

EAST GOSHEN MUNICIPAL AUTHORITY

April 10, 2023

7:00

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE

- a. Ask if anyone will be taping the meeting

2. CHAIRMAN'S REPORT/OTHER MEMBERS' REPORTS

3. SEWER REPORTS

- a. Director of Public Work's Report
- b. Pennoni Engineer's Report
- c. Big Fish Environmental Report

4. APPROVAL OF MINUTES

- a. March 13, 2023

5. APPROVAL OF INVOICES

• Pennoni	Invoice #1163612	\$24,365.50
• Pennoni	Invoice #1163613	\$2,614.75
• Pennoni	Invoice #1163615	\$1,654.50
• Delaware River Basin Commission	Invoice #232174	\$715.00 (paid 4/3/23)
• Maillie	Invoice #93285	\$8,000.00 (paid 4/3/23)
• Gawthrop Greenwood	Invoice #270489	\$723.50
• PA Municipal Authorities	Invoice #212	\$880.25 (paid 1/27/23)

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. March

8. OLD BUSINESS

9. **2023 Goals:**

Goal	Status
Ridley Creek plant compliance	January, February, & March were in compliance and met all requirements.
Continue to monitor upgrades at WGSTP and Westtown Way Pump Station	Ongoing. Generator and transformers are in place. Actively working on the building.
Continue to implement infiltration and inflow for the sewer system	Ongoing.
Caustic Soda Project	Pads poured and in process of running piping.
Replace sewer line - Hershey Mill Estate trunk line	Pipes are all installed. Still need to do restoration and mandrel and air tests.
Two new meters for Ridley Creek collection	Blacksmith Shop (2023) Line Road – (2024)

10. **NEW BUSINESS**

- a. Reservoir Rd Sanitary Inspection Report from Pennoni (MA needs to approve.)
- b. Supplee Valley CIPPL Scope and Cost Opinion Update from Pennoni
- c. Acknowledge Chapter 94 Annual Reports: (1) Ridley Creek, (2) West Goshen, (3) Westtown, (4) Hershey's Mill Village & (5) Ridley Creek Willistown (see Mark Miller for reports)

11. **CAPACITY REQUESTS**

12. **ANY OTHER MATTER**

13. **CORRESPONDENCE AND REPORTS OF INTEREST**

14. **PUBLIC COMMENT**

15. **ADJOURNMENT**

**EAST GOSHEN MUNICIPAL AUTHORITY
EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199**

To: Municipal Authority

From: Mark Miller

Re: April 10, 2023, Monthly Report

Monthly Flows: The average daily flow to West Goshen was 781,951 per day.

Meters: The meters were read on a daily basis with no problems to report.

C.C. Collection: The pump stations were visited on a daily basis. Routine maintenance was performed: we cleaned the wet well and checked oil levels on the generator and muffin monster. We received an odor complaint in White Chimneys. The crew went out and pulled two manholes and installed charcoal filters. As you may know, the Ashbridge Pump Station ties into that development and the effluent tends to go septic. That is the odor that they detect.

C.C. Interceptor: Mike Ellis will be putting a package together for the repairs.

R.C. Collection: The pump stations were visited on a daily basis. Wet was washed down and oil levels were checked in the equipment. We had one complaint for a loose manhole cover in Hunt Country. The riser ring was broken so we removed the ring and installed a new cover.

Ridley Creek Plant: Routine maintenance was performed. We poured the pad for the caustic soda tank and we are waiting for the concrete to cure before we set the tank. The new sampler arrived last week and will be placed in service. Lenni Electric was called to investigate a power issue with the blowers and they found that a relay had gone bad. The relay was replaced and two were ordered for the shelf.

Alarms: 17 were received and most were due to power outages.

PA One Call: We received 116 PA One Calls for the month of March.

Monthly Rainfall: 1.85 inches of rain for the month of March

Lateral Repairs or Caps: We replaced six caps.



Executive Summary

The Ridley Creek sewage treatment plant outfall 001 is anticipated to meet all effluent limitations regarding water quality for March 2023. All supplemental reports were submitted for the month of February 2023 with the eDMR Discharge to the Applebrook irrigation lagoon remaining offline. Chemical usage utilized for total alkalinity remained consistent with previous months. Aluminium sulphate solution volumes decreased slightly to a daily average of 71.6 compared to the previous month at 75.4 gpd to achieve phosphorus removal. No significant mechanical or operational issues were observed during the sludge dewatering equipment or SBR treatment process. Sludge dewatering increased from 401,730 to 553,982 gallons the month. There were no odor complaints during the month.

Table 1

March 2023- Final Effluent - Outfall 001													
NPDES Permit Discharge Limitations	Flow	CBOD ₅		Total Nitrogen		TSS		NH ₄ -N		Total Phosphorus		Fecal Coliform	
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	Average	10	62	Report	Report	10	62	2.5	44	0.5	3	200	1,000
	Inst. Max	20	94			15	94	5		1			
Sample Date													
March 7, 2023	0.292	2.0	4.9	10.90	26.5	5.6	13.6	0.10	0.24	0.11	0.27	18	1.2553
March 14, 2023	0.313	2.0	5.2	6.20	16.2	8.8	23.0	0.10	0.26	0.14	0.37	10	1.0000
March 21, 2023													
March 28, 2023													
Average	0.303	2.0	5.0	8.55	21.4	7.2	18.3	0.10	0.25	0.13	0.32	14	1.1276
Minimum	0.292	2.0	4.9	6.20	16.2	5.6	13.6	0.10	0.24	0.11	0.27	10	1.0000
Maximum	0.313	2.0	5.2	10.90	26.5	8.8	23.0	0.10	0.26	0.14	0.37	18	1.2553

Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported for outfall 001 March 2023. The month-to-date average total phosphorus was reported as 0.13 mg/L compared to the permit limitation of 0.50 mg/L. The TSS samples were consistently in single digits. The results remain below the weekly maximum of 15 mg/L. The draft month to date average TSS is reported as 7.2 mg/L compared to the discharge limitation of 10 mg/L.

The final effluent test results demonstrate that the biological treatment performed well during March. The sequencing batch reactors (SBRs) numbered 2, 3, and 4 were in service. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS, and total phosphorus. Daily analysis of the final effluent flow equalization grab sample for total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Discharge to the Applebrook irrigation lagoon, outfall 002 remains offline.

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility generally remained within the design concentration and organic loading values. The TSS and CBOD₅ monthly average weekly concentrations were generally observed to be less than the design parameters for the treatment process.

Table 2 presents the pollutant data for the influent wastewater collected at the doghouse manhole during March 2023.

Table 2

March 2023 - Influent Wastewater													
Design Basis	Flow	BOD ₅		CBOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	NA	NA	320	2,001	32	200	48	301	9.1	57
Sample Date													
March 7, 2023	0.351	270	790	219	641	250	732	34.9	102	47.3	138	5.5	16.0
March 14, 2023	0.424	220	778	225	796	198	700	31.7	112	43.3	153	5.03	17.8
March 21, 2023													
March 28, 2023													
Average	0.388	245	784	222	718	224	716	33	107	45.3	146	5.25	16.9
Minimum	0.351	220	778	219.0	641	198	700	32	102	43.3	138	5.03	16.0
Maximum	0.424	270	790	225	796	250	732	35	112	47.3	153	5.47	17.8

The foam on the SBR surface remained consistent during March, with approximately 15% to 20% coverage of the surface area. The foam thickness is approximately 2 inches and is light to medium brown. These conditions may contribute to a decrease in clarity within the final effluent post-flow equalization basins; however, the clarity is improved after passing through the disc filters. The operation strategy is to lower the MLSS to maintain a F:M ratio of 0.06 while ensuring the ammonia effluent discharge concentration remains within the seasonal limit of 2.5 mg/L.

PA DEP

No activity

Pennoni Associates

Continued to provide for the Chapter 94 report.

Chemical Usage:

March 2023		
Chemical	Daily Average	Total Monthly
Soda Ash, pounds	285	9,150
Aluminium Sulfate solution, gal	71.4	2,221
Sludge Dewatering, gal*	20,181	443,982

*The centrifuge was operated 22 days during the month.

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.

March 2023 - Influent Wastewater									
Design Basis	Flow	BOD ₅		CBOD ₅		TSS		NH ₄ -N	
	MGD Average	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
		335	2,098	NA	NA	320	2,001	32	200
Sample Date									
March 7, 2023	0.351	270	790	219	641	250	732	34.9	102
March 14, 2023	0.424	220	778	225	796	198	700	31.7	112
March 21, 2023									
March 28, 2023									
Average	0.388	245	784	222	718	224	716	33	107
Minimum	0.351	220	778	219.0	641	198	700	32	102
Maximum	0.424	270	790	225	796	250	732	35	112

**EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT**

April 5, 2023

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic Soda Conversion – We will provide assistance as needed during the Township's construction of the system.
- UV Disinfection System – The system is being fabricated, and delivery was originally planned in late February or early March 2023. We have re-requested a schedule update from the supplier so that we can coordinate bidding for the construction installation work.

