
WL Plastics Polyethylene Pipe
All Grades – All Colors – All Materials
MSDS #: WL131

Section 4 – First Aid Measures

- Eye contact:** Hot material: Flush eyes with plenty of cold water for at least 15 minutes. Do not remove contact lenses if worn. Seek medical assistance for mechanical removal of this material from the eye. The use of flush fluid, other than water, is not recommended.
Cold material: Flush eyes with plenty of cold water. Get medical attention if irritation occurs.
- Skin contact:** Hot material: If burned by contact with hot material, flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. No attempt should be made to detach polymer adhering to the skin or to remove clothing attached with molten material. Thermal burns require immediate medical attention.
Cold material: Wash with soap and water.
- Inhalation:** If affected by fumes from heated material, remove from source of exposure and move the affected person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Section 5 – Fire Fighting Measures

- Flammability of the Product:** May be combustible at high temperatures.
- NFPA** Health: 0 Flammability: 1 Instability: 0
- HMIS** Health: 0 Flammability: 1 Instability: 0
- Auto-ignition temperature:** Greater than 343°C (649°F)
- Flash point:** Above 300°C (572°F) decomposition occurs and flash of fumes may occur.
- Products of combustion:** Products of combustion are carbon oxides (CO, CO₂). May also contain low levels of aldehydes, ketones, organic acids or hydrocarbons.
- Unusual fire/explosion hazards:** High dust concentrations have a potential for combustion or explosion. This material is not explosive as defined by established regulatory criteria.
- Fire-fighting media and instructions:** In case of fire, use water spray (fog), foam or dry chemicals. Do not use water jet.
- Protective clothing (fire):** Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6 – Accidental Release Measures

- Protective measures:** Eliminate sources of ignition in vicinity of spilled material.
- Spill management:** If heated material is spilled, allow it to cool before proceeding with disposal methods. Shavings, chips or segments from cutting and cooled, spilled heated material may cause a slipping hazard. Isolate and contain to prevent entry into sewers and waterways. Sweep or vacuum shavings, chips, segments and cooled heated material and place in appropriate containers for disposal. Recycle where possible. Use appropriate safety equipment.
- Reporting:** USA regulations may require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required.

Section 7 – Handling and Storage

Read and observe all precautions published in WL101 *Joining And Field Procedures For Pipe* and WL111 *Unloading Guidelines For WL Plastics Polyethylene Pipe*. Call 1-435-867-8908 to obtain copies of WL101 and WL111 or obtain copies from www.wlplastics.com.



Material Safety Data Sheet
WL Plastics Polyethylene Pipe
All Grades – All Colors – All Materials
 MSDS #: WL131

Section 7 – Handling and Storage (continued)

- Precautionary measures:** Avoid heated material contact with eyes, skin and clothing. Avoid breathing vapor or fumes from heated material.
- Unusual handling hazards:** Potentially toxic / irritating fumes may evolve from heated material. At high temperatures, above 177°C (350°F), polyethylene can release vapors and gases that are irritating to mucous membranes of the eyes, mouth, throat and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, NTP, IARC (2A) and OSHA have listed formaldehyde as a probable human carcinogen. Following all recommendations within this MSDS should minimize exposure to thermal processing emissions.

Section 8 – Exposure Controls and Personal Protection

Exposure limits:	Component	Exposure Limits	Form
	Particulates (Insoluble) Not Otherwise Specified (PNOS)	10 mg/m ³ TWA8 ACGIH	Inhalable fraction Particulate matter containing no asbestos and crystalline silica <1%
		3 mg/m ³ TWA8 ACGIH	Respirable fraction Particulate matter containing no asbestos and crystalline silica <1%
		5 mg/m ³ TWA8 OSHA	Respirable fraction
		15 mg/m ³ TWA8 OSHA	Total dust
Personal protection:	Respiratory Protection:	Use NIOSH-Approved respirator if unable to control airborne dust, fumes and vapor.	
	Ventilation:	Local exhaust ventilation is recommended for control of airborne dust, fumes and vapor, especially in confined areas.	
	Other Protective Equipment:	Wear gloves and suitable eye protection.	
Engineering controls:	If dust is generated, provide local exhaust ventilation to keep exposure to airborne contaminants below exposure limits.		

