

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from April 27 through May 31, 2019:

Projects in Construction

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

The Final Contract Closeout Documents were prepared and provided to the Authority for Closeout of the Contract.

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

Contract 17-3 has completed a majority of the fabrication of the new Secondary Digester. The new Secondary Digester is now being prepared for leak testing. Contractor is also continuing work on piping for the Secondary Digester preparing for start-up July 1, 2019. All work is currently on schedule for a July 1, 2019 start-up.



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

Contract 17-7 has submitted another claim for rejected change order requests, received May 1, 2019. The claim was reviewed by HRG and the response was coordinated with the Solicitor. The Contractor completed work on the HVAC system in the new Electrical Room. A second substantial completion inspection was conducted on May 15, 2019. HRG issued Closeout Documents which included the Substantial Completion Certificate and Punch List to the Contractor on May 20, 2019 asking for the documents to be completed and returned by May 28, 2019. The Contractor has not returned the Closeout Documents for Execution. HRG prepared a Final Adjusting Change Order to incorporate the cost from

Work Change Directive #1. HRG recommends approval of the Final Adjusting Change Order in the amount of \$4,116.79.

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

- Application for Payment No. 17 for Contract 17-3 (Anaerobic Digester Replacement General Contract) to Eastern Environmental Contractors, Inc. in the amount of \$229,931.37 for work completed through May 15, 2019.

We are recommending approval for payment on the following application for payment; however, we recommend that payment be held until the Close Out documentation is completed and returned by the Contractor:

- Application for Payment No. 8 for Contract 17-7 (Anaerobic Digester Replacement Mechanical Contract) to GEM Mechanical Services, Inc. in the amount of \$17,683.60 for work completed through May 17, 2019.

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

MOR has completed installation of the new 10-inch sanitary sewer line between manhole 1572 and 1575, the stream restoration, and all work around the stormwater basin area.

MOR filed a request for a change proposal requesting additional time due to weather and utility conflicts. MOR has decided not to move forward with the request due to them not foreseeing having a problem meeting Substantial Completion. HRG has been on-site full time to observe work due to past claims by Contractor and the need to track all work in full, pending final claims by the Contractor.

Mr. Rehab, LLC has completed all cementitious lining and additional epoxy manhole lining with the exception of the manholes at the Knollwood Drive Site. Mr. Rehab could not complete the epoxy lining of the channel in manhole 848-A2 due to a poor connection installed by Dirocco Bros causing an excessive leak. This work is being reviewed with the Township Staff. Mr. Rehab plans to complete cementitious lining of all manholes remaining when MOR has completed installation of all sanitary sewer main.

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

- Application for Payment No. 4 for Contract 18-2 (Sanitary Sewer Replacement) to MOR Construction Services in the amount of \$74,256.06 for work completed through May 16, 2019.





**ENGINEER'S REPORT
WEST GOSHEN SEWER AUTHORITY**

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

HRG is currently reviewing submittals from the Contractors and from the suppliers of the Authority procured equipment. McKenney Construction has indicated that they expect to start construction at the middle of June 2019 once all equipment has been delivered. Garden Spot is currently coordinating the schedule for completion of all work with McKenney Construction.

Other Projects/Tasks

Pump Station Phase II Improvements (007608.0442):

The Trinity Drive Pump Station Water Quality Management Part II Permit Application was submitted to PA DEP. Based on correspondence with PA DEP, we expect to have the Permit in early August 2019.

The GP-3 Permit for Streambank Restoration was received for the Westtown Way Pump Station. Submission of payment to the Chester County Conservation District for Permit coordination is included in this month's requisitions for payment. Structural coordination and alternatives evaluation for pump removal has begun and will continue through June.

We have received 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. This information is currently being used to finalize our model and identify if there are any significant downstream impacts to upgrading the capacity of the Taylor Run Pump Station. We anticipate having the hydraulic modeling completed in early July 2019.

WWTP Phase II Improvements / TMDL (007608.0442):

The Building Permit for the new COMAG Building was submitted to the Township on May 2. The Land Development Plan was also submitted to the Township and Planning Commission in May. We are awaiting any required revisions to finalize the Building and site layout respectively. The Building Permit Application for the Dewatering Building Improvements is scheduled to be submitted by June 28. No Building Permits will be issued until a Contractor has been selected.

Final design continues for the Dewatering System Improvements, the COMAG System, and the SCADA 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 operation maintenance procedures for the new dewatering equipment. Work continues on final coordination and design for the mechanical, electrical, plumbing, structural, and architectural work. We are still tracking that the construction cost estimate is over the initial estimate. We will have a final opinion of construction cost for the Project for the Authority's July Meeting.

We are still on schedule to have the Project advertised for public bids before the revised July 12 deadline in accordance with the Interim Settlement Agreement.

Miscellaneous

HRG reviewed and categorized over 109,000 L.F. of sewer main and provided updates to the sewer system matrix. HRG developed GIS exhibits which display the categorization of the reviewed mains and reviewed this with the Joint Committee on May 9.

The RedZone Report and data for the Interceptor MSI Inspections was received and is in the process of being reviewed by HRG. Data has not been received for several interceptor sections and we are coordinating with RedZone to obtain this missing data. We expect to be able to provide priorities, recommendations, and cost estimates by June 14 assuming all of the data is received by the week of June 3. Once confirmed, we will work with the Joint Committee to schedule another planning meeting.

Work on the aeration basin improvement final scope, funded by the CFA Small Water & Sewer Grant was delayed due to work on other priorities. We will have a confirmation of assignment for the Authority for action at the July Meeting.

As a follow-up to the Consulting Engineer's Report, HRG was asked to look into costs to address safety concerns identified during completion of the annual site inspections. Improvements, including the noted safety improvements, were completed as part of the 2015 Capital Improvement Plan. Additionally, many of the improvements are either being completed as part of the Pump Station Improvements, or individually by Township Staff. As a result, we have worked with the Township Staff to develop a list of priorities that will be discussed with the Authority at the meeting.

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.)