An updated tentative schedule for the mechanical and electrical contracts' bidding follows; this schedule is subject to change depending upon the supplier's scheduling.

- Bid Advertisement – mid-to-late April
 - Bids Due – mid-to-late May
 - Award Consideration – June 12, 2023 at the Municipal Authority Meeting
- Generator #2 Replacement – We reviewed and approved a revised equipment submittal from the supplier, Premium Power Services for the Cummins' 500 kW diesel generator on March 8. The generator was released for fabrication thereafter. The lead times on the generator and ATS are 43 weeks and 22 weeks respectively so we expect delivery of the entire system around January 2024. We will prepare design for the electrical installation and any slab replacement/modifications in the summer 2023.
- Operating Cost Analysis – As requested by the MA, we are evaluating the operating costs of the RCSTP in an effort to benchmark against other WWTP's. Dave Ware has provided financial data that we will analyze, and we will provide our observations upon completion of the analysis.

Sanitary Sewer Pipe Rehab

- Chester Creek Sewer Rehab – We updated the construction scope and cost estimate for pipe lining the remainder of the asbestos cement sewers in the Supplee Valley neighborhood. A summary email with map and cost opinion was submitted to the Township.

We also reviewed the inspection videos of a portion of the Chester Creek interceptor along Reservoir Road that was recently televised. Our observations and recommendations were separately submitted to the Township.

We had previously intended to bid the Supplee Valley project in March 2023; however the project approach is being modified based upon the Chester Creek interceptor investigation. There is severe infiltration in several locations in the interceptor that are now the primary priority since we are not aware of any severe leaks in Supplee Valley. It should be noted that the most recent videos in Supplee Valley are three years old, so there could be issues that have emerged, but the interceptor work is the immediate priority.

The Township is going to commission a TV investigation of the remainder of the Chester Creek interceptor to at least West Chester Pike in April. We will review and identify any additional needed

repairs. A bid package will then be developed for manhole-to-manhole pipe lining, pipe lining point repairs, pipe and manhole injection grouting, and other applicable rehabilitation along the Chester Creek interceptor. Pipe lining in Supplee Valley will be included to the extent that budget is available, likely as Add Items in the bid.

It is our understanding that there is \$300,000 available for the work this year (\$150,000 in 2023 and \$150,000 carried over from 2022). We are currently anticipating that the interceptor work could be half of the budget, leaving approximately \$150,000 for Supplee Valley. This would address approximately half of the remaining unlined sewers in the neighborhood. The budget and scope will be defined more precisely upon completion of the remaining interceptor TV inspection.

- Hershey's Mill Estates – Sanitary sewer piping and manhole installations were completed on March 3. The storm sewer construction and temporary restoration was completed the following week. We performed inspections during the work, and we performed a punchlist inspection thereafter. The contractor is planning to return the week of April 10 to perform manhole vacuum testing, sewer pipe pressure testing and TV inspections, punchlist work, and permanent restoration.

We received Payment Application #2, which is currently under review.

As previously discussed, a significant quantity of additional stone bedding and backfill was authorized for use during construction to overexcavate to a suitable subgrade material and to provide more protection above the piping. The total as-built purchased volume of stone was approximately \$105,000 as compared to an original estimate of \$38,000. The project is still within budget, and the additional stone will provide improved pipe protection, stability, and life expectancy.

- Ridley Creek Exposed Sewer Rehab – A full PADEP permit application has been prepared and will be submitted to PADEP in follow-up to the emergency authorization now that construction has been completed.

New Connections

- 1010 Hershey Mill Road (Moser) – We responded to questions from the design consultant regarding the procedure for the Sewage Facilities Planning Module submission and review.
- 301 Reservoir Road (5-Lot Residential Subdivision) – The design consultant submitted a plan for the proposed gravity sewer extension that we are currently reviewing.

Chapter 94 Reports

- We completed the 2022 reports for the Ridley Creek, Chester Creek (West Goshen), and Westtown systems. We submitted the Ridley Creek directly report to DEP, and we submitted the Chester Creek and Westtown Tributary reports to West Goshen Township and Westtown Township respectively. East Goshen's existing and projected treatment and conveyance needs for all three systems are all well within available and permitted capacities.

END OF REPORT

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
March 13, 2023

The East Goshen Township Municipal Authority held their regular meeting on Monday, March 13, 2023 at 7:00 pm. at the Township Building. Members in attendance are indicated in

BOLD:

Kevin Cummings, Chairman
Dana Pizarro, Vice Chairman
Jack Yahraes
Carmen Battavio
Walter Wujcik

Also in attendance were: Mark Miller (Director of Public Works), Mike Ellis (Pennoni representative), Ellen Koopman (Attorney), Dave Ware (Finance Director), Michael Lynch (Township Supervisor) and Scott Towler (Big Fish) on the phone.

COMMON ACRONYMS:

<i>BFES – Big Fish Environmental Services</i>	<i>MA- Municipal Authority</i>
<i>BOS – Board of Supervisors</i>	<i>NPDES – National Pollutant Discharge Elimination System</i>
<i>CB – Conservancy Board</i>	<i>PC – Planning Commission</i>
<i>DEP – Department of Environmental Protection</i>	<i>PM – Prevention Maintenance</i>
<i>EPA – Environmental protection Agency</i>	<i>PR – Park & Recreation Board</i>
<i>HC – Historical Commission</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
<i>I&I – Inflow & Infiltration</i>	<i>SBR – Sequencing Batch Reactor</i>
<i>LCSTP – Lockwood Chase Sewer Treatment Plant</i>	<i>SSO – Sanitary System Overflow</i>
<i>PWD – Public Works Department</i>	<i>WAS – Waste Activated Sludge</i>

Call to Order & Pledge of Allegiance

Kevin called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. He asked for a moment of silence for our First Responders and Military. He asked if anyone would be recording the meeting. There was no response.

Chairman's Report

1. Jack mentioned that the Authority should send a letter to Sue Smith, Mark's Administrative Assistant, thanking her for her years of helping Mark and congratulations on her retirement.

SEWER REPORTS

1. Director of Public Works, Mark Miller's report for March 13, 2023

Monthly Flows – The average daily flow to West Goshen was 795,00 per day.

Meters: The meters were read on a daily basis. The meter cabinet at Westtown Way was changed out due to its poor condition.

C.C. Collection: All pump stations were visited on a daily basis. Wet wells were washed down and equipment oil levels were checked. We had no interruptions in service. We cleaned and televised the White Chimneys and Waterview Farms systems. Both were ok and we did not locate any INI.

C.C. Interceptor: We were able to clean and televise the creek crossing at Reservoir and Strasburg roads. A sag was noticed in the line next to the single bridge, which required additional cleaning. No INI was found. We still need to get together with Mike Ellis to come up with a plan of attack for the interceptor repairs.

R.C. Collection: The pump stations were visited on a daily basis and wet wells were cleaned. Since the replacement of the Hershey Mill trunk line, the flows have dropped.

Ridley Creek Plant: Public Works performed various maintenance items. The guys have started on the pad for the caustic soda tank.

Alarms: 20 were received and all were weather related.

PA 1 Calls: We received 100 PA One Calls for the month of February. Five were for lateral repairs by local plumbers.

Monthly Rainfall: 2.55 inches of rain for the month of February.

Lateral Repairs or Caps: 11

2. Pennoni Engineer's Report dated March 6, 2023

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic Soda Conversion – We will provide assistance as needed during the Township's construction of the system.
- UV Disinfection System – The system is being fabricated, and delivery was originally planned in late February or early March 2023. We have requested a schedule update from the supplier and will request delivery occur in the May timeframe per the schedule below.

The tentative schedule for the mechanical and electrical contracts' bidding follows; this schedule is subject to being extended depending upon the supplier's scheduling.

- Bid Advertisement – mid-March
- Bids Due – early April
- Award Consideration – April 10, 2023 at the Municipal Authority Meeting
- Generator #2 Replacement – The generator was ordered in February. We reviewed the equipment submittals from the supplier, Premium Power Services for the Cummins' 500 kW diesel generator, and we returned comments. A supplemental submittal was provided that is currently under review. The lead times on the generator and ATS are 43 weeks and 22 weeks respectively.

- Operating Cost Analysis – As requested by the MA, we are evaluating the operating costs of the RCSTP in an effort to benchmark against other WWTP's. Dave Ware has provided financial data that we will analyze, and we will provide our observations upon completion of the analysis.

Westtown Way Pump Station

- No update since our last report.

Sanitary Sewer Pipe Rehab

- Supplee Valley – We have updated the construction scope and construction cost estimate for pipe lining the remainder of the asbestos cement sewers in the neighborhood and will submit to the Township for review. We anticipate bidding the project in March 2023 with construction in mid-2023.
- Hershey's Mill Estates – We reviewed additional shop drawings, coordinated with the Township to purchase additional piping and fittings, and provided additional pre-construction and construction coordination assistance. We performed part-time inspections during site preparation and nearly full-time inspection during pipe and manhole installation work.