Section 9 – Physical and Chemical Properties

Physical state and appearance:	Polyethylene pipe is supplied in straight lengths or coils as black polyethylene pipe, or black polyethylene pipe with external longitudinal contrasting color stripes, or black polyethylene pipe with contrasting internal color layer, or yellow polyethylene pipe, or yellow polyethylene pipe with external longitudinal contrasting color stripes.
Odor:	Negligible
pH:	NA
Vapor pressure:	NA
Vapor density (air = 1)	NA
Boiling point:	NA
Solubility (in water):	Insoluble in water
Melting point:	100 - 135°C (212 - 275°F)
Specific gravity:	0.93 – 0.99
Density:	0.93 – 0.99 g/cm ³



Material Safety Data Sheet
WL Plastics Polyethylene Pipe
All Grades – All Colors – All Materials
MSDS #: WL131

Section 10 – Stability and Reactivity

Chemical stability:	This material is considered stable under ambient temperature and pressure and normally anticipated storage and handling conditions.
Conditions to avoid:	Avoid heating above recommended processing temperature.
Incompatibility with other materials:	None
Hazardous decomposition products:	Carbon oxides
Hazardous polymerization:	Hazardous polymerization will not occur

Section 11 – Toxicological Information

Immediate Health Effects:

Acute oral toxicity:	LD50 / Not known
Acute dermal toxicity:	LD50 / Not known
Acute inhalation toxicity:	LD50 / Not known
Eye irritation:	Not expected to be irritating to the eyes.
Skin irritation:	Not expected to be irritating to the skin.
Sensitization:	Dermal – not a sensitizer / human
Additional toxicological information:	<ul style="list-style-type: none">○ This product contains POLYMERIZED OLEFINS. During thermal processing (>177°C; >350°F) polyethylene can release vapors and gases (aldehydes, ketones and organic acids) that are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. Generally these irritant effects are transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a probable human carcinogen by NTP, IARC (2A) and OSHA based on animal data and limited epidemiological evidence.○ Pigments containing carbon black, lead chromate, nickel, antimony or titanium compounds may have been incorporated into this product. The International Agency for Research on Cancer (IARC) has classified carbon black as a Group B carcinogen (possibly carcinogenic to humans) based on sufficient evidence in animals and inadequate evidence in humans. However, the pigments in this product are bound in a polymer matrix that severely limits its extractability, bioavailability and toxicity. The lead chromate pigment is also silica-encapsulated as well as bound in a polymer matrix. None of these pigments is likely to cause adverse health effects under recommended conditions of use.○ Product marked "NSF-61" is safe for use with potable water (drinking water for human consumption).

Section 12 – Ecological Information

Ecotoxicity:	This material is not expected to be harmful to aquatic organisms.
Environmental fate:	This material is not expected to be readily biodegradable.
Mobility:	This product has not been found to migrate through soils.
Persistence and degradability:	This product does not readily degrade. Under normal oxidation conditions, >99% of polyethylene will remain intact after exposure to microbial actions. Product will slowly change (embrittle) in the presence of sunlight, but will not fully break down. Product buried in landfill has been found to be stable over time. No toxic degradation products are known to be produced.
Other ecological information:	Wildlife may ingest waste cuttings, shavings, segments or chips. Although not toxic, such materials may physically block the digestive system, causing starvation or death.



Material Safety Data Sheet
WL Plastics Polyethylene Pipe
All Grades – All Colors – All Materials
MSDS #: WL131

Section 13 – Disposal Considerations

Disposal consideration / Waste information: Recycle to process if possible. Waste cuttings, segments, chips and shavings should be swept up or vacuumed and placed in appropriate containers for disposal and to avoid runoff into waterways. This product as manufactured is a non-hazardous waste but may become contaminated upon use. If this material must be discarded, depending upon use and application, it may meet the criteria as hazardous waste as defined by the US EPA under RCRA (40 CFR 261) or other State or Local regulations. Consult an environmental professional to determine if local, regional or national regulations would classify this material or contaminated material as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable National, State, Provincial and Local regulations.

