

Lower Bucks County Joint Municipal Authority

Board Meeting Minutes ~ September 26, 2019

The Board Directors of Lower Bucks County Joint Municipal Authority held their monthly meeting on Thursday October 24, 2019 at the Authority's Administration Building located at 7811 New Falls Road, Levittown, Pennsylvania 19055.

Call to Order

Mr. Glasson, Chairman, called the meeting to order at 7:00 P.M., which was followed by the Pledge of Allegiance, Mr. Glasson asked everyone to take a moment to keep in mind our police officers, first responders and all of our armed forces that keep us safe every day.

Roll Call

Mrs. Magro took roll call as follows:

Board Members Present:

Present

John Monahan
Michael Sidoti
Cindy Murphy
Joseph Glasson
James Chase
Michele Hammar

Also Present

Vijay Rajput, Ph.D., P.E., Managing Director
Nancy Burnell, Meter Department Supervisor
Debbie Magro, Administrative Secretary
Fred Walcott, Superintendent, Water Treatment Plant
Mike Hoelzle, Assistant Superintendent, Water Treatment Plant
Phil Smythe, Field Technician, Lift Station Supervisor
James A. Downey, III, Solicitor

Appointment of Assistant Secretary

Mr. Glasson called for a motion to appoint Michele Hammar to the LBCJMA Board Directors as Assistant Secretary. Ms. Hammar was appointed by Tullytown Council on July 9, 2019 to replace Roberta DePalo who resigned June 30, 2019.

Motion

Mrs. Murphy made a motion, seconded by Mr. Chase, to appoint Michele Hammar to the position of Assistant Secretary.

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Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye

Motion carried unanimously

Public Participation

Mr. John Saunders, who is from Kenwood, asked the Board if there was something going on at the Kenwood Pumping Station recently, there were locksmiths there, a truck that has been parked there for several weeks with debris in it, kitchen sinks, tires, etc., and the last windstorm we had there were branches from the trees. The guy that mows the lawn took them and put them up against the fence and they have been there for several weeks now. The kids walking home from school get curious and they were climbing the fence the other day. Mr. Saunders went to the office on Route 13 and asked them and was pretty much told yeah, they're doing something over there. Mrs. Murphy stated that she spoke to Dr. Rajput regarding this and both Mrs. Murphy and Dr. Rajput informed Mr. Saunders that this is being taken care of. I stopped coming to this office. Mr. Saunders further stated that he stopped coming to this office (Administration) when I went to the office on Route 13 and was told what do you expect, it's going to smell, you live next to a Pumping Station, why did you buy a house there. Mr. Saunders added, just let them know that people are concerned. Mr. Glasson apologized and added that you are not out of the realm of calling and checking. Mrs. Murphy added, feel free to reach out to us, especially if someone was rude share it with us because it's an opportunity for development and it needs to be corrected. Mr. Saunders added that recently, he called them and said you're generator or whatever it is on the outside kicked on and there was smoke pouring out of it for almost an hour and I was told it was just self-testing, don't worry, we didn't hear it run for a week and a half then, the other day he was out there the other day with his pickup truck next to it with jumper cables going from the pickup truck to the machine.

Ratification and Approval of the July 2019 Accounts Payable as Presented to the Board Directors.

Motion

Mr. Chase made a motion, seconded by Mr. Monahan, to approve and ratify the July 2019 Accounts Payable as presented.

Questions/Comments

Mr. Sidoti questioned the amount of money that the Authority pays in delivery costs and the frequency of the charges for chemicals. Mr. Chase replied that they are Contracts and this amount represents the cost for the product(s) and delivery.

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Mr. Sidoti then asked since we have these products delivered often would it be possible to buy them in bulk and store them to avoid the frequency of the deliveries. Mr. Chase explained that Liquid Chlorine comes in 1-ton containers which are stored and used as needed and when it gets low, they bring in replacement containers. Carbon comes in bulk and is transferred into a silo; Lime comes in bulk and is also transferred into a silo. Fred Walcott, Superintendent at the Water Treatment Plant added that Lime comes in at 23 tons bulk, Ferric is 4,000 gallons which comes weekly.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye (apart from any bills for McIntyre Plumbing & Benjamin Franklin Plumbing)
Mr. Chase	Aye
Mrs. Hammar	Aye

Motion carried unanimously

Ratification and Approval of the August 2019 Accounts Payable as Presented to the Board Directors

Motion

Mr. Chase made a motion, seconded by Mr. Monahan, to approve and ratify the August 2019 Accounts Payable as Presented to the Board Directors.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye (apart from any bills for McIntyre Plumbing & Benjamin Franklin Plumbing)
Mr. Chase	Aye
Mrs. Hammar	Aye

Motion carried unanimously

Approval of the September 2019 Accounts Payable as Presented to the Board Directors

Motion

Mr. Chase made a motion, seconded by Mr. Sidoti, to approve the September 2019 Accounts Payable as Presented to the Board Directors.

