

EAST GOSHEN MUNICIPAL AUTHORITY

October 9, 2017

7:00 PM – Regular meeting at Township Building

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 Inc. Report
4. APPROVAL OF MINUTES
 - a. September 11, 2017
5. APPROVAL OF INVOICES

a. Pennoni Invoice #768598	\$ 75.75
b. Pennoni Invoice #768600	\$1,146.00
c. Pennoni Invoice #768601	\$ 109.75
d. Pennoni Invoice #768602	\$1,416.00
e. Pennoni Invoice #768624	\$15,000.00
6. LIAISON REPORTS
7. FINANCIAL REPORTS
 - a. September Financial Report
8. OLD BUSINESS
 - a. Supplee Valley Pipe Lining Bid Document
9. GOALS
 - a. Operate the Ridley Creek Sewer Treatment Plant in compliance with NPDES Permit requirements. *January, May, June, July*

- b. Continue to implement the formal Inflow (surface water) & Infiltration (ground water), (collectively "I&I") Plan to reduce the amount of I&I into the sewer system.
- c. Respond to capacity requests within 45 days.
- d. Develop an operation manual for Ridley Creek Sewer Treatment Plant and pump stations. *Currently under review by staff. Completed on August 7, 2017*
- e. Submit topical articles of interest for the East Goshen newsletter. *May*
- f. Attend West Goshen Municipal Authority meetings to keep informed of planned capital expenditures and operation compliance. *January, February, March, April, May, June, July*

10. NEW BUSINESS

- a. Consider the Barkway Pump Station Grinder Unit Addition

11. CAPACITY REQUESTS

12. ANY OTHER MATTER

- a. Acknowledge the Mariner East Sunoco Pipeline Project Horizontal Directional Drilling Construction Notification and Private Water Supply/Well Sampling Offer.

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

October 4, 2017

To: Municipal Authority
From: Mark Miller
Re: October 2017 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 657,000 gallons per day.

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

C.C. Collection: The pump stations were visited on a daily basis. Wet wells were washed down.

Pumps were pulled at all pump stations and sent to Deckmans for repairs. We repaired 6 lateral caps so far this month. We had Lenni Electric out to check all electrical motors and control panels at the pump station and the sewer plant. A full report was also provided.

The generators at all locations were serviced.

We had a problem at the Barkway Pump Station while pulling the pump. The way we have to work in the wet well needs to be changed. That being said, I have asked Mike Ellis to look into the possibility of installing a Muffin Monster. I have contacted a local Roofer to install a roof hatch which would allow us to remove the pumps safer.

R.C. Collection: Pump Stations were visited on a daily basis with no problems to report.

R.C. Plant: Routine maintenance was performed by the Public Works Department, no problems to report.

Lateral Insp. Lateral's were inspected at the Brandolini site on Strasburg Road and the Clock Farms addition on E. Boot Road.

INI: We have been replacing the manhole costings and lids with a water tight lid. (36) In the Wentworth Development.

Alarms: We responded to 28 alarms for September.

PA One Calls: We received 74 PA One calls in September.

**EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT
October 5, 2017**

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic soda pilot study –
 - We previously calculated the estimated caustic soda feed rate to be 5-6 gallons/hour when the pilot study SBR tank is in a Fill cycle. We previously recommended a 7.7-gallon/hour pump be acquired for the study. We have obtained pricing for a larger ± 19.9 gallon/hour pump as requested by the Municipal Authority in the event the recommended pump is found to be inadequate during the trial. Two 350-gallon totes should allow for a 2.5-3 week trial. We previously sent our recommendations to the plant operator for review and are awaiting a response. *No update since our last report.*
 - A pilot study sampling plan was previously requested from Big Fish, and we are awaiting a response. *No update since our last report.*
 - The pilot study can begin once the tap is installed and the operator provides a sampling plan and confirms the caustic soda feed rate. *No update since our last report.*
 - In order to progress this project, a meeting has been tentatively set up for October 13 at the RCSTP with the Public Works Department, Pennoni, Big Fish, and the controls consultant to resolve outstanding questions and concerns (i.e. chemical feed control during fill-decant phase) and establish a definitive schedule to begin the trial.
- SBR tanks CIM coatings –
 - Our structural engineers and leakage consultant performed a visual and non-destructive evaluation of the SBR #1 concrete walls on August 23. Two concrete cores were taken from the SBR #1 walls the same day. The cores have been tested and analyzed. We will provide a report with lab analyses, findings, and recommendations prior to the October MA meeting.