Section 14 – Transport Information

US DOT Not regulated as hazardous material or dangerous goods for transportation.
ICAO /IATA Not regulated as hazardous material or dangerous goods for transportation.
IMO / IMDG Not regulated as hazardous material or dangerous goods for transportation.
RID / ADR Not regulated as hazardous material or dangerous goods for transportation.
TDG Not regulated as hazardous material or dangerous goods for transportation.
Other transportation information: The description shown may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

Section 15 – Regulatory Information

SARA 311/312 Categories:

Immediate (acute) health effects	No
Delayed (chronic) health effects	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactivity hazard	No

Regulatory Status:

Country	Inventory	Status
Australia	AICS	All components are included or otherwise exempt from inclusion on this inventory.
Canada	DSL	All components are included or otherwise exempt from inclusion on this inventory.
Canada	NDSL	
China	IECS	All components are included or otherwise exempt from inclusion on this inventory.
European Union	EINECS	All components are included or otherwise exempt from inclusion on this inventory.
European Union	ELINCS	
European Union	NLP	
Japan	ENCS	All components are included or otherwise exempt from inclusion on this inventory.
Korea	ECL	All components are included or otherwise exempt from inclusion on this inventory.
Philippines	PICCS	All components are included or otherwise exempt from inclusion on this inventory.
United States	TSCA	All components are included or otherwise exempt from inclusion on this inventory.

Regulatory Lists:

01 = CA Prop 65

18 = FDA 179

35 = RCRA Waste P-List



Material Safety Data Sheet
WL Plastics Polyethylene Pipe
All Grades – All Colors – All Materials
MSDS #: WL131

Regulatory Lists (continued):

02 = LA RTK	19 = FDA 180	36 = RCRA Waste U-List
03 = MA RTK	20 = FDA 181	37 = SARA Section 311/312
04 = MN Hazardous Substance	21 = FDA 182	38 = SARA Section 313
05 = NJ RTK	22 = FDA 184	39 = TSCA 12 (b)
06 = PA RTK	23 = FDA 186	40 = TSCA Section 4
07 = CAA Section 112 HAPs	24 = FDA 189	41 = TSCA Section 5(a)
08 = CWA Section 307	25 = IARC Group 1	42 = TSCA Section 8(a) CAIR
09 = CWA Section 311	26 = IARC Group 2A	43 = TSCA Section 8(a) PAIR
10 = DOT Marine Pollutant	27 = IARC Group 2B	44 = TSCA Section 8(d)
11 = FDA 172	28 = IARC Group 3	45 = WHIMS - IDL
12 = FDA 173	29 = IARC Group 4	46 = Germany D TAL
13 = FDA 174	30 = NTP Carcinogen	47 = Germany WKG
14 = FDA 175	31 = OSHA Carcinogen	48 = DEA List 1
15 = FDA 176	32 = OSHA Highly Hazardous	49 = DEA List 2
16 = FDA 177	33 = RCRA Waste Appendix VIII	
17 = FDA 178	34 = RCRA Waste D-List	

The following components of this material are found on the regulatory lists indicated:

Polyethylene	4
May include: carbon black	1, 3, 4, 5, 6, 27, 45
May include: lead chromate pigment	1, 3, 4, 5, 6, 25, 26, 30, 34, 38, 39, 45, 46

CERCLA reportable quantities (RQ) / SARA 302 threshold planning quantities (TPQ):

Component	Component RQ	Component TPQ	Product RQ
May include: lead chromate pigment	10 lbs	None	1000 lbs

WHMIS Classification:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

Section 16 – Other Information

Notice to reader:

NOTICE: This Material Safety Data Sheet is based on data considered to be accurate at the time of its preparation, but despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. The information on this MSDS was obtained from sources that we believe are reliable. However, the information is provided without warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal are beyond our control and may be beyond our knowledge. For this and other reasons, WL Plastics does not assume responsibility and expressly disclaims liability for loss, damage, injury or expense arising out of or in any way connected with handling, storage, use or disposal of this product, or resulting from abnormal use, or resulting from any failure to follow appropriate practices, or from hazards inherent in the nature of the product. If the product is used as a component in another product or system, this MSDS information may not be applicable.