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Roll Call on the Motion

Mr. Monahan Aye
Mr. Sidoti Aye
Mrs. Murphy Aye
Mr. Glasson Aye (apart from any bills for McIntyre Plumbing & Benjamin Franklin Plumbing)
Mr. Chase Aye
Mrs. Hammar Aye
Motion carried unanimously

Approval of the Board Meeting Minutes of June 24, 2019 Motion

Mr. Chase made a motion, seconded by Mr. Sidoti, approving the Board Meeting Minutes of June 24, 2019 as presented.

Roll Call on the Motion

Mr. Monahan Aye
Mr. Sidoti Aye
Mrs. Murphy Aye
Mr. Glasson Aye
Mr. Chase Aye
Mrs. Hammar Aye
Motion carried unanimously

Managing Director's Report

Contract WWTP-403: Furnish and Deliver Rock Salt (Sodium Chloride) for the 2019-2020 Season Through Bucks County Consortium Salt Bid

The Bucks County Consortium opened bids for the purchase of Rock Salt for the 2019-2020 season on Tuesday, August 27, 2019. The results of the bids, along with supporting documents, were forwarded to the Authority for review and award consideration. The results of the bid opening are presented in the attached table received from the Borough of Doylestown and are summarized below:

BIDDER	BID AMOUNT	
	Price \$/Ton - Delivered	Price \$/ Ton - Undelivered
Morton Salt, Inc.	\$48.50	\$48.00
Silvi Concrete Products	\$50.87	\$49.87
Cargill Deicing Technology	\$58.23	\$57.00
Eastern Salt Company	\$59.90	\$59.90
Detroit Salt Company	\$63.42	\$63.42

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There were five (5) bidders for this contract. Morton Salt, Inc., located at 444 West Lake St., Suite 3000, Chicago, IL., submitted the lowest unit bid of **\$48.50 per ton delivered**. Last year's bid price was \$47.92 per ton delivered (\$0.58 per ton increase). It is recommended awarding **Contract WWTP-403-Furnish and Deliver Rock Salt for the 2019-2020 Season to Morton Salt, Inc., located at 444 West Lake Street, Suite 3000, Chicago, IL with a unit bid price of \$48.50 per ton delivered** as per the specifications and general conditions contained in the bid documents. The contract will run thru September 30, 2020.

Motion

Mrs. Murphy made a motion, seconded by Mr. Chase, to award Contract WWTP-403-Furnish and Deliver Rock Salt for the 2019-2020 Season to Morton Salt, Inc., located at 444 West Lake Street, Suite 3000, Chicago, IL with a unit bid price of \$48.50 per ton delivered for a period up to September 30, 2020.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye
Mrs. Hammar	Aye

Motion carried unanimously

Contract WTP-400: Disposal of Liquid Sludge from the Water Treatment Plant

Bids were received on July 23, 2019 for the above contract. This contract is for the disposal of Liquid Sludge that the Authority removes as a result of cleaning the sedimentation basins and flocculation basins at the Water Plant. Generally, the Authority needs to dispose of Liquid Sludge once or twice a year when the flocculation and sedimentation tanks are cleaned. Bid results are presented below.

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		FRANC Environmental 321 Maple Ave Horsham, PA 19044	Russell Reid 450 Raritan Ctr Pkwy, Ste C Edison, NJ 08837
ITEM NO.	DESCRIPTION	BID PRICE per 1,000 gallons	BID PRICE per 1,000 gallons
1	For total solids content within the range of 1% - 3.0%	\$133.50	\$137.50
2	For total solids content within the range of 3.1% - 5.0%	\$143.50	\$137.50
3	For total solids content within the range of 5.1% - 6.0%	\$154.50	\$137.50
4	For total solids content within the range of 6.1% - 8.0%	\$165.50	\$147.50
5	For total solids content within the range of 8.1% - 10.0%	\$176.50	\$157.50
Total Base Bid (based on 5.1-6.0% solids)		\$154.50	\$137.50