The contractor, Joao & Bradley, mobilized on January 16 and started pipe installation at the downstream end on February 8. They completed all of the sanitary sewer piping and manhole installations on March 3, well ahead of the projected schedule. A significant quantity of additional stone bedding and backfill has been used to overexcavate to a suitable subgrade material and to provide more protection above the piping. The additional quantity of stone is approximately 2.2 times that which was originally designed. The additional stone material cost is approximately \$50,000, which is borne directly by the Township. It does not have any impact on the contractor's construction cost.

They began construction of the storm sewer headwall and other storm sewer replacements on March 6. They expect to be complete storm sewer work and most site restoration by March 10.

We also processed Payment Application #1.

- Ridley Creek Exposed Sewer Rehab – A full PADEP permit application has been prepared and will be submitted to PADEP in follow-up to the emergency authorization now that construction has been completed.
- Chester Creek Interceptor – Mark provided TV videos of the recent cleaning and televising of the downstream end of the interceptor that we will review to evaluate need for repairs.

New Connections

- No activity by Pennoni since our last report.

Chapter 94 Reports

- We continued preparation of the 2022 reports for the Ridley Creek, Chester Creek (West Goshen), and Westtown systems.

1
2
3 **3. Big Fish Environmental Services –**

4 The Ridley Creek sewage treatment plant outfall 001 is anticipated to meet all effluent limitations
5 regarding water quality for February 2023. All supplemental reports were submitted for the month of
6 January 2023 with the eDMR. Discharge to the Applebrook irrigation lagoon remains offline.
7 Chemical usage utilized for total alkalinity remained consistent with previous months. Aluminum
8 sulfate solution volumes increased slightly to a daily average of 75.4 compared to the previous month
9 at 74.4 gpd to achieve phosphorus removal. No significant mechanical or operational issues were
10 observed during the sludge dewatering equipment or SBR treatment process. Sludge dewatering was
11 reduced from 524,613 to 401,730 gallons per month. There were no odor complaints during the
12 month.
13

14 **Approval of Minutes**

15 The minutes of the February 13, 2023 meeting were approved as amended.
16

17 **Approval of Invoices**

18 1. Dana moved to approve payment of the following Pennoni invoices:

- | | |
|--------------------------------|-------------|
| 19 a. Pennoni Invoice #1158745 | \$ 4,144.21 |
| 20 b. Pennoni Invoice #1158746 | \$ 6,936.75 |
| 21 c. Pennoni Invoice #1158747 | \$ 3,482.75 |
| 22 d. Pennoni Invoice #1158748 | \$ 2,246.00 |

23 Walter seconded the motion. The motion passed unanimously.

24 2. Carmen moved to approve payment of the following Gawthrop Greenwood invoices:

- | | |
|--|--------------------|
| 25 a. Gawthrop Greenwood Invoice #268729 | \$ 1,203.00 (paid) |
| 26 b. Gawthrop Greenwood Invoice #269208 | \$ 1,009.50 |

27 Jack seconded the motion. The motion passed unanimously.

28 3. Walter moved to approve payment of the Maillie invoice #92230 in the amount of \$1,793.00.

29 Dana seconded the motion. The motion passed unanimously.
30
31

32 **Liaison Reports**

33 None
34

35 **Financial Reports**

36 Dave mentioned that we are on point with the budget for Hershey Mill Estates which is the largest
37 item. He spoke about grants which are being delayed.

38 The Municipal Authority has an article in the next newsletter which will be available in April.

39 Dave wants to do a 10 year projection. Dana pointed out that Mark has a timeframe on the inventory.

40 Carmen asked if some items can be pulled out so not everything hits at the same time.
41

42 **Old Business**

43 None
44

45 **Goals**

46 The Goals were reviewed.
47

1 **New Business**

2 **1. Maillie Audit** – Dave commented that there were no issues and everything was ok in their
3 management letter.
4

5 **Capacity Requests**

6 None
7

8 **Any Other Matter** –

9 Mark was thanked for interfacing with the residents of Hershey Mill Estates. Several notes of thanks
10 were received.
11

12 **Correspondence-** None
13
14

15 **Public Comment -** None
16
17

18 **Adjournment**

19 There being no further business Jack moved to adjourn the meeting. Walter seconded the motion.

20 The motion passed unanimously. The meeting was adjourned at 7:35 pm.

21 The next regular meeting will be held on Monday, April 10, 2023 at 7:00 pm.
22

23 Respectfully submitted,
24
25

26 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 : 1163612
Invoice Date : 04/05/2023
Project : EGMAU21004
Project Name : HM Estates Sewer
Design & Permitting

For Services Rendered Through 03/19/2023

Construction Admin & Inspections: Performed daily on-site construction observation during sanitary pipe and manhole replacement/installation, storm sewer work, and restoration; monitored stone delivery quantities and costs during construction and office engineering support; processed Pay Application #1; and designed field change for stormwater endwall footing enlargement.

Phase Code / Name		Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
01 -- Wetland & Watercourse Investigation		\$6,750.00	\$6,750.00	100.00%	\$6,750.00	\$0.00
02 -- Phase I Bog Turtle Habitat Assessment		\$6,750.00	\$6,750.00	100.00%	\$6,750.00	\$0.00
03 -- Survey		\$17,200.00	\$17,200.00	100.00%	\$17,200.00	\$0.00
04 -- Design		\$26,100.00	\$26,100.00	100.00%	\$26,100.00	\$0.00
05 -- Permitting		\$8,000.00	\$8,000.00	100.00%	\$8,000.00	\$0.00
06 -- Property Line Stakeout	est.	\$5,000.00	\$7,520.50		\$7,520.50	\$0.00
07 -- Geotechnical	NTE	\$10,000.00	\$6,271.25	62.71%	\$6,271.25	\$0.00
08 -- Bid Assistance	NTE	\$9,690.50	\$9,690.50	100.00%	\$9,690.50	\$0.00
09 -- Construction Admin & Inspection	NTE	\$60,000.00	\$17,013.25	68.96%	\$41,378.75	\$24,365.50
Total :		\$149,490.50	\$105,295.50		\$129,661.00	\$24,365.50

Phase: 09 -- Construction Admin & Inspection

Labor Class	Hours	Rate	Amount
Authority Engineer	6.25	149.00	931.25
Senior Professional	1.50	145.00	217.50
Project Professional	1.50	128.00	192.00
Staff Professional	8.50	117.00	994.50
Associate Professional	132.75	111.00	14,735.25
Sr. Eng Tech	62.50	107.00	6,687.50
Engineering Tech	6.75	90.00	607.50
Labor			24,365.50

Phase Subtotal

\$24,365.50

Amount Due This Invoice

\$24,365.50

4/6/23

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	EGMAU21004	HM Estates Sewer Design & Permitting	Invoice	1163612
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Outstanding Invoices

Number	Date	Balance
1150405	12/29/2022	2,951.60
Total		2,951.60

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

West Goshen HM Estates Sewer Design Permitting
EGMAU21004 Invoice Summary
Invoice Date 4/5/2023

Project:	EGMAU21004		
Pennoni Job No.:	HM Estates Sewer Design & Permitting		
Invoice No:	1163612		
Invoice Period:	2/13/2023	to	3/19/2023
Initial Authorization:	\$ 64,800.00	Date:	4/5/2023
Contract Amount:	\$ 149,490.50		
Previously Invoiced:	\$ 105,295.50		
Current Invoice:	\$ 24,365.50		
Invoiced to Date (\$):	\$ 129,661.00		
Invoiced to Date (%):	87%		
Remaining Budget (\$):	\$ 19,829.50		
Remaining Budget (%):	13%		

Budget by Phase:

Phase Name:	HM Estates Sewer Design & Permitting		
Phase Budget:	\$ 149,490.50		
Previously Invoiced:	\$ 105,295.50		
Current Invoice:	\$ 24,365.50		
Invoiced to Date (\$):	\$ 129,661.00		
Invoiced to Date (%):	87%		
Remaining Budget (\$):	\$ 19,829.50		
Remaining Budget (%):	13%		

Comments: Construction Admin & Inspections: Issued Notice to Proceed with Construction; reviewed construction submittals; calculated estimated design stone quantities for monitoring purposes; coordinated with Township for purchase of additional quantities of pipe materials; monitored stone delivery quantities during construction; finalized and submitted GP-8 permit application to PADEP for additional wetlands crossing; construction schedule coordination; responded to contractor's RFIs; and performed daily on-site construction observation for mobilization and site preparation from 1/16/2023 thru 2/7/2023 and for sewer pipe and manhole construction from 2/8/2023 thru 2/10/2023.



