

EAST GOSHEN MUNICIPAL AUTHORITY

January 9, 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 Works Report.
- b. Pennoni Engineer's Report.
- c. Big Fish Environmental Report

4. APPROVAL OF MINUTES

- a. December 12, 2022

5. APPROVAL OF INVOICES

Pennoni	Invoice# 1150403	\$	861.51
Pennoni	Invoice# 1150405	\$	9,690.50
Pennoni	Invoice# 1150409	\$	3,384.75
Pennoni	Invoice#1150401	\$	1,178.75

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. December
- b. Proposed 2023 Budget

8. OLD BUSINESS

- a. Hershey Mill Trunk Line

9. 2022 Goals:

Goal	Status
Ridley Creek Plant Compliance	January, February, March, April, May, June, July, August, September, October and November and December were in compliance and met all requirements *Note DEP Annual Insp.
Continue to Monitor Upgrades at WGSTP and Westtown Way Pump Station	On – going
Continue to Implement Infiltration and Inflow for the Sewer System	On-going
Caustic Soda Project	Tank has been delivered awaiting PA DEP approval once installed.
Replace sewer line Hershey Mill Estate trunk line replacement	Bid documents finalized. Bid advertised Nov. 1, bids due Dec. 5 th if grant application is approved.
Three new meters for Ridley Creek Collection	Hibberd Lane was installed 2021 RCSTP influent flow meter replacement 2022 Blacksmith Shop (2023) Line Road - Deferred

10. NEW BUSINESS

- a. Municipal Authority 2023 Goals – Walter Wujcik
- b. HME Construction Phase Proposal - Pennoni

11. CAPACITY REQUESTS

- a. 1671 and 1681 E. Strasburg Road

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: January 9, 2023 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 673,239 per day.

Meters: The meters were read on a daily basis.

C.C. Collection: All pump stations were visited on a daily basis; the wet wells were washed down. We received a call from a resident on Glenmont Lane who stated that sewage was backing up into his home. We went down and found that his trap was full of grease and the clean out stack pipe was out of the hub. I gave him a copy of the local contractors to call to get it repaired.

C.C. Interceptor: We are in the process of scheduling to televise the trunk line from Strasburg Road down to the Westtown Way meter. This work has to be done between the hours of 12:00 am to 5:00 am, and we have to plug the lines so we can get a full visual of the pipe.

R.C. Collection: The pump stations were visited on a daily basis. We received a seal failure alarm on Christmas day so I changed the run sequence so the pump would only run if the other pump could not keep up with the flow. We swapped the pump out the next day. We cleared the sanitary sewer line right of way thru the golf course. While we were clearing the right of way, we pulled the manhole lids to check the condition of the manholes, which were fine.

Hibberd Lane meter locked up this month, John Laidley was called in to repair the issue. The meter is up and running.

Ridley Creek Plant: We performed general maintenance as needed. We had a problem with pump #2 for the utility water. We are scheduled to clean the line from metering manhole into the screen room. We had Lenni cut out power to the plant while PECO did repairs on Line Road.

Hershey Mill sewer line Replacement:

I have been keeping the residents informed on what the status of the project is. I had asked Mike to have his people stake out the easements thinking this would get the residents attention, which it did. I have been speaking to residents advising them that we would be utilizing the easements. Public Works still has to put the roads in for the contractor, which we hope to do next week. We can discuss further at the meeting.

Alarms:

We responded to 21 alarms for December.

PA 1 Calls:

We responded to over 57 PA One Calls for the month December.

Monthly Rainfall:

6.20 inches of rain for the month of December.

Lateral repairs or Caps:

We had two cleanout repairs for December.



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

January 6, 2023

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic Soda Conversion – We conducted a pre-construction field meeting with Jim Woods (the PADEP “certified installer” consultant) and Public Works. Jim requested that vacuum control valves be added to the chemical feed pumping system and that thermal expansion be added to the exterior tank suction piping. We obtained cost quotes from Pyrzs (supplier of the tank and chemical feed pumps) for the applicable equipment that has been forwarded to the Township and plant operator for review. Jim expects that PADEP will authorize the permit within approximately one week of submission of the application, at which point the tank and system can go into use. The permit application cannot be submitted until all work is complete.

We also met virtually with Scott Towler to determine the alarms and controls scoping for the tank and chemical feeds. The controls will remain the same as those from the caustic trial with pump feed rates adjusted manually (not automatically controlled by pH or other conditions). There will be outside visual alarms for a tank leak (via interstitial monitoring between the tank walls) and tank high level. The tank level is also proposed to be visible through SCADA with remote alarm notifications for tank high and low levels only.

- UV Disinfection System – The system is being fabricated by Glasco, and delivery is expected in late February or early March 2023.

The bidding and contracting schedule for the mechanical and electrical work remains dependent on the notification of awards for the Commonwealth Financing Authority (CFA) Local Share Account (LSA) grants. Awards are expected to occur on January 12, but we are not aware that the agenda for the CFA meeting has been made available yet to confirm the grant awards will be considered.

We are awaiting advertisement until the CFA’s public meeting is scheduled to make the LSA awards. The UV solicitations for mechanical and electrical work can then be advertised. The tentative bidding schedule follows, based upon the CFA meeting occurring on January 12:

- Bid Advertisement – late January
- Bids Due – mid-to-late February
- Award Consideration – March 13, 2023 at the Municipal Authority Meeting
- Generator #2 Replacement – We are continuing with design and coordination with vendors on pricing for various size generators.

Westtown Way Pump Station

- No update since our last report.

Sanitary Sewer Pipe Rehab

- Supplee Valley – No 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 February 2023 with construction in early-to-mid 2023.

- Hershey's Mill Estates – We prepared the Intent to Award and Precast Commitment letters to the low bidder, Joao & Bradley. We reviewed construction submittals and shop drawings for the manholes, storm sewer endwall, and bypass pumping plan. It is our understanding that the manholes and endwall have been ordered. We are awaiting the contractor's bonds and insurance documents, which need to be in-hand to execute the contract.

We recommend the MA formally award the contract to Joao & Bradley at the January 9th MA meeting conditioned that the contract not be signed until after the CFA's January 12th meeting in which they are tentatively expected to award grants.

An initial pre-construction meeting was conducted, and a second pre-construction meeting is scheduled for January 10.

We also prepared a revised design of pipe slopes and manhole invert elevations since all manholes are now expected to be replaced given the bid pricing. The revised design provides for increased pipe slopes on certain pipe segments that are currently very flat. A Construction Issue set of plans was prepared accordingly and has been issued.

We provided the Township with quantities of materials for storm sewer piping for the Township to order.

We have contacted PADEP about the procedure for amending the GP-11 permit to include the additional wetland crossing at the upstream end of the project site to allow for additional construction access off of Tanglewood Drive and are awaiting their direction. A revised / supplemental permit application will be submitted pending their response.

A field survey stakeout of the existing easement and proposed limit of disturbance, which extends outside the easement, was performed at the end of the Fox Glove Lane cul-de-sac for use by the Township in discussing the need for temporary construction easements with the two property owners.

Provided the contract is executed by January 13, the contractor intends to mobilize the week of January 16 and begin pipe replacement on January 23, starting at the downstream end. They will provide a detailed schedule after the second pre-construction meeting.

- 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

- 301 Reservoir Road – We reviewed a Land Development sketch plan for the 5-lot residential subdivision and provided a comment letter including a comment that design and Sewage Facilities Planning for a public sewer extension is required.
- 1671 and 1681 Strasburg Road – We performed a cursory review of a sketch plan for an approximately 1,800-LF long low pressure sewer lateral to connect the proposed residential property to the sewer main immediately upstream of the treatment plant.

Industrial Pretreatment Ordinance

- No activity since our last report. As discussed at the May 2021 MA meeting, a headworks study with sampling at the RCSTP can be conducted to set contaminant limits.

END OF REPORT



Executive Summary

The Ridley Creek sewage treatment plant outfall 001 is anticipated to achieve compliance with all effluent limitations regarding water quality for the month of December. All supplemental reports were submitted for the month of November with the eDMR. Discharge to the Applebrook irrigation lagoon remains offline. Chemical usage utilized for, and total alkalinity remained consistent with previous months. Aluminum sulfate solution volumes were slightly increased to a daily average of 72.6 as compared to the previous month at 70.0 gpd to achieve phosphorus removal. No significant mechanical or operational issues were observed during the operation of sludge dewatering equipment or SBR treatment process. Sludge dewatering continues at around 500,000 gallons or more per month. There were no odor complaints during the month.

Table 1

December 2022- Final Effluent - Outfall 001													
NPDES Permit Discharge Limitations	Flow	CBOD ₅		Total Nitrogen		TSS		NH ₄ -N		Total Phosphorus		Fecal Coliform	
	MGD		lbs/		lbs/		lbs/		lbs/		lbs/	Geo	Geo
	Average	mg/L	month	mg/L	month	mg/L	month	mg/L	month	mg/L	month	Mean	Mean
	0.75	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													
December 6, 2022	0.395	2.7	8.9	6.87	22.6	11.5	37.9	0.10	0.33	0.18	0.59		
December 13, 2022	0.396	2.0	6.6	7.95	26.3	4.0	13.2	0.10	0.33	0.18	0.59	12	1.0792
December 20, 2022	0.396	5.9	19.5	8.49	28.0			0.10	0.33	0.10	0.33	5	0.6990
December 27, 2022	0.400	5.7	19.0			4.0	13.3	0.10	0.33	0.15	0.50	1	0.0000
Average	0.397	4.1	13.5	7.77	25.6	6.5	21.5	0.10	0.33	0.15	0.50	6	0.5927
Minimum	0.395	2.0	6.6	6.87	22.6	4.0	13.2	0.10	0.33	0.10	0.33	1	0.0000
Maximum	0.400	5.9	19.5	8.49	28.0	11.5	37.9	0.10	0.33	0.18	0.59	12	1.0792

*The test results for the weeks of December 20th and 27th are draft results as the results are in progress. The fecal coliform results from December 6th are under review for accuracy.

Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported to date for outfall 001 December 2022. The month-to-date average total phosphorus was reported as 0.15 mg/L as compared to the permit limitation of 0.50 mg/L. The TSS samples were consistently in single digits, except for the December 6th test result of 11.5 mg/L. The results remain below the weekly maximum of 15 mg/L. The draft monthly average TSS is reported as 6.5 mg/L as compared to the discharge limitation of 10 mg/L.

The final effluent test results demonstrate that the biological treatment process performed well during October. 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 available pollutant data for the influent wastewater collected at the doghouse manhole during December 2022.

