

COPLAY WHITEHALL SEWER AUTHORITY

THE REGULAR MEETING of the Coplay-Whitehall Sewer Authority was called to order by Chairman Jim Hahn at 7:30 p.m. on the 21st day of April 2022.

BOARD MEMBERS present were:

**Paul F. Geissinger
James Hahn
Dennis Wehr, Jr**

**Paul D. Boyle
Joseph J. Marx(absent)**

**Joseph Bonshak
James Roth**

MANAGER: Matthew Harleman

BUSINESS MANAGER: Anita Smith

AUTHORITY SOLICITOR: Andrew Schantz, Davison & McCarthy P C

ENGINEER: Mark Buchvalt, T & M Associates

LIAISONS: NONE

PRESS: Jim Weber, Times News

CITIZENS present: Scott Stoitsits, Foreman

**Michael Melosky, Operations Manager
Jeff Dobeck, Buckno, Lisicky and Company
Paul Pugielli, Brown & Brown Insurance
Liesel Gross, Lehigh County Authority
Phil DePoe, Lehigh County Authority
Lou Bodish, Coplay Borough
Steve Burker, Coplay Borough
Mark Molitoris, Coplay Borough**

CHAIRMAN Jim Hahn called the meeting to order.

Mr. Hahn called for the Pledge of Allegiance to the Flag.

Mr. Hahn called for the reading of the minutes of the Regular Meeting of March 17, 2022.

MOTION WAS MADE BY MR. BOYLE, SECOND BY MR. WEHR, APPROVING THE MINUTES OF THE REGULAR MEETING MARCH 17, 2022 WITH ANY AND ALL ADDITIONS /DELETIONS AS NOTED, DISPENSING WITH READING OF SAME. 6 AYES, 0 NAYES, 1 ABSENT. MOTION CARRIED.

Mr. Hahn asked if anyone would like to address the board.

Ms. Liesel Gross and Phil DePoe from Lehigh County Authority stepped forward.

Ms. Gross said the municipalities are being asked to create a Source Reduction Plan or SRP. There are 13 municipalities including CWSA which contribute to the Kline Island Sewer Treatment Plant. Lehigh County Authority has been working since 2009, when we took over the lease of the plant, to reduce the inflow and infiltration into the system. We are working under a connect management plan imposed by PADEP for the time period 2020-2025. The results of the plan will determine how new connections will be done after 2025.

Mr. DePoe said Lehigh County Authority is trying to find out where the inflow and infiltration is going into the system by doing night time weiring. He explained that night time weiring is flow monitoring occurring between the hours of 12:00 AM to 6:00 AM when most flow in the system is thought to be clearwater infiltration and not flow generated by

users. Lehigh County Authority submits an inflow & infiltration work update performed by each signatory to PADEP on a quarterly basis. Matt provides us with the work CWSA completed each quarter and it is included in the report. We were authorized to create a (SRP) Source Reduction plan. ARCADIS had installed 105 flow meters throughout the whole KISS system. They had 15 meters in your system during the March-October 2021 time frame. There is a weiring proposal from ARCADIS to identify the worst area in the system. To do weiring ARCADIS would enter a manhole between midnight and 6:00 AM to install a weir into the pipe to measure the flow. They would move from manhole to manhole and get to around 10 manholes a night. This is a technique to identify infiltration and will show what neighborhoods are a problem. ARCADIS has completed weiring in the seven municipalities in the Western Lehigh part of the KISS system. They will be weiring in the City of Allentown next. They should be able to get to CWSA's manholes during the end of May to beginning of June time frame.

A. FIELD REPORT

1. Written –

MOTION MADE BY MR. BOYLE, SECOND BY MR. ROTH, TO ACCEPT THE MARCH 2022 MANAGER'S FIELD REPORT AS PRESENTED AND TO MAKE THE WRITTEN REPORT PART OF THE OFFICIAL MINUTES. 6 AYES, 0 NAYES, 1 ABSENT. MOTION CARRIED.