Reservoir Road Pump Station

- We have received all permits. The bid document will be finalized to incorporate the recently issued Army Corps of Engineers permit, and a final set of plans and specifications will be provided to the Township for their files.
- A listing of the permits, expiration dates, and renewal deadlines will also be provided.

RCSTP and Pump Stations' O&M Manual

- Completed. We recommend the Manual be revisited in July-August 2018 to determine if updates are needed and/or if new information has become available to incorporate.

Supplee Valley Pipe Lining

- We prepared the bid document and submitted it to the Township for review. The bid document includes ALL sewers that we had previously recommended for repair over a 3-year period since the contract will span over calendar years 2017 into 2018, and funding from both years will therefore be available.

We recommend the following schedule:

- Advertisements = 10/10 and 10/13
- Non-mandatory pre-bid meeting = 10/18 at 10:00 am at the Twp building
- Bids Due = 11/6 at 10:00 am
- Award = 11/13 MA meeting
- Contract Execution ≈ early December
- NTP ≈ mid-December
- Construction (90 days duration) ≈ mid-December to March

White Chimneys Manhole Lining

- We completed a 1-year warranty visual observation of the manholes that were lined in 2016 in White Chimneys and along Cornwallis Drive. No deficiencies were observed with the liners. However, apparent sulfuric acid (from hydrogen sulfide) is present on the liners near the bottoms of some of the manholes. We have recommended that the Public Works Department clean those liners. *No update since our last report.*

Barkway Pump Station Grinder

- We met with the Public Works Director at the pump station to perform an initial evaluation of alternatives to add a comminutor (such as a Muffin Monster) to address problems with the pumps being caused by rags, wipes, and other materials. We submitted a proposal for engineering services to add a comminutor.

New Connections

- Knauer Property, 1680 East Boot Road – We reviewed another revised plan submission to add additional sewer piping on-site to convey wastewater from additional on-site facilities through the previously approved laterals. Comments were provided to the Township.
- Brakman Property, 1420 East Strasburg Road – We reviewed a revised plan to change one of the two gravity service laterals to a force main with grinder pump due to shallow rock. Comments were provided to the Township and developer.

West Goshen Sewer System Consultation

- No activity since last report.



Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permitted discharge limitations during the month of August 2017. Discharge to Applebrook was initiated August 20th. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. No mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

Treatment Process Operation

The total phosphorus monthly average was reported as 0.44 mg/L as compared to the permitted limitation of 0.50 mg/L. Total phosphorus discharge concentrations ranged from 0.20 to 0.67 mg/L. The ammonia as nitrogen monthly concentration was reported as 0.16 mg/L as compared to the permit discharge limitation of 2.5 mg/L. The ammonia as N weekly maximum was 0.33 mg/L. The total suspended solids (TSS) monthly concentration was reported as 4 mg/L as compared to the permit discharge limitation of 10 mg/L. The weekly maximum concentration was 5 mg/L as compared to the permit discharge limitation of 15 mg/L.

Table 1 illustrates the final effluent composite sample data reported for the August 2017 DMR. Discharge to Applebrook, Outfall 002 was 1.266 million gallons during August.

The monthly average influent wastewater pollutant concentrations and loading entering the wastewater treatment facility remained within the design concentrations. Composite samples are collected at the influent doghouse manhole and influent wet well. The influent flow meter reading is collected from the influent flow meter located prior to the Screening Building, excluding the internal recycle flows.

Table 2 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during August 2017.



**RCSTP Monthly Operations
Report:
September 2017**

Table 1

August 2017 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD₅		TSS		NH₄-N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
August 1, 2017	0.261	2.0	4.4	5	10.9	0.160	0.35	0.51	1.11	4	0.6021
August 8, 2017	0.276	4.0	9.2	3	6.9	0.330	0.76	0.67	1.54	1	0.0000
August 15, 2017	0.314	2.0	5.2	3.000	7.9	0.108	0.28	0.52	1.36	1.000	0.0000
August 22, 2017	0.223	2.0	3.7	5	9.3	0.100	0.19			68	1.8325
August 25, 2017	0.138							0.58	0.67		
August 26, 2017	0.178							0.54	0.80		
August 27, 2017	0.201							0.41	0.69		
August 28, 2017	0.147							0.290	0.36		
August 29, 2017	0.181	2.0	3.0	3	4.5	0.100	0.15	0.26	0.39	1	0.0000
August 31, 2017								0.20	0.00		
Average	0.213	2.4	5.1	4	7.9	0.160	0.35	0.44	0.86	3	0.4869
Minimum	0.138	2.0	3.0	3	4.5	0.100	0.15	0.20	0.36	1	0.0000
Maximum	0.314	4.0	9.2	5	10.9	0.330	0.76	0.67	1.54	68	1.8325