< End of MSDS >



Brunswick-Glynn County Joint Water and Sewer Commission

1703 Gloucester St., Brunswick, Georgia, 31520

Phone: (912) 261-7110 Fax: (912) 261-7178

www.bgjwsc.org

To: JWSC Commissioners
Cc: Jimmy Junkin, Executive Director
From: John D. Donaghy, Director of Administration
Date: October 20, 2016
Re: Debt Acquisition Compliance with Policy
Line of Credit

Background:

The Brunswick-Glynn County Joint Water and Sewer Commission has proposals for two instances of incurring debt.

The Commission has approved the use of a capital lease for the acquisition of four VacCons. The Executive Director was authorized to select the most favorable capital leasing proposals. BB&T Banks in conjunction with GMA was determined to be the preferred proposal with a four year term and 1.49% interest rate.

A proposal for a line of credit with BB&T bank will also be proposed for approval. The line of credit will be available to provide the necessary funds to complete projects in advance of collection of Repair and Replacement Funds and/or Capital Improvement Fees. The line of credit is \$1,500,000 bearing interest on the outstanding balance at the one month LIBOR Rate plus 1.95% and has a repayment term of 24 months.

The JWSC Financial Policy adopted on September 19, 2007, Section 3 provides the following regarding issuance of debt by the JWSC:

A. Policy Statement

The JWSC recognizes that to maintain flexibility in responding to changing service priorities, revenue inflows, and cost structures, a debt management strategy is required. The JWSC strives to balance service demands and the amount of debt incurred. The JWSC realizes that failure to meet the demands of growth may inhibit its continued economic viability, but also realizes that too much debt may have detrimental effects.

The goal of the JWSC debt policy is to maintain a sound fiscal position and to protect the credit rating of the JWSC. When the JWSC utilizes debt financing, it will ensure the debt is financed soundly and conservatively.

B. Conditions for Using Debt

Debt financing of capital improvements and equipment will be done only when one or more of the following four conditions exist:

1. When non-continuous projects (those not requiring continuous annual budgeting) are desired;
2. When it can be determined that future users will receive a benefit from the improvement;
3. When it is necessary to provide basic services to system users;
4. When total debt does not constitute an unreasonable burden to rate payers of the system.

C. Sound Financing of Debt

When the JWSC utilizes debt financing, it will ensure that the debt is soundly financed by:

1. Taking a prudent and cautious stance toward debt, incurring debt only when necessary;
2. Conservatively projecting the revenue sources that will be used to pay the debt;
3. Insuring that the term of any long-term debt incurred by the JWSC shall not exceed the expected useful life of the asset for which the debt is incurred and shall be limited to capital improvements only;
4. Determining that the benefits of the improvement exceed the costs, including interest costs;
5. Maintaining a debt service coverage ratio which ensures that combined debt service requirements will not exceed revenues pledged for the payment of debt;
6. Analyzing the impact of debt service on user charges before long-term debt is issued.

Recommendation:

The Finance Committee of the Brunswick-Glynn County Joint Water and Sewer Commission has reviewed the proposed borrowings and recommends that the JWSC determine that a line of credit from BB&T Bank and a capital lease for the acquisition of VacCons meet the policy established and that the conditions for using debt and the sound financing of that debt have been satisfied.

Motion:

“I move that the JWSC affirmatively determine that a line of credit from BB&T Bank and a capital lease for the acquisition of VacCons are in accordance with adopted JWSC Financial Policy and that the conditions for using debt and the sound financing of that debt have been satisfied. And, that the Chairman and Executive Director be authorized to execute the documents necessary, subject to review by legal counsel.”



Brunswick-Glynn County
Joint Water & Sewer Commission

1703 Gloucester Street, Brunswick, GA 31520

Phone: (912) 261-7110

Web Site: www.bgjwsc.org

MEMORANDUM

TO: BGJWSC Board of Commissioners

FROM: Jimmy Junkin, Executive Director

DATE: October 20, 2016

RE: GEFA Loan Application for Demere Road Tank & Sea Side Village Water Main Project

This is to request permission for the Executive Director to submit an application for a GEFA loan in the amount of \$1,714,035.00 to provide funds for the raising of the Demere Road water tank (which is currently dysfunctional due to its low elevation relative to the other system assets) and the Sea Side Village water main project. The loan is proposed to be a 20-year, 0.89% loan. On the first \$1,250,000.00, forty percent (40%) of the loan is eligible for debt forgiveness which is a huge discount. The annual payment would be \$93,935 yearly until the unforgiven principal amount is paid off.

