

# *Lower Bucks County Joint Municipal Authority*

## *Board Meeting Minutes ~ April 28, 2022*

The Board Directors of Lower Bucks County Joint Municipal Authority held their monthly meeting on Thursday, April 28, 2022, 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 for all those who keep us safe every day and keep the families of the State Troopers who lost their lives.

### **Roll Call**

Mrs. Burnell took roll call as follows:

**Present:** Michele Hammar  
Joseph Glasson  
Bryan Servis  
Cynthia Murphy  
Michael Sidoti

**Absent:** John Monahan

**Also Present:** Vijay S. Rajput, Ph.D., P.E., Managing Director  
Phil Smythe, Field Technician/LS Supervisor  
Nancy Burnell, Meter Department Supervisor  
Colleen Dunn, Finance Manager  
James Downey, Esquire

### **Public Participation**

No public Participation

### **Approval of the April's 2022 Accounts Payable**

**Motion:** Mrs. Murphy made a motion, seconded by Mrs. Hammar to approve 2022 Accounts Payables as presented to the Board Directors.

### **Roll Call on the Motion**

Mrs. Murphy           Aye  
Mr. Servis            Aye  
Mr. Glasson          Aye  
Mrs. Hammar         Aye  
Mr. Sidoti            Aye  
Motion carried unanimously.

# *Lower Bucks County Joint Municipal Authority*

## *Board Meeting Minutes ~ April 28, 2022*

\*\* Mr. Glasson abstained from any invoices to McIntyre Plumbing, Benjamin Franklin Plumbing & Glasson Enterprises for the year 2022.

### **Approval of the April's 2022 Board Meeting Minutes**

**Motion:** Mrs. Murphy made a motion, seconded by Mrs. Hammar to approve April's 2022, Board Meeting Minutes.

#### Roll Call on the Motion

Mr. Servis                      Aye

Mrs. Murphy                    Aye

Mr. Glasson                    Aye

Mrs. Hammar                   Aye

Mr. Sidoti

Motion carried unanimously

\*\* Mr. Sidoti abstained form vote due to absents of April's meeting.

### **MANAGING DIRECTORS REPORT**

CONTRACT WTP-418: REHABILITATION OF FILTERS AT WATER TREATMENT PLANT UNDER COSTARS CONTRACT NO. 016-190 (CAPITAL IMPROVEMENT PROJECT)

Dr. Rajput stated that this Contract WTP-418 involves replacement of filter media and full rehabilitation of all surfaces in the filters, influent channel and entire filter room. Work involves removal of the existing filter media including from the underdrain, if any, using the required vacuum equipment, coating of filter walls, handrails and ceiling, removal of existing vinyl floor tile followed by preparation and coating, installation of filter media in compliance with PADEP and AWWA specifications, performance of required disinfection of filter and filter media prior to placing back in service. Only one filter will be taken out of service at a time. Contractor will be required to install full containment area around one filter train at a time. The existing filter media is more than 22 years old and needs to be replaced. In this regard, a proposal has been obtained for the above required filter media replacement and filter rehabilitation of filters from J.P. Smith Contractors, Inc. under the COSTARS contract. J.P. Smith Contractors, Inc. possess the required experience and qualification for the project. Total lump sum price under COSTARS for the above work is \$934,290.00. It is our opinion that the quoted COSTARS price is reasonable. We will realize a saving of more than \$300,000 with this COSTAR contract. All engineering work for this project is being done in-house. We would like to recommend the Board for its consideration awarding Contract No. WTP-418 -Rehabilitation of filters at the Water Treatment Plant for a total lump sum amount of \$934,290.00 to J.P. Smith Contractors, Inc. located at 120 South Eastern Rd, Glenside, PA 19038 under COSTARS Contract No. 016-190.

# *Lower Bucks County Joint Municipal Authority*

## *Board Meeting Minutes ~ April 28, 2022*

**Motion:** Mrs. Murphy made a motion, seconded by Mr. Servis to approve Contract No. WTP-418 -Rehabilitation of filters at the Water Treatment Plant for a total lump sum amount of \$934,290.00 to J.P. Smith Contractors, Inc. located at 120 South Eastern Rd, Glenside, PA 19038 under COSTARS Contract No. 016-190.

### Roll Call on the Motion

Mrs. Murphy           Aye

Mr. Servis             Aye

Mr. Glasson           Aye

Mrs. Hammar          Aye

Mr. Sidoti

Motion carried unanimously.

**CONTRACT WWTP-401A: FURNISH AND DELIVER COMPLETE ULTRAVIOLET DISINFECTION SYSTEM TO REPLACE EXISTING CHLORINE DISINFECTION SYSTEM UNDER COSTARS CONTRACT 016-123 AT THE WASTEWATER TREATMENT PLANT (CAPITAL IMPROVEMENT PROJECT)**

Dr. Rajput stated that we have determined that it is more economical and efficient to implement the project involving replacement of the existing chlorine disinfection system at the Wastewater Treatment Plant with Ultraviolet (UV) disinfection system. We have reviewed several different available alternatives to chlorine disinfection and selected UV disinfection as the best available alternative to the existing chlorine disinfection. It will preclude use of chlorine gas and eliminate the need for a Risk Management Plan. It has been determined that it is more economical to implement this project under two separate COSTARS contracts. The first contract will involve purchase and delivery of the complete UV disinfection from the manufacturer or its authorized supplier under the COSTARS contract. The second contract will involve installation of the UV disinfection system, also under a COSTARS contract. Based on our review of available UV systems, it is our opinion that the non-contact UV system manufactured by EnAqua located at Vista, California is best suited for retrofitting at the Authority's existing chlorine contact tanks. In this regard, we have received a proposal from Sherwood Logan & Associates, Inc., the authorized sales representative of EnAqua to supply and deliver the complete UV disinfection system to the Authority with a total contract amount of \$1,703,380.00 under COSTARS contract # 016-123. This price includes furnishing and supplying complete EnAqua UV disinfection system, EnAqua UVT analyzer, twelve (12) channel slide gates and twelve (12) open close service actuators for automatic operation of UV system. This UV disinfection system is designed to handle average plant flow of 15 MGD. This system is designed with redundancy back up capacity to accommodate any future growth within the Authority's service area. Estimated delivery time is 24 weeks which could change depending upon prevailing conditions. Cost of materials is frequently changing and increasing. We will realize a saving of more than \$200,000 with this COSTAR contract. All engineering for this project is being done in house (saving of more than \$100,000). We would like to recommend to the Board for its consideration of awarding Contract No.

# *Lower Bucks County Joint Municipal Authority*

## *Board Meeting Minutes ~ April 28, 2022*

WWTP 401A-Furnish and Deliver Complete Ultraviolet Disinfection System to Sherwood-Logan & Associates, Inc., located at 2140 Renard Court, Annapolis, MD 21401, under COSTARS Contract No. 016-123 for a total contract amount of \$1,703,380.00. We would also recommend to the Board for its consideration to approve an allowance of \$50,000 for any additional work or conditions that may arise under this project. We would like to thank Michael Andrews, P.E., WWTP Manager/Engineering Assistant for his excellent assistance including preparing AutoCAD drawings with this project.

**Motion:** Mrs. Murphy made a motion, seconded by Mr. Sidoti to approve Contract No. WWTP 401A-Furnish and Deliver Complete Ultraviolet Disinfection System to Sherwood-Logan & Associates, Inc., located at 2140 Renard Court, Annapolis, MD 21401, under COSTARS Contract No. 016-123 for a total contract amount of \$1,703,380.00 and an allowance of \$50,000 for any additional work or conditions that may arise under this project.

### Roll Call on the Motion

Mrs. Murphy           Aye

Mr. Servis             Aye

Mr. Glasson           Aye

Mrs. Hammar          Aye

Mr. Sidoti             Aye

Motion carried unanimously.

### CONTRACT WWTP-401B: INSTALLATION OF ULTRAVIOLET DISINFECTION SYSTEM IN THE EXISTING CHLORINE CONTACT BASINS AT THE WASTEWATER TREATMENT UNDER COSTARS CONTRACT COSTARS CONTRACT NO. 016-187 (CAPITAL IMPROVEMENT PROJECT)

Dr Rajput stated that the Contract WWTP 401B under Costar number 016-187 involves coordination and installation of six (6) EnAqua non-contact Ultraviolet disinfection systems, twelve (12) motorized influent and effluent gates supplied by Sherwood Logan Associates, Inc. under a separate contract and placing the complete system in full operation as per the manufacturer requirements. The work also involves furnishing and installing a prefabricated metal structure canopy (approximately 48' x 90') to cover to the entire chlorine contact tanks/UV system, furnishing and installing a solar system over the roof of the canopy (estimated solar power generation of approximately 92,506 kWh/year to 100,017 kWh/year), general and electrical construction pertaining to the installation of the UV system and emergency generator. Work also includes furnishing and installing a new 1000 KW emergency power generator including providing. The existing emergency generator is 600 KW and was undersized and is more than 30 years old and outdated. This needs to be replaced with a larger capacity emergency generator. In this regard, we have received a proposal for the above work from Eastern Environmental Contractors, Inc. under Costar Contract No. 016-187.

# *Lower Bucks County Joint Municipal Authority*

## *Board Meeting Minutes ~ April 28, 2022*

Therefore, we would like to recommend to the Board for its consideration of awarding Contract No. WWTP 401B- Installation of Ultraviolet Disinfection System in the Existing Chlorine Contact Basins at the Wastewater Treatment Plant to Eastern Environmental Contractors, Inc., located at 6304 5<sup>th</sup> Street, Green Lane, PA 18054, under COSTARS Contract No. 016-187 for a total contract amount of \$2,005,400.00. This includes an allowance/contingency of \$200,000 for any additional work or conditions that may arise under this project. The above contract amount does not include the cost of the prefabricated metal structure canopy or the cost of the solar system. Therefore, we would like to request the Board for its consideration to approve total amount not to exceed \$460,000.00 for prefabricated canopy cover and solar system. This cost is based on the quotations that we have already received. We are evaluating available options of combined solar canopy option including benefits of Government incentives. We will continue to perform value engineering to reduce cost by using alternative construction/installation methods.

**Motion:** Mr. Sidoti made a motion, seconded by Mrs. Murphy to approve Contract No. WWTP 401B- Installation of Ultraviolet Disinfection System in the Existing Chlorine Contact Basins at the Wastewater Treatment Plant to Eastern Environmental Contractors, Inc., located at 6304 5<sup>th</sup> Street, Green Lane, PA 18054, under COSTARS Contract No. 016-187 for a total contract amount of \$2,005,400.00 which includes an allowance/contingency of \$200,000 for any additional work or conditions that may arise under this project.

### Roll Call on the Motion

Mrs. Murphy	Aye
Mr. Servis	Aye
Mr. Glasson	Aye
Mrs. Hammar	Aye
Mr. Sidoti	Aye

Motion carried unanimously

**Motion:** Mr. Sidoti made a motion, seconded by Mrs. Murphy to approve total amount not to exceed \$460,000.00 for prefabricated canopy cover with solar system which is based on a quotation received. Dr. Rajput is to evaluate other available options of combined solar canopy option including benefits of Government incentives.

### Roll Call on the Motion

Mrs. Murphy	Aye
Mr. Servis	Aye
Mr. Glasson	Aye
Mrs. Hammar	Aye
Mr. Sidoti	Aye

Motion carried unanimously

# *Lower Bucks County Joint Municipal Authority*

## *Board Meeting Minutes ~ April 28, 2022*

### PROJECT NO. WTP-162: REHABILITATION/REPLACEMENT OF SWITCH GEAR FOR EMERGENCY GENERATOR AT THE WATER TREATMENT PLANT

Dr. Rajput stated that this project involves rehabilitation/replacement of the existing switch gear for the existing emergency generator at the Water Treatment Plant. The existing switch gear is more than 20 years old and replacement parts are no longer available. This is a critical part of our emergency generator operation. Therefore, it needs to be rehabilitated/replaced. The electronic parts, controls and equipment covered under this project are considered Proprietary and specialized and are manufactured and supplied by Bradley Electro sales Corp. Also, this is a replacement/rehabilitation of the existing switch gears and a part of ongoing maintenance work. In this regard, we have obtained quotation from Bradley Electro Sales Corp to furnish and replace the existing Switch gear. The total quoted price is \$47,317.00. We recommend accepting the proposal received from Bradley Electro Sales Corp to furnish and replace the existing switch gear with new Switch gears with all the required parts and control for the operation of the existing emergency generator for a total quoted price of \$47,317.00.