Table 2

December 2022 - 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													
December 6, 2022	0.508	363	1,538	346.0	1,466	43	182	30.8	130	53.3	226	6.06	25.7
December 13, 2022	0.387	224	724	202	653	148	478	29.1	94	46.2	149	4.88	15.8
December 20, 2022	0.455	328	1,245	341	1,294			34.7	132			5.30	20.1
December 27, 2022	0.515	323	1,387			294	1,263	29.4	126			5.49	23.6
Average	0.466	310	1,223	296	1,138	162	641	31	121	49.8	188	5.43	21.3
Minimum	0.387	224	724	202.0	653	43	182	29	94	46.2	149	4.88	15.8
Maximum	0.515	363	1,538	346	1,466	294	1,263	35	132	53.3	226	6.06	25.7

The foam on the SBR surface remained consistent with November with approximately 15% to 20% coverage of the surface area. The foam thickness is approximately 2 inches with a light to medium brown color. 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

No activity

Significant Rainfall

During December, there were eleven (11) days when rainfall or snow occurred. There were three (3) events where the rainfall exceeded 0.5 inches in a 24-hour period.

December 7th 1.03 inches

December 16th 1.35 inches

December 23rd 1.42 inches

The total rainfall for the month of December was a total 5.65 inches.

Chemical Usage:

December 2022		
Chemical	Daily Average	Total Monthly
Soda Ash, pounds	300	9,600
Aluminium Sulfate solution, gal	72.6	2,251
Sludge Dewatering, gal*	24,018	528,415

*The centrifuge was operated 22 days during the month.

Flow data:

December 2022			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	14.381	463,911	694,440
Influent Wastewater to SBRs*	14.670	473,220	680,832
Internal Recycle**	0.434	13,997	40,060
Treated Effluent to Disc Filters	14.058	453,475	610,304
Final Effluent Discharge	11.812	381,000	541,00
Applebrook Golf Course	0	0	0

During December, the average monthly influent wastewater flow measured at the "field" flow meter was 463,911 gallons/day as compared to the influent flow into the SBRs as 473,220 gallons/day. The difference between the daily averages is 9,309 gpd, which is consistent with the average daily volume of internal recycle flow of 13,997 gpd. These values are considered typical as the flows to the SBR should be greater due to including all the internal recycle flows.

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

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
December 12, 2022

The East Goshen Township Municipal Authority held their regular meeting on Monday, December 12, 2022 at 7:00 pm. at the Township Building. Members in attendance are indicated in

BOLD:

Walter Wujcik, Chairman

Kevin Cummings, Vice Chairman

Dana Pizarro

Jack Yahraes

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

COMMON ACRONYMS:

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

Walter 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 troops and First Responders.

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

Chairman's Report

1. Walter mentioned that he started preparing for whoever will be Chairman next year.

2. West Goshen – Dave reported that they are finishing the electrical at the Westtown Way Pump Station. They have supply chain issues.

SEWER REPORTS

1. Director of Public Works, Mark Miller's report for December 12, 2022

Monthly Flows – The average daily flow to West Goshen was 658,909 per day.

Meters: The meters were read on a daily basis. We had the meters calibrated on November 21, 2022. There were no adjustments done. It was noted that three of the meters need transducer brackets replaced.

1 **C.C. Collection:** All pump stations were visited on a daily basis. The wet wells were washed down
2 and the FOG rods were cleaned. We did get a call for a sewer backup at Ellis Lane. However, the
3 problem was on the homeowner's side of the sewer.
4

5 **C.C. Interceptor:**
6

7 **R.C. Collection:** The pump stations were visited on a daily basis. The wet wells were cleaned. We
8 did respond to four alarms due to power outages. The generators ran and kept the stations in service.
9

10 **Ridley Creek Plant:** We have started work on the caustic soda system. The pump table was built in
11 the shop and taken down to the plant to be put in place. Lenni Electric has been running the bridge
12 conduit for the alarms and power for the pumps. They also installed additional conduit for some of
13 the communication lines that Verizon installed. We had a problem on December 1 when a limb came
14 in contact with a high voltage line. PECO was on location when the line dropped. We had to call
15 Lenni in to throw the disconnect 33KV switch. Once power was installed, Lenni threw the switch
16 and we brought the plant back on line. Kevin is setting up the schedule to clean the main trunk line
17 from the new meter pit into the screen room. John Laidley will be on hand so he can zero out the
18 new flow meter.

19 We have started clearing the lay down area at the Hershey Mill sewer project. Stumps were
20 excavated and the soil was hauled out. Millings were hauled in and a level area was constructed.
21

22 **Alarms:** We responded to 22 alarms for November.
23

24 **PA 1 Calls:** We responded to over 35 PA One Calls for the month of November.
25

26 **Monthly Rainfall:** 3.15 inches of rain for the month of November.
27

28 **Lateral Repairs or Caps:** We had nine cleanout repairs for November.
29 We had a clog at Glenmont Lane today.
30
31

32 **2. Pennoni Engineer's Report dated December 9, 2022**
33

34 **Ridley Creek Sewage Treatment Plant (RCSTP)**

- 35 • Caustic Soda Conversion – We are prepared to assist the PW Department with construction
36 layout for the concrete pad and installation work, if needed. We obtained the attached cost
37 quote from a PADEP “certified installer” for inspection and sign-off of the PADEP bulk tank
38 permit application as the system is installed by the PWD. The permit application will be
39 submitted to PADEP after installation with the certified installer's certification. We are also
40 setting up a meeting with the operator to determine the alarm needs for the caustic system (i.e.
41 leak detection, liquid level, chemical feed pump failure, etc.). Dana moved to approve \$1,245
42 fee for Data Design Services. Jack seconded the motion. The motion passed unanimously.
- 43 • UV Disinfection System – The system is being fabricated by Glasco, and delivery is expected in late
44 February or early March 2023.

1 The bidding and contracting schedule for the mechanical and electrical work remains
2 dependent on the notification of awards for the Commonwealth Financing Authority (CFA)
3 Local Share Account (LSA) grants. Those awards had been expected to occur in November,
4 but the funding agency, PA DCED, informed us that the awards will now occur in January at
5 the earliest, but it could be later than that.

6 The MA authorized bidding at the November MA meeting with the intention to advertise the
7 solicitations in early December. However, we now propose to extend the advertisement to
8 occur when the CFA's public meeting schedule to make the LSA awards is announced. The
9 UV solicitations can then be advertised approximately one month in advance of the CFA
10 meeting so that UV bids will be received and can be awarded right after the CFA meeting.
11 The tentative revised bidding schedule follows, based upon the CFA meeting occurring in late
12 January:

- 13 • Bid Advertisement – late December/early January
- 14 • Bids Due – late January/early February
- 15 • Award Consideration – February 13, 2023 at the Municipal Authority Meeting
- 16 • Generator #2 Replacement – We are continuing with design and coordination with vendors on
17 pricing for various size generators.

18 **Westtown Way Pump Station**

- 19 • No update since our last report.

20 **Sanitary Sewer Pipe Rehab**

- 21 • Supplee Valley – No have updated the construction scope and construction cost estimate for
22 pipe lining the remainder of the asbestos cement sewers in the neighborhood and will submit
23 to the Township for review. We anticipate bidding the project in January 2023 with
24 construction in early 2023.
- 25 • Hershey's Mill Estates – We administered the bidding process including responding to prospective
26 bidders' questions, conducting two on-site pre-bid meetings, re-designing portions of the access
27 routes and sewer alignment based upon the site meetings, adding storm sewer replacement scope,
28 coordinating for pre-construction site clearing and site preparation by the Township, preparing and
29 issuing Addendum #1 consisting of a new plan set and updated specification sections, and conducting
30 bid opening. Bids were received on December 8, and an unofficial bid tabulation is attached. We are
31 preparing an official bid tabulation and reviewing bid documents, and we will confirm the bid and
32 scope with the low bidder and also check references in order to make an award recommendation.

33 If the CFA LSA grant award meeting is scheduled to occur in January, we will recommend
34 award at the January MA meeting conditioned that the contract cannot be executed/signed
35 until after the CFA meeting since that grant requires that contracts not be signed or Notice to
36 Proceed (NTP) issued until after grant awards are made. PA DCED confirmed that the
37 contract can be signed and NTP issued immediately after the CFA meeting so we do not have
38 to wait several months for the subsequent grant agreement to be provided and executed, if the
39 grant is awarded.

40 If the CFA meeting is not scheduled in January, we can discuss with the low bidder about
41 extending the contract award timeframe beyond the 60 days that is provided in the bid
42 document, in which case award consideration would then be projected to occur at the

February MA meeting.

- 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.

I&I Program

- No activity since our last report.

New Connections

- 301 Reservoir Road – We provided alternatives to the developer's design engineer for potential public sewer connection locations for the proposed 5-lot subdivision.

Industrial Pretreatment Ordinance

- No activity since our last report. As discussed at the May 2021 MA meeting, a headworks study with sampling at the RCSTP can be conducted to set contaminant limits.

Comment: Kevin asked for a comparison of our costs to peer plants in the area.

3. Big Fish Environmental Services –

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with all effluent limitations regarding water quality for the month of November. All supplemental reports were submitted for the month of October with the eDMR. Discharge to the Applebrook irrigation lagoon was discontinued during September. Chemical usage utilized for pH and total alkalinity remained consistent with previous months. Aluminium sulfate solution volumes were slightly increased to a daily average of 70.0 as compared to the previous month at 69.1 gpd to achieve phosphorus removal. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process. Sludge dewatering continues to be increased to avoid potential odors during the sludge holding tank decanting process. There were no odor complaints during the month.

Approval of Minutes

The minutes of the November 14, 2022 meeting were approved as amended.

Approval of Invoices

1. Jack moved to approve payment of the Gawthrop Invoice #266389 in the amount of \$500.00. Dana seconded the motion. The motion passed unanimously.
2. Kevin moved to approve payment of the following invoices that were paid on November 16, 2022:

Gawthrop Invoice #265299	\$ 420.00
Deckman Invoice #4825	\$4,514.00
Colonial Elect. Invoice #14850138	\$ 450.27
Yale Electric Invoice #S121654188.001	\$ 96.91

Jack Seconded the motion. The motion passed unanimously.

