

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from December 30, 2018 through February 1, 2019:

Projects in Construction

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

We are recommending approval of Application for Payment No. 5 (FINAL) for Contract 17-2 (Headworks Electrical Contract) to PSI Pumping Solutions, Inc. in the amount of \$31,124.25.

Final closeout documents for Contracts 17-1 and 17-2 will be provided to the Authority at the February Authority Meeting.

2017 Sanitary Sewer System Repairs (007608.0436):

The remaining epoxy liners have been installed, but all of the epoxy liners still require holiday testing before final acceptance. There are also two (2) additional cleanup items that will need to be completed before the Contract can be closed out. HRG is also still awaiting a response to the notice of non-conformance to the Contract.

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

Contract 17-3 continues work on biogas and sludge piping. The Primary Digester Cover and mixers have been installed and tested. The start-up of the new Primary Digester continues to be delayed due to work not being completed per schedule. The current delay is due to process piping not being delivered and installed. Correspondence has been issued to the Contractor requiring a Corrective Action Plan for meeting the current Substantial Completion date despite the continuous delays.

Once all of the piping has been fully installed the Township Staff will begin sludge transfer from the existing Primary Digester and will start wasting sludge to the new Primary Digester. This is now expected to begin the week of February 18th if all testing is satisfactorily completed.

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

Contract 17-7 has installed water piping and new sample sinks. They will begin installing building ventilation duct work. They are currently maintaining schedule with EEC.

Job Conference No. 12 was held on January 16, 2019. A copy of the minutes were posted to EADOCS.

We had received two change order requests from EEC last month. The first included the relocation of the existing SU/6 pipeline and the Waste Gas Burner drain. The requested change was for a total fee of \$22,185.22 which will be applied to the Underground Utility Allowance. The second change order request was for a time extension to move substantial completion to July 1, 2019. HRG recommends approval of this time extension, and will be providing change orders for each Contract to the Authority at the February meeting.

We are also recommending approval of the following applications for payment:

- Application for Payment No. 13 for Contract 17-3 (Anaerobic Digester Replacement General Contract) to Eastern Environmental Contractors, Inc. in the amount of \$16,721.99
- Application for Payment No. 9 for Contract 17-6 (Anaerobic Digester Replacement Electrical Contract) to Garden Spot Electric in the amount of \$73,818.27
- Application for Payment No. 6 for Contract 17-7 (Anaerobic Digester Replacement Mechanical Contract) to GEM Mechanical Services in the amount of \$12,103.59

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

Final closeout documents for Contracts 17-8 and 17-9 will be provided to the Authority at the February Authority Meeting.

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

HRG has received and reviewed all of the submittals that were provided by MOR Construction, Inc. MOR has completed their pre-construction photography and anticipates starting work by the week of February 11, 2019.

The CIPP lining work has been completed, and the post-lining CCTV was received by HRG on January 31, 2019. Mr. Rehab, LLC will complete the manhole rehabilitation in March 2019. HRG submitted a request for pricing to Mr. Rehab for the rehabilitation work on S. Five Points Road. Mr. Rehab conducted a site visit, but is awaiting the results of CCTV inspection work to give a quote that is commensurate with the associated risk based on the condition of the existing pipe. Mr. Rehab tentatively scheduled the additional work to be completed during the week of March 25, 2019 pending the results of the CCTV inspection and approved Change Order.

Other Projects/Tasks

Pump Station Phase II Improvements (007608.0442):

The preconstruction conference for the Woodcrest/Downing Avenue Pump Station Replacement Project is being held on February 13 at 10:00am at the WWTP.

The Township Staff has decided to proceed with Flygt dry-pit submersible pumps as the basis of design for the Westtown Way and Taylor Run Pump Stations. We are working on the final pump selection and continuing work on the design for Westtown Way.

We are awaiting information from the temporary flow meters and pressure gauges in order to obtain actual pumping conditions (flow and head) at the Washington Street and Fern Hill Pump Stations. Once obtained, we will be able to finalize our model and identify if there are any significant downstream impacts to upgrading the capacity of the Taylor Run Pump Station.

WWTP Phase II Improvements / TMDL (007608.0442):

The Water Quality Part II Permit Application was submitted to PA DEP by the required October 30, 2018 deadline.

Bids were opened for Contract No. PR-18-1 for the Ballasted Flocculation and Clarification System Procurement. The apparent low bidder was Evoqua Water Technologies, LLC with a cost of \$1,703,200.

Following the Solicitor's review of the bid documents, the agreements and bonds have been sent to Evoqua Water Technologies for execution. We recommend that the Authority authorize issuance of the notice to award and notice to proceed upon receipt of the Water Quality Management Part II Permit from PADEP.

A conference call has held on January 30 between the Township's IT Consultant, Township Staff, OCC, and Keystone Engineering to review the technical support requirements for the SCADA system. The consultant will be able to support the system. The process now moves into the hardware and software selection phase.

Final design continues for both the Dewatering System Improvements and the COMAG System. A meeting is scheduled for February 6 to review progress drawings with the Township Staff.

Emergency Repair Work/Meeting Follow-up

Please refer to the attached Memorandum re: Collection System Investigation – Pricing and Recommendation for recommendations and pricing related to additional CCTV inspection, multi-sensor interceptor inspection, and force main inspections.

Additionally, HRG is working with Evoqua to review various alternatives for corrosion prevention through chemical addition at the pump stations. We are currently evaluating wet well and force main detention times and potential hydrogen sulfide generation to develop a plan to price and present to the Authority.

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.)
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