

EAST GOSHEN MUNICIPAL AUTHORITY

March 9, 2026

7:00

- **7:00pm CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE**
 - Ask if anyone will be taping the meeting.

- **CHAIRMAN'S REPORT/OTHER MEMBERS' REPORTS**

- **LIAISON REPORTS**

- **SEWER REPORTS**
 - Director of Public Works' Report

 - West Goshen Report

 - Pennoni Engineer's Report

 - Big Fish Environmental Report

- **APPROVAL OF MINUTES**
 - February 9, 2026

- **APPROVAL OF INVOICES**

Company	Invoice #	Amount	Paid?
Pennoni	1314790	\$478.00	
Pennoni	1314791	\$4,546.75	
Pennoni	1314792	\$9,390.75	
Pennoni	1314793	\$2,635.00	
Gawthrop Greenwood	222068274	\$205.00	

- **FINANCIAL REPORTS**
 - February 2026

- **OLD BUSINESS**

- **2026 Goals:**

Goal	Status
Ridley Creek Plant compliance	January & February 2026 were in compliance with PADEP permit requirements.
Continue to implement infiltration and inflow for the sewer system	Ongoing.
Municipal Authority representative to attend West Goshen MA meetings. West Goshen MA meets 1 st Wed of each month at 6pm at the West Goshen Township Building.	Attend meetings on an as-needed basis.
Long-term sustainability	Ongoing: (1) Sewer rate increase implemented July 2024. (2) Development of 20-year+ Capital Improvement Plan underway. (3) Continue to study sewer rates.

- **NEW BUSINESS**

- Consideration to Advertise Waterview Sewer Pipe Lining Project

- **CAPACITY REQUESTS**

- **ANY OTHER MATTER**

- **CORRESPONDENCE AND REPORTS OF INTEREST**

- **PUBLIC COMMENT**

- **ADJOURNMENT**

EAST GOSHEN MUNICIPAL AUTHORITY
EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199
610-692-7171

Date: March 9, 2026

To: Municipal Authority

From: Mark Miller

Re: Monthly Report

Monthly Flows: The average daily flow to West Goshen was 567,129 gallons per day.

Monthly Rainfall: 2.57

Meters:

- Read on a daily basis. No problems to report.
- I reached out to Paul Mamzic from Allied Control to discuss the calibration of the meters going forward.

C.C. Collection:

- Pump stations were visited daily, wet wells were washed down, pumps were checked for proper operation, and generator was checked for fuel along with oil levels.
- We investigated a lateral blockage on Grand Oak Ln and advised the resident to contact a plumber.
- We utilized Pipe Data View to clean and televise the Waterview Development.
- John Laidley has been installing the new Data and Dialer devices in the pump stations – see attached screenshots of the Mission 123SCADA website interface.

Ridley Creek Collection:

- We found the pump station operation to be normal.
- We checked oil levels on the muffin monster and the generator.
- During the snowstorm we experienced loss of power for approximately twenty hours.
- We were notified of a missing manhole cover in the Hunt Country Development.

Ridley Creek Plant:

- Plant operator said the plant was normal for the month.
- The plant was on emergency power during the snowstorm. A limb had struck the main line causing a fuse to trip out. PECO emergency operations center was notified.
- Lenni conducted their annual electrical equipment detailed inspection.
- Mike Ellis and his electrical engineer met with Joe from Lenni Electric to go over the motor control center and we decided to do the engineering work this year.

Alarms: 18

PA One Calls: 127

Lateral Repairs/Caps: 0

- We inspected a new lateral in the Millstone Meadows Development on Hershey Mill Road.

Mission 123SCADA Website

KYW Newsradio - All News x East Goshen Township (PA), Po x + Ask Gemini - x

https://123scada.com/#/

Google Weather.com Yahoo - login KYW Newsradio - AI... EGT Website Login East Goshen Towns... Constant Contact WB Mason - Save o... Amazon Business PennDOT Customer... All Bookmarks

Dashboard

0 Alarms 0 Service 100% OK 2 Disabled 0 Off

Time	Ack Type	Event
March 05 at 12:41:56 PM		Vince acknowledged the Generator Not Running at Barkway Pump Station.
March 05 at 12:41:05 PM		Generator Not Running at Barkway Pump Station. Vince Damico is being notified.
March 05 at 12:38:02 PM		Generator Not Running at Barkway Pump Station. John Laidley, Joe Alessi are being notified.
March 05 at 12:34:30 PM		Vince acknowledged the Generator Not Running at Hershey Mill Pump Station.
March 05 at 12:34:18 PM		Generator Not Running at Hershey Mill Pump Station. Vince Damico is being notified.
March 05 at 12:31:16 PM		Generator Not Running at Hershey Mill Pump Station. John Laidley, Joe Alessi are being notified.
March 05 at 12:23:13 PM		Vince acknowledged the Generator Running at Barkway Pump Station.
March 05 at 12:21:01 PM		Generator Running at Barkway Pump Station. Vince Damico is being notified.

Map **Barkway Map & RTU View**

All Devices

Station

Alarms Dispatch Pumps Access Rain Supergraph Unit Maint

RTU Status: All Normal
Last Heard Time: Mar 05 03:32:53 PM

Analog Input

Wet Well Level: 3.38 Feet
Station Flow: -1.3 GPM

Digital Input

	Pump 1		Pump 2
	Generator		High Level Float
	Backup System		Pump 1 Fail
	Pump 2 Fail		Seal Fail

Digital Output / Relays

Relay 1	Relay 2	Relay 3
---------	---------	---------

RTU Data

A.C. 13.9 VAC	VAux 11.8 V
Batt 12.5 VDC	Temp 118.0 °F
RSRC -14.0 dB	RSRF -118.0 dBm

Devices

- Ashbridge Pump Station
- Barkway Pump Station
- East Goshen Municipal Building
- Hershey Mill Pump Station
- Hunt Country Pump Station

PA 352 PA 3 PA 352

Willistown

-75.55332, 40.01721

Go to Older 123mc Portal

Start Menu ^ 45°F

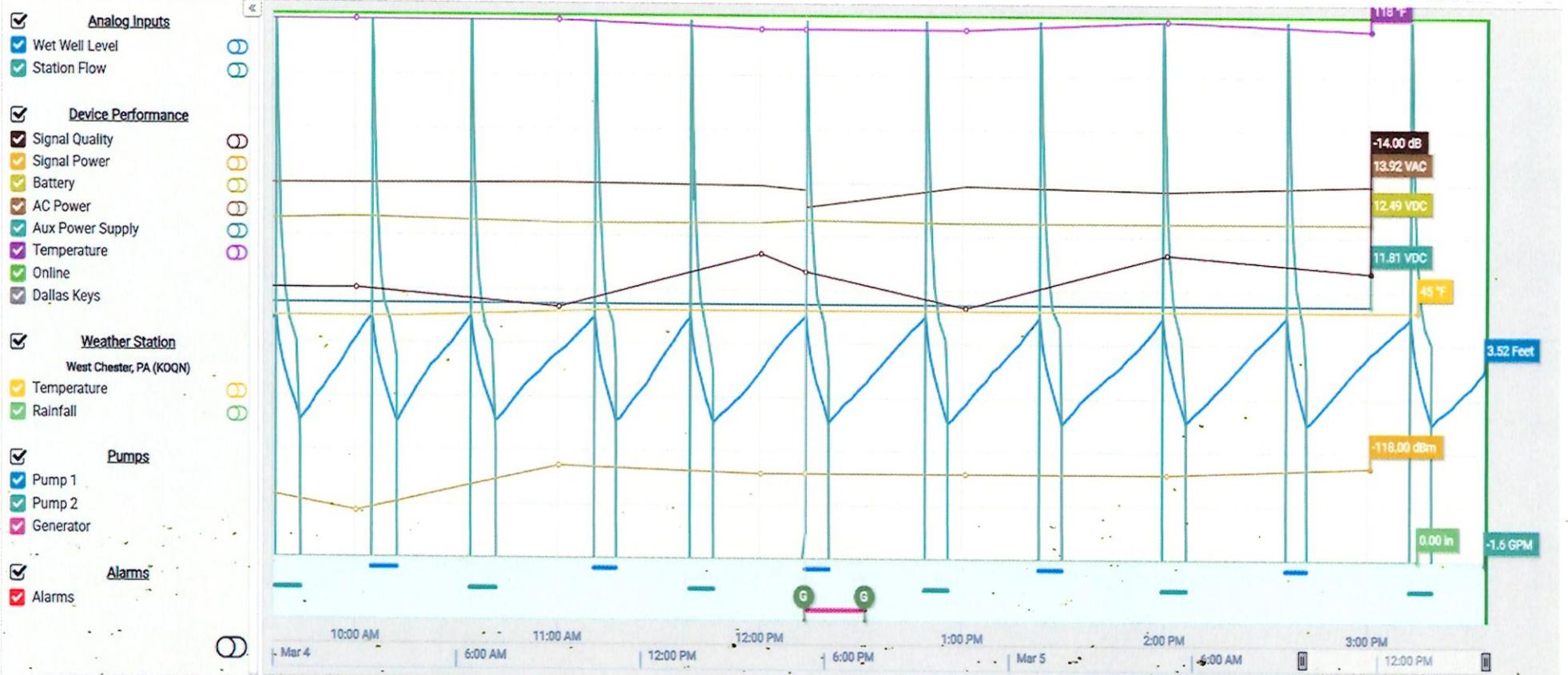
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March 05 at 12:18:01 PM	🗨	Generator Running at Barkway Pump Station. John Laidley,Joe Alessi are being notified.
March 05 at 12:16:45 PM	🗨	Vince acknowledged the Generator Running at Hershey Mill Pump Station.
March 05 at 12:16:33 PM	🗨	Generator Running at Hershey Mill Pump Station. Vince Damico is being notified.
March 05 at 12:13:31 PM	🗨	Generator Running at Hershey Mill Pump Station. John Laidley,Joe Alessi are being notified.
March 05 at 9:51:14 AM	🗨	Vince acknowledged the Generator Not Running at Hunt Country Pump Station.
March 05 at 9:50:57 AM	🗨	Generator Not Running at Hunt Country Pump Station. Vince Damico is being notified.
March 05 at 9:47:53 AM	🗨	Generator Not Running at Hunt Country Pump Station. John Laidley,Joe Alessi are being notified.
March 05 at 9:31:09 AM	🗨	Vince acknowledged the Generator Running at Hunt Country Pump Station.
March 05 at 9:30:56 AM	🗨	Generator Running at Hunt Country Pump Station. Vince Damico is being notified.
March 05 at 9:27:54 AM	🗨	Generator Running at Hunt Country Pump Station. John Laidley,Joe Alessi are being notified.
March 04 at 12:22:06 PM	🗨	Vince acknowledged the Generator Not Running at Ashbridge Pump Station.
March 04 at 12:21:49 PM	🗨	Generator Not Running at Ashbridge Pump Station. Vince Damico is being notified.
March 04 at 12:18:45 PM	🗨	Generator Not Running at Ashbridge Pump Station. John Laidley,Joe Alessi are being notified.