1
2 **Liaison Reports**

- 3 1. Conservancy Board – Walter mentioned that the board did the fall planting on Saturday
4 November 19, 2022.
5 2. BOS – Mike Lynch commented that the BOS will approve the 2023 budget on December 20,
6 2022. The property tax increase is still in front. He commented about the great job Dave Ware
7 did through this process. Mike attended a meeting at New Garden Township. They started the
8 sale of their sewer system in 2012 and was finalized in 2019. Aqua established a new rate
9 about 70% higher than the previous. The meeting was attended by about 300 people and was
10 well done. There was a very large increase proposed before the Municipal Authority decided
11 to sell. The comments from residents were that they would rather pay to the MA than Aqua
12 where they are paying for the executives. Mike explained Act 12.
13

14 **Financial Reports**

- 15 1. November Financial Report - Dave Ware provided the following report:
16 In November 2022, the Municipal Authority recorded \$15,696.80 in revenues (primarily from Sewer
17 Operating and Sewer Capital Reserve transfers) and \$31,664.60 in expenses (General Engineering
18 Services, Legal Services, Hershey's Mill Engineering Services, Hershey's Mill Pump Station –
19 rebuilt hydromatic pump, and Capital expenditures at the Ridley Creek Sanitary Treatment Plant), for
20 a net result of operations of (\$15,967.80). As of November 30, 2022, the fund balance was
21 (\$11,137.03).
22 The 2023 proposed budget was discussed. Kevin moved that the Proposed 2023 Budget be added to
23 the January agenda. Dana seconded the motion. The motion passed unanimously.
24

25 **Old Business**

- 26 1. Hershey Mill Trunk Line – Mike Ellis mentioned that the references have been checked on the low
27 bidder and he described a recent job they did at 40% lower and the work was good. The low bidder
28 is 30% less than the next bid. Supplies were discussed. We have the pipe but no manholes. After
29 discussion, Kevin moved to send a letter to the low bidder to order the manholes and East Goshen
30 will reimburse for the cost regardless of lead time. Jack seconded the motion. The motion passed
31 unanimously. Mark and Mike will make up the letter and send it to Patrick for review. Mike will
32 call the low bidder to see what the lead time is on manholes. Mike Lynch asked about the cost
33 estimate for this project. Mike Ellis commented that the original estimate was \$1.5M and is now at
34 about \$1M.
35 Mark Miller mentioned that he sent letters to the residents. There is one property located next to the
36 Township easement who hasn't returned Mark's calls. Mark described the other areas where they
37 will bring in supplies instead of having to go through the wetland. There is one tree he will need to
38 fertilize which will cost \$1,200.00.
39

40 **Goals**

41 The goals were reviewed.
42

43 **New Business**

- 44 1. 301 Reservoir Road – A letter was received from Commonwealth Engineers, Inc. outlining
45 proposed subdivision of the property and requesting an additional 1,055 gpd (5 EDU's at 211
46 gpd/EDU). There is capacity. They are requesting a standard Sewer Availability Letter. Kevin

1 moved to provide a letter to Commonwealth Engineers, Inc. for the requested 1,055 gpd (5 EDU's at
2 211 gpd/EDU). Jack seconded the motion. The motion passed unanimously.

3 2. Pennoni 2023 Fee Schedule – The 2023 fee schedule was reviewed. Kevin moved to retain
4 Pennoni as the Municipal Authority's engineer and approve their rates as provided for 2023. Dana
5 seconded the motion. The motion passed unanimously.

6
7
8 **Any Other Matter** - None

9
10
11 **Correspondence**- None

12
13
14 **Public Comment** - None

15
16
17 **Adjournment**

18 There being no further business Jack moved to adjourn the meeting. Dana seconded the motion. The
19 motion passed unanimously. The meeting was adjourned at 8:25 pm.

20 The next regular meeting will be held on Monday, January 9, 2023 at 7:00 pm.

21
22 Respectfully submitted,

23
24
25 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 : 1150403
Invoice Date : 12/29/2022
Project : EGMAU20004
Project Name : RCSTP Caustic Soda
Conversion

For Services Rendered Through 12/18/2022

Identified and obtained cost quote from "certified installer" to sign off on PADEP bulk tank permit application, set up pre-construction meeting with "certified installer" and Township, alarms scoping with Township and operator, and guidance to Township on slab construction.

Phase Code / Name	Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
01 -- Design and Permitting	\$26,500.00	\$22,196.28	87.01%	\$23,057.79	\$861.51
02 -- Construction Phase Services	est. \$5,400.00	\$689.50		\$689.50	\$0.00
Total :	\$31,900.00	\$22,885.78		\$23,747.29	\$861.51

Amount Due This Invoice

\$861.51

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

West Goshen RCSTP Caustic Soda Conversion
EGMAU20004 Invoice Summary
Invoice Date 12/29/2022

Project:	EGMAU20004		
Pennoni Job No.:	RCSTP Caustic Soda Conversion		
Invoice No:	1150403		
Invoice Period:	10/3/2022	to	12/18/2022
Initial Authorization:	\$ 31,900.00	Date:	12/29/2022
Contract Amount:	\$ 31,900.00		
Previously Invoiced:	\$ 22,885.78		
Current Invoice:	\$ 861.51		
Invoiced to Date (\$):	\$ 23,747.29		
Invoiced to Date (%):	74%		
Remaining Budget (\$):	\$ 8,152.71		
Remaining Budget (%):	26%		

Budget by Phase:

Phase Name:	RCSTP Caustic Soda Conversion		
Phase Budget:	\$ 31,900.00		
Previously Invoiced:	\$ 22,885.78		
Current Invoice:	\$ 861.51		
Invoiced to Date (\$):	\$ 23,747.29		
Invoiced to Date (%):	74%		
Remaining Budget (\$):	\$ 8,152.71		
Remaining Budget (%):	26%		

Comments: Identified and obtained cost quote from "certified installer" to sign off on PADEP bulk tank permit application, set up pre-construction meeting with "certified installer" and Township, alarms scoping with Township and operator, and guidance to Township on slab construction.



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 : 1150405
Invoice Date : 12/29/2022
Project : EGMAU21004
Project Name : HM Estates Sewer
Design & Permitting

For Services Rendered Through 12/18/2022

Phases 04 and 05 - Finalized plans, specifications, and bid documents.

Phase 08 - Set up solicitation on PennBID, provided advertisement to Township, conducted 1st pre-bid meeting at the site, responded to questions from prospective bidders, follow-up pre-bid meeting including preparation and issuance of Addendum #1 plans and specs updates and guidance to Township on additional sanitary and storm sewer piping materials to purchase, conducted for 2nd pre-bid site meeting conducted bid opening, prepared unofficial bid tabulation, discussed LSA grant status with funding agency, strategized award approach with Township due to delayed LSA grant awards, and performed reference checks for the low bidder.

Phase 09 - Prepared Intent to Award and Manhole Ordering Payment Commitment letters to contractor, reviewed manhole and endwall shop drawings, and initiated preparation of Construction Issue plan set with improved pipe slopes since all manholes are expected to be awarded for replacement.

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	\$25,506.35	100.00%	\$26,100.00	\$593.65
05 -- Permitting		\$8,000.00	\$7,028.05	100.00%	\$8,000.00	\$971.95
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	est.	\$7,500.00	\$0.00		\$9,690.50	\$9,690.50
09 -- Construction Admin & Inspection	est.	\$0.00	\$0.00		\$1,386.00	\$1,386.00
Total :		\$87,300.00	\$77,026.15		\$89,668.25	\$12,642.10

Phase: 08 -- Bid Assistance

Labor

Class	Hours	Rate	Amount
Authority Engineer	16.00	141.00	2,256.00
Staff Professional	8.75	110.00	962.50
Associate Professional	52.50	105.00	5,512.50
Sr. Eng Tech	9.50	101.00	959.50
Labor			9,690.50

Phase Subtotal

\$9,690.50

Phase: 09 -- Construction Admin & Inspection

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	1150405
Labor				
<u>Class</u>		<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Authority Engineer		3.50	141.00	493.50
Associate Professional		8.50	105.00	892.50
		Labor		1,386.00
Phase Subtotal				\$1,386.00
		Amount Due This Invoice		\$12,642.10

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 12/29/2022

Project: EGMAU21004
Pennoni Job No.: HM Estates Sewer Design & Permitting
Invoice No: 1150405
Invoice Period: 10/3/2022 to 12/18/2022
Initial Authorization: \$ 64,800.00 **Date:** 12/29/2022
Contract Amount: \$ 87,300.00
Previously Invoiced: \$ 77,026.15
Current Invoice: \$ 12,642.10
Invoiced to Date (\$): \$ 89,668.25
Invoiced to Date (%): 103%
Remaining Budget (\$): \$ (2,368.25)
Remaining Budget (%): -3%

Budget by Phase:

Phase Name: HM Estates Sewer Design & Permitting
Phase Budget: \$ 87,300.00
Previously Invoiced: \$ 77,026.15
Current Invoice: \$ 12,642.10
Invoiced to Date (\$): \$ 89,668.25
Invoiced to Date (%): 103%
Remaining Budget (\$): \$ (2,368.25)
Remaining Budget (%): -3%

Comments: Phases 04 and 05 - Finalized plans, specifications, and bid documents.

Phase 08 - Set up solicitation on PennBID, provided advertisement to Township, conducted 1st pre-bid meeting at the site, responded to questions from prospective bidders, follow-up pre-bid meeting including preparation and issuance of Addendum #1 plans and specs updates and guidance to Township on additional sanitary and storm sewer piping materials to purchase, conducted for 2nd pre-bid site meeting conducted bid opening, prepared unofficial bid tabulation, discussed LSA grant status with funding agency, strategized award approach with Township due to delayed LSA grant awards, and performed reference checks for the low bidder.

Phase 09 - Prepared Intent to Award and Manhole Ordering Payment Commitment letters to contractor, reviewed manhole and endwall shop drawings, and initiated preparation of Construction Issue plan set with improved pipe slopes since all manholes are expected to be awarded for replacement



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 : 1150409
Invoice Date : 12/29/2022
Project : EGMAU22001
Project Name : 2022 General
Services

For Services Rendered Through 12/18/2022

October and November Engineer's Reports. Prepared for and attended October's and November's MA meetings including review of RCSTP operator's reports.

Ridley Creek Sewer Main Concrete Encasement: Pre-application meeting for emergency permitting with PADEP, prepared and submitted emergency permit application package to PADEP, reviewed emergency permit approval from PADEP, pre-construction coordination with M. Miller, and prepared full GP-11 permit application for submission in follow-up to emergency authorization.

Evaluated alternatives and feasibility of sewer connection for proposed house at 1671-1681 Strasburg Road.

Billing Limits	Current	Prior	To-Date
Total Billings	3,384.75	27,321.50	30,706.25
Limit			35,000.00
Remaining			4,293.75

Labor

	Hours	Rate	Amount
Authority Engineer	13.25	141.00	1,868.25
Associate Professional	8.25	105.00	866.25
Graduate Professional	5.25	95.00	498.75
Sr. Eng Tech	1.50	101.00	151.50
Totals	28.25		3,384.75
Total Labor			3,384.75
Total this Invoice			<u><u>\$3,384.75</u></u>

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

2022 General Services
EGMAU22001 Invoice Summary
Invoice Date 12/29/2022

Project: EGMAU22001
Pennoni Job No.: 2022 General Services
Invoice No: 1150409
Invoice Period: 10/3/2022 to 12/18/2022
Initial Authorization: \$ 35,000.00 **Date:** 12/29/2022
Contract Amount: \$ 35,000.00
Previously Invoiced: \$ 27,321.50
Current Invoice: \$ 3,384.75
Invoiced to Date (\$): \$ 30,706.25
Invoiced to Date (%): 88%
Remaining Budget (\$): \$ 4,293.75
Remaining Budget (%): 12%

Budget by Phase:

Phase Name: 2022 General Services
Phase Budget: \$ 35,000.00
Previously Invoiced: \$ 27,321.50
Current Invoice: \$ 3,384.75
Invoiced to Date (\$): \$ 30,706.25
Invoiced to Date (%): 88%
Remaining Budget (\$): \$ 4,293.75
Remaining Budget (%): 12%

Comments: October and November Engineer's Reports. Prepared for and attended November's MA meeting including review of RCSTP operator's report.

