

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from March 3 through March 30, 2018:

Projects in Construction

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

Contract 17-1 has completed the excavation for and installation of the base slab for the Grit Building Addition. The Contractor is expected to complete the forming and pouring of the lower wall section on April 2. They are scheduled to proceed with the concrete and block work for the Grit Building Addition as well as installation and start-up of the utility water system.

Job Conference No. 10 was held on March 29 to review the progress of work and to review conflicts/clarifications for upcoming work. Although the Contractor is behind schedule, they have held their schedule well since being updated in December 2017.

They have currently submitted two (2) claims for additional cost and time related to changes in the by-pass pump set-up to improve operations over the winter, place grating over the gate openings, and a delay claim associated with the duct bank and DH panel work (Contract 17-2). We are in the process of reviewing this information and will have a decision on additional costs for the May Meeting.



Additionally, 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.

We recommend that the Authority approve Application for Payment No. 11, as submitted by Walabax Construction Services, Inc., in the amount of \$166,300.80 for work completed through March 16, 2018 for Contract 17-1.

We also recommend that the Authority approve Application for Payment No. 4, as submitted by PSI Pumping solutions, Inc., in the amount of \$27,720.00 for work completed through March 19, 2018 for Contract 17-2.

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

On March 14, 2018, the Engineer, in the presence of representatives of the Owner and the Contractor made an inspection of the project site and determined that the work was substantially complete as of March 12, 2018 (date of request for Substantial Completion). From the observation during the inspection, a preliminary list of items to be completed or corrected (punch list) and estimated costs for those items were developed and provided to the Contractor. We expect that all punch list work will be completed prior to the May Authority Meeting, wherein the Contractor will request final payment.

2017 Sanitary Sewer System Repairs (007608.0436):

The Contractor is currently working to complete the by-pass set-up and testing for the work on Old Westtown Road. Work is expected to begin on April 2, 2018.

As previously discussed with WGT, HRG issued RFP No. 1, requesting costs to install a new air release manhole on the Westtown Way Pump Station forcemain due to the condition of the forcemain that was uncovered in the existing air release valve manhole. The RFP includes coating the forcemain in the air release valve manhole and abandoning it to reduce any further deterioration. We are recommending approval of Change Order No. 2 for an increase to the Contract Price in the amount of \$15,200.00 for completion of the additional work.



Old Westtown Road By-pass Set-up

We also recommend that the Authority approve Application for Payment No. 3, as submitted by DiRocco Brothers, Inc., in the amount of \$80,009.10 for work completed through March 6, 2018 for Contract 17-5.

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

Contract 17-3 has started the driveway entrance improvements, began trenching and installation of the new gas service (approx. 50% completed), completed selective demolition of the piping and quarry tile floor in the Operations Building. They have also demolished the Secondary Digester Roof and have started demolition of the Secondary Digester Tank. Work over the next month will include completion of demolition of the existing Secondary Digester, excavation and base slab preparation for the new Primary Digester, and work on the new doors, windows, and masonry for the biogas conditioning room.



Secondary Anaerobic Digester Demo

A field coordination meeting was held on March 7 to review architectural finishes, window and door schedule, as well as selective demolition. Job Conference No. 2 was held on March 28 at the WWTP and meeting minutes will be posted to EADOCS.

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

1. Revisions to the existing door (requests costs for modifications to existing and pricing for a new door) of the new electrical room to swing out. This is necessary as the proposed control panel is larger than what was initially proposed and the existing door would swing into it.
2. Asbestos abatement for approximately 20 L.F. of heating pipe insulation and 55 square feet of laboratory countertops.

3. New drain location directly under the new boiler/heat exchanger to allow draining of the emergency pressure relief valve.
4. Credit for replacing proposed glass lined ductile iron pipe to epoxy lined ductile iron pipe

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.

We recommend that the Authority approve Application for Payment No. 3, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$107,554.50 for work completed through March 16, 2018 for Contract 17-3 (General Construction).

We also recommend that the Authority approve Application for Payment No. 1, as submitted by Garden Spot Electric, in the amount of \$11,250.00 for work completed through March 30, 2018 for Contract 17-6 (Electrical Construction).

Finally, we recommend that the Authority approve Application for Payment No. 1, as submitted by GEM Mechanical Services, Inc., in the amount of \$5,400.00 for work completed through March 21, 2018 for Contract 17-7 (Mechanical Construction).

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

All major submittals have been approved for both Contracts. Work is to begin in early April.

We have submitted a request for pricing to provide variable frequency drives (VFDs) to provide more refined dosing of hydrated lime at the various injection locations. The estimated cost for VFDs is \$3,700. Once finalized, we will prepare a change order for the Authority's action.

We recommend that the Authority approve Application for Payment No. 2, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$26,389.80 for work completed through March 22, 2018 for Contract 17-8 (General 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):

A site visit was held on March 27 with our hydraulic, structural, and electrical lead engineers to review the scope of work with Township Staff, obtain measurements, and obtain updated site photos for use in the design. Preliminary Design Drawings for Downing Ave. Pump Station have been reviewed with Township Staff. Additional survey for replacement of the forcemains for Downing Avenue and Trinity Drive is scheduled to be completed within the next two weeks.

We anticipate having the WQM Part II Permit Application completed and ready for submission by April 12, 2018.

WWTP Phase II Improvements / TMDL (007608.0442):

Work continues on the design layout of the building, equipment, and hydraulic profile. The next progress meeting is tentatively scheduled for May 2.

Sewer Rate Study:

A full verbal update will be provided at the Authority's Meeting by HRG's Financial Services Group.

2018 Sanitary Sewer Repair Project:

Wetland delineation and manhole inspections were completed the week of February 26. Weather pending, survey is expected to begin the week of March 5 for areas where sewer is proposed to be replaced.

2017 Bond – Consulting Engineer's Report:

The 2017 Consulting Engineer's Report was completed and submitted to the trustee by the March 31 deadline. A copy of the report was provided to the Authority for review and use.

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.)