



Herbert, Rowland & Grubic, Inc.  
Engineering & Related Services  
AN EMPLOYEE-OWNED COMPANY

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## ENGINEER'S REPORT

Pottstown Borough Authority

March 10, 2022

The following summarizes our recent activities performed on behalf of the Pottstown Borough Authority (Authority) from January 14, 2022 through March 10, 2022:

### Capital Projects

#### Water Treatment Plant Improvements – Air Scour System (R007010.0433)

Equipment has been received and Pottstown Borough Staff is working on the Project. HRG is currently assisted with some design adaptations to aid in installation. Once ready, HRG and Roberts Filter will provide start-up services to place each filter back into service.

#### LT2 Enhanced Surface Water Rule: UV Installation Project

Contracts were awarded to Blooming Glenn (\$108,460) for General Construction (Contract WTP-21-1) and A.N. Lynch (\$108,000) for Electrical Construction (Contract WTP-21-2). The preconstruction meeting occurred on January 27<sup>th</sup> at 11:30 am.

Since the preconstruction meeting, revised control panel locations have been reviewed during a site visit and with Pottstown Staff. The final panel locations are still to be finalized.

Coordination with the contractors following the preconstruction meeting included owner procured equipment delivery dates, but the equipment delivery date for the steel pipe from SWF is still pending.

A Change Proposal from Evoqua for the UV equipment has been submitted for a total of \$10,530.00 for the replacement of a different UVT cleaning unit than originally provided. The manufacturer recommended this unit that includes a small diaphragm pump to ensure that the UV analyzer will function properly when a low head operation (where gravity flow is not feasible) occurs. We have reviewed this quote in detail with Evoqua staff to ensure the price is appropriate for the proposed UVT cleaning unit and HRG recommends approval and execution of Change Order No. 02232022 to increase the cost of the UV Equipment by \$10,530.00 in order to change the cleaning unit for the UV System.

PADEP sent the revisions to the COA in February 2022 extending the deadline of the LT2 CO&A scheduled until November 2022. The revisions included a date of November 3, 2022 for construction completion and December 7, 2022 for the amended operation permit to incorporate the UV treatment for Cryptosporidium.

#### 2021 Water and Sewer Main Replacement Project

The Contractor (Joao & Bradley Construction Co.) has one remaining punchlist item remaining (inflow dish installation) that has to be completed prior to Final Project Closeout being issued. HRG reviewed and is recommending approval and execution of Change Order No. 2 for this Contract in the amount of \$52,027.57 for additional cost associated with the installation of MH SP004, usage of unforeseen 10-inch pipe and fittings, an additional (unused) fire hydrant, and for the final adjustment of quantities installed.

## Miscellaneous Projects

### 2023 to 2033 Capital Improvements Plan (Water and Sewer)

*There are no further updates since the January 2022 Engineer's Report. HRG has completed and submitted a draft 10-Year Capital Improvements Plan (2023 to 2033) for the Authority's water and sewer system. HRG will make improvements to the plan based on the comments discussed in the Capital Improvements Meeting held on January 11, 2022.*

### WTP NPDES Permit Renewal Application

HRG continues work on the NPDES Permit Renewal Application (Permit No. PA0052647) for the Pottstown Water Treatment Plant (due on June 6, 2022). HRG continues to coordinate with Plant Staff to obtain the information needed for the application as well as testing for the priority pollutants required.

### Water Valve Exercising Program

HRG previously performed a detailed review of the Pilot Data Submission provided by Wachs for Year 1 Valve Assessment (2021) work. In consultation with Public Works, HRG has liaised with Wachs to address various project-specific items as well as general approaches to increase the efficiency and effectiveness of professional services provided under Contract No. VP-1. On behalf of Public Works, HRG presented a request for action by Wachs to make final modifications to Invoice No. 1 (submitted on January 6, 2022), which will allow for final processing of this payment. Wachs provided preliminary deliverables for Year 2 Valve Assessment (2022) work (completed between January 5 and January 27, 2022) on February 15, 2022. HRG provided Public Works with the February 15, 2022 preliminary deliverable submission for Year 2 Valve Assessment (2022) work, with any subsequent data review, evaluation, or action contingent upon the Authority's direction. The February 15, 2022 preliminary deliverable submission for Year 2 Valve Assessment (2022) work indicates that a total of 345 valves have been targeted for assessment as of January 27, 2022. Wachs reported to HRG on March 2, 2022 that the field crew is on track to complete the remaining Year 2 Valve Assessment (2022) work beginning March 7, 2022. Per the Authority's direction, HRG will continue to ensure that all work under Contract No. VP-1 is conducted in conformance with the Scope of Work and intent of the executed Agreement. Upon conclusion of the remaining Year 2 Valve Assessment (2022) work (set to continue on March 7, 2022), HRG will coordinate with Wachs to ensure that future year efforts are completed only during the warmer months (April to October) to minimize cold-weather related field issues.