Table 3 presents the data for Outfall 002, Applebrook. The discharge limitations for Outfall 002 remained within compliance with the NPDES permit.

Table 4 presents the available Outfall 001 final effluent data for the month as of September 12, 2017. Continued maintenance activities of cleaning the alum static mixer injector, flushing of the alum chemical piping to the SBRs and weekly draining and cleaning of the disc filters. The alum feed to the SBRs was frequently increased to improve the total phosphorus removal.

The facility is anticipated to achieve compliance with the discharge permit limitations during the month of September.



**RCSTP Monthly Operations
Report:
September 2017**

Table 2

August 2017 - Influent Wastewater											
Design Basis	Flow	BOD 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
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
August 1, 2017	0.319	264	702	246	654	33.3	88.6	56.5	150	8.6	22.9
August 8, 2017	0.307	100	266	280	745	23.3	59.7	34.5	88	7.2	19.2
August 15, 2017	0.385	131	349	112	298	36.3	116.6	44.8	144	6.5	17.3
August 22, 2017	0.323	104	277	60	160	34.0	91.6	40.6	109	5.3	14.1
August 29, 2017	0.376	104	277	46	122	34.0	106.6	40.6	127	4.2	11.2
Average	0.342	141	374	149	396	32.2	92.6	43.4	124	6.4	16.9
Minimum	0.307	100	266	46	122	23.3	59.7	34.5	88	4.2	11.2
Maximum	0.385	264	702	280	745	36.3	116.6	56.5	150	8.6	22.9

During September, the presence of foam conditions on the surface of the SBRs began to decrease with foam concentrations ranging from 50% to 70% of the area. Reduction of filled decants and adjustments to the SBR dissolved oxygen control set points to ensure adequate aeration for nitrification assisted to sustain the final effluent water quality.

There are no anticipated exceedances of the permitted limitations for Outfall 001 for September 2017. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.



**RCSTP Monthly Operations
Report:
September 2017**

Table 3

August 2017 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
August 1, 2017	0.000										
August 8, 2017	0.000										
August 15, 2017	0.000										
August 22, 2017	0.000										
August 25, 2017	0.105							0.58	0.51		
August 26, 2017	0.076							0.54	0.34		
August 27, 2017	0.147							0.41	0.50		
August 28, 2017	0.151							0.29	0.37		
August 29, 2017	0.151	2.0	2.5	3.0	3.8	0.10	0.13	0.26	0.33	1.0	0.0000
August 31, 2017	0.110							0.20	0.18		
Average	0.080	2.0	2.5	3.0	3.8	0.10	0.13	0.56	0.43	1	0.0000
Minimum	0.0000	2.0	2.5	3.0	3.8	0.10	0.13	0.29	0.34	0	0.0000
Maximum	0.1510	2.0	2.5	3.0	3.8	0.10	0.13	0.58	0.51	1	0.0000

Table 4

September 2017 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
September 5, 2017	0.198	2.0	3.3	1	1.7	0.122	0.20	0.24	0.40	1	0.0000
September 12, 2017	0.123	2.8	2.9	3	3.1	0.100	0.10	0.44	0.45	1	0.0000
September 19, 2017	0.163							0.31	0.42		
September 26, 2017	0.162							0.36	0.49		
Average	0.162	2.4	3.1	2	2.4	0.111	0.15	0.34	0.44	1	0.0000
Minimum	0.123	2.0	2.9	1	1.7	0.100	0.10	0.24	0.40	1	0.0000
Maximum	0.198	2.8	3.3	3	3.1	0.122	0.20	0.44	0.49	1	0.0000



**RCSTP Monthly Operations
Report:
September 2017**

Table 5 presents the available September data for Outfall 002, Applebrook. The discharge limitations for Outfall 002 are anticipated to remain within compliance with the NPDES permit.