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 : 1163613
Invoice Date : 04/05/2023
Project : EGMAU23001
Project Name : 2023 General
Services

For Services Rendered Through 03/19/2023

March Engineer's Report; reviewed March RCSTP operator's report. Reviewed and approved vendor responses to RCSTP Generator #2 replacement equipment shop drawings for fabrication initiation. Reviewed sewer inspection videos for Chester Creek Interceptor and evaluated repair alternatives. Coordinated with Design Consultant for 301 Reservoir Rd 5-lot residential development sewer connection concept design.

Billing Limits	Current	Prior	To-Date
Total Billings	2,614.75	5,776.75	8,391.50
Limit			42,000.00
Remaining			33,608.50

Labor

	Hours	Rate	Amount
Authority Engineer	8.00	149.00	1,192.00
Senior Professional	6.00	145.00	870.00
Staff Professional	4.25	117.00	497.25
Associate Professional	.50	111.00	55.50
Totals	18.75		2,614.75
Total Labor			2,614.75
Total this Invoice			<u>\$2,614.75</u>

4/6/23 ok

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

2023 General Services
EGMAU23001Invoice Summary
Invoice Date 4/5/2023

Project: EGMAU23001
Pennoni Job No.: 2023 General Services
Invoice No: 1163613
Invoice Period: 2/13/2023 to 3/19/2023
Initial Authorization: \$ 42,000.00 **Date:** 4/5/2023
Contract Amount: \$ 42,000.00
Previously Invoiced: \$ 5,776.75
Current Invoice: \$ 2,614.75
Invoiced to Date (\$): \$ 8,391.50
Invoiced to Date (%): 20%
Remaining Budget (\$): \$ 33,608.50
Remaining Budget (%): 80%

Budget by Phase:

Phase Name: 2023 General Services
Phase Budget: \$ 42,000.00
Previously Invoiced: \$ 5,776.75
Current Invoice: \$ 2,614.75
Invoiced to Date (\$): \$ 8,391.50
Invoiced to Date (%): 20%
Remaining Budget (\$): \$ 33,608.50
Remaining Budget (%): 80%

Comments: March Engineer's Report; reviewed March RCSTP operator's report. Reviewed and approved vendor responses to RCSTP Generator #2 replacement equipment shop drawings for fabrication initiation. Reviewed sewer inspection videos for Chester Creek Interceptor and evaluated repair alternatives. Coordinated with Design Consultant for 301 Reservoir Rd 5-lot residential development sewer connection concept design.



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 : 1163615
Invoice Date : 04/05/2023
Project : EGMAU23002
Project Name : 2022 Chapter 94
Reports

For Services Rendered Through 03/19/2023

Continued preparation of Chapter 94 reports

Billing Limits	Current	Prior	To-Date
Total Billings	1,654.50	2,246.00	3,900.50
Limit			9,000.00
Remaining			5,099.50

Labor

	Hours	Rate	Amount
Authority Engineer	1.50	149.00	223.50
Staff Professional	7.25	117.00	848.25
Associate Professional	5.25	111.00	582.75
Totals	14.00		1,654.50
Total Labor			1,654.50
Total this Invoice			\$1,654.50

4/6/23 ok MSM

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

2022 Chapter 94 Reports
EGMAU23002Invoice Summary
Invoice Date 4/5/2023

Project: EGMAU23002
Pennoni Job No.: 2022 Chapter 94 Reports
Invoice No: 1163615
Invoice Period: 2/13/2023 to 3/19/2023
Initial Authorization: \$ 9,000.00 **Date:** 4/5/2023
Contract Amount: \$ 9,000.00
Previously Invoiced: \$ 2,246.00
Current Invoice: \$ 1,654.50
Invoiced to Date (\$): \$ 3,900.50
Invoiced to Date (%): 43%
Remaining Budget (\$): \$ 5,099.50
Remaining Budget (%): 57%

Budget by Phase:

Phase Name: 2022 Chapter 94 Reports
Phase Budget: \$ 9,000.00
Previously Invoiced: \$ 2,246.00
Current Invoice: \$ 1,654.50
Invoiced to Date (\$): \$ 3,900.50
Invoiced to Date (%): 43%
Remaining Budget (\$): \$ 5,099.50
Remaining Budget (%): 57%

Comments: Continued preparation of Chapter 94 Reports.

DELA045



Delaware River Basin Commission
P.O. Box 7360
West Trenton, NJ 08628-0360
(609) 883-9500
www.drbc.gov

Letter Date: 03/01/2023
Invoice ID: 232174
Docket Number: D-2000-030 CP
Customer ID: 10348
Amount Due: \$715.00
Due Date: 04/01/2023

March 1, 2023

East Goshen Municipal Authority
Accounts Payable
1580 PAOLI PIKE
WEST CHESTER, PA 19380-6107

For additional information:
Website: www.drbc.gov/fees
Email: annualfee@drbc.gov



Dear Docket Holder:

In accordance with Delaware River Basin Commission (DRBC) Resolution No. 2016-09, codified in relevant part at 18 CFR 401.43, each withdrawal and/or discharge project for which a water allocation and/or wastewater discharge approval has been issued pursuant to the Delaware River Basin Compact and implementing regulations ("Approval") is subject to DRBC's annual monitoring and coordination fee ("annual fee"). The annual fee corresponds to the volume of the monthly allocation and/or daily discharge capacity - whether express or implicit - established by the Approval. The allocation/discharge volumes and corresponding fees are shown in the schedule on the reverse of this invoice.

If an entity has received an Approval (or Approvals) for both water allocation and wastewater discharge activities, separate invoices will be issued for these separate activities. This invoice includes the annual fee for the facility and activity identified below for calendar year 2023. The invoiced amount was calculated based on the monthly allocation (in MGM) or daily discharge capacity (in MGD) approved as of January 1, 2023.

This invoice pertains to the Daily Discharge Capacity approved by D-2000-030 CP and is based on an amount of 0.75 MGD.

Note: Please complete and submit the online Annual Fees Billing Information Update Request Form at www.drbc.gov/fees for address, contact name, phone number, and/or email changes regarding your annual fee billing. Email us at annualfee@drbc.gov with any billing questions.

Detach here and return coupon with payment

East Goshen Municipal Authority

Letter Date: 03/01/2023
Invoice ID: 232174
Docket Number: D-2000-030 CP
Customer ID: 10348
Amount Due: \$715.00
Due Date: 04/01/2023

PAID

Make check payable to
Delaware River Basin Commission

Amount Enclosed: \$ 07424.3000

Delaware River Basin Commission
PO Box 788801
Philadelphia, PA 19178-8801



[Signature]
4/3/23

0000010348500002321749900000004012023000000000715004

PAID

David Ware
East Goshen Municipal Authority
1580 PAOLI PIKE
WEST CHESTER, PA 19380-6107

Date: 2/28/2023
Invoice Number: 93285
Client: 2500.000
Due Date: Upon Receipt

Billing for time incurred from February 1 through February 28, 2023 for the following services:

Progress billing on December 31, 2022 audit

Invoice Total: \$8,000.00

APPROVED BY: 

DATE PAID: 4/3/23

CHECK #: 07-524-3110

CHARGED TO: 07-524-3110

PAID

Please return this portion with payment.

ID: 2500
East Goshen Municipal Authority

Date: 2/28/2023
Due Date: Upon Receipt

Invoice: 93285
Amount Due: \$8,000.00

Amount Enclosed: \$ _____

Please make checks payable to Maillie LLP.

From: [David Ware](#)
To: [Lynn Werkheiser](#); [Dana Gieder](#)
Subject: Fwd: Invoice from Gawthrop Greenwood, PC
Date: Wednesday, April 5, 2023 10:07:38 AM
Attachments: [Invoice dated April 4, 2023.pdf](#)

For MA meeting...

Dave Ware
Finance Director
East Goshen Township
dware@eastgoshen.org
610-692-7171

Begin forwarded message:

From: Allison Samson <ASamson@gawthrop.com>
Date: April 4, 2023 at 3:35:41 PM EDT
To: David Ware <dware@eastgoshen.org>
Subject: Invoice from Gawthrop Greenwood, PC

Hi Dave! Please see the attached (2 page) invoice from Patrick. Please mail all checks to our **P.O. Box address** which can be found on the invoice and as can be seen below. Thank you!

Rose Brown, Bookkeeper
Gawthrop Greenwood, PC
P.O. Box 562
West Chester, PA 19381-0562

Allison Samson, Administrative Assistant
Gawthrop Greenwood, PC
17 East Gay Street, Suite 100
P.O. Box 562
West Chester, PA 19381-0562
Telephone: 610-696-8225 x1620
Facsimile: [610-344-0922](tel:610-344-0922)
E-mail: asamson@gawthrop.com
We are on the web at www.gawthrop.com



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

Please Note:
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>

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
04/04/2023
Client No: 6604-001M
Invoice No. 270489

General Authority Services

Fees

			Hours	
03/07/2023	PMM	Email from L. Werkheiser regarding meeting agenda and packet.	0.20	41.00
03/10/2023	EBK	Review and analyze monthly meeting materials	0.50	97.50
03/13/2023	EBK	Travel to/from and attend monthly meeting	1.50	292.50
		For Current Services Rendered	2.20	431.00

		Recapitulation		
<u>Timekeeper</u>		<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Patrick M. McKenna		0.20	\$205.00	\$41.00
Ellen Koopman		2.00	195.00	390.00

Previous Balance \$1,302.00

Total Current Charges 431.00

03/31/2023	Payment	-620.00
03/31/2023	Payment (P McKenna time)	-389.50
	Total Payments	-1,009.50
	Balance Due	<u>\$723.50</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.