2. Verbal-

Mr. Matthew Harleman said that he had several items to report. The VFD failure for one of the controls for one of the pumps we had at the Eberhart Pump Station is covered under warranty. Kunsman Roofing will make the temporary repairs to the roof shortly. Yavorski Builders Inc has requested a release on their \$2,500.00 letter of credit and a return of the remaining escrow for Roosevelt View for approximately \$276.61. Their maintenance period had expired in January 2022.

MOTION WAS MADE BY MR. GEISSINGER, SECOND BY MR. BOYLE, APPROVING THE RELEASE OF THE \$2,500.00 LETTER OF CREDIT AND APPROXIMATELY \$276.61 ESCROW FOR ROOSEVELT VIEW TO YAVORSKI BUILDERS, INC. 6 AYES, 0 NAYES, 1 ABSENT. MOTION CARRIED.

Mr. Harleman continued the 2022 manhole rehabilitation project that Keystone Consulting is assisting with, is out for bid. The bids will be opened on April 28, 2022 so we should have bid numbers for the next meeting. We are participating with North Whitehall and Upper Macungie on the project. That is all I have.

Mr. Buckvalt said he will wait until later in the meeting to give his review.

B. ADMINISTRATIVE REPORTS - Monthly Financial Report presented for Board review after general review:

MOTION MADE BY MR. ROTH, SECOND BY MR. BONSHAK TO APPROVE THE MARCH 2022 FINANCIAL REPORT AS PRESENTED BY THE TREASURER. 6 AYES, 0 NAYES, 1 ABSENT. MOTION CARRIED.

See attached listings for the invoices listed to be paid.

MOTION MADE BY MR. BONSHAK, SECOND BY MR. ROTH TO APPROVE THE MARCH 2022 INVOICES FOR THE 1ST NORTHERN BANK ACCOUNT AS PRESENTED BY THE TREASURER. 6 AYES, 0 NAYES, 1 ABSENT. MOTION CARRIED.

C. CORRESPONDENCE AND OTHER MISCELLANEOUS DATA

1. **ARCADIS letter dated March 28,2022 from Phil DePoe to Matt Harleman regarding the scope and budget for 2022 Nighttime Weiring (Exhibit A)**

Mr. Roth said after discussing the ARCADIS budget estimates dated March 28, 2022 for nighttime weiring with the Operations Committee they decided it would be advantageous to proceed with the 6 basins at \$72,000.00 per page 3 of the letter.

MOTION MADE BY MR. ROTH, SECOND BY MR. BOYLE TO APPROVE THE ARCADIS ESTIMATE FOR 6 BASINS FOR NIGHTTIME WEIRING FOR \$72,000.00.

Mr. Wehr asked if the CWSA maintenance staff could do the weiring.

Mr. Harleman said he and Mr. Melosky calculated the cost of the night overtime in order to complete the weiring and found that the quote was more cost effective for ARCADIS to do the work. It is better to complete the weiring at night due to the low or no flows since customers are not taking showers or cooking at that time, so any flows could be considered inflow or infiltration. Also, if the maintenance crew worked at night we would be short staffed during the day for any call outs.

Mr. Geissinger asked if there would be sufficient results in doing the six basins.

Mr. Harleman said in weiring the 3 worst basins it would give us information on 25 miles of pipe. In weiring the 6 worst basins, it would give us information on 50 miles of pipe, which is a good portion of our system. We would be able to get sufficient data to filter down to the worst sections of pipe so we could correct the problems.

6 AYES, 0 NAYES, 1 ABSENT. MOTION CARRIED.

2. **Quotes for new CWSA website dated April 14, 2022 from Anita Smith to the CWSA Board**

MOTION MADE BY MR. ROTH, SECOND BY MR. WEHR TO APPROVE THE QUOTE FOR THE CWSA WEBSITE FOR NA STUDIOS FOR APPROXIMATELY \$3,150.00. 6 AYES, 0 NAYES, 1 ABSENT. MOTION CARRIED.

