

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from June 27, through August 2, 2020:

Projects in Construction

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

The remaining change order work has been started but not yet completed. In addition, two items, thought to have been corrected, remain to be completed. Another site visit is being scheduled for within the next two weeks.

Contracts WWTP-19-1; WWTP-19-2; and WWTP 19-3: WWTP Phase II Improvements / TMDL Compliance (007608.0447):

The General Contractor completed the concrete foundations for the reaction tanks and clarifiers. Significant groundwater was encountered and the subgrade material was not satisfactory. A change order has been received for additional work required to provide a satisfactory subgrade for the foundations. The General Contractor has begun installation of the subsurface infiltration basin and associated piping and Dutchland is scheduled to begin installation of the panels on August 11.



We are recommending that the Authority approve the following:

- Application for Payment No. 5 for Contract 19-1 (WWTP Phase 2 General Contract) to Blooming Glen Contractors, Inc. in the amount of \$349,418.39 for work completed through July 25.
- Application for Payment No. 5 for Contract 19-2 (WWTP Phase 2 Electrical Contract) to Brendan Stanton, Inc. in the amount of \$33,132.19 for work completed through July 20.

We are also recommending Change Order No. 1 for Contract 19-1 for an increase to the Contract Price in the amount of \$62,385.78 and a time extension of 42 days to include over excavation, installation of geotextile fabric, and replacement of fill material to improve the subgrade for the precast post-tensioned clarifiers and COMAG reaction tanks; installation of required inlet pipe support in the clarifiers (not provided by EVOQUA as part of the procurement contract); and the COVID related Government shutdown of construction projects. Use of the existing slag rock demoed from the trickling filters saved the Authority approximately \$20,000.

Contracts IP-1 and IP-2: Priority A Interceptor Project (007608.0456):

HRG continues to work through submittals with each of the Contractors. A virtual Public Coordination Meeting was held on July 15, 2020 through Zoom with Authority staff and interested residents.

The Contractor for IP-1 (DOLI Construction Corporation) has moved their projected start date to the end of September. The Contractor for IP-2 (North American Pipeline Services) will be completing the CIPP lining and manhole rehabilitation work after DOLI has completed the dig-up portion of the Project. The Contractor did note that manhole rehabilitation work may need to be postponed to spring due to temperatures.

We are recommending approval of Application for Payment No. 1 for Contract IP-2 (2019 Phase 1 Interceptor Repairs Project) to North American Pipeline Services, LLC in the amount of \$2,250.00 for work completed to-date.

Contracts TD-1 and TD-2: Trinity Drive Pump Station Improvements Project (007608.0459)

HRG held a virtual pre-construction conference between all parties on July 21, 2020. HRG is currently working through submittals for both contracts as well as the Owner supplied equipment. We are waiting on information from the materials suppliers as to when the procured equipment will be delivered.

Other Projects/Tasks

Pump Station Phase II Improvements (007608.0441):

Westtown Way Pump Station Upgrade

The WQM Part II Permit application was finalized and submitted on July 10, 2020. Work on the overall preliminary design continues as well as coordination work with PECO.

Taylor Run Pump Station Improvements

HRG continues to work on design of the Taylor Run Pump Station Improvements and coordinate the emergency repairs with the Township's Electrician. The hydraulic calculations for the surge investigation and the operation of the three parallel series of pumps were initiated. The drawings for the proposed grinder are awaiting finalized electrical design based upon coordination with PECO. Drawings are being updated to include the additional items discussed during last month's site visit now.

Fern Hill Pump Station Sewage Grinder Replacement Project

HRG design is currently being coordinated with the approved Phase III Improvements.

Pump Station Phase III Improvements:

HRG has initiated the designs of the pump station site improvements and initiated applications for the two pump stations requiring WQM Part II permits (Washington Street PS and Montgomery Ave PS). HRG plans to continue design efforts for the plans and documents for these pump stations with a focus on the Fern Hill Pump Station.

Cemetery Sewer Rehabilitation and ARV Replacement:

HRG continues to work on the GIS exhibits and Contract Documents. We were able to attain access to the remaining structures and completed a site visit on July 29, 2020. Additionally, updated mapping was received from PECO during the week of July 1, 2020 and HRG is coordinating with PECO to confirm the location of the gas main on Prospect Avenue prior to finalizing the Draft Documents. We expect to get the required information by August 4, 2020 and a meeting the Township Staff will be coordinated shortly after the information is obtained. HRG anticipates have the documents ready for public bidding prior to the Authority's September meeting.

We respectfully request the Authority to approve HRG to advertise the Cemetery Sewer Rehabilitation and ARV Replacement Project upon approval by the Township Staff.

Aeration System Improvement Project (007608.0453):

The draft bidding documents were submitted to the Township Staff for review. Once comments are received and addressed, we will coordinate with the Township Staff for advertising the project for public bids. We are targeting an August bid date for this Project.

Pottstown Pike LPS Evaluation

HRG completed a hydraulic evaluation of the combination low pressure sewer with the existing grinder pumps and pump station, proposed grinder pumps, and School District Pump Station. After review of the information available, information gathered, and completion of the hydraulic analysis it is our opinion (based on this information) that the diameter of the low pressure sewer main does not need to be increased; however, the WCSD's new pumps will be operating at a high velocity (~4.5 ft/s) just within normal operating ranges. Correspondence will be sent to the WCSD's Engineers informing them of that information. A full memorandum of our findings will be provided to the Authority as soon as possible.

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.
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.)