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

Please Note:
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>

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
04/04/2023
Client No: 6604M

Previous Balance	Fees	Expenses	Payments	Balance
6604-001 General Authority Services				
1,302.00	431.00	0.00	-1,009.50	<u>\$723.50</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.

Pennsylvania Municipal Authorities Associ
1000 North Front Street, Suite 401
Wormleysburg, PA 17043

Phone: 717-737-7655 * Fax: 717-737-8431
E-mail: info@municipalauthorities.org
Website: www.municipalauthorities.org

PENNSYLVANIA MUNICIPAL A
1000 N FRONT ST STE 401
WORMLEYSBURG, PA. 17043-
717-737-7655

SALE

East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380

12/15/2021
ID: 212

Batch #: 228
01/27/23
AVS: Z
APPR CODE: 025979
Trace: 1
MASTERCARD
*****0358

REF#: 00000001

12:02:09
CVV2: M

Manual CNP
/

AMOUNT \$880.25

INVOICE

	<u>Current Bal.</u>	<u>Adjustments</u>	<u>Balance Due</u>
2023 ACTIVE MEMBERSHIP DUES	\$880.25	\$0.00	\$880.25

We would appreciate payment within 60 days. If you pay by check, please remit a copy of invoice with payment. We accept Visa, Master Card, and Discover. If you DO NOT wish to renew your membership, please send a written notice to our office. Thank you for your prompt response.

Name on Card: _____ Type of Credit Card: _____
Credit Card No.: _____ Exp.: _____
3 Digit Security Code on reverse side of credit card: _____

PAID

[Handwritten Signature]

pd. MC
1/27/23
\$880.25

Barbara Phillips

From: Sue Smith
Sent: Friday, January 20, 2023 10:59 AM
To: Barbara Phillips; David Ware
Subject: Municipal Auth. Assoc. paid on Mark's card

Barb and Dave,

I paid the 2023 PA Municipal Auth. Assoc. yearly fee on Mark's Master card \$880.25. 1/20/23

Sue Smith

Memo

To: Municipal Authority
From: Dave Ware
Re: MA March 2023 Financial Report
Date: April 3, 2023

YTD March 2023, the Municipal Authority recorded \$309,433 in revenues (primarily from Sewer Operating and Sewer Capital Reserve transfers) and \$310,349 in expenses (Engineering Services, Audit Fees, Administrative Wages, Hershey's Mill Estates Sewer costs, , and capital costs at the Ridley Creek Sanitary Treatment Plant), for a net result of operations of (\$915). As of March 31, 2023, the fund balance was \$4,256.

Attached is a complete list of 2023 full year MA revenues and expenses.

EAST GOSHEN TOWNSHIP
Municipal Authority Fund
March 2023

Account Id	Account Description	Annual Budget	Current YTD	Prior YTD
REVENUE				
07-341-1000	INTEREST EARNINGS	0.00	8.97	0.54
07-354-0400	DCED GRANT	152,980.00	0	0
07-364-1100	C.C. TAPPING FEES	2,300.00	0.00	0.00
07-364-1110	R.C.TAPPING FEES	2,000.00	893.52	0.00
07-364-1130	CONNECTION FEES - SEWER	1,000.00	563.76	281.88
07-380-1000	MISCELLANEOUS REVENUE	282.24	282.24	141.12
07-392-0500	TRANSFER FROM SEWER OPERATING	100,000.00	35,903.09	28,213.55
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	1,471,553.00	271,781.89	27,034.38
	Total Revenue	1,730,115.24	309,433.47	55,671.47
EXPENSES				
07-424-1400	ADMINISTRATIVE WAGES	32,055.45	8,944.84	8,372.05
07-424-3000	MISCELLANEOUS EXPENSE	1,748.79	1,595.25	1,540.25
07-424-3110	MUNIC.AUTH.-AUDITING	10,815.00	9,793.00	7,000.00
07-424-3130	ENGINEERING SERVICES	47,250.00	11,407.50	9,741.25
07-424-3140	LEGAL SERVICES	8,400.00	1,592.50	1,560.00
07-424-7440	R.C. CAPITAL-STP	355,793.00	0	0
07-424-7490	CAP.REPLACEMENT R.C.	488,847.00	0	0.00
07-426-3001	RELINING	260,000.00	0	0
07-429-1501	BARKWAY PUMP STATION CAPITAL	0.00	0.00	2,215.00
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	78,000.00	10,240.62	25,864.95
07-429-1504	HUNT CO PUMP STATION CAPITAL	0.00	0.00	1,870.00
07-429-1505	RCSTP CAPITAL	260,000.00	62,692.11	0.00
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	0.00	88,720.71	0.00
07-429-6100	WEST GOSHEN CAPITAL	187,206.00	115,362	0
	Total Expenses	1,730,115.24	310,348.79	58,163.50
	Net Result From Operations	0.00	-915.32	-2,492.03

Municipal Authority

YTD Revenues and Expenses thru 3/31/2023

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-341-1000	INTEREST EARNINGS	01/31/23	Revenue Journal	INTEREST EARNED JAN 2023	2.65
07-341-1000	INTEREST EARNINGS	02/28/23	Revenue Journal	INTEREST EARNED FEBRUARY 2023	6.32
07-364-1110	R.C.TAPPING FEES	01/01/23	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	02/01/23	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	03/01/23	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1130	CONNECTION FEES - SEWER	01/27/23	Revenue Journal	CONNECTION FEE INSTALLMENT INV# 12838	281.88
07-364-1130	CONNECTION FEES - SEWER	03/23/23	Revenue Journal	CONNECTION FEE INSTALLMENT INV# 12839	281.88
07-380-1000	MISCELLANEOUS REVENUE	01/27/23	Revenue Journal	PINE ROCK INTEREST PORTION - STOFFLET	141.12
07-380-1000	MISCELLANEOUS REVENUE	03/23/23	Revenue Journal	PINE ROCK INTEREST PORTION - PAPPANO	141.12
07-392-0500	TRANSFER FROM SEWER OPERATING	01/20/23	Revenue Journal	XFER TO 07 FROM 05 RE: MA EXPENSES	3,384.75
07-392-0500	TRANSFER FROM SEWER OPERATING	01/30/23	Revenue Journal	XFER \$ TO MA07 FROM 05-SEWER	14,572.43
07-392-0500	TRANSFER FROM SEWER OPERATING	01/31/23	Revenue Journal	XFER \$ FROM 05 TO 07 RE: MA EXPENSES	3,000.00
07-392-0500	TRANSFER FROM SEWER OPERATING	02/17/23	Revenue Journal	XFER TO 07 FROM 05 RE: EXPENSES	36,455.37
07-392-0500	TRANSFER FROM SEWER OPERATING	02/23/23	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	2,877.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/22/23	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	715.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/23/23	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	880.25
07-392-0500	TRANSFER FROM SEWER OPERATING	03/24/23	Revenue Journal	XFER TO 07 FROM 05 RE: EXPENSES	6,738.25
07-392-0500	TRANSFER FROM SEWER OPERATING	03/29/23	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	8,000.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/31/23	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	8,944.84
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/12/23	Revenue Journal	XFER \$ FROM 09 TO 07 TO COVER CAP.EXP.	41,381.95
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/20/23	Revenue Journal	XFER TO 07 FROM 09 RE: MA EXPENSES	11,730.76
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/30/23	Revenue Journal	XFER \$ TO MA07 FROM 09- SEWER CAP	5,221.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	02/10/23	Revenue Journal	FROM 09 SEWER CAP RESERVE TO 07 MA	115,362.26
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	02/23/23	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	8,690.50
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/01/23	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	20,201.84
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/09/23	Revenue Journal	XFER \$ TO 07 FROM 09	1,264.96
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/22/23	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	1,961.86
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/24/23	Revenue Journal	XFER TO 07 FROM 09 RE: EXPENSES	11,080.96
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/29/23	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	5,221.00
					309,433.47
07-424-1400	ADMINISTRATIVE WAGES	03/31/23	Pay Check: 3402	23-00878 QTR 1 2023 MA CHARGE BACK	8,944.84
07-424-3000	MISCELLANEOUS EXPENSE	03/22/23	Pay Check: 3395	23-00707 2023 ANNUAL DAILY DISCHARGE CA	715.00
07-424-3000	MISCELLANEOUS EXPENSE	03/23/23	Expd	REIMBURSE 01 FOR 07 CC EXPENSE	880.25
07-424-3110	MUNIC.AUTH.-AUDITING	02/15/23	Pay Check: 3389	23-00406 PROGRESS BILLING EGT MUA123122	1,793.00
07-424-3110	MUNIC.AUTH.-AUDITING	03/29/23	Pay Check: 3401	23-00870 PROGRESS BILLING AUD EGT MUA	8,000.00
07-424-3130	ENGINEERING SERVICES	01/20/23	Pay Check: 3379	23-00111 SERV.THRU 12/18/22 GEN.SERV.22	3,384.75
07-424-3130	ENGINEERING SERVICES	02/23/23	Pay Check: 3392	23-00443 SERV THRU 011523 GEN SERVICES	2,294.00
07-424-3130	ENGINEERING SERVICES	03/24/23	Pay Check: 3399	23-00816 SERV THRU 021223 CHAPTER 94 RE	2,246.00
07-424-3130	ENGINEERING SERVICES	03/24/23	Pay Check: 3399	23-00815 SERV THRU 021223 GENERAL SERVI	3,482.75