Supergraph, Hershey Mill Pump Station Hershey Mill

12 hours 1 day Mar 05 09:35:32 AM - Mar 05 03:35:32 PM (6 Hours)



West Goshen February 2026 Sewer Report

General Notes:

- For the month of February, the plant operated in compliance with its NPDES permit.
- WWTP monthly average daily flow - 3.45 mgd.
- WWPS monthly average daily flow – 1.158 mgd.
- Monthly estimated average total phosphorus discharge concentration was <0.01 mg/L.
- Sludge to landfill – 272 wet tons.

Grant Projects:

- 2024 LSA-Statewide Grant: WWTP Pump Replacements. The WGSA has been awarded a grant of \$250,000 for this project.

Ongoing Projects:

- WWTP Transformer Replacement - Transformer and Gear have been ordered. Submittals were received and have been approved. Anticipated equipment delivery – 4th qtr, 2026.
- Primary Clarifier No. 2 Rehab – The mechanism has been ordered and is under fabrication. 95% of order has been delivered. Installation expected during 2nd qtr, 2026.
- Return Activated Sludge (RAS) line project. The project involves installing an insertion valve on the force main and replacing several existing sludge valves – Anticipated completion, 2nd qtr, 2026.

Michael Moffa
Director of Wastewater
West Goshen Township
848 S. Concord Road
West Chester, PA 19382
610-696-0900





EAST GOSHEN MUNICIPAL AUTHORITY ENGINEER'S REPORT

March 5, 2026

Ridley Creek Sewage Treatment Plant (RCSTP)

- **Surge Suppression Inventory** – The surge suppression inventory report identifying the protected downstream equipment in the plant is being finalized.
- **SBR Tank Inspections** – No updates since our last report. Inspections of SBRs #1 and #2 were performed in 2025. Inspections of SBRs #3 and #4 are tentatively planned to occur in spring 2026. The rehabilitation contracting approach and schedule (one year vs. multiple years) will be determined after we inspect the remaining two tanks.
- **Motor Control Center (MCC) #1** – Pennoni recommended in our arc flash and short circuit study in 2025 that several breakers in the MCC be replaced with larger capacity breakers. Lenni Electric was unable to do so because the replacement breakers for the four blower starters do not align with the on-off switches that extend outside of the MCC cabinets, and compatible parts are not available given the age of the MCC. We met on-site with Lenni Electric and the RCSTP operator to evaluate potential replacement of the MCC accordingly. We documented existing conditions including tracing wiring throughout the MCC and marking up single line diagrams and building plans. It was determined that the replacement does not need to be with a new MCC but can instead be simplified with just four blower starters, two replacement electrical panels, and a transformer. We prepared a proposed written scope for the work and are coordinating with Lenni for budgetary pricing. We propose that the project be budgeted for construction in 2027. Design can potentially occur in 2026. We can provide a design proposal after the proposed scope is confirmed with Lenni, the operator, and Public Works.

Sanitary Sewer Pipe Rehab

- **Supplee Valley Pipe Lining** – No updates since our last report. As previously reported, the contractor, Vortex Services, completed all pipe lining work, but one 370 LF pipe run has small “bubbles” throughout the liner. The contractor proposed to remove a sample of the blistered liner with a robotic cutter to evaluate the condition of the underlying resin/felt cured wall. We have not heard from the contractor in several months and are contacting them for resolution. Final payment is still being held.
- **Waterview** – We performed visual interior condition assessments of additional manholes in the neighborhood, and we completed analysis of the pipe inspection videos. We met with Mark Miller to review pipe lining recommendations and to resolve discrepancies on sewer system pipe routing and manhole locations, confirm several pipes have previously been pipe lined, revisit that one pipe did not have a video, and request additional videos to confirm. Public Works subsequently televised several of the pipes and confirmed the pipe routing and pipes that were already lined. We prepared a pipe lining recommendation letter and submitted to the Township for consideration by the Municipal Authority of direction to advertise.

Pump Stations

- **Hunt Country Pump Station** – Pennoni conducted an existing conditions survey of the interior of the Hunt Country Pump Station building, including electrical components, on February 18 and a topographic survey of the site on February 25. Blood Hound performed utility locating of the existing force main on March 4. Our survey crew will go back out to the site to survey the force main afterwards. Existing conditions plans are currently being prepared.

Sewer Extensions

- **Morstein Road and Great Oak Circle** – We continued preparation of the concept design and plan for the sewer extensions. We will provide a list of locations for Public Works to perform soft dig test pits for rock depths based upon the conceptually designed sewer depths. After we complete the concept design, we will develop an updated construction cost opinion.
- **Charter Chase and Goshen Downs** – No updates since our last report. The results of the sewer extension interest survey in 2025 were that 58 properties are definitely interested, 23 properties are interested depending on costs, 42 properties are not interested, and 31 properties did not respond.

Chapter 94 Reports

- We are continuing preparation of the 2025 Chapter 94 Annual Reports. We are on track to submit before the March 31 submission due date.

New Connections

- **1344 Morstein Road** – One new home is proposed with a grinder pump and low pressure sewer lateral through an easement across an existing residential property to the existing sewer main in Eastwick Circle. We previously reviewed a revised plan submission, issued a comment letter, and discussed the approach to resolve outstanding comments with the design engineer. We are awaiting a plan resubmission to address minor sewer comments. We also provided the design engineer with the Township's Grinder Pump O&M agreement template.
- **1354 Paoli Pike** – The property owner is proposing an easement through the abutting property at 642 Meadow Drive to connect to an existing sewer main along Meadow Drive via grinder pump. We provided information to Mark Miller on grinder pump vendor alternatives and low pressure sewer lateral requirements.

Other

- **GIS Mapping** – We are updating the Township-wide sewer system mapping in GIS to begin to make it a functional asset management tool for the Public Works Department. We intend to present it to Public Works in March and to discuss additional information (such as pipe materials, manhole elevations, repair history), features and enhancements that can be added, options for web hosting so that it can be available in the field for use by Public Works on repairs and PA One Call locating amongst other things, and the capability for Township staff to update manhole and pipe information themselves.

