

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from June 2 through July 6, 2018:

Projects in Construction

Contracts 17-1 and 17-2: WWTP Headworks Improvement Project (007608.0440):

Contract 17-1 has completed the installation of all major equipment, allowing Contract 17-2 to return to the site to complete all remaining power and control wiring of the grit equipment. Remaining work includes start-up of the grit removal system which is scheduled for August 6, 2018; final site work and paving; painting; replacement of the doors; final grating installation; final HVAC work; and replacement of the remaining lower bearing assembly for the screw pumps. Work related to final clean-up (painting, doors, etc.) will be completed following start-up of the grit removal system. The main hoist is also scheduled to be replaced by McDal Corporation in July.



Grit System

As previously discussed, we have requested costs for provision and installation of three (3) C-channel steel beams. One (1) to stiffen a concrete slab that requires partial removal, and two (2) that will be used for finish work on the cut existing masonry wall. It was determined that the two (2) C-channels that would be used for the finish work are not needed and therefore no cost is being provided. The installation of the C-channel to stiffen the concrete slab and the additional demo work for the installation was \$5,073.00. HRG is in the process of reviewing this request.

We recommend that the Authority approve Application for Payment No. 14, as submitted by Walabax Construction Services, Inc., in the amount of \$102,018.60 for work completed through June 15, 2018 for Contract 17-1. We do not recommend withholding any additional retainage for liquidated damages for this payment application.

Contract 17-4: By-Pass Pump Station Connections (007608.0435):

All work has been completed and the final closeout documents have been prepared and submitted for the Authority's approval.

We recommend that the Authority approve the Final Application for Payment (No. 5), as submitted by Blooming Glen Contractors, Inc. in the amount of \$35,394.38 for final payment for all work completed for Contract 17-4.

A copy of the Record Drawings have been prepared and issued to the Mr. Moffa.

2017 Sanitary Sewer System Repairs (007608.0436):

The Contractor is prepared to install the three (3) air release valves and their subcontractor is starting manhole rehabilitation work on July 9th.

We recommend that the Authority approve Application for Payment No. 6, as submitted by DiRocco Brothers, Inc. in the amount of \$205,854.66 for work completed through June 14, 2018 for Contract 17-5.

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

Contract 17-3 has completed the construction of the Primary Digester tank. The interior fillets are being poured starting the week of July 9 and water tightness testing will be completed following curing of the fillets. The existing waste flare was temporarily relocated and placed back into service. Contract 17-3 is preparing the equipment pads for the gas equipment and combination boiler/heat exchanger.



Contract 17-6 continues work on installation of conduit and conductors. They anticipate receiving the new MCC within the next few weeks. They are caught-up to the current progress of Contract 17-3.

Contract 17-7 has completed rough-in installation of the new natural gas piping, in-line recirculation pump systems, and hot and cold water return loops.

Job Conference No. 5 was held on June 13, 2018. A copy of the minutes were posted to EADOCS.

We have requested pricing from the Contractors for the following changes in Work:

1. New drain location directly under the new boiler/heat exchanger to allow draining of the emergency pressure relief valve. (Estimated at \$1,500)
2. Installation of the larger louver required for the boiler/heat exchanger as identified during the submittal review process. (Estimated at \$6,500)

Risk items for changes in cost and/or contract time have been identified and are provided below:

1. The location of the existing SU/6 pipeline was identified by the Contractor to be a changed condition from that as shown on the Contract Drawings and request a Change Order for the work involved in the removal/reinstallation of this line. Actual costs are not known at this time.
2. Installation of additional firestop/fireproofing materials between the Biogas Room and the main operating floor.
3. Installation of leveling pad for new flooring system in the Biogas Room and Operating Room. The existing grout beneath the quarry tile was approximately 3-inches deep. Refer to Change Order No. 2.

We recommend that the Authority approve Application for Payment No. 6, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$179,020.35 for work completed through June 18, 2018 for Contract 17-3 (General Construction).

We also recommend that the Authority approve Application for Payment No. 4, as submitted by Garden Spot Electric, in the amount of \$53,586.00 for work completed through June 18, 2018 for Contract 17-6 (Electrical Construction).

We recommend that the Authority approve Application for Payment No. 3, as submitted by GEM Mechanical Services, Inc., in the amount of \$91,440.00 for work completed through June 18, 2018 for Contract 17-7 (Mechanical Construction).

Finally, we recommend that the Authority approve Change Order No. 2 for Contract 17-3 for an increase in the Contract Price of \$14,385.00 for installation of a leveling course in the Operations and Biogas Rooms as a result of the existing grout leveling pad being 3-inches thick. This is the least expensive technically feasible alternative to address this unforeseen issue.

Contract Nos. 17-8 and 17-9: Enhanced Chemical Addition Project (007608.0432):

Contract 17-8 has completed all major work on the enhanced chemical addition system. Start-up of the pumps, hydrated lime mix system, and instrumentation for pH and ortho-phosphate will be completed upon delivery and installation of the enhanced chemical addition control panel being manufactured by Essex Engineering.

Contract 17-9 continues to install conductors and control wiring for the three (3) pump systems and hydrated lime mix system. The Control Panel and Pump Starter Panels are expected to be delivered the end of July.

We recommend that the Authority approve Application for Payment No. 5, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$186,603.20 for work completed through June 18, 2018 for Contract 17-8 (General Construction).



Hydrated Lime Feed System

We also recommend that the Authority approve Application for Payment No. 3, as submitted by The Williams Group Electrical Contractors, in the amount of \$2,485.75 for work completed through June 15, 2018 for Contract 17-9 (Electrical Construction).

85 percent of total will be submitted to the Department of Community and Economic Development for reimbursement upon confirmation of payment.

Other Projects/Tasks

Pump Station Phase II Improvements (007608.0442):

Preliminary design for the Trinity Drive Pump Station has been completed. Once the preliminary design has been approved by the Township, HRG will begin design of the site improvements and electrical/controls design.

We met with Mr. Moffa on June 27 to review the flow meter data for the Taylor Run Pump Station. Mr. Moffa is going to schedule a meeting with West Whiteland Township to review flow data and discuss any potential growth tributary to that station prior to beginning design of the improvements.

The wet well mixing and screening conceptual design memorandums, including equipment evaluations, have been completed for the Westtown Way Pump Station. We are working on preparing a cost estimate for inclusion of a mechanical fine screen for review and discussion with the Township Staff.

We have received the WQM Part II Permit for the Downing Ave. Pump Station. The infiltration testing was completed; however, the test failed. We are evaluating other stormwater options to review with the Township Staff. Once completed, we will finalize the Project for public bidding.

WWTP Phase II Improvements / TMDL (007608.0442):

We have received the additional data from SoftDig, regarding the depths of the proposed connection points of the COMAG system. Work continues on the preliminary design and has focused on design of the proposed tertiary clarifiers.

We have reviewed the alternatives for replacement of the presses and are moving forward with finalizing the concept for two (2), 2,000 lb. presses to ensure that the proposed equipment can fit within the existing dewatering building.

Please refer to the Solicitor's Report for additional information on the status of the settlement agreement negotiations.

2018 Sanitary Sewer Repair Project:

Mr. Moffa is contacting the property owners to review the Project scope and discuss the need for temporary construction easements for the by-pass pumping. Once all easements have been secured and the general permit obtained, HRG will proceed with finalizing the Project for public bidding.

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

Respectfully submitted,

Herbert, Rowland & Grubic, Inc.



Joshua T. Fox, P.E.
Regional Service Group Manager

JTF/
007608.0426

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