There were two (2) bidders. As can be seen from the above bid tabulation, Russell Reid located at 450 Raritan Center Parkway, Edison, New Jersey, submitted the bid proposal with the lowest base bid. Estimated average total solid content of the Liquid Sludge is generally in the range of 5% to 6%. Russell Reid submitted the lowest unit price of \$137.50/1000 gallons for the range of 5% to 6%. Russell Reid is the contractor of the latest contract. Based on a review of the bid documents and bidder's qualification statement, the bidder was found to have the required qualifications for this project. It is recommended awarding **Contract WTP-400: Disposal of Liquid Sludge from the Water Treatment Plant to Russell Reid located at 450 Raritan Center Parkway, Suite C, Edison, New Jersey, for the unit base bid prices presented in the bid tabulation.** The duration of this contract is three (3) years. The existing contract price is \$128.50/1000 gallons (5.1%-6.0% solids content).

***MOTION NEEDED (Telephone approval- to be ratified at September Board meeting)**

Motion

Mrs. Murphy made a motion, seconded by Mr. Chase, to award Contract WTP-400: Disposal of Liquid Sludge from the Water Treatment Plant to Russell Reid located at 450 Raritan Center Parkway, Suite C, Edison, New Jersey, for the unit base bid prices presented in the bid tabulation for a period of three (3) years.

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Roll Call on the Motion

Mr. Monahan Aye
Mr. Sidoti Aye
Mrs. Murphy Aye
Mr. Glasson Aye
Mr. Chase Aye
Mrs. Hammar Aye
Motion carried unanimously

Contract WTP-404: Furnish and Supply Ferric Chloride to the Water Treatment Plant

This contract is for the purchase of Ferric Chloride (technical grade) for the Water Treatment Plant. Ferric Chloride is used as a coagulant in the coagulation/flocculation process which is one of the main water treatment unit processes at the plant. The estimated yearly consumption of ferric chloride is approximately 500,000 pounds on dry weight basis.

Bid proposals were received on August 15, 2019 for the above referenced contract. Bid results are presented below:

Contractor Name & Address	Unit Price Per CWT delivered	Unit Price per Gallon or Pound (lb.) delivered
Kemira Water Solutions, Inc. 3211 Clinton Parkway Center, Suite 1 Lawrence, KS 66047-2654	31.20 / dry CWT	\$1.48/gal \$0.312/lb. (on dry weight basis)
George S. Coyne Chemical Co. * 3015 State Road Croydon, PA 19021	\$11.841/wet CWT*	\$1.3938/gal \$0.1184/lb. (on wet weight basis)

***Conditional bid submitted**

Review of the bid proposals received shows that George S. Coyne Chemical Company submitted a conditional bid stating several exceptions to the contract requirements such as exception to delivery requirement, cleaning of storage tank, training, inspection and cleaning of storage tank. George S Coyne Chemical Company also stated that their unit price does not include cost of cleaning, engineering cost, and removal etc. Also, George S. Coyne Chemical Company submitted their unit bid price based on wet weight basis. The unit bid price per pound is supposed to be on a dry weight basis. When converted, the unit bid price from wet weight to dry weight, using minimum required Ferric Chloride percent, is calculated to be \$0.32/dry lb. which is higher than that of Kemira Water Solutions, Inc. Since George S. Coyne Chemical Company submitted a conditional bid with several exceptions, their bid proposal is unacceptable and therefore the bid is considered nonresponsive. Kemira Water Solutions, Inc. submitted the bid proposal with no exceptions/conditions and is determined to be in full compliance with the contract requirements and is the Authority's current supplier of Ferric Chloride.

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Based on review of the bid proposal and qualifications, it is recommended awarding Contract No. WTP-404 Furnish and Supply Ferric Chloride to the Water Treatment Plant to Kemira Water Solution, Inc., located at 3211 Clinton Parkway Center, Suite 1, Lawrence, KS with a unit price of \$31.20 per CWT dry or \$0.312 per dry pound of Ferric Chloride delivered.

The duration of this contract is two (2) year from the effective starting date of the contract. The existing contract unit price is \$24.95 per CWT (dry weight basis) or \$0.2495 per lb. (dry weight basis). This represents an increase of \$0.0625/dry lb. delivered.