END OF REPORT



Executive Summary

The Ridley Creek sewage treatment plant outfall 001 met all effluent limitations regarding water quality for February 2026. All supplemental reports were submitted for January 2026. Caustic usage increased to 51.85 gallons per day from 47.99 gallons per day last month. Aluminum sulfate solution volumes daily average increased slightly to 68.90 gallons per day from 68.61 gallons per day. No significant mechanical or operational issues were observed during the SBR treatment process. Sludge dewatering did not encounter any significant mechanical or operational issues. There were no odor complaints during the month.

TABLES

CERTIFIED LAB RESULTS- FINAL EFFLUENT February 2026

	FLOW	Ammonia as N	CBOD	Total Phosphorus	Total Suspended Solids	Fecal Coliform
Permit Limit (Weekly Average)	Gallons	7mg/L monthly	15mg/L	0.5mg/L	15mg/L	200 coliforms/100mL
DATE	Final EFF/Applebrook					
2/3/26	Meter Error/37,156	6.63	3.3	0.12	5.5	<1
2/10/2026	280,000/37,888	0.49	2.1	<0.10	5.8	1
2/17/2026	315,000/0	0.14	2.3	0.11	8	<1
2/24/2026	355,000/0	1.06	2.9	0.17	5	<1

CERTIFIED LAB RESULTS- FINAL EFFLUENT February 2026 Non-Report tests

	FLOW	NO2-NO3 (mg/L)	TKN (mg/L)	TN (mg/L)
DATE	Final EFF/Applebrook			
2/3/2026	Meter Error/37,156	4.55	8.07	12.6
2/10/2026	280,000/37,888	4.26	1.64	5.91
2/17/26	315,000/0	3.46	1.86	5.32
2/24/26	355,000/0	6.48	2.39	8.87

CERTIFIED LAB RESULTS- INFLUENT February 2026

	FLOW	Ammonia as N	BOD	CBOD	TKN	Total Phosphorus	Total Suspended Solids
DATE							
2/3/2026	298,630	41.9	152	180	56.5	5.04	100
2/10/2026	301,250	37	209	210	51.3	5.53	152
2/17/2026	310,666	37.5	274	221	58.2	5.3	230
2/24/2026	328,250	31.7	209	230	49.7	4.72	205

TKN = Total Kleidahl Nitrogen

TN= Total Nitrogen

NO2-NO3= Nitrogen, Nitrate-Nitrite

The Tables above show the certified lab results from samples collected once a week by Suburban Testing Labs as required by our DEP permit. The influent samples are collected by a composite sampler located at the doghouse manhole where the influent enters the plant. The final effluent data is from a combination of a composite sampling and grab sampling, both performed at the end of the UV channel weirs. We remained well below all of the weekly average discharge limits for the month of January.

PA DEP

Nothing to report

Pennoni Associates

Nothing to report

Significant Rainfall

During February, there were two (2) days where precipitation occurred. There were 2 days where precipitation accumulation was greater than 0.50".

2/16 1" snow

2/23 7" snow

Total precipitation for the month was 8" snow

*dates shown are the dates that the rain gauge was observed, not necessarily the day the rain occurred

Chemical Data

February 2026		
<u>Chemical</u>	Daily Average	Total Monthly
<u>Caustic Soda, gal</u>	51.85	1399.86
<u>Aluminum Sulfate solution, gal</u>	68.90	1860.42
<u>Sludge Dewatering, gal*</u>	17,911	429,853

*24 days of sludge dewatering

There was a decrease of 10,057 gallons of sludge dewatering during the month of February compared to January.

Minor Preventative Maintenance

Flushed chemical feed lines to the SBRs.
Cleaned final effluent weir trough daily.
Skimmed surface of disc filters daily
Drained and cleaned disc filters bi-weekly.
Cleaned buildings and laboratory.

Major Repairs or Upgrades

Nothing to report

Upcoming Repairs or Upgrades

Nothing to report

Flow Data

February 2026			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building	8.173	291,904	378,700
Influent Wastewater to SBRs	11.049	394,607	475,424
Internal Recycle	2.876	102,703	153,210
Treated Effluent to Disc Filters	10.336	369,127	474,496
Final Effluent Discharge	8.543	305,000	389,000
Applebrook Golf Course	.405	31,175	37,888

The plant hydraulic design loading is 745,000 gpd.

There were no high flow events during the month of February 2026

Draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
February 9, 2026

The East Goshen Township Municipal Authority held their regular meeting on Monday, February 9, 2026 at 7:00 pm. at the Township Building.

Members in attendance are indicated in **BOLD**:

Kevin Cummings – Chairman

John Stipe – Vice Chairman

Sean Ellsworth

Dana Pizarro

Walter Wujcik

Also in attendance were:

Mark Miller (Director of Public Works),

Mike Ellis (Pennoni).

Peter Hicks (Supervisor

Kelly Brophy, Finance Director

Patrick McKenna (Attorney)

Theodore Speedy (Attorney)

Stacey Fuller (Attorney)

COMMON ACRONYMS:

ATS – Automatic Transfer Switch

BFES – Big Fish Environmental Services

BOS – Board of Supervisors

CB – Conservancy Board

DEP – Department of Environmental Protection

EPA – Environmental protection Agency

HC – Historical Commission

I&I – Inflow & Infiltration

LCSTP – Lockwood Chase Sewer Treatment Plant

PWD – Public Works Department

MA- Municipal Authority

NPDES – National Pollutant Discharge Elimination System

PC – Planning Commission

PM – Prevention Maintenance

PR – Park & Recreation Board

RCSTP – Ridley Creek Sewer Treatment Plant

SBR – Sequencing Batch Reactor

SSO – Sanitary System Overflow

WAS – Waste Activated Sludge

Call to Order & Pledge of Allegiance

John called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance.

John asked for a moment of silence for our First Responders and Military.

John asked if anyone would be recording the meeting. There was no response.

Chairman’s Report/Other Members Report

None

Liaison Reports

1. Conservancy Board - Walter mentioned that Keep East Goshen Beautiful day is in April.

2. Planning Commission – John reported that they are considering the AI Data Centers to be covered in our Ordinance.

1 3. BOS – Peter had nothing to report.

2
3 **SEWER REPORTS**

4 **1. Director of Public Works, Mark Miller’s report for February 9, 2026.**

5
6 **Monthly Flows** – The average daily flow to West Goshen was 558,781 gallons per day.

7
8 **Monthly Rainfall** - 2.55”. Mark mentioned that they were busy most of the month clearing snow.

9
10 **Meters**: Read on a daily basis. No problems to report.

11
12 **C.C.Collection**

- 13 • All Pump stations were visited daily and regular maintenance was performed.

14
15 **Ridley Creek Collection**:

- 16 • Pump stations were visited daily and regular maintenance was performed.

17
18 **Ridley Creek Plant**:

- 19 • Lenni started their annual inspection of breakers and fuses.

20
21 **Alarms**: 6

22
23 **PA One Calls**: 73

24
25 **Lateral Repairs/Caps**: 0

26
27
28 **2. West Goshen Report**

- 29
30 • Kelly provided a copy of the West Goshen invoice for East Goshen’s share of the operation and
31 maintenance costs of the Sewage Treatment System. The WGSA has been awarded a grant of
32 \$250,000 for the WWTP Pump Replacements project.

33
34
35 **3. Pennoni Engineer’s Report dated February 9, 2026**

36
37 ***Ridley Creek Sewage Treatment Plant (RCSTP)***

- 38 • **Surge Suppression Inventory** – The surge suppression inventory report identifying the
39 protected downstream equipment in the plant is being finalized.
- 40 • **SBR Tank Inspections** – No updates since our last report. Inspections of SBRs #1 and #2
41 were performed in 2025. Inspections of SBRs #3 and #4 are tentatively planned to occur in
42 spring 2026. Based on the projected costs for the repairs identified in the first two tanks, the
43 repair work will need to be publicly bid. We expect the most cost-effective approach will be
44 to inspect the other two tanks and then conduct one public bid solicitation in late 2026 for
45 repairs to all four tanks. That approach will be determined with more certainty after we

1 inspect the remaining two tanks.

2 ***Sanitary Sewer Pipe Rehab***

- 3 • **Supplee Valley Pipe Lining** – No updates since our last report. As previously reported, the
4 contractor, Vortex Services, completed all pipe lining work, but one 370 LF pipe run has
5 small “bubbles” throughout the liner. The contractor proposed to remove a sample of the
6 blistered liner with a robotic cutter to evaluate the condition of the underlying resin/felt cured
7 wall. In follow-up to the August MA meeting, we notified the contractor to proceed with the
8 evaluation. They responded that they were meeting internally the week of August 26 to
9 review the next steps. We have followed up with them several times since then, most recently
10 on November 3, but have not received a response. Final payment will not be processed until
11 this matter is resolved.
- 12 • **Waterview** – We performed visual interior condition assessments of a portion of manholes in
13 the neighborhood. Most of the manholes are brick and did not have any observed deficiencies;
14 a few manholes have already been interior lined. Several manhole lids were unable to be
15 opened, and one manhole appears to be buried in a residential yard. We will perform another
16 site visit with Public Works after the snow melts to open and assess the remainder of the
17 manholes. We had intended to request authority to advertise the project at the February MA
18 meeting, but we recommend the remaining manholes be inspected and any needed repairs
19 identified before doing so. Weather permitting, we expect to request authority to advertise at
20 the March MA meeting.