### UPT Act 537 Sewage Facilities Plan Update for Acquisition of UPT Sewage Facilities by PAWC

*There are no further updates since the January 2022 Engineer's Report. HRG and the Solicitor previously reviewed Upper Pottsgrove Township's Act 537 Sewage Facilities Plan Update for Acquisition of Upper Pottsgrove Township Sewage Facilities by Pennsylvania American Water Company (dated July 2021) as well as the related Settlement Agreement and Release and the Assignment and Assumption with Support Agreement documents. Comments were provided on behalf of the Authority to the UPT Engineer (on December 21, 2021 and January 7, 2022) relative to review of all associated information.*

### Industrial Highway Meter Review

Lower Pottsgrove has inquired about the ability to remove the Industrial Highway meter (LPT4) and bill Lower Pottsgrove based on the water usage from each of facilities (Hotel and KinderCare) that contribute flow to the meter. The LPT4 meter has not been operational since January 4, 2022, and historical flow correlations are currently being used for billing. HRG performed a review of the historical water billing records at both facilities as well as the wastewater meter flow records for the Industrial Highway Meter over the past five years that the meter was operational. The historical quarterly water records have been lower than the wastewater flows during every year of the analysis. From 2016 until 2018, the average monthly water usage was 262,222 gallons, and the average monthly wastewater flow was 320,312 gallons. From 2020 to 2021, the average monthly water usage was 92,623 gallons, and the average monthly wastewater flow was 178,211 gallons. While the flows are currently relatively low, the historical data suggest the usage may be lower due to the Covid-19 Pandemic and that the wastewater flows may increase to Pre-2020 levels.

Since at least 2017, there have been no flow calibration reports included in Lower Pottsgrove Township's Chapter 94 Reports or provided to BCM or HRG. HRG also performed a site visit to verify the meter pit location and connections to the meters and observed no blockages in the meter pit.

## Funding Opportunities

### Lead Line Replacement Initiative

The Authority is seeking PENNVEST approval for a proposed 180-day extension to the settlement date stipulated in PENNVEST's October 21, 2021 funding offer. If approved, this extension would result in a revised settlement date of January 19, 2023, as opposed to July 23, 2022. The proposed extension period would allow the Authority more time to investigate (and hopefully secure) potential alternate funding sources for the debt-service (loan) portion of the project, as well as for the surface restoration work, etc. An initial request was issued to PENNVEST and PENNVEST requested an updated letter with an updated construction schedule. HRG is coordinating with PENNVEST to identify a proposed construction schedule that will be acceptable in order to allow for the extension and will prepare a letter to reflect that schedule once it is identified.

## Land Development

### Hanover Square Commercial Development

*There are no further updates since the January 2022 Engineer's Report.* Approval of the Contractor's formal bond release request (dated July 27, 2021) is contingent upon acceptance of the required sanitary manhole correction work by Public Works (tentatively scheduled by the Contractor for Spring 2022).

### Lower Pottsgrove Township Municipal Complex Development

To-date, HRG has conducted three (3) water/sewer capacity reviews (final letter issuance date of January 11, 2021), two (2) land development reviews for the proposed water system (final letter issuance date of December 2, 2021) and has performed a financial security review for the water system improvements to recommend an amount for financial security for facilities to be dedicated to the Authority (letter issuance date of February 3, 2022). There are no further action items required for this land development project.

### 243 Shoemaker Road (Specialty Chemical Systems, Inc.) Development

*There are no further updates since the January 2022 Engineer's Report.* It is our understanding that this land development project is still on-hold.

### 759 Sheridan Street (Sheridan Street Subdivision) Development

The Design Engineer provided HRG with the PADEP Sewage Facilities Planning Module Exemption Letter, dated September 30, 2021. A Will Serve Letter was previously prepared for the project. There are no further action items required for this land development project.

### 14 Robinson Street (Permabond, LLC) Development

To-date, HRG has performed four (4) land development reviews for the proposed fire water service (final letter issuance date of February 14, 2022). HRG has successfully coordinated with the Design Engineer, the Applicant's Architect, the Fire System Designer, and Public Works to ensure that final plan revisions were made in conformance with the mutually agreed-upon end design criteria for the 2-stanchion support system. There are no further action items required for this land development project.

### 451 Keystone Boulevard (Pottstown Sustainable Energy Plant) Development

*There are no further updates since the January 2022 Engineer's Report.* The approved O&M Agreement was partially executed by Pottstown Sustainable Energy Plant in December 2021 and has been sent to the Authority Solicitor for completion and execution.

### 200 Shoemaker Road (Chipotle) Development

To-date, HRG has performed one (1) land development review for the proposed water and sewer systems (letter issuance date of December 10, 2021). HRG has since provided technical assistance to the Design Engineer for the pending land development resubmission (not yet received).

### 860 Beech Street (Hill School Turf Field) Development

To-date, HRG has performed one (1) land development review for the proposed water and sewer systems (draft letter issued to Public Works on March 4, 2022). HRG will issue Water and Sewer Review No. 1 to the Applicant following the Public Works review and comment period.

Please feel free to contact me if you have any questions regarding this report or any other items.

Respectfully Submitted,

HERBERT, ROWLAND & GRUBIC, INC.



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