***MOTION NEEDED (Telephone approval- to be ratified at September Board meeting)**

Motion

Mr. Sidoti made a motion, seconded by Mrs. Murphy, to award Contract No. WTP-404 Furnish and Supply Ferric Chloride to the Water Treatment Plant to Kemira Water Solution, Inc., located at 3211 Clinton Parkway Center, Suite 1, Lawrence, KS with a unit price of \$31.20 per CWT dry or \$0.312 per dry pound of Ferric Chloride delivered. The duration of this contract is two (2) year from the effective starting date of the contract.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye
Mrs. Hammar	Aye

Motion carried unanimously

Contract WWTP-408: Purchase of a Kubota SVL95-2SHC Skid Steer and Associated Equipment Under COSTAR Contract #4400019962 for the Wastewater Treatment Plant Field Department

On occasion, the Authority needs to rent a skid steer to work on water main replacements, water main repair projects and emergency repairs. The above stated skid steer will allow our Field Crew to move stone, pipe, etc. more efficiently and safely for sewer main repairs and water main replacements. It will also allow them to make repairs in tight backyards where access can be an issue, it can be used for backfilling, cleanup, etc. The Authority currently owns a 20-ton trailer capable of transporting the equipment from job to job. Owning this type of machine would be beneficial, as it can be used on practically any job.

The Authority received a quote prepared by Dean Leonetti of Eagle Power and Equipment Corp. for the purchase of a Kubota SVL95-2SHC Skid Steer and associated equipment, buckets, adapters, etc. The quote for \$68,099.63 is under COSTARS Contract #4400019962.

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Dr. Rajput is requesting the Board to approve Contract WWTAP-405: Purchase of a Kubota SVL95-2SHC Skid Steer and Associated Equipment Under COSTAR Contract #4400019962 for the Wastewater Treatment Plant Field Department with a price not to exceed **\$70,000** from Eagle Power and Equipment Corporation under PA CoStar Contract No. 4400019962.

***MOTION NEEDED**

Motion

Mrs. Murphy a motion, seconded by Mr. Chase, to award Contract WWTP-408: Purchase of a Kubota SVL95-2SHC Skid Steer and Associated Equipment Under COSTAR Contract #4400019962 for the Wastewater Treatment Plant Field Department with a price not to exceed **\$70,000** from Eagle Power and Equipment Corporation under PA CoStar Contract No. 4400019962.

Questions/Comments

Mr. Sidoti asked what the cost of renting with Mike Andrews, WWTP Manager replying that the Authority tries to rent demos so the Authority goes to a different manufacturer each time, they can be upwards of \$1,000 per week depending on the attachments that are needed at the time. Mr. Sidoti then asked how long does it normally take to replace a line, Mr. Andrews replied that the Authority usually three (3) months or longer.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye
Mrs. Hammar	Aye
Motion carried unanimously	

Looping Existing Water Main on Dolphin Road to the Existing Water Main on Snowball Drive

There is an existing dead-end water main located on Dolphin Road. We have observed abnormally high-water pressure and numerous water main breaks in this section of the Authority's water system. We have replaced many of the water mains that have had repeated water main breaks. It is our opinion that elimination of the dead end should improve the water distribution hydraulics of this section. Looping this water main with Snowball Drive will require crossing a busy intersection of Veterans Highway (Rt 413) and Trenton Road and will involve installation of approximately 430 linear feet of 8-inch water line from Dolphin Road to Snowball Drive. Installation of this 8-inch water main by Horizontal Directional Drilling is the most feasible option as it will eliminate open cut excavation through the busy intersection with some critical utilities.

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A quotation has been obtained from AmeriDrill, Inc. with a total estimated cost of \$49,750.00. Seeing that this is a specialized professional service, Dr. Rajput is requesting Board approval for the installation of the above water main looping by Horizontal Directional Drilling work to AmeriDrill, Inc. with a total estimated cost not to exceed \$49,750 with 20% contingency for any unexpected problems/conditions.

***MOTION NEEDED**

Motion

Mr. Chase made a motion, seconded by Mrs. Murphy, granting approval to Dr. Rajput to proceed with the Looping of the Existing Water Main on Dolphin Road to the Existing Water Main on Snowball Drive per a quotation obtained AmeriDrill, Inc. with an amount not to exceed \$49,750 with 20% contingency for any unexpected problems/conditions.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye
Mrs. Hammar	Aye

Motion carried unanimously

Contract No. WTP-406: Purchase of Six (6) Mud Valves with Rotork Actuator for the Replacement of the Existing Flocculator Influent Mud Valves form Edwin Elliot & Co. Under CoStar Contract Number 016-093 for the Water Treatment Plant

This project involves purchasing six (6) mud valves (24-inch size) with Rotork electric actuator to replace the existing mud valves located in the Flocculator Influent Channel (Flocculator influent mud valves). These valves are in very poor condition and beyond repair. During a recent flocculator isolation process, most of these valves broke and as a result they need to be replaced on an emergency basis. Proposals have been received for the purchase of the above required six (6) mud valves with electric actuator from Edwin Elliot & Co., Lafayette Hills, Pennsylvania under COSTARS Contract Number 016-093. The total quoted cost for 6 valves under the COSTARS Contract for the following two options are presented below:

Option 1: \$110,274.00 for all 316 stainless steel 24-inch mud valves, 316 stainless steel stem, sleeve coupling, 316 stainless steel extension stem, 316 stainless steel, stem guide assembly and 304 stainless steel fabricated floor stand prepped for Rotork electric actuator;

Option 2: \$80,849.00 for cast iron 24-inch mud valve, 316 stainless steel stem, sleeve coupling, 316 stainless steel extension stem, 316 stainless steel, stem guide assembly and 304 stainless steel fabricated floor stand prepped for Rotork electric actuator.

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Based on review of the overall costs and benefits, Dr. Rajput has recommended option 2 and is requesting the Board approval for the purchase of 6 mud valves presented as stated under option 2 with a total quoted cost of \$80,849 from Edwin Elliot & Co., Lafayette Hills, PA. under COSTARS Contract Number 016-093.

Motion

Mr. Chase made a motion, seconded by Mr. Sidoti, to Dr. Rajput to move forward with Option 1: \$110,274.00 for all 316 stainless steel 24-inch mud valves, 316 stainless steel stem, sleeve coupling, 316 stainless steel extension stem, 316 stainless steel, stem guide assembly and 304 stainless steel fabricated floor stand prepped for Rotork electric actuator from Edwin Elliot & Co., Lafayette Hills, PA. under COSTARS Contract Number 016-093.

Questions/Comments

Mr. Sidoti asked what the durability difference is between the two? Mr. Chase replied that when he was speaking with Dr. Rajput regarding this is that one of the problems that we have had over the years when the bottom disk closes off it's cast iron, the top part of it where the shaft attaches to the disk rusts out and breaks. The length of time that all stainless-steel as opposed to cast iron is a better option.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye
Mrs. Hammar	Aye

Motion carried unanimously

Replacement of the Existing Positive Displacement Blower for the Flow Equalization System at the Wastewater Treatment Plant

Currently, there are three blowers in the flow equalization building. These blowers supply air to two flow equalization tanks. A minimum of two blowers are needed to be operational. Since air to the flow equalization tanks is now being supplied by the aeration tank's blower, two blowers are kept as backup. One blower was rebuilt, the other two blowers are not currently operational. At this time, only one of the nonoperational blowers will be replaced so we will have two blowers operational and will serve as backups. Since this is a retrofit/replacement, we need to purchase a Gardner Denver Sutorbilt positive displacement blower. A purchase order has been issued to purchase this retrofit blower to replace one nonoperational blower (in kind).

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Total price of this blower is \$21,027.00. Since this is a retrofit and replacement (in kind) of the existing blower for flow equalization tanks, this purchase is exempt from bidding requirements. Replacement work will be done inhouse by the plant mechanics.

Replacement of the existing Flight Skimmers and Roller Chain Pins for the Dissolved Air Flotation System (DAF) for the Wastewater Treatment Plant

This project is part of the ongoing rehabilitation of the DAF System at the Wastewater Treatment Plant. The DAF System is used for sludge thickening. This project involved purchasing flights-skimmer and roller chain pins for the replacement/retrofitting of the existing old/deteriorated flights-skimmer and roller chain pins for DAF flights to connect to the chain drive. The total requisition cost for the above parts is \$22,100.00. Replacement work will be done inhouse by the plant mechanics.

Feasibility Study for Solar Photovoltaic Systems at the Authority's Facilities

The Authority has received a completed report on the feasibility study for Solar Photovoltaic Systems at the Authority's three facilities (Administration, Water and Wastewater Treatment Plants) dated September 20, 2019 from NOVA Consultants, Inc. The Wastewater Treatment Plant feasibility was not originally a part of the proposal, however, during the site visit by the Consultant, it was decided that it would be more cost effective to include the plant as opposed to conducting it later. NOVA Consultants agreed to perform the added study for an additional amount of \$2,500. A total of 11 sites/buildings' roof/parking lots were considered and evaluated for solar energy feasibility. A summary letter from NOVA Consultants details options available at each site, PV system size, annual energy generation estimate and budgetary cost estimates for each PV system. In order to come up with firm pricing, a detailed engineering design will be required which was not a part of this study.