Ridley Creek Sewer Main Concrete Encasement: Pre-application meeting for emergency permitting with PADEP, prepared and submitted emergency permit application package to PADEP, reviewed emergency permit approval from PADEP, pre-construction coordination with M. Miller, and and prepared full GP-11 permit application for submission in follow-up to emergency authorization.

Evaluated alternatives and feasibility of sewer connection for proposed house at 1671-1681 Strasburg Road.



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 : 1150410
Invoice Date : 12/29/2022
Project : EGMAU22004
Project Name : RCSTP UV
Replacement

For Services Rendered Through 12/18/2022

Continued preparation of structural design for raising the concrete walls in the channel and returned UV equipment submittals with comments for fabrication.

Billing Limits	Current	Prior	To-Date
Total Billings	1,178.75	27,310.50	28,489.25
Limit			30,000.00
Remaining			1,510.75

Labor

	Hours	Rate	Amount
Authority Engineer	.25	141.00	35.25
Senior Professional	7.75	134.00	1,038.50
Associate Professional	1.00	105.00	105.00
Totals	9.00		1,178.75
Total Labor			1,178.75
Total this Invoice			<u>\$1,178.75</u>

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

RCSTP UV Replacement
EGMAU22004 Invoice Summary
Invoice Date 12/29/2022

Project: EGMAU22004
Pennoni Job No.: RCSTP UV Replacement
Invoice No: 1150410
Invoice Period: 10/3/2022 to 12/18/2022
Initial Authorization: \$ 30,000.00 **Date:** 12/29/2022
Contract Amount: \$ 30,000.00
Previously Invoiced: \$ 27,310.50
Current Invoice: \$ 117.75
Invoiced to Date (\$): \$ 27,428.25
Invoiced to Date (%): 91%
Remaining Budget (\$): \$ 2,571.75
Remaining Budget (%): 9%

Budget by Phase:

Phase Name:	RCSTP UV Replacement	1129796
Phase Budget:	\$ 30,000.00	
Previously Invoiced:	\$ 27,310.50	
Current Invoice:	\$ 117.75	
Invoiced to Date (\$):	\$ 27,428.25	
Invoiced to Date (%):	91%	
Remaining Budget (\$):	\$ 2,571.75	
Remaining Budget (%):	9%	

Comments: Continued preparation of structural design for raising the concrete walls in the channel and returned UV equipment submittals with comments for fabrication.

Memo

To: Municipal Authority
From: Dave Ware
Re: 2023 Proposed Budget for the MA
Date: January 9, 2023

Gentlemen,

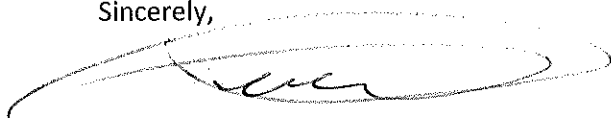
I wanted to share the 2023 Proposed Municipal Authority Budget with you all.

Expenses are driving the revenue needed from the Sewer Operating Fund and Sewer Capital Reserve Fund for 2023. We also anticipate grant reimbursement for the RCSTP Caustic Soda project.

The majority of expenses are necessitated by projects and ongoing infrastructure maintenance. We anticipate upgrades to the Hershey Mill Pump Station, relining of Suplee Valley AC pipe, final payments for the Westtown Way Pump Station improvements, rebuild/install SBR and Sludge pumps at the RCSTP, replace the RCSTP generator, completion of the Hershey's Mill Estates Sewer Rehabilitation, completion of the Caustic Soda Project, manhole lining, new RC flow meter and media for filters, and a replacement Muffin Monster. That's over \$1.5M needed from Reserves and the Operating Fund. Even with the sewer fixed rate increase of \$20/QTR implemented in Q4 2022, I project a \$159K balance reduction in the Sewer Operating Fund and a \$648K reduction in the Sewer Reserve Fund. Hopefully, with the majority of work done in 2023 as outlined in the 5 Year Capital Plan (included in the agenda), we will be able to transfer more dollars each year from Operating to Reserve, and that the current interest rate environment will help grow those savings. In 2023, I plan to work on an extensive asset management plan for the sewer plant and system to understand the need for sewer rate increases for the next 10 years. Then I can begin the process of educating our populace about the system, its costs and age, and the plan of any rate increase as well as why.

I hope this provides some clarity to the figures shared in the 2023 MA Budget. Please note that I have not included outstanding grant money that has not been awarded as of this date.

Sincerely,



Dave Ware
Director of Finance
East Goshen Township

Recommended motion: Mr. Chairman, I make the motion we adopt the 2023 Proposed Municipal Authority Budget with both revenue and expenses of \$1,730,115 for a \$0 net result.

Account Title	Acct #	2021 Actual REFUSE FUND, 530,140	2022 Budget 2022 Budget 494,810	2022 Projection 2023 BUDGET 494,810	2023 Adopted Budget	\$ Increase (vs '22 Proj)	% Increase
ESTIMATED BEGINNING FUND BALANCE							
REVENUE					566,726		
INTEREST EARNINGS	06341 1000	165	175	614	6,000	5,386	877.9%
REVENUE - REFUSE FEES	06364 2000	994,965	1,312,604	1,312,604	1,317,332	4,728	0.4%
REVENUE - REFUSE PENALTIES	06364 2010	9,743	13,532	10,532	10,853	321	3.1%
REVENUE - LIEN PAYMENTS	06364 2025	26,313	20,298	22,798	24,713	1,915	8.4%
REVENUE - REFUSE CERTIFICATION FEES	06364 2030	1,250	1,200	2,205	2,250	45	2.0%
REVENUE - MISCELLANEOUS GRANTS	06364 2040	38,694	10,000	58,481	30,710	(27,771)	-47.5%
MISCELLANEOUS REFUSE REVENUE	06380 1000	3,075	-	-	168,000	168,000	
TOTAL REVENUE		1,074,206	1,357,809	1,407,234	1,559,859	152,625	10.8%
EXPENSES							
REFUSE - WAGES	06427 1400	65,889	68,000	68,000	71,400	3,400	5.0%
MATERIALS & SUPPLIES	06427 2440	5,686	-	5,095	159,000	153,905	3020.7%
GENERAL EXPENSE	06427 3000	130	205	205	215	10	5.0%
ADMIN - PAYMENT PORTAL	06427 3001	6,891	5,172	7,172	7,250	78	1.1%
PROFESSIONAL SERVICES	06427 3100	-	-	-	17,667	17,667	
LEGAL SERVICES	06427 3140	4,616	5,000	1,000	5,000	4,000	400.0%
POSTAGE	06427 3250	4,726	4,813	4,813	15,250	10,437	216.9%
ADVERTISING & PRINTING	06427 3400	722	1,040	1,648	2,000	352	21.3%
ADMIN.BLDG.OVERHEAD	06427 3730	5,976	8,195	8,195	8,000	(195)	-2.4%
CONTRACTED SERV.	06427 4500	694,920	912,598	912,598	985,606	73,008	8.0%
LANDFILL FEES	06427 4502	308,812	321,132	316,132	322,938	6,807	2.2%
COUNTY-HAZARD.WASTE PROG.	06427 4503	-	-	-	-	-	
RECYCLING FEES	06427 4504	10,546	31,654	10,000	10,000	(0)	0.0%
LOCK BOX FEE	06427 5000	-	-	-	-	-	
Bank Fees	06427 5001	621	-	460	500	40	8.7%
TRANSFER TO CREDIT CARD FUND	06492 0110	-	-	-	-	-	
TOTAL EXPENSES		1,109,535	1,357,809	1,335,318	1,604,826	269,508	20.2%
NET RESULT FROM OPERATIONS		(35,330)	0	71,915	(44,967)		
ESTIMATED ENDING FUND BALANCE		494,810	494,810	566,726	521,758		

2023-2027 Capital Improvement Program



Hershey's Mill Estates Sewer, Milltown Dam, & WG STP

Category	2023	2024	2025	2026	2027
Milltown Dam	\$ 2,563,170.00	\$ 1,670,900			
Hershey Mill Estates Sewer	\$ 488,846.72				
Bow Tree Pond I	\$ 500,000				
West Goshen Sanitary Treatment Plant					
Improvements (Including Westtown Way Pump Station)	\$ 573,703.74	\$ 68,217	\$ 12,503	\$ 35,478	\$ 49,039
Total	\$ 4,125,720.46	\$ 1,739,117	\$ 12,503	\$ 35,478	\$ 49,039
Category	2023	2024	2025	2026	2027
Capital Reserve Fund	\$ 1,347,283	\$ 555,900			
Sewer Capital Reserve Fund	\$ 676,053	\$ 68,217	\$ 12,503	\$ 35,478	\$ 49,039
Grants		\$ 915,000			
Series 2017 Bonds	\$ 1,602,385	\$ 200,000			
Infrastructure Sustainability Fund	\$ 500,000				
Total	\$ 4,125,720.46	\$ 1,739,117	\$ 12,503	\$ 35,478	\$ 49,039

Notes:

- Assumes that ½ of Milltown Mill Dam work occurs in 2023, ½ in 2024.
- Hershey's Mill Estates Sewer Rehabilitation starts in 2022.

2023-2027 Capital Improvement Program



Sewer Capital Maintenance (RC STP & Pump Stations) (Except West Goshen Upgrades & HM Estates)

Category	2023	2024	2025	2026	2027
Hunt Country/HM Lift Station Pump Replacement		\$ 20,000	\$ 20,000		
Hunt Country P/S Mag Meter		\$ 15,000			
Hunt Country P/S Muffin Monster		\$ 67,000			
Hunt Country P/S Bypass Pump		\$ 5,000			
Relining AC sewer lines and brick manholes	\$ 260,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000
Ridley Creek STP rebuild 2 SBR pumps	\$ 25,000				
Ridley Creek STP rebuild 2 Sludge pumps	\$ 10,000				
Ridley Creek STP New Media for filters	\$ 18,000				
Ridley Creek STP replace generator	\$ 225,000				
Ridley Creek STP Collection Flow Meter	\$ 24,000				
Ridley Creek STP Caustic Soda Project*	\$ 47,500				
Ridley Creek STP Filter Feed Pump**	\$ 18,000	\$ 18,000	\$ 26,000	\$ 18,000	\$ 18,000
Ridley Creek STP Blower Replacement	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000	\$ 9,000
Ridley Creek STP UV System	\$ 150,000				
Chester Creek Coll manhole lining (Eastwick Circle) for 5 manholes	\$ 50,000				
Chester Creek Coll HM Pumpstation upgrade	\$ 78,000				
Chester Creek Coll Muffin Monster swap out	\$ 18,000		\$ 18,000		\$ 18,000
Total	\$ 932,500	\$ 264,000	\$ 203,000	\$ 157,000	\$ 175,000
Category	2023	2024	2025	2026	2027
Capital Reserve Fund					
Sewer Capital Reserve Fund	\$ 885,000	\$ 264,000	\$ 203,000	\$ 157,000	\$ 175,000
Grants	\$ 47,500				
Series 2017 Bonds					
Infrastructure Sustainability Fund					
Total	\$ 932,500	\$ 264,000	\$ 203,000	\$ 157,000	\$ 175,000

* DCED has awarded MA \$152,980 grant for Caustic Soda project.