3. **Letter dated March 15, 2022 from Liesel Gross, Chief Executive Office at Lehigh County Authority regarding LCA's new Strategic Plan --for board information**

Operations Committee -- *Mr. Roth said there were normal operations.*

Administrative Committee – *Mr. Geissinger reported normal operations.*

Financial Committee-- *Mr. Boyle reported normal operations.*

Clear Water Committee—*Mr. Geissinger reported normal operations.*

Safety Committee—*Mr. Bonshak reported normal operations.*

OLD BUSINESS –

Mr. Roth said we have gone over the bids for the parking lot lights. After the Committee reviewed the bids and saw that pricing for all specifications were not included in all of the bids, we have given the bid with the lowest price and all items included to Diefenderfer Electric at a quote of \$20,750.00.

MOTION MADE BY MR. ROTH, SECOND BY MR. GEISSINGER TO APPROVE THE BID FOR THE MAINTNANCE AND REPLACEMENT OF THE PARKING LOT LIGHTS TO DIEFENDERFER ELECTRIC FOR \$20,750.00. 6 AYES, 0 NAYES, 1 ABSENT. MOTION CARRIED.

NEW BUSINESS –

Mr. Hahn said we will now start with our annual review. Mr. Pugielli, you will be first to give your report.

Mr. Pugielli from Brown and Brown Insurance review statement dated April 21, 2022 is attached as Exhibit B.

Mr. Hahn said does anyone have any questions? No one responded. Thank you, Mr. Pugielli. Next, we have Mr. Dobeck from Buckno, Lisicky and Company about the financial review.

Mr. Dobeck said good evening and it is a pleasure being here tonight. Copy of 2021 Audit Summary as Exhibit C.

Mr. Hahn said does anyone have any questions? No one responded. Thank you, Mr. Dobeck. Attorney Schantz, it is your turn.

Attorney Schantz introduced himself as the solicitor for CWSA and I am with the firm Davison & McCarthy. 2021 has been a year of transition with Mr. Harleman retiring and the passing of Mr. Schreiner who were both pillars to the Authority. I want to congratulate Matt Harleman on making a smooth transition this year. During last year we had two issues. One issue was the alleged storm sewer pipe and Whitehall Township. I believe the Township and Scheuermann are working on the claim. The other issue is the illegal connection in Coplay. It is on-going and if you want to pursue a theft of services, please update me. I think that the Coplay Borough is working on an ordinance for the future.

In 2021 we filed 6 liens and satisfied 5 liens in 2021. So far in 2022 we filed 3 liens and satisfied 2 liens. The Authority is running smoothly, there is not much going on which is a good sign. Thank you to the staff of the Authority and we hope to have a long relationship in the future. Are there any questions? No one had any questions.

Mr. Hahn said Thank you Attorney Schantz.

Mr. Buchvalt from T & M Associates review statement dated May 2021 is attached as Exhibit D.

Mr. Buchvalt said thank you for your continued relationship with T & M Associates. Are there any questions? No one responded.

Mr. Hahn said Mr. Buchvalt thank you.

Mr. Hahn said Mr. Melosky and staff have spruced up the garage and trucks. You are welcome to join them to do a tour of the maintenance area.

ADJOURNMENT –

MOTION MADE BY MR. ROTH, SECOND BY MR. BOYLE TO ADJOURN THE MEETING. 6 AYES, 0 NAYES, 1 ABSENT. MOTION CARRIED.

The meeting was adjourned at 8:25 PM.



**Respectfully submitted,
Paul Geissinger, Secretary**

Mr. Matthew Harleman
Coplay Whitehall Sewer Authority
3213 MacArthur Road
Whitehall, PA 18052

Phil DePoe
Lehigh County Authority
1053 Spruce Road
Allentown, PA 18106-0348

Arcadis U.S., Inc.
1600 Market Street
Suite 1810
Philadelphia
Pennsylvania 19103
Tel 215 625 0850
www.arcadis.com

EXHIBIT
A

Subject:
Scope and Budget for 2022 Nighttime Weiring

Date:
March 28, 2022

Dear Sires:

Arcadis is pleased to provide Coplay Whitehall Sewer Authority (CWSA) and Lehigh County Authority with this scope and budget for nighttime weiring investigations of the collector sewers located in Coplay and Whitehall. 25 miles of collector sewer pipes located in basins Hokendaqua, MacArthur 1, Mickley will be included in this base investigation, with Eberhart West, Tarkett, and CW Jordan potentially added as additional scope, as presented below.