Computer Upgrade

The Authority's computer system upgrade is continuing including; server hardware, software and computer workstations to the new Windows operating system and software. The Authority's servers run using Windows server 2008 R2 operating systems and predominantly use Windows 7 or Windows 8 for the user workstations. Both operating systems (Windows Server 2008 R2 and Windows) will be made obsolete by Microsoft on January 14, 2020. The Authority's system is being upgraded to the new Windows server 2016/2019 and Windows 10 operating system. All required upgrades will be completed prior to January 14, 2020. The required upgrades of servers and workstations at both plants have already been completed. The main servers and workstations at the administration building are currently being upgraded. The estimated cost for the upgrade of hardware/server (six servers) and workstations at the Administration building is approximately \$29,000 with a 3-year warranty on all equipment plus an additional \$5,000 for Windows Server licenses to keep our software current and under Microsoft protection. All hardware/servers are being purchased through CDW Government under Costar pricing.

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Estimated IT engineering service costs for server setups, virtualization, configuration, physical installation, authority-wide integration for shared resources and software is approximately \$7,000. This work will be completed by our current Professional IT service provider.

Alarm and Shutdown Requirements for the Water Treatment Plant

Currently, we have turbidity meters and alarms on each filter (combined effluent from two cells of each filter). However, as per PADEP requirements, the Authority is required to have turbidity meters on each individual cell of each filter effluent or a total of 16 additional turbidity meters. This also requires significant replacement of valves with new advanced control mechanisms and electronic actuators to integrate with the Plant SCADA System and alarms. All the required valves for the filters to replace the old existing valves have been purchased. Currently, the existing valves and piping are being replaced with the new valves. Also, the new turbidity meters that have been purchased are currently in transit. Only one filter can be taken out of service at a time. Considering this, we have requested PADEP for an alternative compliance schedule to complete the above work on or before December 31, 2019. As a result, the following work is already completed:

- a.** Filter #1: All valves have been replaced and wired. Turbidity meters will be installed when received.
- b.** Filter #2: All valves have been replaced and wired. Three 9# new turbidity meters have been mounted (one turbidity meter on each filter cell and one on combined filter effluent).
- c.** Filter # 3: Scheduled to start work during the week of September 23rd.
- d.** Filter # 4: All valves (waste, effluent, rewash and backwash) have been installed. The surface wash and rate control valves have been replaced.

Contract WWTP-401: Replacement of Existing Chlorination System with Ultraviolet (UV) Disinfection System at the Wastewater Treatment Plant - Capital Improvement Project

Currently, the Authority has an existing chlorination system for the disinfection of treated plant effluent at the Wastewater Treatment Plant. Per the current NPDES permit, permitted monthly average chlorine residual is 0.5 mg/L. Unlike a potable water system, we are not required to maintain any residual chlorine in the discharge from the Wastewater Treatment Plant. The Authority is required to disinfect the effluent to meet the permitted fecal coliform concentration. We have been investigating a feasible alternative to the existing chlorine disinfection for the Wastewater Treatment Plant effluent. In review of available alternatives, it is our opinion that the Ultraviolet (UV) System is a feasible alternative to the Authority's existing plant effluent chlorine disinfection system. UV light irradiation is a proven disinfection process using short wavelength UV energy to inactivate harmful microorganisms. We have also recently visited a Wastewater Treatment Plant with a non-Contact UV disinfection system manufactured by Enaqua Company.

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Based on our review of the two different options, we determined that an alternative consisting modular 4 UV reactors (2 banks per reactor) or 4 UV channels in parallel with 33% redundancy of banks at peak flow of 30 MGD provides needed operational flexibility and considers any future potential upgrade of the plant up to 15 MGD average flow or higher. An Estimated cost of a UV system for this option is approximately \$1,300,000. A total allocated cost for this project is approximately \$2,000,000. We are currently working on design and preparing technical specifications. All engineering design and preparation of contract document/specifications is being done in-house.

Contract WWTP-407: Replacement of the Existing Bar Screen at the Wastewater Treatment Plant - Capital Improvement Project

Currently, there are two mechanically cleaned bar screens at the Wastewater Treatment Plant. Of the two screens, one screen serves as a backup. These screens are more than 20 years old and it is problematic to get replacement parts. Recently, one screen malfunctioned and had to be taken out of operation. We have been unsuccessful in finding replacement parts. We are currently reviewing a center flow type fine screens (9mm) with washing compactor supplied by Hydro-Dyne Engineering, Inc. We have also visited a plant with this type of system installation. An estimated cost of two screens and a compactor plus controls, warranty and spare parts is approximately \$435,000. We have begun working on technical specifications and contract bidding documents.