** 2025 Filter Feed Pump is for centrifuge rebuild.

EAST GOSHEN TOWNSHIP
Municipal Authority Fund
December 2022

<u>Account Id</u>	<u>Account Description</u>	<u>Annual Budget</u>	<u>Current YTD</u>	<u>Prior YTD</u>
REVENUE				
07-341-1000	INTEREST EARNINGS	0.00	6.55	2.93
07-354-0400	DCED GRANT	152,980.00	0	0
07-364-1100	C.C. TAPPING FEES	2,000.00	2,300.00	2,060.00
07-364-1110	R.C.TAPPING FEES	2,000.00	2,089.20	11,508.00
07-364-1130	CONNECTION FEES - SEWER	1,000.00	563.76	3,367.76
07-380-1000	MISCELLANEOUS REVENUE	0.00	282.24	2,664.48
07-392-0500	TRANSFER FROM SEWER OPERATING	130,000.00	82,607.15	90,338.41
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	476,930.00	286,656.90	179,592.49
	Total Revenue	764,910.00	374,505.80	289,534.07
EXPENSES				
07-424-1400	ADMINISTRATIVE WAGES	30,529.00	33,488.20	30,920.37
07-424-3000	MISCELLANEOUS EXPENSE	1,500.00	1,665.25	1,693.25
07-424-3110	MUNIC.AUTH.-AUDITING	10,300.00	10,250.00	10,000.00
07-424-3130	ENGINEERING SERVICES	45,000.00	42,469.00	55,388.56
07-424-3140	LEGAL SERVICES	8,000.00	6,640.00	9,193.82
07-424-7440	R.C. CAPITAL-STP	315,000.00	0	0
07-424-7490	CAP.REPLACEMENT R.C.	41,400.00	0	-10,984.77
07-426-3001	RELINING	130,000.00	0	0
07-429-1501	BARKWAY PUMP STATION CAPITAL	0.00	2,215.00	5,117.00
07-429-1502	ASHBRIDGE PUMP STATION CAPITAL	0.00	11,493.05	30,324.00
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	0.00	153,398.99	76,692.71
07-429-1504	HUNT CO PUMP STATION CAPITAL	0.00	1,870.00	8,277.00
07-429-1505	RCSTP CAPITAL	46,897.00	125,624.18	67,250.98
07-429-6100	WEST GOSHEN CAPITAL	136,284.00	0	0
07-491-5001	BANK FEES	0.00	0	414.00
07-492-0100	TRANSFER TO GENERAL FUND	0.00	212.99	0
	Total Expenses	764,910.00	389,326.66	284,286.92
	Net Result From Operations	0.00	-14,820.86	5,247.15

Municipal Authority

YTD Revenues and Expenses thru 12/31/2022

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-341-1000	INTEREST EARNINGS	01/31/22	Revenue Journal	INTEREST EARNED JANUARY 2022 07 FUND	0.19
07-341-1000	INTEREST EARNINGS	02/28/22	Revenue Journal	INTEREST EARNED FEBRUARY 2022 07100.1035	0.18
07-341-1000	INTEREST EARNINGS	03/31/22	Revenue Journal	INTEREST EARNED MARCH 2022 07 FUND	0.17
07-341-1000	INTEREST EARNINGS	04/30/22	Revenue Journal	INTEREST EARNED APRIL 2022 07100	0.15
07-341-1000	INTEREST EARNINGS	05/31/22	Revenue Journal	INTEREST EARNED MAY 2022 07 FUND	0.09
07-341-1000	INTEREST EARNINGS	06/30/22	Revenue Journal	INTEREST EARNED JUNE 2022 07 FUND	0.10
07-341-1000	INTEREST EARNINGS	07/31/22	Revenue Journal	INTEREST EARNED JULY 2022 07 FUND	0.42
07-341-1000	INTEREST EARNINGS	08/31/22	Revenue Journal	INTEREST EARNED AUGUST 2022	0.92
07-341-1000	INTEREST EARNINGS	09/30/22	Revenue Journal	INTEREST EARNED SEPTEMBER 2022	0.29
07-341-1000	INTEREST EARNINGS	11/04/22	Revenue Journal	INTEREST EARNED OCTOBER 2022	3.20
07-341-1000	INTEREST EARNINGS	12/05/22	Revenue Journal	INTEREST EARNED NOVEMBER 2022	0.84
07-364-1100	C.C. TAPPING FEES	07/13/22	Revenue Journal	1344 MORSTEIN RD C.C. TAPPING FEES	2,000.00
07-364-1100	C.C. TAPPING FEES	07/13/22	Revenue Journal	1344 MORSTEIN RD C.C. TAPPING FEES	300.00
07-364-1110	R.C.TAPPING FEES	05/18/22	Revenue Journal	706 HEMLOCK HILL SEWER INSPECT R.C.TAPPI	300.00
07-364-1110	R.C.TAPPING FEES	08/01/22	Revenue Journal	TAP IN FEE 1577 COLONIAL R.C.TAPPING FEE	297.84
07-364-1110	R.C.TAPPING FEES	08/01/22	Revenue Journal	SEWER INSP FEE 1577 COLONIAL R.C.TAPPING	300.00
07-364-1110	R.C.TAPPING FEES	09/01/22	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	10/03/22	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	11/01/22	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	12/01/22	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1130	CONNECTION FEES - SEWER	02/02/22	Revenue Journal	STOFFLET, MICHAEL	423.00
07-364-1130	CONNECTION FEES - SEWER	02/02/22	Revenue Journal	ANNUAL PINK ROCK INSTALLMENT INTEREST PO	-141.12
07-364-1130	CONNECTION FEES - SEWER	08/18/22	Revenue Journal	PAPPANO, JOSEPH & PATRICIA	423.00
07-364-1130	CONNECTION FEES - SEWER	08/18/22	Revenue Journal	ANNUAL PINE ROCK INSTALLMENT INTEREST PO	-141.12
07-380-1000	MISCELLANEOUS REVENUE	02/02/22	Revenue Journal	ANNUAL PINK ROCK INSTALLMENT INTEREST PO	141.12
07-380-1000	MISCELLANEOUS REVENUE	08/18/22	Revenue Journal	ANNUAL PINE ROCK INSTALLMENT INTEREST PO	141.12
07-392-0500	TRANSFER FROM SEWER OPERATING	01/13/22	Revenue Journal	XFER \$ TO MA FROM SEWER & SEWER CAP.RE:	5,497.00
07-392-0500	TRANSFER FROM SEWER OPERATING	02/16/22	Revenue Journal	XFER \$ FROM 05 & 09 RE: JAN. 2022 MA EXP	6,324.50
07-392-0500	TRANSFER FROM SEWER OPERATING	03/08/22	Revenue Journal	XFER \$ FROM SEWER & SEWER CAPITAL TO MA	660.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/11/22	Revenue Journal	XFER \$ FROM 05 TO 07 MA AUTH.	360.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/18/22	Revenue Journal	XFER \$ FROM 05 TO 07 RE: 07 EXPENSES	7,000.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/30/22	Revenue Journal	XFER \$ FROM 05 TO 07 TO COVER MA EXPENSE	8,372.05
07-392-0500	TRANSFER FROM SEWER OPERATING	04/14/22	Revenue Journal	XFER \$ FROM 05 & 09 TO MA RE: APRIL EXPE	10,814.00
07-392-0500	TRANSFER FROM SEWER OPERATING	05/04/22	Revenue Journal	XFER \$ FROM 05 TO MA TO COVER EXPENSES	3,690.00
07-392-0500	TRANSFER FROM SEWER OPERATING	05/13/22	Revenue Journal	XFER \$ TO MA RE: MAY EXPENSES FROM 05 &	1,283.50
07-392-0500	TRANSFER FROM SEWER OPERATING	06/07/22	Revenue Journal	CORRECT MA \$ XFER TRX 83370 5/13/22	-1,283.50
07-392-0500	TRANSFER FROM SEWER OPERATING	06/07/22	Revenue Journal	CORRECT MA \$ XFER TRX 83370 5/13/22	5,302.50
07-392-0500	TRANSFER FROM SEWER OPERATING	06/16/22	Revenue Journal	XFER FUNDS TO MA FROM SEWER & SEWER CAPI	2,970.50
07-392-0500	TRANSFER FROM SEWER OPERATING	07/01/22	Revenue Journal	XFER \$ FROM 05 TO 07 TO COVER MA EXPENSE	8,372.05

