

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from February 2 through March 1, 2019:

Projects in Construction

Contract 17-5: 2017 Sanitary Sewer System Repairs (007608.0436):

Manhole 1205 still requires holiday testing before final acceptance. Two (2) punch list items also remain incomplete. The lateral repair punch list item has been delayed due to weather and a high water table during February. The other remaining punch list item is for the removal of the bypass crossing in Lincoln Avenue. If the Authority would like to keep the crossing in place, this punch list item and work can be removed.

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

Contract 17-3 has completed the start-up of the new Primary Digester and all initial performance testing has been completed. Contractor has begun removing sludge from Secondary Digester to begin demolition. Over the next month Contractor will begin demolition of the cover and Secondary Digester and will begin fabrication of the new Secondary Digester floating cover. They are back on schedule and show substantial completion on July 1, 2019.

Contract 17-6 will continue to provide demolition support and maintain schedule with EEC.

Contract 17-7 has installed new HVAC equipment, exhaust and supply ductwork. Contractor will continue ductwork and louver installation. They are currently maintaining schedule with EEC.

Job Conference No. 13 was held on February 27, 2019. A copy of the minutes will be posted to EADOCS.

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

- Application for Payment No. 14 for Contract 17-3 (Anaerobic Digester Replacement General Contract) to Eastern Environmental Contractors, Inc. in the amount of \$54,218.61 for work completed through February 15, 2019
- Application for Payment No. 10 for Contract 17-6 (Anaerobic Digester Replacement Electrical Contract) to Garden Spot Electric in the amount of \$11,922.50 for work completed through February 19, 2019
- Application for Payment No. 7 for Contract 17-7 (Anaerobic Digester Replacement Mechanical Contract) to GEM Mechanical Services in the amount of \$43,918.59 for work completed through February 22, 2019

Contracts 18-2 and 18-3: 2018 Sanitary Sewer Repair Project (007608.0450):

HRG has received and reviewed all of the submittals that were provided by MOR Construction, Inc. MOR has completed installing E&S controls and are fully mobilized. MOR is expected to start construction the first week of March as they have been previously delayed due to weather.

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 April 2019 following MOR's progress. 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. HRG has issued a work change directive for the additional emergency work to be completed. HRG is waiting on fully executed document to be returned from Mr. Rehab. Mr. Rehab tentatively scheduled the additional work to be completed during the week of March 25, 2019 pending the results of the CCTV inspection. They are required to coordinate traffic control and by-pass pumping activities with DiRocco Brothers, Inc.

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

- Application for Payment No. 1 for Contract 18-2 (Sanitary Sewer Replacement) to MOR Construction Services in the amount of \$8,055.00 for work completed though February 10, 2019
- Application for Payment No. 1 for Contract 18-3 (Sanitary Sewer Replacement) to Mr. Rehab, LLC. in the amount of \$36,878.58 for work completed though January 17, 2019

Contracts WC-1 & WC-2: Woodcrest/Downing Avenue Pump Station Replacement (007608.0452):

The preconstruction conference for the Woodcrest/Downing Avenue Pump Station Replacement Project was held on February 13 at 10:00am at the WWTP. HRG is currently reviewing submittals from the Contractors and from the suppliers of the Authority procured equipment. HRG is also coordinating the delivery of the equipment with each Contractor. McKenney Construction has indicated that they expect to start construction at the beginning of July 2019 once all equipment has arrived.

Other Projects/Tasks

Pump Station Phase II Improvements (007608.0442):

Work continues on the pump selection and structural coordination for the Westtown Way Pump Station.

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):

Final design continues for both the Dewatering System Improvements and the COMAG System. Several progress meetings were held with the Township Staff to review design elements and solicit feedback including chemical addition layout, electrical equipment layout, and wasting procedures for the chemical waste sludge. Recent revisions include adding a small wasting pump station to be able to direct waste directly to the Primary Clarifier Distribution Box and addition of a Trystar Docking Station to the Intermediate Pump Station to power MCC 2 during relocation of the main power feeds for construction of the COMAG Building.

The first Semi-Annual update to EPA was completed and submitted on March 1, 2019. In accordance with the settlement agreement, PA DEP was required to provide the Water Quality Management Part II Permit by March 1, 2019. At this time, every day that the Permit is not received, provides the Authority with an additional day to prepare the bidding documents.

Miscellaneous

HRG met with Township Staff on February 26 to develop a plan for CCTV inspection and follow-up evaluations in order for the Joint Township-Authority Planning Committee to be able to project out capital projects after the Bond funds are exhausted. The proposal includes the following major elements:

1. Utilize the comprehensive sewer matrix developed in 2015 as part of the initial Capital Improvement Program to develop highest risk sewer mains (under 20-inch diameter) and begin targeted those mains for inspection in priority order
2. Utilize the sewer matrix as a tool for tracking and plotting assets (utilizing GIS mapping for plotting purposes) that have been inspected and the results of the inspections (i.e. No Defects Noted; No Defects Noted – Maintenance Needed; Minor Defects Noted – Low Priority; Minor Defects Noted – High Priority; Significant Defects Noted). Staff indicates that there is approximately 300,000 linear feet of sewer main that has been inspected that can be reviewed, tagged, and catalogued
3. Utilize information to meet with committee and develop annual budget for rehabilitation/repair and funding mechanism

A full verbal presentation will be made regarding this approach.

HRG is still 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. 2018 pump station flow information was recently provided and will be used for the evaluation.

The Quarterly Intermunicipal Meeting was held on February 26 to review the status of the capital projects and the proposed Interceptor MSI Inspection; reimbursement procedures; and other recent activities. There was full consensus on the Interceptor MSI Inspection and was noted that any required repairs or rehabilitation be planned out and discussed for budgeting purposes.

HRG is currently working on completion of the 2018 Annual Consulting Engineer's Report that is due to the Bond Trustee by March 31. A copy of the Report will be provided to the Authority and Board of Supervisors once completed.

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.)
- File (w/encl.)