Municipal Authority
YTD Revenues and Expenses thru 3/31/2023

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-424-3140	LEGAL SERVICES	02/23/23	Pay Check:	23-00442 LEGAL SERV. JAN 2023 GEN AUTH	583.00
07-424-3140	LEGAL SERVICES	03/24/23	Pay Check:	23-00812 LEGAL SERV FEB 2023 GEN AUTHOR	389.50
07-424-3140	LEGAL SERVICES	03/24/23	Pay Check:	23-00813 LEGAL SERV DEC 2022 GEN AUTHOR	620.00
07-424-7490	CAP.REPLACEMENT R.C.	01/27/23	Pay Check:	23-00148 WATER TIGHT CASTINGS & LIDS	6,904.64
07-424-7490	CAP.REPLACEMENT R.C.	01/27/23	Pay Check:	23-00152 8"X8"WYE MAX ADAPTER 4" AND 8"	5,025.79
07-424-7490	CAP.REPLACEMENT R.C.	02/06/23	Pay Check:	23-00364 PALLET 200' 8" FILTER SOXX	430.00
07-424-7490	CAP.REPLACEMENT R.C.	02/15/23	Pay Check:	23-00429 PVC PIPE, ADPTR, 2WAY CLEANOUT	1,708.22
07-424-7490	CAP.REPLACEMENT R.C.	02/15/23	Pay Check:	23-00412 PVC FITTINGS,ADPTR,BEND, REDCR	17,817.91
07-424-7490	CAP.REPLACEMENT R.C.	02/15/23	Pay Check:	23-00411 24" N12 HDPE PIPE	3,771.00
07-424-7490	CAP.REPLACEMENT R.C.	02/15/23	Pay Check:	23-00381 1 % DISCOUNT	(65.65)
07-424-7490	CAP.REPLACEMENT R.C.	02/15/23	Pay Check:	23-00381 DIAMOND PLATE BLACK MATS	6,564.64
07-424-7490	CAP.REPLACEMENT R.C.	02/15/23	Pay Check:	23-00415 AASHTO#1 48.32TON #57 146.33TN	4,866.25
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	01/20/23	Pay Check:	23-00110 SERV.THRU 12/18/22 HM EST SEWR	9,690.50
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	02/06/23	Pay Check:	23-00331 STONE, AASHTO #57	550.12
07-429-1505	RCSTP CAPITAL	01/10/23	Pay Check:	23-00030 CONDUITS, STRAPS, LOCKNUTS +	1,161.95
07-429-1505	RCSTP CAPITAL	01/10/23	Pay Check:	23-00075 PULSAFEEDER - RCSPT CAUSTIC SO	40,220.00
07-429-1505	RCSTP CAPITAL	01/20/23	Pay Check:	23-00109 SERV.THRU 12/18/22 RCSTP SODA	861.51
07-429-1505	RCSTP CAPITAL	01/20/23	Pay Check:	23-00112 SERV.THRU 12/18/22 RCSTP UV	1,178.75
07-429-1505	RCSTP CAPITAL	01/27/23	Pay Check:	23-00151 HELIFLOW 408 PD BLOWER	5,221.00
07-429-1505	RCSTP CAPITAL	02/06/23	Pay Check:	23-00305 50HP 3540RPM BALDOR MOTOR	4,683.69
07-429-1505	RCSTP CAPITAL	03/24/23	Pay Check:	23-00817 SERV THRU 021223 RCSTP CAU SOD	4,144.21
07-429-1505	RCSTP CAPITAL	03/29/23	Pay Check:	23-00827 HELIFLOW 408 LHBD BLOWER	5,221.00
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	02/21/23	Expd	RECLASS HERSH.MILL EST. PURCH.23-00153	2,642.00
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	02/23/23	Pay Check:	23-00444 SERV THRU 011523 HM ESTATES SW	8,690.50
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	02/28/23	Pay Check:	23-00536 STONE, AASHTO #57 329.79 TON	8,244.78
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	02/28/23	Pay Check:	23-00534 STONE, AASHTO #57 251.05 TON	6,276.27
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	02/28/23	Pay Check:	23-00535 STONE, AASHTO #57 227.23 TON	5,680.79
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	03/09/23	Pay Check:	23-00582 SPLIT COUPLERS	305.40
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	03/09/23	Pay Check:	23-00581 SEWER HUB ADAPTERS,COUPLERS +	959.56
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	03/22/23	Pay Check:	23-00723 36" MARMAC POLYSEAL COUPLER	803.20
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	03/22/23	Pay Check:	23-00731 JOHN DEERE 550K RENTL 2/28-3/1	434.50
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	03/22/23	Pay Check:	23-00730 JOHNDEERE 550K RENTL 2/23-2/24	724.16
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	03/24/23	Pay Check:	23-00814 SERV THRU 021223 HM ESTATES SE	6,936.75
07-429-6100	WEST GOSHEN CAPITAL	02/06/23	Pay Check:	23-00366 WWPS PYMT LAST INSTALLMENT	115,362.26
					310,348.79

RESERVOIR ROAD TELEVISING DATA
EAST GOSHEN MUNICIPAL AUTHORITY

SANITARY SEWER INSPECTION SUMMARY

MH C035 TO MH C026

MH C279 TO MH C030

March 28, 2023

Prepared By:



PARTNERS FOR WHAT'S POSSIBLE

Christiana Executive Campus
121 Continental Drive, Suite 207
Newark, DE 19713
302-655-4451

Reservoir road televising data

Manhole leaks:

C036

C033

C031

Addresses with leaks:

20 Reservoir

~~18 Reservoir~~ Done 2-1-23

Lateral that comes into MH C029

Video guide:

Total footage televised- 2188 feet

Res 1- MH C035- C033

151.9ft Lateral Top of main

248.5ft Lateral top of main

265ft MH C034 ?

* 360ft MHC033 Metering Manhole Leaker X

Res 2- MH C032-C033

62.2ft Lateral top of main

Res 3- MH C032-C031

119.8ft Lateral top of main

Res 4- MH C031-C030

113.2ft Lateral top of main

193.1ft Lateral right side two o'clock

Res 5- MH C030-C0279 (8 inch run)