21 We also field measured distances between manholes to resolve discrepancies between sewer
22 system mapping and the pipe lengths from the sewer videos.

23 ***Pump Stations***

- 24 • **Hunt Country Pump Station** – The PA Department of Community and Economic
25 Development (DCED) Small Water and Sewer Grant application for the pump station upgrade
26 was awarded in the amount of \$205,000 on January 20, 2026. The budgetary project cost is
27 approximately \$630,000, including engineering and construction administration. The
28 application had been for \$479,952 with the remainder as a match.

29 We submitted a proposal for survey, engineering, permitting, and bid assistance services for
30 the project.

31 ***Sewer Extensions***

- 32 • **Morstein Road and Great Oak Circle** – We continued preparation of the concept design
33 and plan for the sewer extensions. We will provide a list of locations for Public Works to
34 perform soft dig test pits for rock depths based upon the conceptually designed sewer depths.
35 After we complete the concept design, we will develop an updated construction cost opinion.
- 36 • **Charter Chase and Goshen Downs** – No updates since our last report. The results of the
37 sewer extension interest survey in 2025 were that 58 properties are definitely interested, 23
38 properties are interested depending on costs, 42 properties are not interested, and 31
39 properties did not respond.

1 **Chapter 94 Reports**

- 2 • We are continuing preparation of the 2025 Chapter 94 Annual Reports. We are on track to
3 submit before the March 31 submission due date.

4 **New Connections**

- 5 • **1344 Morstein Road** – One new home is proposed with a grinder pump and low pressure
6 sewer lateral through an easement across an existing residential property to the existing sewer
7 main in Eastwick Circle. We reviewed a revised plan submission, issued a comment letter,
8 and discussed the approach to resolve outstanding comments with the design engineer.

9 **Other**

- 10 • **GIS Mapping** – We are initiating a limited update of the sewer system mapping in GIS to
11 correct the Waterview manhole and pipe discrepancies noted above and to make it a
12 functional asset management tool for the Public Works Department. Once updated, we will
13 present it to Public Works to discuss additional features and enhancements that can be added,
14 options for web hosting so that it can be available in the field for use by Public Works on
15 repairs and PA One Call locating amongst other things, and the capability for Township staff
16 to update manhole and pipe information themselves.
- 17 • **Sewer Specifications** – We updated the Township sewer lateral standard detail regarding
18 cleanout fittings as requested by Mark Miller.

19
20

21 **3. Big Fish Environmental Services –**

22 The Ridley Creek sewage treatment plant outfall 001 met all effluent limitations regarding water
23 quality for January 2026. All supplemental reports were submitted for December 2025. Caustic
24 usage decreased to 47.99 gallons per day from 62.46 gallons per day last month. This was due to
25 less being required to maintain alkalinity in the sludge holding tanks. Aluminum sulfate solution
26 volumes daily average decreased to 68.61 gallons per day from 71.25 gallons per day. No significant
27 mechanical or operational issues were observed during the SBR treatment process. Sludge
28 dewatering did not encounter any significant mechanical or operational issues. There were no odor
29 complaints during the month.

30
31 **Approval of Minutes**

32 The minutes of the January 12, 2025 meeting were approved as amended.

33
34 **Approval of Invoices**

- 35 1. Walter approved payment of Pennoni Invoices:
36 #1311436 in the amount of \$4,835.25.
37 #1311437 in the amount of \$14,225.50
38 Dana seconded the motion. The motion passed unanimously.
- 39 2. Sean moved to approved payment of the Kappe Associates invoice #25-640-M in the amount of
40 \$4,251.50 (paid). John seconded the motion. The motion passed unanimously.
- 41 3. Dana moved to approve payment of the Gawthrop Greenwood invoice #222087284 in the amount
42 of \$273.00. John seconded the motion. The motion passed unanimously.

1
2 **Financial Reports**

3 Kelly reviewed the following report: YTD January 2026, the Municipal Authority recorded
4 \$4,876.81 in revenues (primarily from Sewer Capital Reserve and Sewer Operating transfers) and
5 \$4,864.00 in expenses (Hershey Mill pump station mission alarm panel installation and engineering
6 expenses). The net result of operations is \$512.81. As of January 31, 2026, the fund balance was
7 \$28,380.03.
8

9 **Old Business -**

10 None
11

12 **Goals**

13 1. It was noted that the change to add “Municipal Authority representative to attend on as needed
14 basis was not done.
15

16 **New Business –**

17 1. Motor Control Center – Mike mentioned that there is going to be a meeting on Wednesday to
18 discuss removal of the Motor Control Center to consolidate everything.

19 2. Hunt Country Pump Station Engineering Proposal- Mike reviewed the design proposal and what
20 changes will be made. The pump station is 45 years old and has only had minimum maintenance
21 done. The estimated cost is \$80,600.00. Bidding will be done in the fall. Dana made a motion
22 authorizing Pennoni to do the Hunt Country Pump Station project. Walter seconded the motion. The
23 motion passed unanimously.

24 3. Capacity Requests – 1354 Paoli Pk, Homeowner: Joe Francis. Proposal is for a grinder pump
25 system and will require an easement from 642 Meadow Dr. Mark explained where this is and who is
26 working with them. He will give the easement to Patrick for review. Walter moved to approve this
27 Capacity Request. John seconded the motion. The motion passed unanimously.
28
29

30 **Any Other Matter -**

31 **Code of Ethics** – John reminded everyone to read the Code of Ethics, sign it and turn it in to the
32 Township.
33

34 **Correspondence-** None
35

36 **Public Comment -** None
37

38 **Adjournment**

39 There being no further business Sean moved to adjourn the meeting. John seconded the motion. The
40 motion passed unanimously. The meeting was adjourned at 7:50 pm.

41 The next regular meeting will be held on Monday, March 9, 2026 at 7:00 p.m.
42

43 Respectfully submitted,
44

45
46 Ruth Kiefer, Recording Secretary



INVOICE

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Mark Miller
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1314790
Invoice Date : 02/27/2026
Project : EGMAU25004
Project Name : Hunt Country Pump
Station Upgrade

For Services Rendered Through 02/15/2026

Kickoff design. Set up field visit for electrical and building interior survey. Coordinated with subcontractor in preparation for force main utility locating. PA One Call request ticket.

Phase Code / Name		Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
01 -- Survey	NTE	\$11,400.00	\$0.00	0.00%	\$0.00	\$0.00
02 -- Design	NTE	\$50,100.00	\$0.00	0.95%	\$478.00	\$478.00
03 -- Permitting	NTE	\$12,800.00	\$0.00	0.00%	\$0.00	\$0.00
04 -- Bld Services	NTE	\$6,300.00	\$0.00	0.00%	\$0.00	\$0.00
Total :		\$80,600.00	\$0.00		\$478.00	\$478.00

Phase: 02 -- Design

Labor

Class	Hours	Rate	Amount
Authority Engineer	0.25	166.00	41.50
Senior Professional	1.50	158.00	237.00
Staff Professional	1.50	133.00	199.50
Labor			478.00

Billing Limits

	Current	Prior	To-Date
Total Billings	478.00	0.00	478.00
Limit			50,100.00
Remaining			49,622.00

Phase Subtotal

\$478.00

Amount Due This Invoice

\$478.00

APPROVED BY: KCS

DATE PAID: _____

CHECK #: _____

CHARGED TO: 07-424-JAOS

Project:	EGMAU25004		
Pennoni Job No.:	Hunt Country Pump Station Upgrade		
Invoice No:	1314790		
Invoice Period:	1/19/2026	to	2/15/2026
Initial Authorization:	\$ 80,600.00	Date:	2/27/2026
Contract Amount:	\$ 80,600.00		
Previously Invoiced:	\$ -		
Current Invoice:	\$ 478.00		
Invoiced to Date (\$):	\$ 478.00		
Invoiced to Date (%):	1%		
Remaining Budget (\$):	\$ 80,122.00		
Remaining Budget (%):	99%		

Budget by Phase:

Phase Name:	Hunt Country Pump Station Upgrade		
Phase Budget:	\$ 80,600.00		
Previously Invoiced:	\$ -		
Current Invoice:	\$ 478.00		
Invoiced to Date (\$):	\$ 478.00		
Invoiced to Date (%):	1%		
Remaining Budget (\$):	\$ 80,122.00		
Remaining Budget (%):	99%		

Comments: Kickoff design. Set up field visit for electrical and building interior survey. Coordinated with subcontractor in preparation for force main utility locating. PA One Call request ticket.