Contact:

Jim Shelton

Phone:

302.723.1450

Email:

James.Shelton@arcadis.com

OBJECTIVES

Groundwater infiltration is a significant contributor of flow in some areas of the Coplay Whitehall Sewer Authority sewer system. Properly conducted and with wet ground conditions, nighttime weiring is a highly effective way to locate neighborhoods most impacted by RII.

As the majority of residential water usage stops during overnight hours (1:00 AM to 5:15 AM), flow measurements obtained during these hours represent groundwater infiltration. When conducted during high groundwater periods (i.e., during wet springs or the day(s) after rainfall), the sewer and lateral pipe bedding is flooded with percolating rainwater and the places it leaks into the system can be measured at a resolution of hundreds of feet rather than the 10-25 miles of pipe resolution provided by flow monitoring. Conducted during appropriate weather conditions, the rate of infiltration observed (per foot of mainline pipe) indicates how leaky the collection system is in that monitored area. The measurements are accomplished by entering a manhole and measuring the instantaneous flow (for a period of approximately 5 to 10 minutes per location) using a compound notched sharp-

This proposal and its contents shall not be duplicated, used, or disclosed — in whole or in part — for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of — or in connection with — the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.

arcadis.com

C:\Users\Wharleman\AppData\Local\Microsoft\Windows\inetcache\Content.Outlook\Y2RWW0PO\CWSA Weiring 2022.Pro.Docx

crested weir. Weir capacities generally limit this technique to pipe diameters 15" or less.

For the purposes of this scope and budget, we assume that 25 miles of sanitary sewer pipe will be part of the nighttime weiring study, with approximately 22 manholes entered and more than 50 individual pipe runs being measured, providing an average resolution of less than a ½ mile of sewer main for prioritizing source reduction program work. There will be approximately two weeks of field work. Weather permitting, the work will be completed in the spring of 2022, with the analysis available early summer 2022.

SCOPE OF WORK

Task 1 – Preparatory Work

Arcadis will prepare a detailed workplan and a health and safety plan, including confined space entry plan.

Arcadis will conduct primary weir location selection for the areas to be measured. Primary weir location selection will be based on:

- Immediately upstream of pump stations.
- Pipe diameters equal to or less than 15-inches.
- Manholes with two (2) or three (3) influent pipes are preferable to those with only one (1).

Primary weir locations will be given unique IDs. As part of the prep work, a weiring analysis spreadsheet will be created along with GIS-based field maps.

All primary weir locations will be field verified during the day to:

- Locate and open the manhole
- Confirm that all pipes are weirable (i.e., no controlled inside drops or lined pipe)
- Verify flow directions
- Confirm atmospheric conditions
- Traffic Control Situation

Task 2 – Nighttime Weiring

Arcadis will conduct nighttime weiring when the pipe bedding is thought to be filled with water. Arcadis will perform work Monday through Friday from 0000 to 0600, with weiring being conducted between 0045 and 0515. Arcadis will provide three-person weiring teams of confined space entry trained staff to perform confined space entries into approximately 55 weir locations. Each weir location will be entered a minimum of two times and on different days. If flow measurements are not within 10% of each other, the weir location

will be entered a third time on a subsequent night. The nighttime weiring work should take approximately two weeks to perform. Arcadis will provide all required confined space entry equipment, along with Thel-Mar portable volumetric weirs in sizes 15" or less. Work will not be performed when more than .5 inches of rain occurs within 12 hour of planned weiring, if more than 1" of rain has fallen within 24 hours of planned weiring, or if more than 2" of rain has fallen within 36 hours of planned weiring as recent significant rainfall skews weiring results. Arcadis will perform a tailgate health and safety meeting every evening prior to starting work for the night.