* 189ft Lateral right three o'clock *

Moderate water flow in 8 inch main

Res 6- C029-C030

No laterals found

· Couldn't make it more than 60ft Black top

Res 7- C029- C027

214.6ft Lateral top of main

Res 8- C026-C027

52.7ft Lateral top of main

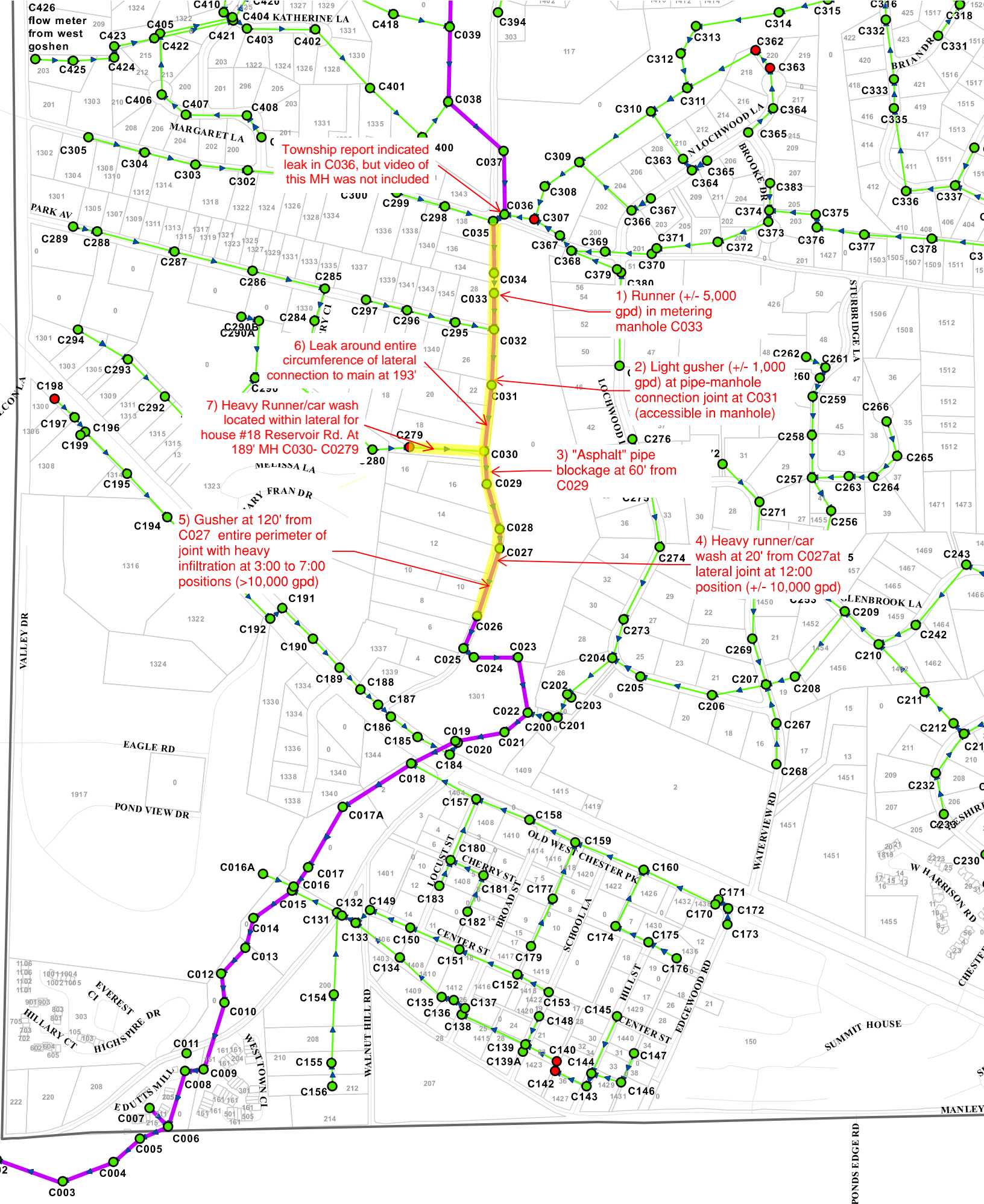
213.4ft Lateral right two o'clock

242.7ft Leak at joint

Start 240 ~~1~~

339.8ft Lateral top of main leaking

~~X~~

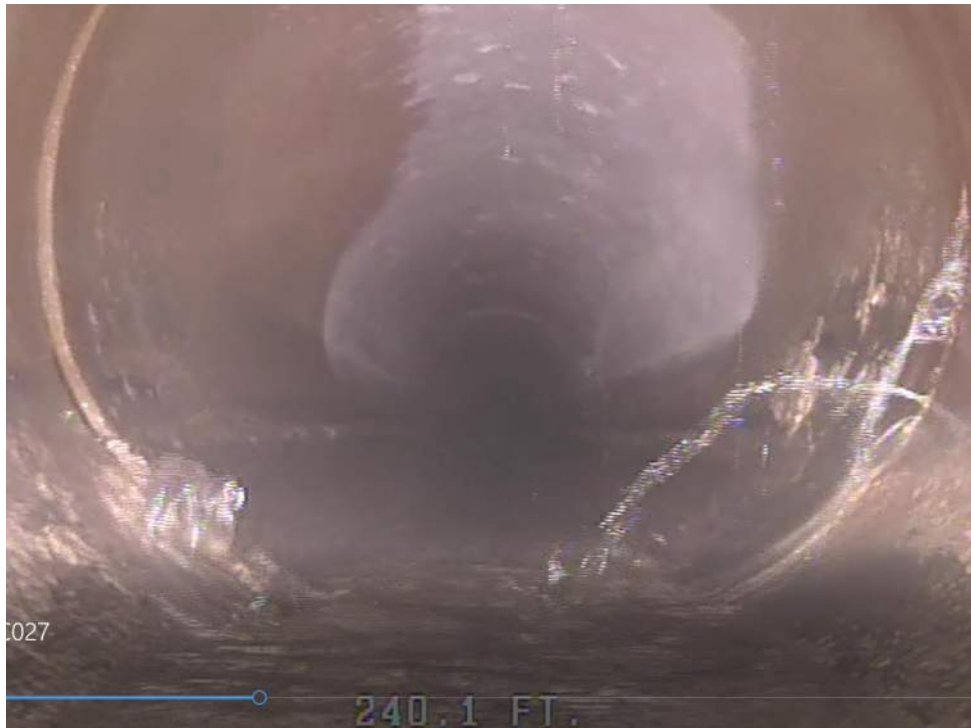




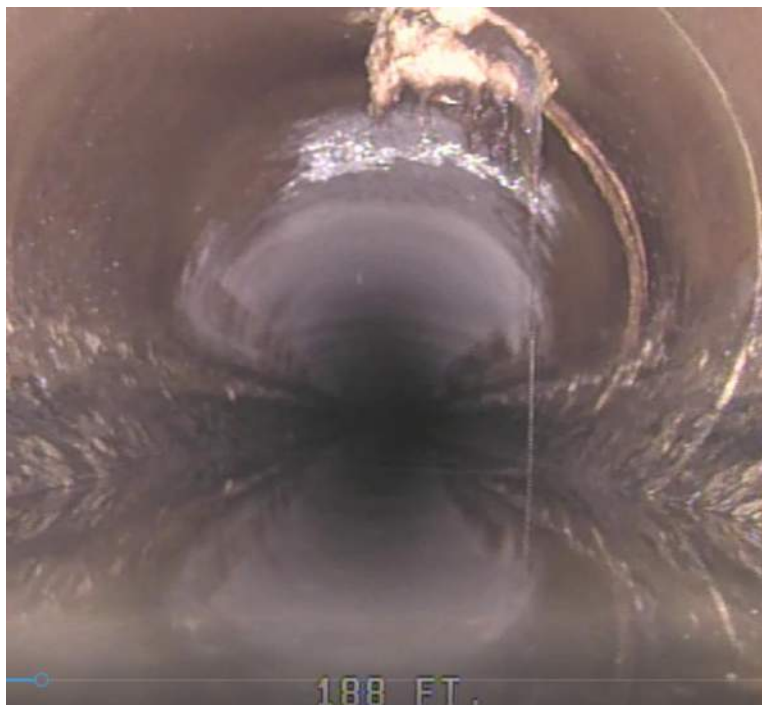
3 – CHUNK OF ASPHALT 60 LF FROM MH C029



4 - HEAVY RUNNER/CAR WASH AT 20 LF FROM MH C027



5 – GUSHER AT JOINT 120 LF FROM MH C027



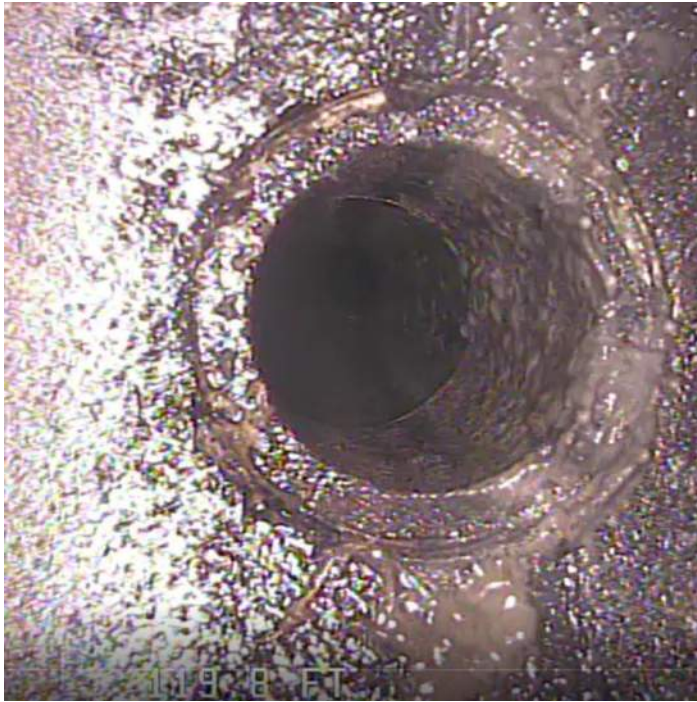
6 - LEAK AROUND ENTIRE CIRCUMFERENCE OF LATERAL CONNECTION TO MAIN @ 193 FT MH C031-C030 (LATERAL PROTRUDES INTO MAIN)