INVOICE

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Mark Miller
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1314791
Invoice Date : 02/27/2026
Project : EGMAU25006
Project Name : Morstein Rd Sewer
Design and
Permitting

For Services Rendered Through 02/15/2026

Continued concept design and preparation of plans including site plans, sewer main profiles, and construction details.

Billing Limits	Current	Prior	To-Date
Total Billings	4,546.75	16,336.25	20,883.00
Limit			25,000.00
Remaining			4,117.00

Labor

	Hours	Rate	Amount
Authority Engineer	.75	166.00	124.50
Staff Professional	33.25	133.00	4,422.25
Totals	34.00		4,546.75
Total Labor			4,546.75
Total this Invoice			<u>\$4,546.75</u>

Outstanding Invoices

Number	Date	Balance
1311437	2/4/2026	14,225.50
Total		14,225.50

APPROVED BY: KCB
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07-424-3130

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

Project: EGMAU25006
Pennoni Job No.: Morstein Rd Sewer Design and Permitting
Invoice No: 1314791
Invoice Period: 1/1/2026 to 2/15/2026
Initial Authorization: \$ 25,000.00 **Date:** 2/27/2026
Contract Amount: \$ 25,000.00
Previously Invoiced: \$ 16,336.25
Current Invoice: \$ 4,546.75
Invoiced to Date (\$): \$ 20,883.00
Invoiced to Date (%): 84%
Remaining Budget (\$): \$ 4,117.00
Remaining Budget (%): 16%

Budget by Phase:

Phase Name: Morstein Rd Sewer Design and Permitting
Phase Budget: \$ 25,000.00
Previously Invoiced: \$ 16,336.25
Current Invoice: \$ 4,546.75
Invoiced to Date (\$): \$ 20,883.00
Invoiced to Date (%): 84%
Remaining Budget (\$): \$ 4,117.00
Remaining Budget (%): 16%

Comments: Continued concept design and preparation of plans including site plans, sewer main profiles, and construction details.



INVOICE

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 Pennoni Associates Inc.
 P.O. Box 827328
 Philadelphia, PA 19182-7328

Mark Miller
 East Goshen Municipal Authority
 1580 Paoli Pike
 West Chester, PA 19380-6199

Invoice No : 1314792
 Invoice Date : 02/27/2026
 Project : EGMAU26001
 Project Name : 2026 General Services

For Services Rendered Through 02/15/2026

January and February Engineer's Reports. Reviewed January and February RCSTP Operator's Reports. Attended January and February MA meetings. Meeting with PW Director and Finance Director regarding 2026 project budgets.

Waterview Pipe Lining: Field inspection of interior manhole conditions and sewer main routing. Continued review of CCTV pipe videos and updating of condition assessment mapping, pipe priorities, cost estimates, and recommendation letter. Initiated bid document preparation.

RCSTP MCC: Field meeting at RCSTP with Lenni Electric and plant operator to evaluate conditions and document wiring for Motor Control Center (MCC) #1. Prepared markups of MCC conditions and circuits. Initiated evaluation and scoping alternatives for potential MCC replacement.

Evaluated 1354 Paoli Pike sewer connection request and feasibility of gravity lateral vs. grinder pump.

Initiated updates to GIS mapping of Township-wide sanitary sewer system including field identified deficiencies with Waterview manholes and pipe routing. Update Township's typical sanitary sewer lateral detail per PW Director comments.

Researched conflicting info from PA DCED on grant award amount for Hershey's Mill Pump Station Upgrade.

Phase Code / Name		Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
01 -- General Engineering Services	NTE	\$46,000.00	\$0.00	20.41%	\$9,390.75	\$9,390.75
02 -- Grants	NTE	\$0.00	\$0.00	0.00%	\$33.25	\$33.25
Total :		\$46,000.00	\$0.00		\$9,424.00	\$9,424.00

Phase: 01 -- General Engineering Services

Labor

Class	Hours	Rate	Amount
Authority Engineer	18.75	166.00	3,112.50
Senior Professional	15.50	158.00	2,449.00
Project Professional	1.00	142.00	142.00
Staff Professional	3.25	133.00	432.25
Associate Professional	5.00	120.00	600.00
Engineering Tech III	22.50	118.00	2,655.00

Labor

9,390.75

Phase Subtotal

\$9,390.75

Phase: 02 -- Grants

APPROVED BY: KUS

DATE PAID: _____

CHECK #: _____

CHARGED TO: 07-424-3130

Continued on next page...

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

Project	EGMAU26001	2026 General Services	Invoice	1314792
Labor				
<u>Class</u>		<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Staff Professional		0.25	133.00	33.25
		<i>Labor</i>		----- 33.25
Phase Subtotal				\$33.25
			Amount Due This Invoice	\$9,424.00

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

Project:	EGMAU26001		
Pennoni Job No.:	2026 General Services		
Invoice No:	1314792		
Invoice Period:	1/1/2026	to	2/15/2026
Initial Authorization:	\$ 46,000.00	Date:	2/27/2026
Contract Amount:	\$ 46,000.00		
Previously Invoiced:	\$ -		
Current Invoice:	\$ 9,424.00		
Invoiced to Date (\$):	\$ 9,424.00		
Invoiced to Date (%):	20%		
Remaining Budget (\$):	\$ 36,576.00		
Remaining Budget (%):	80%		

Budget by Phase:

Phase Name:	2026 General Services		
Phase Budget:	\$ 46,000.00		
Previously Invoiced:	\$ -		
Current Invoice:	\$ 9,424.00		
Invoiced to Date (\$):	\$ 9,424.00		
Invoiced to Date (%):	20%		
Remaining Budget (\$):	\$ 36,576.00		
Remaining Budget (%):	80%		

Comments: January and February Engineer's Reports. Reviewed January and February RCSTP Operator's Reports. Attended January and February MA meetings. Meeting with PW Director and Finance Director regarding 2026 project budgets.

Waterview Pipe Lining: Field inspection of interior manhole conditions and sewer main routing. Continued review of CCTV pipe videos and updating of condition assessment mapping, pipe priorities, cost estimates, and recommendation letter. Initiated bid document preparation.

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INVOICE

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Mark Miller
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1314793
Invoice Date : 02/27/2026
Project : EGMAU26002
Project Name : 2025 Chapter 94
Reports

For Services Rendered Through 02/15/2026

Initiated preparation of RCSTP, West Goshen (Chester Creek), and Westtown Chapter 94 Reports.

Billing Limits	Current	Prior	To-Date
Total Billings	2,635.00	0.00	2,635.00
Limit			7,500.00
Remaining			4,865.00

Labor

	Hours	Rate	Amount
Authority Engineer	.25	166.00	41.50
Staff Professional	19.50	133.00	2,593.50
Totals	19.75		2,635.00
Total Labor			2,635.00
Total this Invoice			<u><u>\$2,635.00</u></u>

APPROVED BY: KCB
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07-424-3130

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

Project:	EGMAU26002		
Pennoni Job No.:	2025 Chapter 94 Reports		
Invoice No:	1314793		
Invoice Period:	1/1/2026	to	2/15/2026
Initial Authorization:	\$ 7,500.00	Date:	2/27/2026
Contract Amount:	\$ 7,500.00		
Previously Invoiced:	\$ -		
Current Invoice:	\$ 2,635.00		
Invoiced to Date (\$):	\$ 2,635.00		
Invoiced to Date (%):	35%		
Remaining Budget (\$):	\$ 4,865.00		
Remaining Budget (%):	65%		

Budget by Phase:

Phase Name:	2025 Chapter 94 Reports		
Phase Budget:	\$ 7,500.00		
Previously Invoiced:	\$ -		
Current Invoice:	\$ 2,635.00		
Invoiced to Date (\$):	\$ 2,635.00		
Invoiced to Date (%):	35%		
Remaining Budget (\$):	\$ 4,865.00		
Remaining Budget (%):	65%		

Comments: Initiated preparation of RCSTP, West Goshen (Chester Creek), and Westlown Chapter 94 Reports.



Gawthrop Greenwood, PC
Attorneys at Law

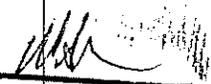
17 East Gay Street, Suite 100 (p) 610-696-8225
West Chester, PA 19381-0562 (f) 610-344-0922
gglaw@gawthrop.com www.gawthrop.com

GAWTHROP GREENWOOD CLIENT INVOICE
Please Mail checks to: P.O. Box 562
West Chester, PA 19381-0562

To Make a Payment with a Credit Card, please visit:
<https://secure.lawpay.com/pages/gawthrop/operating>
Effective February 1, 2025 there will be
a 3% convenience fee on all credit card payments.