Task 3 – Weiring Results

The weiring data collected in the field will be entered into the weiring results spreadsheet. Infiltration in gallons per day per linear foot of sewer main will be calculated for each weiring segment and the data linked to GIS-based map reports.

DELIVERABLES

Arcadis will deliver the weiring analysis in the form of a spreadsheet and GIS figures and will meet with Coplay Whitehall Sewer Authority staff to present the results and recommendations. Arcadis will provide a single written technical memo of our findings and recommendations.

BUDGET ESTIMATE

We estimate the cost and level of effort of this work as shown in the below table.

Task	Hours	Cost
Task 1 – Planning and Prep		\$9,000
Task 2 – Nighttime Weiring		\$35,000
Task 3 – Weiring Analysis		\$5,000
Total		\$49,000

If Coplay Whitehall Sewer Authority would like to double their scope of work and include additional basins beyond the initial 3 basins mentioned above, to bring the total of sanitary sewer collector pipe investigated to 50 miles, we estimate the cost and level of effort for all 50 miles as shown in the below table.

Task	Hours	Cost
Task 1 – Planning and Prep		\$13,000
Task 2 – Nighttime Weiring		\$53,000
Task 3 – Weiring Analysis		\$6,000
Total		\$72,000

Mr. Phil DePoe
March 28, 2022



We propose to complete these services under our contract with LCA on a time and materials basis in accordance with the Agreement between LCA and Malcolm Pirnie, Inc., and the current Summary of Standard Charges for Lehigh County Authority. Arcadis will track the costs associated with this work and report them to Coplay Whitehall Sewer Authority monthly throughout the project; we will not exceed the authorized budget without written professional services authorization from Coplay Whitehall Sewer Authority. Payment for services will be based upon the actual labor and expenses incurred. Invoicing will be completed monthly. The invoice will include the defined contract tasks listing the day-by-day personnel performing the task with hourly rate and hours worked. The invoice will provide total billed for month. Support documents will be provided if there are any expenses incurred.

Please contact me with your authorization to proceed if this scope and budget are acceptable to you. If you have any questions, please do not hesitate to call me.

Sincerely,

ARCADIS U.S., Inc.

A handwritten signature in black ink that reads 'James W. Shelton'.

James W. Shelton, PE
Vice President – Buried Infrastructure

Cc: Emily Sadowsky, ANA
Tony Dill, ANA



Brown & Brown of Lehigh Valley, LP
 3001 Emrick Blvd., Suite 120, Bethlehem, PA 18020-8036
 Phone (610) 974-9490 Fax (610) 974-9791
 Toll Free (800) 634-8237
 www.bbinslv.com

LEHIGH VALLEY
 April 21, 2022

EXHIBIT
B

Coplay-Whitehall Sewer Authority
 3213 MacArthur Road
 Whitehall, Pa 18052

Dear Board Members;

This correspondence will provide you the annual update and overview of the insurance program in place for the authority. While the Covid situation seems to be improving, the insurance industry as a whole is still a difficult environment which we expect to continue for another year or two.

Having said that, the authority has experienced **better than average** outcomes for both policies

The insurance industry continues to be adversely affected by several factors:

- COVID 19 claims, which are still be argued in the courts
- Catastrophic property insurance claims including tornadoes, hurricanes, wildfires, etc
- Supply chain issues as well as accelerating inflation has caused the cost of building materials to skyrocket, which makes the cost of reconstruction after a claim 15-20% higher year over year
- Higher medical expenses continue to increase the cost of work comp claims

Insurance Industry market reports indicate the average rate increase for accounts the size of CWSA is about 10.6%. This average increase is down slightly from last year.

Recap of the renewal of the policies:

- The package premium increased from \$63,348 to \$65,952 (4.1%), lower than last years' increase
- Work comp **Decreased** from \$15,182 to \$14,557 or a decrease of 4%.
- Over the last 2 years, work comp has **decreased** by \$2,469 or 14.5%
- Overall premiums went from \$78,530 to \$80,509, or an increase of 2.5%. Again, this is way below the current market averages.
- Property values slightly higher, all other coverages, deductibles, etc remain the same.

Claims have generally been good with the exception of 2017, where there were a number of sewer backup claims. As additional slip lining is done, this should further reduce the likelihood of future claims.

We will continue to be your advocate, searching for the best coverage at the least expensive price.

Thank you for your continued relationship with us, and we hope you will take advantage of the many safety and informational webinars we offer.

Sincerely,

Paul Pugelli,
 Director, Municipal Insurance Services

10F1

**Coplay-Whitehall Sewer Authority
2021 Audit Summary**

Buckno Lisicky & Company performed the annual audit of the Authority's financial statements for the year ended December 31, 2021.

The audit is substantially complete. We completed much of the fieldwork required for the audit back in February as usual. However, unfortunately, we have not been able to complete the audit due to a delay in receiving information regarding the Authority's Pennsylvania Municipal Retirement Plan from PMRS. You may recall in years passed we have had delays in receiving the information from PMRS to complete the audit. We did not receive the pension information last year until August to complete the 2020 audit. I have kept Ms. Anita Smith and the board apprised of the status of receiving this information.

The PMRS information delay is delaying the audits of all municipalities and authorities that participate in the PMRS system. My firm has several other audits that have been delayed in being issued due to the delayed pension information.

In February 2022, the PMRS communicated to its member employers the following:

Beginning in 2017, PMRS experienced extended delays in upgrading our financial and administrative software systems. These delays, combined with other operational and management issues, resulted in a backlog of 2019 and 2020 financial reporting. The PMRS board installed new leadership in late 2020, the technology upgrades were completed in spring 2021, and PMRS has increased staff levels across the organization, particularly in finance and customer service.

Following the completion of 2019 financial reporting last November, PMRS immediately turned on generating accurate 2020 financial reports for our 1100 retirement plans. The upgraded software systems are operational and performing well. We have gained valuable experience working with the technology while completing the 2019 reports; added accounting and financial staff; and streamlined processes with our actuaries. As a result, we expect to begin distributing the first 2020 reports and statements the last week in March and anticipate completing 2020 financial reporting (Pension Information Required for the audit) this summer.

We understand that the delayed reports are burdensome, and your patience and support are greatly appreciated. Eliminating the backlog and returning to a regular schedule is a top priority for PMRS and we are committed to providing regular updates and assisting members and employers in any way possible.

PMRS stated they will be preparing the reports on a "first in first out" basis depending on when employers returned their documentation to PMRS. At the end of March 2022, they published municipal rankings as to where the Authority is in the pecking order. Per the Rankings, you appear to be #26 out of

Two City Center, 645 Hamilton Street, Suite 204, Allentown, PA 18101 ~ 610.821.8580 ~ fax 610.821.9679

444 Main Street, Bethlehem, PA 18018 ~ 610.691.0113 ~ fax 610.691.5273

1167 Interchange Road, Lehighton, PA 18235 ~ 610.377.6960 ~ fax 610.377.6980

2 Ridgedale Avenue, Suite 205, Cedar Knolls, NJ 07927 ~ 973.984.0100 ~ fax 973.984.7467

10F2

over 1000 municipalities. The PMRS website says that it anticipates the process of providing the GASB 68 Pension Reporting will begin the first week of May and continue until the end of June.

Based upon this information, I am hopeful that we will receive the Pension information sometime in May and we will be able to complete the audit at that time.

PMRS expects 2021 financial reports to be distributed before the end of 2022, and 2022 reporting to be on a regular schedule.

As for the majority of the audit that we have been able to complete, I'm happy to report we've had no major issues. Before we record the financial activity related to the pension, the Authority is showing a net income for the year ended 12/31/21. Revenues were over budget for 2021. The Authority remains in solid financial position with the Authority's total assets being comparable to 2020 and liabilities, before the recording of the 2020 pension adjustment down slightly from 2020 due to the paydown of the Authority long-term debt as scheduled.

I will continue to keep the Authority updated as to the status of audit and will request to schedule a meeting with the Finance Committee when the draft of the audit report is ready to review.