Comprehensive Monitoring Plan for the Water Treatment Plant

In compliance with the requirements of PADEP regulations, the Authority has prepared and submitted the Comprehensive Monitoring Plan Form 2 to PADEP. We have also completed and submitted the required forms for reserve designation of the existing ground wells to PADEP.

Water Distribution System Maintenance Program: Rehabilitation/Replacement of the Existing Water Mains - Phase V

Under the ongoing phase V of the water main replacement project, replacement of 1290 linear feet of 6" cast iron water main with 8" ductile iron pipe on Deep Dale Drive West and 890' linear feet of 6" cast iron pipe with 6" ductile iron pipe on Grand Pine Road has been completed. We are also planning to eliminate the dead end at Dolphin Road by looping it with the 12" water main on Snowball Drive (approximately 500 linear feet of 8" pipe), as reported above. Installation of a meter pit at New Falls Road to facilitate water interconnection with the Township of Falls Authority has also been completed.

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Contract WWTP-392: Installation of Cured-In-Place Sanitary Sewer Lining in Various Locations - Phase VI

Currently, this contract is on hold. We had a progress meeting with the Contractor in July. Since the Contractor has not submitted the required lab test reports on the CIPP work completed, it was agreed that the work should be placed on hold until all required test reports are received and reviewed for the compliance with the contract design requirements.

Also, the Contractor was directed to address all outstanding issues with the work completed. Their last 2 payment applications are also being held.

2019 Available Operator Reports for the Water and Wastewater Treatment Plants

As per the requirements of PADEP, the required available Operator Reports were prepared and submitted to PADEP along with the Chapter 302 annual service Fees.

Project WWTP-190: Wastewater Treatment Plant SCADA System Upgrade

The Authority is continuing the required ongoing upgrade/retrofit of the existing PLCs and SCADA System at the Wastewater Treatment Plant.

Project WTP-140: Water Treatment Plant SCADA System Upgrade

Upgrade of the Water Treatment Plant SCADA is significantly completed.

Water and Wastewater Systems

The average daily drinking water supplied for the month of July 2019 was approximately 6.51 MGD. The monthly average effluent flow from the wastewater treatment plant for the month of July 2019 was 7.27MGD.

Illegal Discharge into the Wastewater System

The Authority is continuing to investigate any unpermitted/illegal discharge(s) into the its Wastewater System. Review of sampling and analytical results indicate that the discharge appears to be digested sludge/septic sludge or a wastewater with a very high solid content and toxicity. This discharge is observed to have a toxic effect on microorganisms at the Wastewater Treatment Plant. It also creates abnormal chlorine demand. It is affecting our treatment process. We are working on the treatment processes at the Plant to handle this illegal discharge. We have also informed PADEP about this illegal discharge. A PADEP representative visited our plant last week and collected samples and sent them to their lab for analysis. It appears that the above discharge has stopped at the beginning of this week and we are already observing recovery of the Plant performance.

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Employee Termination

Dr. Rajput reported that employee #1530 has been on disability since September 21, 2018 and to date has not been certified to return to work. Per the Union Contract Section 25:10 If an employee's absence is due to illness or injury, whether work or non-work related or caused and is prolonged beyond a period of twelve (12) months and said employee is not certified to return to work, his employment service with the Authority may be terminated.

Considering the above information, Dr. Rajput is recommending to the Board to terminate Employee #1530 effective immediately. Mr. Chase clarified "for failure to be able to report back to work per the Union Contract.)"

MOTION

Mrs. Chase made a motion, seconded by Mrs. Murphy, to terminate employee #1530 effective immediately per section 25:10 of the Union Contract.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye
Mrs. Hammar	Aye

Motion carried unanimously

Operator 3-11 - Open Position at the Water Treatment Plant

Dr. Rajput informed the Board that there is an open position for an Operator 3:00 PM to 11:00 PM at the Water Treatment Plant. This position was posted, and no one signed for it. It was then advertised in the newspaper. Based on the applications received and the aptitude test given three (3) candidates were chosen. At that point we interviewed those candidates. Dr. Rajput is now asking for Board approval to hire the top ranked applicant Ouida Altmiller for this position, effective October 2, 2019 with an hourly rate of \$21.00 per hr. This would be contingent upon passing the required physical, drug & alcohol test and the required Water Treatment Plant Operator Qualification Testing and on the job training has been completed.

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MOTION

Mrs. Murphy made a motion, seconded by Mr. Chase, giving permission to Dr. Rajput to award the position of Operator, 3-11 to Ouida Altmiller, effective October 2, 2019 with an hourly rate of \$21.00 per hr. This would be contingent upon passing the required physical, drug & alcohol test and the required Water Treatment Plant Operator Qualification Testing and on the job training has been completed.