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
03/04/2026
Client No: 6604-001M
Invoice No. 222088274

APPROVED BY: 
DATE PAID: _____
CHECK #: _____
CHARGED TO: _____

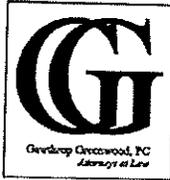
General Authority Services

Fees

		Hours		
02/06/2026	PMM			
	Email from L. Werkheiser regarding Board meeting materials.	0.20		41.00
02/09/2026	PMM			
	Attend Authority Board meeting.	0.80		164.00
	For Current Services Rendered	1.00		205.00
	Recapitulation			
	<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
	Patrick M. McKenna, Esquire	1.00	\$205.00	\$205.00
	Previous Balance			\$273.00
	Total Current Charges			205.00
02/25/2026	Payment			-273.00
	Balance Due			<u>\$205.00</u>

ok Approved 3/5/2026

To ensure proper credit, please write your client number on your check when returning payment.
A finance charge of 1.25% per month (15% annually) may be charged on balances not paid 60 days after the Invoice date.



Gawthrop Greenwood, PC
Attorneys at Law

17 East Gay Street, Suite 100 | (p) 610-696-8225
West Chester, PA 19381-0562 | (f) 610-344-0922
gglaw@gawthrop.com | www.gawthrop.c

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East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
03/04/2026
Client No: 6604M

Previous Balance	Fees	Expenses	Payments	Balance
6604-001 General Authority Services 273.00	205.00	0.00	-273.00	<u>\$205.00</u>

To ensure proper credit, please write your client number on
your check when returning payment.
A finance charge of 1.25% per month (15% annually) may be
charged on balances not paid 60 days after the invoice date.

Memo

To: Municipal Authority
From: Dana Gieder
Re: MA February 2026 YTD Financial Report
Date: March 3, 2026

YTD February 2026, the Municipal Authority recorded \$32,472.60 in revenues (primarily from Sewer Capital Reserve and Sewer Operating transfers and collecting tapping fees) and \$24,197.75 in expenses (Hershey Mill pump station mission alarm panel installation, legal and engineering expenses). The net result of operations is \$8,274.85. As of February 28, 2026, the fund balance was \$36,642.07.

Attached is a complete list of 2026 YTD detailed MA revenues and expenses.

EAST GOSHEN TOWNSHIP
Municipal Authority Fund
YTD FEBRUARY 2026

<u>REVENUE</u>	Account Id	Account Description	Annual Budget	Current YTD	Prior YTD
	07-341-1000	INTEREST EARNINGS	0.00	24.85	32.77
	07-364-1100	C.C. TAPPING FEES	2,300.00	0	0
	07-364-1110	R.C.TAPPING FEES	4,332.72	8,250.00	0
	07-364-1130	CONNECTION FEES - SEWER	563.76	0	0
	07-380-1000	MISCELLANEOUS REVENUE	282.24	0	0
	07-392-0500	TRANSFER FROM SEWER OPERATING	319,438.19	19,946.25	5,296.00
	07-392-0900	TRANSFER FROM SEWER CAP RESERVE	1,033,650.00	4,251.50	33,901.02
	Total Revenue		1,360,566.91	32,472.60	39,229.79
<u>EXPENSES</u>					
	07-424-1400	ADMINISTRATIVE WAGES	47,871.20	0	0
	07-424-3000	MISCELLANEOUS EXPENSE	1,645.71	0	0
	07-424-3110	MUNIC.AUTH.-AUDITING	12,000.00	0	0
	07-424-3130	ENGINEERING SERVICES	61,000.00	19,060.75	-5,841.50
	07-424-3140	LEGAL SERVICES	6,500.00	885.50	1,522.50
	07-424-3700	CHESTER CREEK ENGINEERING	42,000.00	0	0
	07-424-3705	HUNT COUNTY ENGINEERING	95,000.00	0	0
	07-424-7431	CAPITAL PROJ.-ENGINEERING	60,000.00	0	0
	07-424-7490	CAP.REPLACEMENT R.C.	126,000.00	0	0
	07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	0.00	4,251.50	8,346.00
	07-429-1504	HUNT CO PUMP STATION CAPITAL	515,550.00	0	0
	07-429-1505	RCSTP CAPITAL	50,000.00	0.00	25,555.02
	07-429-3700	CHESTER CREEK CAPITAL	343,000.00	0	0
	Total Expenses		1,360,566.91	24,197.75	29,582.02
	Net Result From Operations		0.00	8,274.85	9,647.77

Municipal Authority
YTD Revenues and Expenses thru 2/28/2026

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-341-1000	INTEREST EARNINGS	01/31/26	Revenue Journal	INTEREST EARNED JANUARY 2026	12.81
07-341-1000	INTEREST EARNINGS	02/28/26	Revenue Journal	INTEREST EARNED FEBRUARY 2026	12.04
07-364-1110	R.C.TAPPING FEES	02/20/26	Revenue Journal	INSPECTION FEE R.C. 1427 MILLSTONE	2,000.00
07-364-1110	R.C.TAPPING FEES	02/20/26	Revenue Journal	SEWER INSPECTION FEE R.C. 1427 MILLSTONE	750.00
07-364-1110	R.C.TAPPING FEES	02/20/26	Revenue Journal	INSPECTION FEE R.C. 1411 MILLSTONE	2,000.00
07-364-1110	R.C.TAPPING FEES	02/20/26	Revenue Journal	SEWER INSPECTION FEE R.C. 1411 MILLSTONE	750.00
07-364-1110	R.C.TAPPING FEES	02/20/26	Revenue Journal	INSPECTION FEE R.C. 1417 MILLSTONE	2,000.00
07-364-1110	R.C.TAPPING FEES	02/20/26	Revenue Journal	SEWER INSPECTION FEE R.C. 1417 MILLSTONE	750.00
07-392-0500	TRANSFER FROM SEWER OPERATING	01/21/26	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	612.50
07-392-0500	TRANSFER FROM SEWER OPERATING	02/10/26	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	19,333.75
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/21/26	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	4,251.50
Total Revenue					32,472.60
07-424-3130	ENGINEERING SERVICES	02/10/26	Pay Check: 3584	26-00338 SERV THRU 123125 2025 GEN SERV	4,835.25
07-424-3130	ENGINEERING SERVICES	02/10/26	Pay Check: 3584	26-00339 SERV THRU 123125 MORSTEIN RD	14,225.50
07-424-3140	LEGAL SERVICES	01/21/26	Pay Check: 3581	26-00116 LEGAL SERV DEC 2025 GEN AUTH	612.50
07-424-3140	LEGAL SERVICES	02/10/26	Pay Check: 3583	26-00337 LEGAL SERV JAN 2026 GEN AUTH	273.00
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	01/21/26	Pay Check: 3582	26-00147 HERSHEY MILLS PUMP ST- MISSION	4,251.50
Total Expense					24,197.75
Net Operating					8,274.85



March 5, 2026

EGMAU25007

East Goshen Municipal Authority

Attn: Mark Miller, Public Works Director

1580 Paoli Pike

West Chester, PA 19380

RE: Waterview Sanitary Sewer Pipe Lining Project

Dear Mr. Miller:

We have analyzed sanitary sewer televised videos for the Waterview neighborhood conducted by Pipe Data View in November 2025, and we have prepared the following condition assessment, sewer pipe lining cost opinion, prioritization, and rehabilitation recommendations.

A total of 6,038 linear feet (LF) of sanitary sewers were televised. In general, the asbestos cement pipes are in fair-to-good condition. Very limited infiltration was observed, estimated at only 7,000–10,000 GPD total across all televised pipes. A limited number of pipes had isolated deficiencies including but not limited to cracks, small holes, joint offsets, root intrusion, and sags of less than 50%.

Pennoni also performed investigations of the interior conditions of several accessible sanitary sewer manholes in the neighborhood. All observed manholes were found to be in good structural condition and do not require lining or rehabilitation.

The pipe videos and field verification identified that a number of the sanitary sewer mains have already been rehabilitated with cured-in-place pipe (CIPP) lining. This substantially reduces the amount of sewers for pipe lining and is expected enable the Authority to pipe line nearly all remaining sewer mains in the neighborhood within the 2026 budget framework.