The water mains in Sea Side Village Area are old leaky pipes in bad need of replacement. The water mains located on these roads are also health concerns as they are made of asbestos cement water main and contain some lead service connections. Currently the water mains located in this area has limited valving. These limited valves do not allow the Commission to isolate the water system when a water main leak occurs. In the proposed project new valves will be installed to solve this problem. This project will also replace the fire hydrants, service lines, lead services and all other leaking water service appurtenances.

Along with the water main improvements, we are seeking to raise their existing 500,000 gallon tank located on Demere Road twenty (20) feet so that the potable drinking water will not become stagnant. The stagnant water has become a health concern as the water sits in the elevated tank for long periods of time and loses its chlorine residual. Currently and in the past, the Production staff empties this tank on a regular basis because the tank height will not allow water to cycle out of the tank due to its low hydraulic water level. We are seeking to conserve this water and provide additional fire protection for the community.

Resolution: The motion is to allow the Executive Director to make application to GEFA for a loan for Raising Demere Road Water Tank and the Sea Side Village Water Main Replacement Project in the amount of \$1,714,035.00 for a term of 20 years at 0.89% annual interest provided there is debt forgiveness in the amount of \$500,000.00 approved for this GEFA loan.

fc: File



520 Zang St
Suite 200, Broomfield, CO, 80021
Phone: (303)-226-0050
Fax: (303)-339-0413

424 South Woods Mill Rd.
Suite 310, Chesterfield, MO, 63017
Phone: (800) 383-6029
Fax: (314) 275-8776

PROPRIETARY AND CONFIDENTIAL
Quote

Customer: Brunswick Glynn Joint Water Sewer Commission, GA
Contact Name: John Donaghy

Quote #: ERP871
Suite: Innoprise

Subject: Innoprise Capital Project Planning & Contract Management

Description:

Harris ERP is building Capital Project Planning and Contract Management modules for the Innoprise suite, and we are excited to do so with Brunswick Glynn's assistance.

The Customer has volunteered to participate in our "validation group", a partnership between Harris ERP and customers who have agreed to volunteer their time and input in order to guide the product development effort. The validation group meets at least once a month to review and provide feedback on development progress, mock-ups, documentation, and any other artifacts required to ensure that the resulting product functionality is usable and provides real value.

Capital Project Planning and Contract Management are being built as new modules for the Innoprise Financials application, and as such are priced with license fees and implementation services. The breakdown is:

1. Capital Project Planning
 - o License Fee: \$5,500
 - o Implementation Services: \$11,900
 - o **Total Licenses & Services: \$17,400**

 - o 10% "Validation Group" Discount: \$-1,740
 - o **Reduced Total: \$15,660**
 - o Annual Maintenance increase: \$1,100

2. Contract Management
 - o License Fee: \$5,500
 - o Implementation Services: \$11,900
 - o **Total Licenses & Services: \$17,400**

 - o 10% "Validation Group" Discount: \$-1,740
 - o **Reduced Total: \$15,660**
 - o Annual Maintenance increase: \$1,100

As our "validation group" customers are investing with us to build new modules that do not yet exist, the license fees will be invoiced upon the first delivery of a usable release to any of the "validation group" organizations.

The implementation service fees for each module will be invoiced in three (3) equal payments over the duration of the implementation. The first invoice will be sent at project kickoff, and the remaining two invoices at the mid-point and at go-live.

The Maintenance subscription will go into effect (prorated as appropriate) upon go-live. Should the Capital Project Planning or Contract Management modules never reach a usable state for any of the validation group members, your organization will not be invoiced for any part of this pricing.

Total Price : \$31,320.00

By accepting this quote you agree to the following terms and conditions:

Maintenance Fees: The annual maintenance and support fees will increase as a result of this quote.

Maintenance Payment: Payment due upon go-live.

Additional Terms:

Prepared by: [Valerie White](#)

Prepared On: 10/18/2016

Accepted by: _____

Approval Date:

Project:

Work Order #:

P.O.#: