

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from August 3 through August 30, 2019:

Projects in Construction

Contract Nos. 17-3, 17-6, and 17-7: Anaerobic Digester Replacement (007608.0433):

Contract 17-3 has continued progress on completing the Contract Work. The Secondary Digester was ready for sludge transfer on August 12 and operations began transferring sludge on August 13. The Contractor has requested Substantial Completion for the Project. A substantial completion inspection will be scheduled within the next week.

Work is 90% complete on the roof replacement of the Digester Building with fascia and finishing still remaining. The walkway and platform between Digesters has been completed. Front Gate work has begun and will be completed in the next week. Work on replacing the alkalinity piping has begun and will be completed within the next week. Final completion is scheduled by the end of September.

Contract 17-6 continues to provide support and maintain schedule with EEC.

Final payment has been approved for Contract 17-7; however, we have not received final closeout documents. We have also issued two warranty letters for fans whose motors have burned out and need to be replaced. One motor has been replaced to-date.



We are recommending approval of Application for Payment No. 20 for Contract 17-3 (Anaerobic Digester Replacement General Contract) to Eastern Environmental Contractors, Inc. in the amount of \$115,180.20.

We are also recommending approval of Application for Payment No. 13 for Contract 17-6 (Anaerobic Digester Replacement Electrical Contract) to Garden Spot Electric in the amount of \$38,703.00

Contracts 18-2 and 18-3: 2018 Sanitary Sewer Repair Project (007608.0450):

MOR has completed all work associated with the Project with the exception of final wearing course pavement on Knollwood Drive and the private driveway. The final pavement is set to be placed on

August 30th. HRG will be working with MOR to prepare closeout documents set to be executed at the October Authority meeting.

Mr. Rehab, LLC has completed all Work associated with Contract 18-3. We are recommending approval of Change Order No. 2-Final Adjusting Changer Order for Contract No. 18-3 (Sanitary Sewer Rehabilitation) to Mr. Rehab, LLC in the amount of \$22,395.37 which also included the additional CIPP lining work on Five Points Road. We are recommending approval of Application for Payment No. 2-Final for Contract No. 18-3 (Sanitary Sewer Rehabilitation) to Mr. Rehab, LLC in the amount of \$74,099.11 for work completed through July 12, 2019.

Contracts WC-1 & WC-2: Woodcrest/Downing Avenue Pump Station Replacement (007608.0452):

McKenney Construction has successfully installed both wet well and valve vault structures. McKenney Construction plans to continue with placing all concrete pads and erect pre-engineered overhead structure. HRG discussed with Aqua the requirements to extend water to the Project site and Staff decided not to proceed with the extension of the water service due to the associated cost from Aqua. Garden Spot met with PECO onsite and discussed the location of the proposed electric pole. The new electric pole location, previously approved by PECO has been required to be moved to a new location by PECO's field staff. Two alternatives were provided as acceptable locations for a new pole at the direction of PECO. One option will be the installation of a new pole approximately 10 linear feet away from existing pole along service drive in the vicinity of adjacent children's clubhouse. GSE provided a cost of approximately \$5,000 to extend duct bank to the new location. Option 1 will take a minimum of 8 extra weeks for the pole to be delivered and the new pump station will have to be run off temporary power for the extended time. Option 2 provided by PECO is to have the new service installed on an existing pole on the corner of Downing Avenue and Manley Avenue. This option would have little to no change in time. The cost provided by GSE to extend the service an estimated 165 linear feet was provided at approximately \$15,000.



We are recommending approval of Application for Payment No. 2 for Contract WC-1 (General Construction) to McKenney Construction in the amount of \$168,492.60 for work completed through August 19, 2019.

Other Projects/Tasks

Pump Station Phase II Improvements (007608.0442):

We are continuing to work on the final design of the Trinity Drive Pump Station and preparation of bidding documents.



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Westtown Way Pump Station

We have reviewed the conceptual design layout of the pump station with the Township Staff and we are currently proceeding with preliminary design. The following is an updated schedule:

Preliminary Design Submission to Superintendent – 09/16/19

Meeting with Superintendent to review comments on Preliminary Design Layout Submission – Week of 09/23/19

PADEP WQM Part II Permit Submission to WGSA– 10/1/19

Finalize and Submit PADEP WQM Part II Permit to PADEP – 10/18/19

Final Design to coincide with review of permits.

Bidding to be performed after all permits are received.

Construction to commence after bids are received.

WWTP Phase II Improvements / TMDL (007608.0442):

The bids for the three (3) construction contracts for the WWTP Phase II Improvement Project were opened on August 21st at 10:00am. Below is a summary of our Opinion of Probable Construction Cost and how it compares to the bids received:

The EOPCC for the Project was as follows:

1. General Construction Contract: \$5,431,700.00
2. Electrical Construction Contract: \$613,610.00
3. Mechanical Construction Contract: \$430,450.00

Including the 10% contingency that we carry on the estimates, the total EOPCC for the Project was: \$7,123,760.00

The apparent low bids received for the Project are as follows:

1. General Construction Contract – Wickersham Construction: \$6,569,827.00 (Difference of Plus \$1,138,127)
2. Electrical Construction Contract – Westcott Electric: \$729,000.00 (Difference of Plus \$115,390)
3. Mechanical Construction Contract – Garden Spot Mechanical: \$520,000 (Difference of \$89,550)

With the contingency, the total difference in the low bids received and the EOPCC with contingency is \$695,067. Overall, we believe the bids were very competitive (with the exception of the Mechanical Contract, where we only received one bid) and therefore accurately represent the costs to complete the Project as bid.

There are two alternatives for how to proceed: 1) The Authority can elect to award the bids to the low bidders or 2) we can make some revisions to the Bid Documents and re-bid the Project in an attempt to obtain lower costs.

Based on the information we have to-date, we are recommending that the Authority reject all bids, authorize HRG to revise the bidding documents, and re-advertise the Project for public bids.



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If the Authority agrees that we should try and revise the bidding documents and re-bid the Contracts; we would propose the following revised schedule:

Milestone	Date
WWTP Upgrade Project - Reject Bids & Authorize Re-advertisement	4-Sep-19
WWTP Upgrade Project - Re -Advertise for Public Bids	15-Sep-19
WWTP Upgrade Project - Open Bids	30-Sep-19
WWTP Upgrade Project - NOIA & Authorize NOA & NTP	2-Oct-19
WWTP Upgrade Project - Substantial Completion	25-Dec-20
WWTP Upgrade Project - Final Completion	23-Feb-21
COMAG Fully Operational	24-Apr-21

Priority A Interceptor Project:

HRG received the updated inspection results from Redzone Robotics and has updated the scope for the Priority A Interceptor Rehabilitation. As presented in the joint Township and Authority Committee Meeting, the scope includes approximately 2,800 LF of CIPP lining and approximately 455 LF of replacement for 24 and 30-inch interceptors. HRG has completed the conceptual design and anticipates the survey of the replacement sections to be completed within 3 weeks. HRG will complete design and have the project ready for public bidding by the week of December 23, 2019 in accordance with the Authority's request.

Miscellaneous

Based on the results of the joint Township and Authority Committee Meeting, HRG prepared a capital improvement plan template and distributed it to the Township Staff for review and comment. With the comments addressed, Mr. Moffa is meeting with HRG on Tuesday afternoon to prioritize the Project list with the goal of presenting a draft to the Authority at the September 4 Meeting.



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Please feel free to contact me if you have any questions regarding this report or other items.

Respectfully submitted,

Herbert, Rowland & Grubic, Inc.

A handwritten signature in blue ink, appearing to read "Joshua T. Fox", is written over a faint, light blue circular stamp or watermark.

Joshua T. Fox, P.E.
Practice Area Leader | Water & Wastewater

JTF/
007608.0426

- c: West Goshen Sewer Authority (w/encl.)
- Casey LaLonde, Township Manager (w/encl.)
- Dave Woodward, Public Works Director (w/encl.)
- Mike Moffa, WWTP Superintendent (w/encl.)
- File (w/encl.)