Operator - 11-7 Open Position at the Water Treatment Plant

Dr. Rajput stated that in lieu of the above motion of termination, there is now an opening for an 11-7 Operator position. Since we currently have five (5) employees from the Water Treatment Plant on Disability/Workers' Compensation it has been somewhat challenging. Dr. Rajput thanked Fred Walcott and Mike Hoelzle for helping to manage the situation. We will go through posting this position to offer it to any current employees. If no one signs for this position and considering we have already followed the next step in the hiring process, Dr. Rajput is requesting approval from the Board to hire the second ranked candidate for the open position if none of the current employees sign for this open position.

Motion

Mr. Chase made a motion, seconded by Mrs. Murphy, authorizing Dr. Rajput to proceed with hiring the second ranked candidate if a current employee does not sign for the above position.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye
Mrs. Hammar	Aye
Motion carried unanimously	

Board Meeting for October and November

Dr. Rajput informed the Board that he will not be available for the October meeting. If the Board agrees we could suspend the meeting for October. November's Board Meeting falls on November 28th. Dr. Rajput is requesting Board approval to re-schedule the November meeting. After some discussion, the following motion was made.

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Motion

Mrs. Murphy made a motion, seconded by Mr. Sidoti, to suspend the October Board Meeting and re-schedule the November Board Meeting to Tuesday, November 26, 2019 and advertise accordingly.

Mr. Downey added that if there is any business that needs to be conducted prior to the November 26th Board Meeting that it can be done administratively and then subsequently approved.

Amended Motion

Mrs. Murphy made a motion, seconded by Mr. Sidoti, to suspend the October Board Meeting and re-schedule the November Board Meeting to Tuesday, November 26, 2019 and advertise accordingly. Should any business need to be conducted prior to the November 26th Board Meeting that it can be done administratively and subsequently approved.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye
Mrs. Hammar	Aye
Motion carried unanimously	

Solicitor's Report - James A. Downey, III, Esquire

Mr. Downey reported that an Executive Session was held from approximately 6:00 P.M. to 6:50 P.M. during which time personnel matters and potential litigation were discussed and at some length litigation. The following cases were discussed:

United States District Court of the Eastern District of Pennsylvania indexed at #18-4885

Bucks County
Case #0136-2016
Case #2056-2016
Case #1308-2019

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Finance Manager's Report

Mrs. Dunn is requesting Board approval to pay the 2019 MMO. The Amount due is \$305,608 for the Non-Supervisor's Plan and \$584,681 for the Supervisor's Plan for a total of \$890,289. Mrs. Dunn is also requesting additional funds to be applied to the unfunded balance; \$161,170 for the Non-Supervisor's Plan and \$439,763 for the Supervisor's Plan for a total of \$600,933. An improvement will be seen in the unfunded liability when the Authority receives the actual invoice for 2020.

Motion 1 - 2019 MMO Payment

Mrs. Murphy made a motion, seconded by Mr. Chase, approving the required payment for the Non-Supervisor's and the Supervisor's Plan in the amount of \$890,289.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye
Mrs. Hammar	Aye

Motion carried unanimously

Motion 2 - Additional Payment - Unfunded Balance

Mrs. Murphy made a motion, seconded by Mr. Sidoti, approving the additional Payment to further reduce the Authority's Unfunded Liability to the plans for a total of \$600,933.

Roll Call on the Motion

Mr. Monahan	Aye
Mr. Sidoti	Aye
Mrs. Murphy	Aye
Mr. Glasson	Aye
Mr. Chase	Aye
Mrs. Hammar	Aye

Motion carried unanimously

Mrs. Dunn also presented the calculation for the 2020 MMO contributions. Per our calculations, the Authority's MMO for the Non-Supervisor Plan is 297,040 and the Supervisor's Plan is \$603,099 for an estimated total of \$900,139.

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Old Business

Mr. Chase asked Fred Walcott, and Mike Hoelzle, if they had things some-what under control since there are quite a few employees that are out on Disability or Workers' Compensation, Mr. Walcott replied that he and Mr. Hoelzle are working quite a lot of Operator's hours especially on weekends.

New Business

Mr. Glasson welcomed Mrs. Hammar to the Board.

Public Participation

There was no Public Participation.

Adjournment

Mr. Chase made a motion, seconded by Mrs. Murphy, to adjourn the Board meeting at 7:40 P.M.
Motion carried unanimously.

Respectfully submitted by:



Cynthia Murphy
Secretary

CM/dm
DPM0043