I would like to thank the Authority staff and the Board for providing all the information we needed to perform the audit. The responsiveness to our requests and cooperation is greatly appreciated. We very much appreciate the long term relationship we have had with Coplay-Whitehall Sewer Authority.

Sincerely



Buckno Lisicky & Company
Jeffrey E. Dobeck, Shareholder



MEMORANDUM

TO: COPLAY WHITEHALL SEWER AUTHORITY – BOARD OF DIRECTORS
FROM: Mark J Buchvalt, PE
RE: ANNUAL REPORT
DATE: May 2022

INTRODUCTION

T&M Associates would like to thank Coplay-Whitehall Sewer Authority for the re-appointment as CWSA's Consulting Engineer in 2022. We are grateful for the opportunity to continue to work with CWSA. Below is a summary of the main projects we worked on for the past year.

CONTINUED COORDINATION ON THE KISS (KLINE'S ISLAND SEWER STUDY PROJECT WITH LCA)

T&M continued to participate in meetings and discussions related to the Kline's Island Sewer Study. Over the course of the past year the project consultant, Arcadis, continued to gather flow data from the contributing systems leading to the Kline's Island Treatment Plant.

The flow monitoring was generally completed, and the model presented to each signatory identifying problem areas within each signatory's system.

An I&I investigation is the next-step following flow data collection and model presentation to each signatory. Drainage areas demonstrating a strong correlation between high flows and wet weather are likely experiencing some form of I&I. These drainage areas are now identified, and subsequent evaluations can be focused to identify the cause of I&I. Arcadis recommended night weiring for sections of the CWSA system to try and hone in on the problem areas.

By the end of summer 2022 CWSA will be required to present to Arcadis and LCA preliminary source reduction projects to alleviate the I&I. The information provided in August will assist Arcadis in determining what affect the potential fixes will have in the model. Between August of 2022 and end of 2024 the source reduction projects will be refined in coordination with Arcadis and all projects ultimately identified in the plan shall be completed by 2032.

In addition, by the end of August 2022 CWSA will be required to prepare a map of their system for every pipe section 8" or larger with manholes and pipes including material, size, and slope.

PENNDOT CEMENTON BRIDGE RELOCATION

Pennsylvania Department of Transportation (PENNDOT) is planning for the reconstruction of the Cementon Bridge as well as realignment of Main Street to match the alignment of the new bridge. As a result, there are multiple locations where the existing CWSA gravity sewer system is either in conflict with proposed drainage or will be located within the new bridge approach cartway. T&M



has prepared a design for the relocation of the gravity sewer such that it will be located out of the new cartway with the exception of perpendicular crossings to the new cartway. The project was submitted to PennDOT and the plans and specifications have been approved and is ready for construction. PennDOT expects the project to start late summer early/fall of this year.

CWSA ROOF REPLACEMENT PROJECT

T&M performed a site visit and evaluated the existing roofing on the original office and 1 bay garage built in 1978, the 1 bay garage addition built in 1987 and the 5 bay and break room addition built in 2005. The existing roof system on the 1978 and 1987 roofs is built-up roofing with slag. The roof on the 2005 addition is a built-up roof system with a granular surface. None of the roof systems are under warranty. The existing 2005 addition is experiencing significant water infiltration at the perimeter walls. In addition, the 1978 and 1987 roof areas are showing their age. See the 2022-3-10 Roof Observations and Recommendations prepared by T&M Associates for further information.

The Board decided to proceed with some limited "band-aid" roof repairs immediately with Alan Kunsman roofing. In addition, the Board authorized T&M to prepare plans and specifications to bid a full roof replacement for the entire building. The bid package is currently being prepared.

EBERHART ROAD PUMP STATION

T&M provided plans and specs to replace the Eberhart Road pump station emergency back up generator. The generator install was complete in early 2022. The project also expanded the pump station's back up power supply options by including a "tap box" at the rear of the building. This device allows a trailer mounted generator to be quickly connected to the station should the permanent back up generator fail.