Municipal Authority
YTD Revenues and Expenses thru 12/31/2022

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-392-0500	TRANSFER FROM SEWER OPERATING	07/13/22	Revenue Journal	XFER \$ FROM 05 & 09 TO MA AUTHORITY RE:	2,111.25
07-392-0500	TRANSFER FROM SEWER OPERATING	08/16/22	Revenue Journal	XFER \$ FROM SEWER & SEWER CAP. TO MA TO	920.00
07-392-0500	TRANSFER FROM SEWER OPERATING	09/13/22	Revenue Journal	XFER TO MA TO COVER AUG.EXPENSES	2,451.00
07-392-0500	TRANSFER FROM SEWER OPERATING	09/30/22	Revenue Journal	XFER FR: 05 TO 07 RE: Q3 2022 CHGBACK	8,372.05
07-392-0500	TRANSFER FROM SEWER OPERATING	10/19/22	Revenue Journal	XFER FROM 05 TO COVER 07 EXPENSES	4,966.00
07-392-0500	TRANSFER FROM SEWER OPERATING	11/17/22	Revenue Journal	XFER TO 07 FROM 05 TO COVER EXPENSES	3,924.25
07-392-0500	TRANSFER FROM SEWER OPERATING	12/15/22	Revenue Journal	XFER \$ TO 07 RE: EXPENSES	500.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/13/22	Revenue Journal	XFER \$ TO MA FROM SEWER & SEWER CAP.RE:	18,986.13
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	02/16/22	Revenue Journal	XFER \$ FROM 05 & 09 RE: JAN. 2022 MA EXP	1,217.25
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/08/22	Revenue Journal	XFER \$ FROM SEWER & SEWER CAPITAL TO MA	6,831.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	04/14/22	Revenue Journal	XFER \$ FROM 05 & 09 TO MA RE: APRIL EXPE	25,600.37
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	05/13/22	Revenue Journal	XFER \$ TO MA RE: MAY EXPENSES FROM 05 &	5,302.50
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	06/07/22	Revenue Journal	CORRECT MA \$ XFER TRX 83370 5/13/22	-5,302.50
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	06/07/22	Revenue Journal	CORRECT MA \$ XFER TRX 83370 5/13/22	1,283.50
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	06/16/22	Revenue Journal	XFER FUNDS TO MA FROM SEWER & SEWER CAPI	12,592.90
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	07/13/22	Revenue Journal	XFER \$ FROM 05 & 09 TO MA AUTHORITY RE:	21,785.60
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	07/28/22	Revenue Journal	XFER \$ FROM 09 TO 07 TO COVER 07 EXPENSE	16,131.57
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	08/16/22	Revenue Journal	XFER \$ FROM SEWER & SEWER CAP. TO MA TO	18,030.91
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	08/31/22	Revenue Journal	Xfer \$ from 09 to 07 for expenses	212.99
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	09/08/22	Revenue Journal	TRANSFER FROM 09 TO COVER 07 EXPENSES	545.94
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	09/13/22	Revenue Journal	XFER TO MA TO COVER AUG.EXPENSES	2,120.75
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	09/29/22	Revenue Journal	XFER FROM 09 TO 07 TO COVER EXPENSES	160.44
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	10/14/22	Revenue Journal	XFER \$ TO COVER 07 EXPENSES	318.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	10/19/22	Revenue Journal	XFER FROM 09 TO COVER 07 EXPENSES	122,917.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	10/26/22	Revenue Journal	XFER FROM 09 TO 07 FOR MA EXPENSES	5,221.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	11/16/22	Revenue Journal	XFER FROM 09 TO 07 FOR EXPENSES	5,417.41
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	11/17/22	Revenue Journal	XFER TO 07 FROM 09 TO COVER EXPENSES	1,601.10
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	11/18/22	Revenue Journal	XFER \$ FROM 09 TO 07 TO COVER EXPENSE	4,453.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	12/01/22	Revenue Journal	XFER \$ FROM 09 TO 07 RE: MA EXPENSES	16,009.04
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	12/14/22	Revenue Journal	XFER FROM 09 TO 07	5,221.00
07-424-1400	ADMINISTRATIVE WAGES	03/30/22	Expd	EAST GOSHEN TOWNSHIP - GENERAL QTR.1 - 2	8372.05
07-424-1400	ADMINISTRATIVE WAGES	06/30/22	Expd	EAST GOSHEN TOWNSHIP - GENERAL QTR.2-202	8372.05
07-424-1400	ADMINISTRATIVE WAGES	09/30/22	Pay Check: 3356	22-00350 Q3 2022 MUNIC.AUTH CHARGEBACK	8372.05
07-424-1400	ADMINISTRATIVE WAGES	12/29/22	Pay Check: 3376	22-01049 Q4-2022 MUN.AUTH.CHARGEBACK	8372.05
07-424-3000	MISCELLANEOUS EXPENSE	01/13/22	Expd	PENNSYLVANIA MUNICIPAL AUTHORITIES ASSO	880.25
07-424-3000	MISCELLANEOUS EXPENSE	03/08/22	Expd	DELAWARE RIVER BASIN COMMISSION ANNL MON	660
07-424-3000	MISCELLANEOUS EXPENSE	06/30/22	Expd	PETTY CASH PA MUNIC. AUTH.WORKSHOP - W.W	125
07-424-3110	MUNIC.AUTH.-AUDITING	03/18/22	Expd	MAILLIE FALCONIERO & CO. MUNICIPAL AUTH.	7000

Municipal Authority
YTD Revenues and Expenses thru 12/31/2022

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-424-3110	MUNIC.AUTH.-AUDITING	05/03/22	Expd	MAILLE FALCONIERO & CO. FINAL BILLING -	3250
07-424-3130	ENGINEERING SERVICES	01/13/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 12	4076.75
07-424-3130	ENGINEERING SERVICES	02/16/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 1/	5664.5
07-424-3130	ENGINEERING SERVICES	04/14/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 3/	10814
07-424-3130	ENGINEERING SERVICES	05/12/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 4/	5302.5
07-424-3130	ENGINEERING SERVICES	06/16/22	Expd	PENNONI ASSOCIATES INC. SERV. THRU 5/15/	2610.5
07-424-3130	ENGINEERING SERVICES	07/13/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 6/	1051.25
07-424-3130	ENGINEERING SERVICES	08/16/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 7/	3408.25
07-424-3130	ENGINEERING SERVICES	09/13/22	Pay Check: 3353	22-00112 SERV.THURU 8/14/22 GEN.SERV.	1471
07-424-3130	ENGINEERING SERVICES	10/18/22	Pay Check: 3362	22-00476 SERVICES THRU 9/18/22 GEN.SERV	4566
07-424-3130	ENGINEERING SERVICES	11/17/22	Pay Check: 3369	22-00749 SERV.THURU 10/16/22 2022 GEN.SE	3504.25
07-424-3140	LEGAL SERVICES	01/13/22	Expd	GAWTHROP GREENWOOD & HALSTED LEGAL SERVI	540
07-424-3140	LEGAL SERVICES	02/16/22	Expd	GAWTHROP GREENWOOD & HALSTED LEGAL SERVI	660
07-424-3140	LEGAL SERVICES	03/11/22	Expd	GAWTHROP GREENWOOD & HALSTED LEGAL SERVI	360
07-424-3140	LEGAL SERVICES	05/04/22	Expd	GAWTHROP GREENWOOD & HALSTED LEGAL SERVI	440
07-424-3140	LEGAL SERVICES	06/16/22	Expd	GAWTHROP GREENWOOD & HALSTED LEGAL SERVI	360
07-424-3140	LEGAL SERVICES	07/13/22	Expd	GAWTHROP GREENWOOD & HALSTED LEGAL SERVI	1060
07-424-3140	LEGAL SERVICES	08/16/22	Expd	GAWTHROP GREENWOOD & HALSTED LEGAL SERV.	920
07-424-3140	LEGAL SERVICES	09/13/22	Pay Check: 3352	22-00109 LEGAL SERV. JULY 2022 GEN.AUT	400
07-424-3140	LEGAL SERVICES	09/13/22	Pay Check: 3352	22-00110 LEGAL SERV. AUG.2022 GEN.AUTH	580
07-424-3140	LEGAL SERVICES	10/18/22	Pay Check: 3361	22-00475 LEGAL SERV. 9/2022 GEN.AUTH.	400
07-424-3140	LEGAL SERVICES	11/17/22	Pay Check: 3368	22-00746 LEGAL SERV. GEN.AUTH 10/2022	420
07-424-3140	LEGAL SERVICES	12/15/22	Pay Check: 3375	22-00960 LEGAL SERVICE - NOVEMBER 2022	500
07-429-1501	BARKWAY PUMP STATION CAPITAL	01/13/22	Expd	DECKMAN MOTOR & PUMP INC. REBUILT HYDROM	2215
07-429-1502	ASHBRIDGE PUMP STATION CAPITAL	04/14/22	Expd	DECKMAN MOTOR & PUMP INC. 2 REBUILT FAIR	8632
07-429-1502	ASHBRIDGE PUMP STATION CAPITAL	06/16/22	Expd	COLONIAL ELECTRIC SUPPLY REPLACE DISCONN	2861.05
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	01/13/22	Expd	DECKMAN MOTOR & PUMP INC. 2 - REBUILT HY	2709
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	01/13/22	Expd	JWC ENVIRONMENTAL MUFFIN MONSTER	11255.01
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	01/13/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 12	3852.69
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	02/16/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 1/	1217.25
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	03/08/22	Expd	KAPPE ASSOCIATES MAGNETIC FLOW METER	6831
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	03/17/22	Expd	JWC ENVIRONMENTAL VOID CK.#3301 - LOST I	-11255.01
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	03/17/22	Expd	JWC ENVIRONMENTAL REPLACEMENT CK.FOR 330	11255.01
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	04/14/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 3/	3403.62
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	06/16/22	Expd	PENNONI ASSOCIATES INC. SERV. THRU 5/15/	121.6
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	10/18/22	Pay Check: 3360	22-00474 HME SEWER REPLACEMENT MATERIAL	118975.5
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	11/16/22	Pay Check: 3366	22-00626 REBUILT HYDROMATIC PUMP	4514
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	11/17/22	Pay Check: 3369	22-00748 SERV.THURU 10/16/22 HM ESTATES	519.32