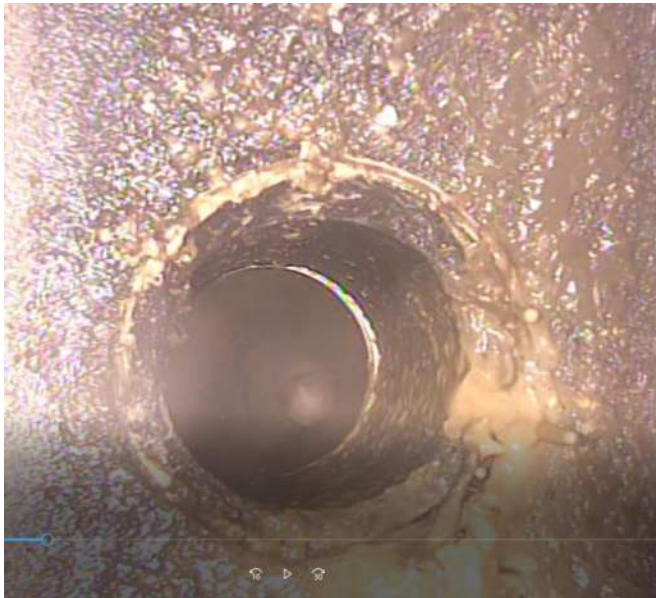
7 – HEAVY RUNNER/CAR WASH IN LATERAL (FROM HOUSE #18 RESERVOIR RD.) @ 189 FT MH C030-C279 (LEAK IS LOCATED SEVERAL FEET WITHIN LATERAL AND PICTURE QUALITY WAS POOR)



8 - MH C032-C033 – DRIPPER FROM AROUND LATERAL AT 62 FT (Not identified on map since no repair is recommended)



9 - MH C032-C031 - DRIPPER FROM AROUND LATERAL AT 120 FT (Not identified on map since no repair is recommended)



10 - MH C029-C027 – VERY LIGHT DRIPPER FROM AROUND LATERAL AT 214 FT (Not identified on map since no repair is recommended)

RECOMMENDED ACTIONS:

1) RUNNER IN METERING MH C033

Leak can be accessed from MH C033. Recommend repair by injection grouting.

2) LIGHT GUSHER AT CONNECTION JOINT AT MH C031

Leak can be accessed from MH C031. Recommend repair by injection grouting.

3) CHUNK OF ASPHALT IN PIPE 60 LF FROM MH C029

Remove asphalt from pipe and any other debris, if possible.

4) HEAVY RUNNER/CAR WASH AT 20 LF FROM MH C027 and

5) GUSHER AT JOINT 120 LF FROM MH C027

Recommend repair of leaks #4 and #5 by injection grouting to reduce infiltration followed immediately by cured-in-place pipe lining of the entire section of pipe between MH C027 and C026.

6) LEAK AROUND ENTIRE CIRCUMFERENCE OF LATERAL CONNECTION TO MAIN @ 193 FT MH C031-C030

Recommend repair of the sewer lateral connection to the main with top hat, if possible. The lateral does protrude into the main by several inches and may affect this repair option which will require further discussion with a contractor.

7) HEAVY RUNNER/CAR WASH IN LATERAL (FROM HOUSE #18 RESERVOIR RD.) @ 189 FT MH C030-C279

The leak is located several feet inside the lateral and there is poor visibility on the video. In addition to the leak, the flow coming from the lateral seemed to be substantial which suggests there could be an additional source(s) of infiltration further upstream in the pipe. Recommend considering a lateral liner or excavated replacement.

8) MH C032-C033 – DRIPPER FROM AROUND LATERAL AT 62 FT

9) MH C032-C031 - DRIPPER FROM AROUND LATERAL AT 120 FT

10) MH C029-C027 – VERY LIGHT DRIPPER FROM AROUND LATERAL AT 214 FT

Since the dripping is very minor (less than 100 gpd each), it is recommended no repair action be taken at this time.

11) MH C036

Leak was indicated on the Township report, however, video was not included for our review. Additional investigation will be required.

From: [Michael Ellis](#)
To: [Mark Miller](#)
Cc: [Lynn Werkheiser](#); [David Ware](#); [Derek Davis](#); [Nathan M. Cline](#); [Matthew McAloon](#)
Subject: Supplee Valley CIPPL Scope and Cost Opinion Update
Date: Wednesday, April 5, 2023 2:37:59 PM
Attachments: [ATT00001.png](#)
[Supplee Valley Pipe Lining Exhibit 2023-04-05.pdf](#)
[Supplee Valley Pipe Lining Cost Opinion Rev 2023-04-05.pdf](#)

Hi Mark,

There are 25 sanitary sewer pipe runs (approx 5,664 LF) in the Supplee Valley neighborhood that are un-lined asbestos cement. Approximately 4,860 LF of asbestos cement sewers in the neighborhood were rehabilitated with manhole-to-manhole cured-in-place pipe lining (CIPPL) in 2017. The aforementioned 25 pipe runs were televised before that construction, and no severe problems or leaks were present so they were not prioritized for CIPPL then due to budget limitations. However, they are still intended for CIPPL to restore them to a “new” condition and proactively mitigate any I&I or other problems.

The attached exhibit depicts the pipes that were lined in 2017 and the remaining 25 un-lined pipe runs. An updated construction cost opinion is also attached for CIPPL of the un-lined pipes.

We recommend any pipes to be lined be televised before the project is put out to bid to determine if there are any new defects to address. Provision of videos to bidders is also beneficial for obtaining competitively priced bids.

Mike

Michael Ellis, PE

Municipal Division Manager

Pennoni

121 Continental Drive, Suite 207 | Newark, DE 19713

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www.pennoni.com | MEllis@Pennoni.com



[Addressing Localized Stormwater Flooding
in Aston Township, PA](#)

East Goshen Municipal Authority
Supplee Valley Sanitary Sewer Pipe Lining
Budgetary Opinion of Probable Construction Costs
 Updated: April 5, 2023

Scope of Work							Cost Opinion		
Street Name	Upstream Manhole	Downstream Manhole	Estimated Length (feet)	No. Laterals	Pipe Dia. (inches)	Pipe Material	CIPPL	Lateral Reinstallments	Total
Mark Drive	C042H	C042G	155.8	4	8	Asbestos Cement	\$7,946	\$1,000	\$8,946
Easement	C042F	C042FF	255.1	2	8	Asbestos Cement	\$14,286	\$500	\$14,786
Mark Drive	C042N	C042M	308.9	6	8	Asbestos Cement	\$15,754	\$1,500	\$17,254
Mark Drive	C042M	C042L	134.6	3	8	Asbestos Cement	\$6,865	\$750	\$7,615
Mark Drive	C042L	C041A	309.0	6	8	Asbestos Cement	\$15,759	\$1,500	\$17,259
Easement	C426	C425	188.0	1	8	Asbestos Cement	\$10,528	\$250	\$10,778
Easement	C425	C424	205.0	2	8	Asbestos Cement	\$11,480	\$500	\$11,980
Easement	C424	C423	56.0	0	8	Asbestos Cement	\$3,136	\$0	\$3,136
Easement	C423	C422	204.0	0	8	Asbestos Cement	\$11,424	\$0	\$11,424
Easement	C422	C421	398.0	0	8	Asbestos Cement	\$22,288	\$0	\$22,288
Baldwin Drive	C421	C420	150.0	0	8	Asbestos Cement	\$7,650	\$0	\$7,650
Baldwin Drive	C410	C404	50.4	0	8	Asbestos Cement	\$2,570	\$0	\$2,570
Katherine Lane	C404	C403	92.6	1	8	Asbestos Cement	\$4,723	\$250	\$4,973
Katherine Lane	C403	C402	340.5	3	8	Asbestos Cement	\$17,366	\$750	\$18,116
Easement	C400	C038	220.0	0	8	Asbestos Cement	\$12,320	\$0	\$12,320
Mark Drive	C414	C413	369.6	6	8	Asbestos Cement	\$18,850	\$1,500	\$20,350
Mark Drive	C413	C412	138.8	3	8	Asbestos Cement	\$7,079	\$750	\$7,829
Mark Drive	C412	C411	232.3	1	8	Asbestos Cement	\$11,847	\$250	\$12,097
Baldwin Drive	C416	C415	288.5	4	8	Asbestos Cement	\$14,714	\$1,000	\$15,714
Mark Drive	C415	C411	98.7	0	8	Asbestos Cement	\$5,034	\$0	\$5,034
Easement	C420	C419	362.0	0	8	Asbestos Cement	\$20,272	\$0	\$20,272
Easement	C419	C418	388.0	0	8	Asbestos Cement	\$21,728	\$0	\$21,728
Easement	C418	C039	280.0	0	8	Asbestos Cement	\$15,680	\$0	\$15,680
Margaret Lane	C409	C408	136.6	3	8	Asbestos Cement	\$6,967	\$750	\$7,717
Margaret Lane	C408	C407	302.0	3	8	Asbestos Cement	\$15,402	\$750	\$16,152
Total			5664.4	48					\$313,665
							USE	\$315,000	