

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from August 7 through September 4, 2018:

Projects in Construction

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

The start-up of the grit system was successfully completed. The Township Staff continues to make some adjustments to the system to maximize its efficiency. We are working to have Veolia return in October to complete the final grit removal performance testing; however, the system continues to run and remove grit.

We had previously received a claim from PSI (Contract 17-2) for delays caused by the General Contractor for additional time and money. The claim was submitted for a change to the Contract Time of 243 days and Contract Price of \$57,129.36. We received this claim on August 4 and submitted the claim response, denying the claim in full, to the Authority's Solicitor for review and comment prior to returning to PSI.

Contract 17-1 has submitted a request for a substantial completion inspection; however, this request was denied in-part as the new ventilation system and combustible gas detection system is not yet fully operational. We expect the work to be completed in the next week and so we have scheduled the substantial completion inspection for September 12 at 10am at the WWTP.

We recommend that the Authority approve Application for Payment No. 16, as submitted by Walabax Construction Services, Inc. in the amount of \$46,203.25 for work completed through August 17, 2018. We are currently withholding \$152,103.85 as retainage.

2017 Sanitary Sewer System Repairs (007608.0436):

All of the cementitious manhole lining has been completed and is in the process of being inspected. Remaining work includes epoxy lining of four (4) manholes and miscellaneous items such as frame and cover installation, outside drop abandonment, and installation of new inside drops. We expect that the Project will be substantially completed and inspected prior to the Authority's October Meeting.

We recommend that the Authority approve Application for Payment No. 7, as submitted by DiRocco Brothers, Inc. in the amount of \$111,649.50 for work completed through August 8, 2018 for Contract 17-5.

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

Contract 17-3 continues work on the new Primary Digester Tank and includes installation of the tank coating and coring of the penetrations for the new piping. Contract 17-3 is expected to install and test the lower piping and begin backfilling around the tank. Once the backfilling is completed, Contract 17-3 can begin the work on the cover.

Contract 17-6 continues to install conduit and lighting in the lower and upper areas of the Building.

No new work has been completed for Contract 17-7.

Job Conference No. 7 was held on August 15, 2018. A copy of the minutes were posted to EADOCS.

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.

We recommend that the Authority approve Application for Payment No. 8, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$392,085.00 for work completed through August 13, 2018 for Contract 17-3 (General Construction).

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

All equipment start-up was successfully completed with the exception of the PAC feed pumps. During start-up, it was found that the pH probe and one tube pump was non-functional and required replacement by the manufacturers. This equipment is in the process of being replaced and the tube pump (PAC feed system) will undergo start-up procedures on September 10. The hydrated lime system is currently running in automatic mode. Final painting of the floor was completed last week.

We anticipate that the substantial completion inspection for both contracts will be completed the week of September 17 and that all final work will be completed prior to the Authority's October Meeting.

We are recommending approval of Work Change Directive No. 1 for Contract 17-9 for an estimated increase to the Contract Price of \$9,945 for conduit and wiring to provide hi/lo lubricant alarms for the five (5) hose pumps as recommended by the pump manufacturer.

Other Projects/Tasks

Pump Station Phase II Improvements (007608.0442):

Preliminary design of the Trinity Drive Pump Station has been submitted to the Township Staff for review and approval. Upon approval, we will proceed with final design including electrical and site work.

The addition of a mechanical bar screen at Westtown Way is no longer being considered at this time, due to the increase in Project cost.

Once the Township confirms the Stormwater Control Plans for the site, the Downing Avenue Pump Station final plans will be reviewed with the Township Staff and will be ready to be advertised for public bids. We anticipate requesting that the Authority approve advertising the Project for bids at the October Authority Meeting.

WWTP Phase II Improvements / TMDL (007608.0442):

Additional SUE Level A work was completed by SoftDig; however, due to the number and depth of a variety of yard piping in one area, the exact depth of critical piping could not be confirmed. We are proceeding with design using assumptions based from the existing record drawings in order to maintain the schedule in the negotiated settlement. Additional SUE work will be necessary to minimize risk during construction. The estimated construction cost to install the yard piping will be significantly impacted by the number of utilities that will need to be crossed to install the piping between the COMAG facility and the UV system.

A meeting with the architect and the Township Staff was held on August 20 to review the dewatering building and finalize the list of priority improvements for the building.

HRG was previously authorized to complete the preliminary design of the Phase II Improvements for an October 30 submission date of the Water Quality Permit Application. We are in the process of completing the Confirmation of Assignment for the Phase II Improvements through final design in order to maintain the schedule provided in the settlement agreement. Our goal is to have this prepared for the Authority's Meeting tomorrow evening.

2018 Sanitary Sewer Repair Project:

We plan to review the final plans with the Township Staff the week of September 4. As a result, we are requesting that the Authority authorize the Township and HRG to advertise 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.)
- Mike Moffa, WWTP Superintendent (w/encl.)
- Edward A. Ellinger, P.E., HRG (w/encl.)
- File (w/encl.)