Municipal Authority
YTD Revenues and Expenses thru 12/31/2022

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-429-1504	HUNT CO PUMP STATION CAPITAL	01/13/22	Expd	DECKMAN MOTOR & PUMP INC. REBUILT HYDROM	1870
07-429-1505	RCSTP CAPITAL	04/14/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 3/	13564.75
07-429-1505	RCSTP CAPITAL	05/12/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 4/	1283.5
07-429-1505	RCSTP CAPITAL	06/16/22	Expd	PENNONI ASSOCIATES INC. SERV. THRU 5/15/	4005.25
07-429-1505	RCSTP CAPITAL	06/16/22	Expd	TELEDYNE INSTRUMENTS INC. ULTRASONIC FLO	5605
07-429-1505	RCSTP CAPITAL	07/13/22	Expd	COLONIAL ELECTRIC SUPPLY ELECTRICAL PART	3055.6
07-429-1505	RCSTP CAPITAL	07/13/22	Expd	TRACOM FIBERGLASS PRODUCTS FIBERGLASS MA	18730
07-429-1505	RCSTP CAPITAL	07/28/22	Expd	EXETER SUPPLY COMPANY INC MAX-ADAPTERS-1	3010.68
07-429-1505	RCSTP CAPITAL	07/28/22	Expd	LEC - LENNI ELECTRIC CORPORATION TROUBLE	6148.48
07-429-1505	RCSTP CAPITAL	07/28/22	Expd	MAIN LINE CONCRETE 3 CYDS CONCRETE 4000	1638.3
07-429-1505	RCSTP CAPITAL	07/28/22	Expd	NEW ENTERPRISE STONE & LIME INC. 47.61 T	5334.11
07-429-1505	RCSTP CAPITAL	08/05/22	Expd	LOWES BUSINESS ACCOUNT/GEFC TREATED LUMB	7034.29
07-429-1505	RCSTP CAPITAL	08/16/22	Expd	EXETER SUPPLY COMPANY INC SEWER PVC PIPE	3292.35
07-429-1505	RCSTP CAPITAL	08/16/22	Expd	FOLEY INC. EXCAVATOR, COUPLER & BUCKET R	5611
07-429-1505	RCSTP CAPITAL	08/16/22	Expd	KNOX EQUIPMENT RENTALS INC. LIGHT BANK R	544.5
07-429-1505	RCSTP CAPITAL	08/16/22	Expd	MAIN LINE CONCRETE 3.5 YDS CONCRETE 4000	671
07-429-1505	RCSTP CAPITAL	08/16/22	Expd	PENNONI ASSOCIATES INC. SERVICES THRU 7/	461.5
07-429-1505	RCSTP CAPITAL	08/16/22	Expd	TRENCHTECH INC. SHORING TO INSTALL METER	3122.56
07-429-1505	RCSTP CAPITAL	08/16/22	Expd	YALE ELECTRIC SUPPLY CO ELECTRICAL PARTS	919.75
07-429-1505	RCSTP CAPITAL	09/07/22	Pay Check: 3350	22-00049 DECK SCREWS, ANCHORS PLUS	471.07
07-429-1505	RCSTP CAPITAL	09/07/22	Pay Check: 3350	22-00049 DOUBLE JOINT HANGERS & NAILS	74.87
07-429-1505	RCSTP CAPITAL	09/13/22	Pay Check: 3353	22-00111 SERV.THUR 8/14/22 RCSTP SODA	192.75
07-429-1505	RCSTP CAPITAL	09/13/22	Pay Check: 3353	22-00113 SERV.THUR 8/14/22 RCSTP UV	1928
07-429-1505	RCSTP CAPITAL	09/19/22	Pay Check: 3354	22-00191 SELECT STUDS, QUIKRETE, JOIST.	475.7
07-429-1505	RCSTP CAPITAL	09/28/22	Pay Check: 3355	22-00297 DECK SCREENS & DRILL BITS	160.44
07-429-1505	RCSTP CAPITAL	10/11/22	Pay Check: 3357	22-00389 SKID STEER RENTL W/ATTACHMENTS	1140
07-429-1505	RCSTP CAPITAL	10/11/22	Pay Check: 3358	22-00404 PARTS FOR RCSTP DECK	58.2
07-429-1505	RCSTP CAPITAL	10/11/22	Pay Check: 3359	22-00449 ELECTRICAL PARTS RCSTP METER	259.8
07-429-1505	RCSTP CAPITAL	10/18/22	Pay Check: 3362	22-00477 SERV.THUR 9/18/22 RCSTP UV	3941.5
07-429-1505	RCSTP CAPITAL	10/25/22	Pay Check: 3363	22-00497 Heliflow 408 PD Blower	5221
07-429-1505	RCSTP CAPITAL	11/07/22	Void Check: 3359	22-00449 ELECTRICAL PARTS RCSTP METER	259.8
07-429-1505	RCSTP CAPITAL	11/07/22	Pay Check: 3364	22-00449 ELECTRICAL PARTS RCSTP METER	259.8
07-429-1505	RCSTP CAPITAL	11/16/22	Pay Check: 3365	22-00619 VARIOUS PARTS FOR RCSTP METER	450.27
07-429-1505	RCSTP CAPITAL	11/16/22	Pay Check: 3367	22-00727 ADAPTERS, LOCKNUTS, FITTINGS +	96.91
07-429-1505	RCSTP CAPITAL	11/16/22	Pay Check: 3367	22-00728 MOUNT FIXTURE, PIPE, PVC PLUS	356.23
07-429-1505	RCSTP CAPITAL	11/17/22	Pay Check: 3369	22-00747 SERV.THUR 10/16/22 RCSTP SODA	501.53
07-429-1505	RCSTP CAPITAL	11/17/22	Pay Check: 3369	22-00750 SERV.THUR 10/16/22 RCSTP UV	580.25
07-429-1505	RCSTP CAPITAL	11/18/22	Expd	CRED.CARD EXPENSE - BADBOY BLASTER	4453
07-429-1505	RCSTP CAPITAL	11/30/22	Pay Check: 3370	22-00764 REBUILT MYERS PUMPS (2)	8621
07-429-1505	RCSTP CAPITAL	11/30/22	Pay Check: 3371	22-00788 INSTALL NEW FLOW METER RCSTP	5916.82

Municipal Authority
YTD Revenues and Expenses thru 12/31/2022

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-429-1505	RCSTP CAPITAL	11/30/22	Pay Check: 3372	22-00804 INSTALL WIDE WALK GATE -RCSTP	1450
07-429-1505	RCSTP CAPITAL	11/30/22	Pay Check: 3373	22-00819 TAYMAC GRAY IN-USE COVERS	21.22
07-429-1505	RCSTP CAPITAL	12/14/22	Pay Check: 3374	22-00868 HELIFLOW 408 PD BLOWER	5221
07-492-0100	TRANSFER TO GENERAL FUND	08/31/22	Expd	Reimburse 01 for 07 cred.card expense	212.99

East Goshen Municipal Authority – 2023 Goals

Responsibilities

The Municipal Authority, which is a legally separate entity from the Township, is responsible for financing the construction, expansion, monitoring, and upgrade of the Township's sewage collection and treatment infrastructure

2022 Accomplishments

1. **Continued to operate the Ridley Creek Sewer Treatment Plant (RCSTP) in compliance with PADEP permit requirements.** No permit exceedances in 2022. (pending December 2022 results)
2. **Monitored the Close-out of the West Goshen Sewer Treatment Plant (STP) Upgrades.** The upgrade project is essentially complete.
3. **Continued to monitor the Westtown Way Pumping Station Improvements Project.** Members attended West Goshen Sewer Authority (WGSA) meetings as necessary. Project completion timeline was extended to 2023 due to equipment supply delays.
4. **Continued to implement the Inflow & Infiltration (I&I) Plan for the Sewer System –** The EGMA inspected 33,000 linear feet of sewer line and made 11 repairs (3 were significant). This task is on-going.
5. **Hershey Mill Estates Trunk Sewer Replacement –** Design was completed and bids obtained. Project timeline was delayed to meet requirements of a potential Local Share Account (LSA) grant.
6. **UV (ultraviolet) Disinfection System Replacement -** The equipment has been procured and installation timeline was delayed to meet the requirements of a potential LSA grant.
7. **Installed new flow meter –** Installed new influent flow meter at the RCSTP.

2023 Goals

1. **Continue to Operate The RCSTP in compliance with PADEP permit requirements**
2. **Continue to monitor the Westtown Way Pumping Station Improvements Project.** Members will attend WGSA meetings as necessary. Project completion is expected by summer 2023.

3. **Hershey Mill Estates Trunk Sewer Replacement** – Award contract to low bidder. Complete construction of Hershey Mill Estates sewer replacement (sewer pipe and manholes). Project timeline will be adjusted to meet requirements of a potential Local Share Account (LSA) grant.
4. **UV (ultraviolet) Disinfection System Replacement** – Complete the installation of the replacement UV disinfection system at the RCSTP after the current round of LSA grants have been announced (timeline will be adjusted to meet the requirements of a potential LSA grant).
5. **Supplee Valley Sewer Pipe Lining** – Complete the lining of the sewer system pipes in the Supplee Valley service area
6. **Caustic Soda Project** – Complete the installation of the new caustic soda feed system.
7. **Install new flow meters for the Ridley Creek Collection system** – Install new flow meter near the Blacksmith Shop.
8. **Continue to implement the I&I Plan for the Sewer System**



Christiana Executive Campus
121 Continental Drive, Suite 207
Newark, DE 19713
T: 302-655-4451
F: 302-654-2895
www.pennoni.com

January 6, 2023

EGMAU21004

Derek Davis, Township Manager
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

**RE: Proposal for Construction Phase Services and Updated Bid Phase Effort
Hershey's Mill Estates Sewer Replacement**

Dear Mr. Davis:

Pennoni Associates Inc. (Pennoni) is pleased to submit the following proposal to the East Goshen Municipal Authority for construction administration and inspection services for the Hershey's Mill Estates sanitary sewer replacement. It also addresses increased effort that was required for the bid phase beyond that which was previously estimated.

SCOPE OF SERVICES

1. Bid Assistance

Pennoni provided bid assistance services consisting of attendance at pre-bid meetings on-site, issuance of addenda, response to questions from prospective bidders, re-design of the sewer alignment and access routes to address bidder comments to enhance bid competitiveness, storm sewer and other scope additions requested by the Township, assistance with ordering of materials by the Township, coordination on award and funding with the LSA grant funding agency (PA DCED), review of bids, and recommendation for construction contract award.

The bid assistance work was authorized by the Municipal Authority for payment on a Time and Materials basis for an estimated amount of \$7,500.00 not to be exceeded without approval from the Municipal Authority. The scope and associated level of effort exceeded that which was originally projected since there were two pre-bid meetings (instead of one) and notable plan revisions, scope additions, and addenda based on bidders' feedback in order to maximize the competitiveness of bids which yielded a low bid approximately \$200,000 under budget. Our actual bid assistance effort was \$9,690.50.

We request the Municipal Authority's approval for the additional \$2,190.50.

2. Construction Phase

Pennoni will provide professional services during the construction phase on a Time and Materials basis at our approved hourly rates. Services are expected to include:

- Review of construction submittals and shop drawings
- Attendance at pre-construction and progress meetings
- Assistance with ordering materials and equipment
- Response to Township and contractor questions and RFIs
- Preparation of a Construction Issue Plan set

- Coordination with PADEP regarding the GP-11 permit compliance
- Application for a PADEP permit amendment for additional wetland crossing for secondary construction access off of Tanglewood Drive
- Survey and stakeout of the sanitary sewer easement off of Fox Glove Lane cul-de-sac
- Monitoring of stone and aggregate quantities from Township's supplier
- Review and processing of contractor payment applications and any change orders
- Coordination with PA DCED for use of grant funding if the LSA grant is awarded
- Coordination with adjacent property owners
- Preparation of post-construction record plans based on survey data and redline markups from the contractor
- Nearly full-time inspections during pipe installation and trenching and part-time inspections during site preparation, restoration, and other work

The estimated fee for Construction Phase Services is a range based upon a 100-day construction duration as allowed by the construction contract. A schedule has not yet been provided by the contractor. For purposes of this proposal, we assume approximately 30-40 days of active pipe and trench work at 8 hrs/day of inspections and another approximately 30-40 days of site preparation, restoration, and other work at 2 to 4 hrs/day of inspections for a total of approximately 330 to 440 hours of inspections. We also included 8 hours of survey by a 2-person field crew, 120 hours of engineering/office support, and 10 hours for record plans.

DELIVERABLES

We will provide a record plan upon completion of construction based upon redline as-built markups from the contractor.

SCHEDULE

We will perform the scope of services based upon the contractor's schedule.

FEE

Pennoni will provide the above referenced scope of services for Task 2 on a Time and Materials basis, to be billed at the Authority's approved rates for Pennoni, for an estimated fee range of \$50,000 to \$60,000 based on the aforementioned assumptions on duration of work.