**Motion:** Mr. Sidoti made a motion, seconded by Mrs. Murphy to accept the proposal received from Bradley Electro Sales Corp to furnish and replace the existing switch gear with new Switch gears with all the required parts and control for the operation of the existing emergency generator for a total quoted price of \$47,317.00.

#### Roll Call on the Motion

Mrs. Murphy	Aye
Mr. Servis	Aye
Mr. Glasson	Aye
Mrs. Hammar	Aye
Mr. Sidoti	Aye

Motion carried unanimously

*Dr. Rajput stated that the following items of his report are for Board information and updates:*

#### ANNUAL WASTELOAD MANAGEMENT REPORT (CHAPTER 94 REPORT)

According to the requirements of PADEP, the Annual Waste Load Management Report (PADEP Chapter 94 Report) has been completed and submitted electronically to PADEP for the reporting year of 2021.

The report presents hydraulic and organic loading calculations and projections for the next five (5) years performance of the plant, connections to the Authority's system, plant maintenance, wastewater collection system maintenance program, pumping station conditions and maintenance, sludge disposal, etc. The annual daily average wastewater flow to the plant was 7.69 MGD for the reporting year of 2021.

# *Lower Bucks County Joint Municipal Authority*

## *Board Meeting Minutes ~ April 28, 2022*

The maintenance work completed for the collection system during 2021 involved CCTV inspection of approximately 29,997 lineal feet of sewer pipe, jetting/cleaning of approximately 1,885 lineal feet of sewer pipe and root removal/cutting of approximately 2381 lineal feet of sewer pipe. During the reporting year, there were 174 homes that removed trees from the Authority's sanitary sewer easement areas, 183 homes which were found to have broken sewer vents/cleanouts that have been repaired and 166 sanitary sewer laterals were replaced.

We would like to thank Jennifer Smythe, Executive Assistant, for her excellent assistance in compiling and tabulating the voluminous monitoring data and preparing this report.

### PRETREATMENT ANNUAL REPORT

We have completed and submitted the required Pretreatment Program Annual Report for the reporting year of 2021 electronically to USEPA and PADEP. Similar to the reporting year of 2020, there were four significant Industrial users (SIU) during this reporting year of 2021. Of this, two facilities do not discharge any process wastewater to the Authority's Wastewater Treatment Plant. None of the above regulated SIU's were in Significant Non-Compliance during the reporting year. We would like to thank Jennifer Smythe for her excellent assistance in completing this report as well as assisting me in the pretreatment program serving as Acting Pretreatment Coordinator.

### ANNUAL WATER AUDIT REPORT-DELAWARE RIVER BASIN COMMISSION (DRBC)

As per the requirements of the DRBC, the annual water audit was performed for our water system for the reporting year of 2021. The completed water audit report was submitted electronically to the DRBC per their requirements. The water audit data validity score was computed to be 93 out of 100, which is an excellent score. For the reporting year of 2021, the percent of unaccounted water was calculated to be approximately 1.61%. We are proactively continuing to investigate the source of the unaccounted water and continuing to investigate and determine options for reducing the amount of unbilled metered water usage, which includes water used at the water and wastewater treatment plants, administration building, wastewater pump stations, fire hydrant flushing and leakage loss. We would like thank Nancy Burnell, Meter Department Supervisor and Colleen Dunn, Finance Manager for their excellent assistance in performing this annual Water Audit.