The Authority's 2026 allocated budget for Waterview sewer rehabilitation consists of \$250,000 for pipe lining and \$50,000 for manhole lining. Since manhole lining is not necessary, we propose that all \$300,000 be applied towards pipe lining. This may allow for all Waterview pipe lining to be completed in a single year, rather than over multiple years as had previously been anticipated.

The budget is intended to be used for both engineering and construction. The engineering, scoping, and bid document preparation has been performed under our separate annual General Services task. We recommend budgeting \$25,000 for bid assistance, construction administration, and construction inspections. The construction budget would then be \$275,000.

We have prioritized the pipes based on condition and proximity to each other and propose the scope be bid with Base Bid and Add Items to allow flexibility to award as much scope as possible within budget. The breakdown of proposed Base Bid and Add Items pipes are in the table below. The Base Bid is estimated at \$269,350, and Add Items are estimated at \$33,740.

If authorized to proceed by the Municipal Authority, we anticipate advertising the project on March 13 and March 17 with bids due on April 3. The project award would then be presented for consideration at the April 13 Municipal Authority meeting, with construction tentatively in June-July.

Street Name	Upstream Manhole	Downstream Manhole	Pipe Length (feet)	Pipe Dia. (inches)	No. Laterals	Estimated Cost
Base Bid Items						
Glenbrook Lane	C243	C242	387	8	6	\$25,494
Glenbrook Lane	C244	C243A	100	8	0	\$6,200
Glenbrook Lane	C243A	C243	172	8	3	\$11,414
Glenbrook Lane	C254	C253	25	8	?	\$1550
Lochwood Lane	C204	C203	288	8	2	\$18,606
Lochwood Lane	C274	C273	400	8	5	\$26,050
Lochwood Lane	C380	C368	281	8	1	\$17,672
Lochwood Lane	C381	C380	161	8	2	\$10,482
Lochwood Lane	C382	C381	304	8	4	\$20,848
Waterview Rd	C272	C271	270	8	2	\$17,240
Glenbrook Lane	C253	C209	202	8	2	\$13,024
Lochwood Lane	C276	C275	258	8	1	\$16,246
Waterview Rd	C278	C275	192	8	3	\$12,654
Lochwood Lane	C275	C274	310	8	3	\$19,970
Waterview Rd	C271	C270	413	8	4	\$26,606
Waterview Rd	C268	C267	212	8	1	\$13,394
Waterview Rd	C267	C207	200	8	2	\$12,900
Total Base Bid Items			4,175	8	42	\$269,350
Add Items						
Waterview Rd	C270	C269	281	8	3	\$18,172
Waterview Rd	C269	C207	239	8	3	\$15,568
Total Add Items			520	-	6	\$33,740
Total (Base & Add Items)			4695		48	\$303,090

Based on our evaluation and field findings, we recommend proceeding with the rehabilitation project as outlined above, which will proactively address sanitary sewer deficiencies and extend the useful life of the Waterview sanitary sewer system in a cost-effective manner.

Please call me with any questions or if you require additional information.

Sincerely,

PENNONI ASSOCIATES INC.

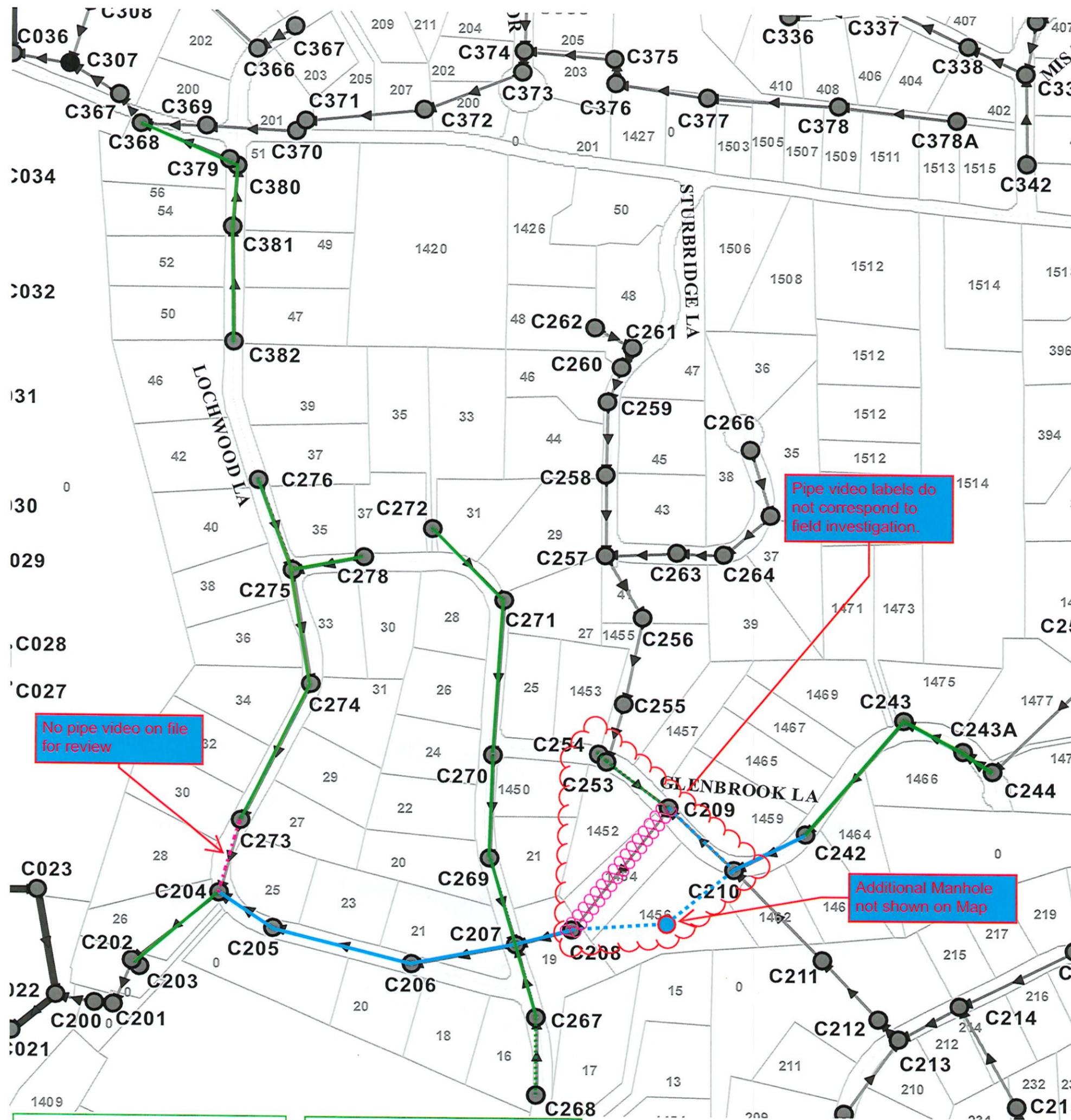


Michael J. Ellis, PE
Associate Vice President

/jdb

Enclosures: Waterview Sewer Lining Exhibit
 Waterview Sanitary Sewer Condition Assessment

cc: Derek Davis, Township Manager
 Lynn Werkheiser, Public Works



No pipe video on file for review

Pipe video labels do not correspond to field investigation.

Additional Manhole not shown on Map

- Proposed Year #1 Pipe Lining**
- C244 > C243A = 387'
 - C243A > C243 = 99'
 - C243 > C242 = 172'
 - C272 > C271 = 269'
 - C382 > C381 = 303'
 - C381 > C380 = 160'
 - C380 > C368 = 281'
 - C274 > C273 = 400'
 - C204 > C203 = 288'
 - C254 > C253 = 25'
 - C253 > C209 = 201'

- Proposed Year #1 Pipe Lining**
- C276 > C275 = 258'
 - C278 > C275 = 191'
 - C275 > C274 = 314'
 - C271 > C270 = 413'
 - C270 > C269 = 281'
 - C269 > C207 = 238'
 - C268 > C267 = 212**
 - C267 > C207 = 200'