BILLING AND PAYMENT

Invoices will be submitted monthly. Payment is due within 30 days of invoicing.

Thank you for the opportunity to provide our professional services to East Goshen Municipal Authority. If you wish to discuss any of the above, please do not hesitate to contact Mike Ellis at 302-351-5236 or mellis@pennoni.com.

If this proposal is acceptable, please execute by signing and returning a copy to this office to serve as our Notice to Proceed.

Respectfully submitted,

PENNONI ASSOCIATES INC.



Michael J. Ellis, PE
Associate Vice President

ACCEPTED BY:

Derek Davis, Township Manager
East Goshen Municipal Authority

DATE:

Sue Smith

From: Mark Miller
Sent: Thursday, January 5, 2023 8:06 PM
To: Sue Smith
Subject: Fwd: Force Main Sketch for Connor Property
Attachments: image001.png; image002.png; FW: 1671 and 1681 Strasburg Rd.

Sue put this under sewer requests.
1671 and 1681 E Strasburg Road

Please attach this to the bottom of report.
This is the property that I spoke of last month. The property owner won't take no for answer. TR Moser sent over this plan doing directional drilling. I sent it over to Mike for his review. I think we need to discuss this plan. The property owner want to have Public Sewer.

Mark S. Miller
Director of Public Works
East Goshen Township
(610) 692-7171 x3402
mmiller@eastgoshen.org

Begin forwarded message:

From: Mark Miller <mmiller@eastgoshen.org>
Date: January 3, 2023 at 7:27:24 PM EST
To: "Moser TR." <tr@moserhomes.com>
Subject: Fwd: Force Main Sketch for Connor Property

TR
Attached is Mikes comments
Mark

Mark S. Miller
Director of Public Works
East Goshen Township
(610) 692-7171 x3402
mmiller@eastgoshen.org

Begin forwarded message:

From: Michael Ellis <MEllis@pennoni.com>
Date: January 3, 2023 at 5:58:08 PM EST
To: Mark Miller <mmiller@eastgoshen.org>
Subject: RE: Force Main Sketch for Connor Property

Mark,

It is extremely long (about 1800 LF), but it's consistent with our attached email recommendation and is considered a better solution than running a sewer service along Strasburg Rd. All of the comments and procedures in that email still apply.

Mike

Michael Ellis, PE

Municipal Division Manager

Pennoni

121 Continental Drive, Suite 207 | Newark, DE 19713

Direct: +1 (302) 351-5236 | **Mobile:** +1 (302) 561-4235

www.pennoni.com | MEllis@Pennoni.com

From: Mark Miller <mmiller@eastgoshen.org>
Sent: Tuesday, January 3, 2023 1:29 PM
To: Michael Ellis <MEllis@Pennoni.com>
Subject: FW: Force Main Sketch for Connor Property

Mike

This is that force main I told you about a while ago. I think it's a little long
Mark

Mark S. Miller

Director of Public Works

East Goshen Township

(610) 692-7171 x3402

mmiller@eastgoshen.org

From: TR.Moser <tr@moserhomes.com>
Sent: Tuesday, January 3, 2023 1:24 PM
To: Mark Miller <mmiller@eastgoshen.org>
Subject: FW: Force Main Sketch for Connor Property

Mark,
We know the township didn't want us going up Strasburg road but could we tap into the public sewer via this plan?

Thank you,

T.R.

T.R. Moser
Managing Member
Moser Construction Management LLC
1171 Lancaster Ave. Suite 201

Berwyn PA 19312
Office: 610.725.0812
Mobile: 484.357.5022
moserhomes.com

From: Dave Gibbons <dgibbons@dlhowell.com>
Sent: Wednesday, December 07, 2022 3:18 PM
To: TR.Moser <tr@moserhomes.com>
Cc: Denny Howell <dhowell@dlhowell.com>; Denny Howell III <denny3@dlhowell.com>
Subject: Force Main Sketch for Connor Property

Good afternoon T.R.,

Attached is a plan that can be distributed to most likely both the Willistown Conservation Trust and East Goshen Township/Sewer Authority for their input. In this scenario we would propose both the barn and house have their own grinder pumps that come together and pump over to an existing manhole at the sewer treatment plant. The LPFM would be directional drilled through the sensitive areas and under Ridley Creek. The question I have with this is, would a full planning module be needed for this as well. I know a single grinder doesn't need it but as soon as you approach 5 EDUs, I believe it becomes a force main, and not just a lateral.

Let us know if you have any questions, or need anything else to go with this.

Dave Gibbons, P.E.

Senior Engineer
Howell Engineering

Office: 610-918-9002

Cell: 484-653-9922

[Request A Quote](#) | KnowHowell.com

1250 Wrights Lane,
West Chester, PA 19380

Sue Smith

From: Michael Ellis <MEllis@Pennoni.com>
Sent: Thursday, October 6, 2022 11:58 PM
To: Mark Miller; Kevin Miller
Subject: FW: 1671 and 1681 Strasburg Rd.
Attachments: Sewer Map 1681-1671 E Strasburg Ave.pdf

Kevin, sorry I didn't cc: you...

From: Michael Ellis
Sent: Thursday, October 6, 2022 11:56 PM
To: Mark Miller (mmiller@eastgoshen.org) <mmiller@eastgoshen.org>
Subject: RE: 1671 and 1681 Strasburg Rd.

Mark,

It would obviously be a really long run for a typical grinder pump service pipe, but it appears to be the only option that doesn't involve a main extension. The pump should be fine to pump that distance, but we will confirm.

We marked up the attached PDF sewer map noting that the closest other existing sewer main is near Hunters Circle or Christine Lane. I expect that the preference is to keep this property in the RCSTP service area though, and those options would involve several easements, PennDOT permits for road crossing, and undesirable lengthy service piping in the road ROW. Therefore, the connection to the sewer immediately upstream of the plant is likely the best solution.

There is a slight possibility that a gravity sewer may be technically feasible (we haven't analyzed in detail yet), but that would likely be significantly more expensive to construct and potentially problematic with solids deposition given the pipe length and limited flow. The following requirements are therefore based upon a grinder pump solution.

A sewer to tie in immediately upstream of the plant would require the following:

- Preparation of plans with design calculations for the proposed pump to confirm it will work
- Recorded Grinder Pump Operation & Maintenance Agreement
- Sewage Facilities Planning exemption from PADEP
- Easements from the Township on Parcels 53-4-134.8 and 53-4-578
- PADEP permit for piping under the Ridley Creek (this would likely be through a General Permit GP-5 "Utility Line Stream Crossings"). This will likely require a topographic field survey for the permit plans.
 - A PNDI environmental search receipt will be required. The PNDI receipt will almost certainly require a wetlands and bog turtle habitat assessment since there will likely be work to connect to the sewer main in the wetlands immediately upstream of the RCSTP
 - The assessment that we commissioned for the Reservoir Rd Pump Station project concluded that the area upstream of the RCSTP IS bog turtle habitat. Therefore, approval of US Fish & Wildlife Service for bog turtle protective measures will be required. Those measures will likely necessitate the applicant provide an environmental scientist on-site during construction to monitor for bog turtles with time-of-year restrictions, but there may be other requirements.
 - Chester County Conservation District approval of E&S plans is required for GP-5 permits.
- PADEP permit for temporary disturbance to wetlands, assuming that the connection to the existing sewer main would be in the wetlands area upstream of the RCSTP
- Policy has been not to tie pressure service pipes directly into the Township's gravity sewer main. If that is the case here, they would need to tap the sewer main and run a gravity lateral whatever distance the Township will be responsible for. I would suggest approximately 10 linear feet if that policy is applicable here.

An 1,800 LF pipe of 1.25" diameter holds about 115 gallons of wastewater. Therefore, the detention time in the pipe should be about 1 day, which is not ideal but may not be a dealbreaker.

For the applicant's cost considerations:

The Morstein Rd grinder pump and lateral construction cost approx \$38,760 per Botella's cost quote, which was for a grinder pump, approx 300 LF of low pressure service piping, and abandonment of the existing septic system. If the pump system was about \$10K of that cost and the septic abandonment about \$5K, then the unit price for piping via directional drill was about \$80/LF (\$23,760 / 300 LF). For about 1,800 LF for the subject property, the piping cost could therefore be nearly \$140K. Adding in \$10K for the pump & tank, and \$15K-\$20K for engineering, legal, & permitting, **the whole project cost could be over \$160K**. Alternatively, as you know, a septic system typically costs around \$35K-\$40K.

Please call if you would like to discuss further.

Mike

Michael Ellis, PE

Municipal Division Manager

Pennoni

121 Continental Drive, Suite 207 | Newark, DE 19713

Direct: +1 (302) 351-5236 | **Mobile:** +1 (302) 561-4235

www.pennoni.com | MEllis@Pennoni.com

From: Mark Miller <mmiller@eastgoshen.org>

Sent: Wednesday, October 5, 2022 8:24:35 PM

To: Michael Ellis <MEllis@Pennoni.com>

Cc: Kevin Miller <kmiller@eastgoshen.org>

Subject: 1671 and 1681 Strasburg Rd.

Mike

I have a future resident who will be buying these two properties her intention is to construct a house and Barn for horses. The lady can see the plant and wants to get sewer service her distance may be 1700 to 1800 Lf. She would have to pump install a duplex system.

My question is this doable??? If so we will need to tell her what she will need to make it work

Thanks

Mark S. Miller

Director of Public Works

East Goshen Township

(610) 692-7171 x3402

mmiller@eastgoshen.org

COGF-L1R
(11-16-2022)



UNITED STATES DEPARTMENT OF COMMERCE
U.S. Census Bureau
Washington, DC 20233-0001

The Office of Management and Budget
(OMB) approval number for the Census
of Governments, Survey of Local
Government Finances is 0607-0585.

FYI

DUE DATE REMINDER

Recently, the U.S. Census Bureau mailed you a letter asking you to complete the **2022 Census of Governments, Survey of Local Government Finances**. If you have submitted your survey in the past few weeks, thank you. If you have not yet reported, please do so before the due date noted below.

Authentication Code: SWKW-69ZT-XZKT
Due Date: December 20, 2022

1. **Register OR sign in** at <https://portal.census.gov>
2. **Add** your authentication code **OR locate** this report under "My Surveys."
3. **Report** by clicking on "REPORT NOW." You can return to your account over multiple sessions to complete the survey.

For assistance with completing this survey, please sign into your Census Bureau account or call our customer help line at 1-800-832-2839, Monday through Friday, 8:00 a.m. to 5:00 p.m. Eastern time.

Thank you in advance for your time and participation, and for helping the U.S. Census Bureau measure America's people and economy.

Sincerely,

Stephanie L. Studds
Assistant Associate Director for Economic Programs
U.S. Census Bureau



census.gov

ID 155531