### 2021 ANNUAL WATER QUALITY DATA

In compliance with the requirements of the Safe Drinking Water Act 1996 Amendments relating to the Consumer Confidence Reports, our Water Quality Data has been completed and sent to the Authority's wholesale customers (Bucks County Water and Sewer Authority and Township of Falls Authority) for preparation of their annual Water Quality Report (Consumer Confidence Report-CCR) for the reporting year of 2021. A copy of the Table containing the 2021 Water Quality Data is attached for your information. As you can see, the drinking water that the Authority produces is one of the best, which consistently meets or exceeds all water quality standards. We would like to thank Fred Walcott, WTP Superintendent for compiling the monitoring data for 2021.

# *Lower Bucks County Joint Municipal Authority*

## *Board Meeting Minutes ~ April 28, 2022*

### WATER DISTRIBUTION SYSTEM MAINTENANCE PROGRAM: REHABILITATION / REPLACEMENT OF EXISTING WATER MAINS – PHASE 7

We have completed replacement of water mains on Prunewood Road (1110 ft), and Gooseneck Road (approximately 950 ft) and are currently working on Mountain Lane (approximately 1100 ft) and Meadow Lane (approximately 1350 ft).

### WASTEWATER TREATMENT PLANT NPDES PERMIT

We are continuing to work on preparing the application for the renewal of the permit and will submit to PADEP along with the required fee at least six months prior to the expiration date of the existing permit (on or before June 30, 2022) as per PADEP requirements. In this regard, the required three sampling events for the effluent and one sampling event for influent of the Wastewater Treatment Plant have been completed. Currently, we are reviewing and entering the sampling data in the data reporting sheets of the permit application.

### WASTEWATER PLANT LABORATORY-ADDITION OF FIELD OF ACCREDITATION-COLILERT-18 METHOD

On April 19, 2022, PADEP conducted a virtual assessment of the Wastewater Treatment Plant Laboratory with respect to approval/accreditation process for Colilert18 method for Fecal Coliform analysis at the WWTP lab.

### CHEMICAL SUPPLY COST INCREASE - CHLORINE SUPPLY

Chlorine supply cost has been increased \$500 per ton to \$1,225 per ton during the last two months. We don't have much choice as we need Chlorine at both Water and Wastewater Treatment Plant.

### WATER AND WASTEWATER SYSTEMS

The average daily drinking water supplied for the month of March was approximately 6.09 MGD. This is of lowest monthly average water demand we have observed. The monthly average effluent flow from the wastewater treatment plant for the month of March was approximately 6.81 MGD.

### **Solicitor's Report – James A Downey III, Esquire**

There was an executive session from 6:30 pm. to 6:55 pm. at which time we discussed, potential litigation, litigation and personnel matters. Mrs. Dunn has a resolution that you will have to sign tonight. This resolution is to acknowledge the changes in the retirement system and is required by the Pennsylvania Municipal Retirement System to reflex the collective bargaining agreement that were just completed. Mrs. Dunn will present this information to you.



# *Lower Bucks County Joint Municipal Authority*

*Board Meeting Minutes ~ April 28, 2022*

## **Finance Manager's Report**

Mrs. Dunn reported the Authority is doing well and submitted her financial report to the Board of Directors for informational purposes. Mrs. Dunn will need two signatures; one signature is for the audit confirmation for the banking and the other signature is for the pension plan resolution and that is part of the CBA no changes other than the upgrades.

**Motion:** Mr. Servis made a motion, seconded by Mrs. Murphy to approve the resolution acknowledging the changes in the retirement system as required by the Pennsylvania Municipal Retirement System to reflex the collective bargaining agreement that were just completed.

## **Roll Call on the Motion**

Mrs. Murphy	Aye
Mr. Servis	Aye
Mr. Glasson	Aye
Mrs. Hammar	Aye
Mr. Sidoti	Aye

Motion carried unanimously

## **Old Business**

There was no Old Business brought before the Board.

## **New Business**

Mr. Glasson wanted to thank Dr. Rajput, Mr. Andrews and anyone that worked with the Falls Township Fire Department with answering the questions concerning line sizes and locations. This coming after the Levittown Bowling Alley fire.

## **Public Participation**


No public participation

## **Adjournment**

Mr. Sidoti made a motion, seconded by Mrs. Mrs. Murphy to adjourn the Board meeting at 7:22 p.m.

Motion carried unanimously.

Respectfully submitted by:

  
Michele Hammar, Secretary