Disc	Date	Road	Upstream MH	Downstream MH	Upstream MH material/condition	Upstream MH depth to bench	Direction of Survey	Length Surveyed (ft)	Pipe Size (in)	Pipe Material	Comments
1	1/22/2026	Lochwood Lane	C382	C381	Brick/ Good Condition, minor mortar deterioration	76"	Downstream	303.5	8	Asbestos Cement	(108.2) Tap - Position: 3 (111.4) Tap - Position: 9 (273.3) Tap - Position: 9 (276.8) Tap - Position: 3
1	1/22/2026	Lochwood Lane	C381	C380	Brick/ OK condition, minor I&I through mortar	68"	Downstream	160.5	8	Asbestos Cement	(49.1) Tap - Position: 9 (79.6) Fracture - Position: 1 to 2 (118.2) Tap - Position: 3
1	1/22/2026	Lochwood Lane	C380	C368 (Video says C379)	Brick/ Good Condition	56"	Downstream	280.6	8	Asbestos Cement	(169.5) Fracture - Dripper Infiltration - Position: 11_black discoloration (position 11-5) (171.8) Tap - Position: 9
1	1/22/2026	Lochwood Lane	C276	C275	Could not open		Upstream	257.8	8	Asbestos Cement	(91.6) Tap - Position: 9
1	1/22/2026	Waterview Rd	C278	C275	Could Not Open		Upstream	192	8	Asbestos Cement	(31.4) Tap - Position: 9 (172.8) Tap - Position: 3 (176.1) Tap - Position: 9 (22.3) Tap - Position 3
1	1/22/2026	Lochwood Lane	C275	C274	Could Not Open		Downstream	313.5 (Field Surveyed @ 306.5')	8	Asbestos Cement	(198.2) Tap - Position 9 (201.6) Tap - Position 3 (43.7) Tap - Position: 9 (111.6) Fracture at pipe joint, gasket intruding into pipe. Possible infiltration weeper. Position: 10 to 3 (124.7) Tap - Position: 3 (camera passed without stopping) (208.9) Tap - Position: 9 (224.7) Tap - Position: 3 (305.7) Tap - Position: 9
1	1/22/2026	Lochwood Lane	C274	C273	Brick/ Good Condition	203"	Downstream	400.2	8	Asbestos Cement	(43.7) Tap - Position: 9 (111.6) Fracture at pipe joint, gasket intruding into pipe. Possible infiltration weeper. Position: 10 to 3 (124.7) Tap - Position: 3 (camera passed without stopping) (208.9) Tap - Position: 9 (224.7) Tap - Position: 3 (305.7) Tap - Position: 9
1	1/22/2026	Glenbrook Lane	C244	C243A	Brick/ Good Condition	96"	Upstream	99.1	8	Asbestos Cement	No Taps, no deficiencies (47.6) Fracture, possible infiltration weeper -Position 1
1	1/22/2026	Glenbrook Lane	C243A	C243	Concrete/ Good condition	52"	Downstream	171.8	8	Asbestos Cement	(56.3) Tap - Position: 3 (165.6) Tap - Position: 3 (169.5) Tap - Position: 3 (53.4) Tap - Position: 9 (77.4) Tap - Position: 3 (161.3) Tap - Position: 9 (311.8) Tap - Position: 3 (315.1) Tap - Position: 9 (362.0) Tap - Position: 9 (45.6) Tap - Position: 9 (171.0) Tap - Position: 9
1	1/22/2026	Glenbrook Lane	C243	C242	Brick/ Good Condition	70"	Upstream	387.1	8	Asbestos Cement	(161.3) Tap - Position: 9 (311.8) Tap - Position: 3 (315.1) Tap - Position: 9 (362.0) Tap - Position: 9 (45.6) Tap - Position: 9 (171.0) Tap - Position: 9
1	1/22/2026	Glenbrook Lane	C242	C210	(C242) Brick, Spray lined/ Great condition (C210 - 99" depth, Lined & slightly peeling)	83"	Downstream	207.7	8	Video noted as Asbestos Cement but appears to have been fully CIPPL	(195.3 - 207.7) Camera under water, pipe appears to have been completely full based on staining all around pipe, because of below issue? (207.7) Is this the manhole or a capped lateral ? (207.7) Pressure pipe discharge into sewer with significant flowrate (in manhole?) that is backing up upstream flow? (207.7) Video ends, cannot get past the connecting pipe (manhole)?
1	1/22/2026	Glenbrook Lane	C253	C209	Concrete/ Good condition	103"	Upstream	239.7	8	Video noted as Asbestos Cement but appears to have been fully CIPPL	No Taps, no deficiencies

Disc	Date	Road	Upstream MH	Downstream MH	Upstream MH material/condition	Upstream MH depth to bench	Direction of Survey	Length Surveyed (ft)	Pipe Size (in)	Pipe Material	Comments
1	1/22/2026	Glenbrook Lane	C254	C253	Could not Open		Upstream	201.3 ??? GIS between C253 & C254 shows 25' (verified 25' in field)	8	Asbestos Cement	(14.9) Possible Infiltration stain/surface wearing at joint - Position: 12 to 12 (camera passed without stopping) (24.4) Possible Infiltration stain/surface wearing at joint - Position: 12 to 12 (camera passed without stopping) (62.6) Tap - Position: 3 (80.6) Infiltration weeper at joint - Position: 12 to 12 (148.9) Tap - Position: 3
1	1/22/2026	Glenbrook Lane	C209	C208	Could Not Open	96"	Downstream	257	8	Asbestos Cement but appears to have been fully CIPPL	(210.0) Tap - Position: 3 (camera passed without stopping)
1	1/22/2026	Waterview Rd	C208	C207	Lined/ Good Condition (Appears to connect with C210)	106"	Upstream	151.9	8	Asbestos Cement but appears to have been fully CIPPL	(50.4) Tap - Position: 9 (Capped) (51.3 - 71.8) Camera under water, paned left side wall (71.8 - 100) Camera completely under water
1	11/3/2025	Waterview Rd	C207	C206			Downstream	276.8	8	Asbestos Cement but appears to have been fully CIPPL	(208.7) Tap - Position: 3 (211.9) Tap - Position: 9 (0 - 14) Camera completely under water (92.4) Tap - Position: 3 (156.3) Tap - Position: 9 (281.3) Tap - Position: 3 (311 - 323.6) Camera completely under water (345.6) Tap - Position: 9 (348.9 - 354.7) Camera completely under water (94) Tap - Position: 3 . Infiltration runner approx 2 feet up lateral (2-3 gpm)
1	11/3/2025	Waterview Rd	C206	C205			Downstream	354.7	8	Asbestos Cement but appears to have been fully CIPPL	(158.2) Tap - Position: 9 (282.9) Tap - Position: 3 (347.1) Tap - Position: 9 (353.2 - 362.7) Pipe sag, approx 50-60% full of water. Creating possible upstream blockages based on first video?
1	11/3/2025	Waterview Rd	C206	C205			Downstream	371.4	8	Asbestos Cement but appears to have been fully CIPPL	(13.2) Tap - Position: 3 (118.3) Tap - Position: 3 (149.8) Root ball creating partial blockage (about 25%) of flow area (149.8 - 192.7) Material changed - PVC (65.0) Tap - Position: 3 (78.7) Tap - Position: 9 (224.2) Tap - Position: 9 (278.1) Tap - Position: 3 (403.1 - 406.0) Material changed - PVC (412.9) - Offset joint, possible pipe settlement, causing approx 1" of standing water in pipe before manhole discharge - CONSIDER EXCAVATED REPAIR BEFORE PIPE LINING
1	11/3/2025	Waterview Rd	C272	C271			Upstream	269	8	Asbestos Cement / PVC	(101.7) Tap - Position: 3 (176.3) Tap - Position: 9 (250.3) Tap - Position: 3
1	11/3/2025	Waterview Rd	C271	C270			Downstream	412.9	8	Asbestos Cement / PVC	(148.9) Tap - Position: 3 (152.2) Tap - Position: 9 (198.5) Tap - Position: 3
1	11/3/2025	Waterview Rd	C270	C269			Downstream	280.9	8	Asbestos Cement	
1	11/3/2025	Waterview Rd	C269	C207			Downstream	238.4	8	Asbestos Cement	
1	11/3/2025	Waterview Rd	C268	C267			Downstream	211.9	8	PVC/ Asbestos Cement	

Disc	Date	Road	Upstream MH	Downstream MH	Upstream MH material/condition	Upstream MH depth to bench	Direction of Survey	Length Surveyed (ft)	Pipe Size (in)	Pipe Material	Comments
1	11/3/2025	Waterview Rd	C267	C207			Downstream	200	8	Asbestos Cement	(6.2) Tap - Position: 9 (148.8) Tap - Position: 3
1	11/3/2025	Lochwood Lane	C205	C204			Downstream	171.9	8	Asbestos Cement but appears to have been fully CIPPL	Video noted as Asbestos Cement but appears to have been fully CIPPL (98.4) Tap - Position: 3 (103.5) Tap - Position: 3 (Capped) (106.6) Tap - Position: 9
1	11/3/2025	Lochwood Lane	C204	C203			Downstream	287.6	8	Asbestos Cement	(190.3) Tap? - Position: 3 (camera passed without stopping) - Is it active? (203.5) Patched hole/tap - Position: 12-2 (272.7) Possible hole or tap (camera passed without stopping) - Position 10 to 2
2	11/4/2025	Lochwood Lane	C273	C204			Downstream		8	Asbestos Cement	