Table 5

September 2016 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD₅		TSS		NH₄-N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
September 5, 2017	0.0813	2.0	1.4	1.0	0.7	0.12	0.08	0.24	0.16	1.000	0.000
September 12, 2017	0.1702	2.8	4.0	3.0	4.3	0.10	0.14	0.44	0.62	1.000	0.000
September 19, 2017	0.1604										
September 26, 2017	0.1866										
Average	0.1735	2.4	2.7	2.0	2.5	0.11	0.11	0.34	0.39	1	0.0000
Minimum	0.0813	2.0	1.4	1.0	0.7	0.10	0.08	0.24	0.16	1	0.0000
Maximum	0.1866	2.8	4.0	3	4.3	0.12	0.14	0.44	0.62	1	0.0000

Table 4 presents the available Outfall 001 final effluent data for the month as of September 12, 2017.

Table 5 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during September 2017.

Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service during August and September. 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 is total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. Soda ash assists towards maintaining SBR pH concentrations above 7.0 standard units and assists to replenish alkalinity consumed during the nitrification process and aluminum sulfate solution addition.



**RCSTP Monthly Operations
Report:
September 2017**

Table 6

September 2017 - Influent Wastewater											
Design Basis	Flow	BOD 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
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
September 5, 2017	0.339	217	614	429	1,213	29.5	83.4	46.7	132	8.1	22.9
September 12, 2017	0.328	159	450	255	721	35.1	96.0	49.4	135	7	19.8
September 19, 2017	0.340										
September 26, 2017	0.525										
Average	0.383	188	532	342	967	32.3	89.7	48.1	134	7.6	21.3
Minimum	0.328	159	450	255	721	29.5	83.4	46.7	132	7.0	19.8
Maximum	0.525	217	614	429	1213	35.1	96.0	49.4	135	8.1	22.9

Significant Storm/Hydraulic Loading Events

During September, there was one (1) storm events resulting in a daily precipitation amount equal to or greater than 0.5 inches measured during a 24-hour period. A total of 1.95 inches of rainfall measured during the month. This event occurred on:

September 2nd 0.85 inches

Plant operations were adjusted to manage the precipitation to prevent exceedances of the permitted discharge limitations for Outfall 001. Adjustments included reading aeration minutes per cycle, extending decant minutes per cycle and reducing settling times. The facility experienced several filled decant cycles during the rain events.

PA DEP

No activity.

Minor Repairs and Preventative Maintenance

Flushed chemical feed lines to the SBRs.



**RCSTP Monthly Operations
Report:
September 2017**

Cleaned piping within SBR building

Look Ahead Preventative Maintenance Activities

Overhaul centrifuge drive gear boxes and evaluation of bearings for replacement.
Gathering information for parts.

Rebuild of filter feed pumps

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
September 11, 2017

The East Goshen Township Municipal Authority met at the Ridley Creek Sewer Treatment Plant at 6:00 p.m to check SBR tanks CIM coatings. Then they held their regular public meeting on Monday, September 11, 2017 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Ed McAssey, Jack Yahraes, Dana Pizarro, and Phil Mayer. Also in attendance were: Rick Smith (Township Manager), Carmen Battavio (Township Supervisor), Mike Ellis (Pennoni), Patrick McKenna (Attorney) , and Walter Wujcik, (Conservancy Board).

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>WAS – Waste Activated Sludge</i>

Call to Order & Pledge of Allegiance

Ed called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. There was a moment of silence to remember our troops and first responders and everyone effected by the hurricanes in Texas and Florida.

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

Chairman's Report

Dana and Phil reported that they attended the West Goshen meeting. Finances were discussed. They will hire someone to coordinate all the systems for the emergency generator. HRG was asked if they could have someone on site fulltime. They changed the start time for their meetings to 7:00 p.m.

Sewer Reports

1. Director of Public Works, Mark Miller's report for August:

Monthly Flows: The average daily flow to West Goshen was 670,000 gallons per day.

Meters: Meters were read on a daily basis with no problems.

C.C. Collection: The pump stations were visited on a daily basis. Lenni Electric is currently doing the PM at the plant and pump stations. We are scheduled to pull the pumps this month.

R.C. Collection: Pump stations were visited on a daily basis with no problems to report.

R.C. Plant: The plant was visited by Public Works. George and I were at the plant on Monday. We noticed the roto-mat was making noise. Upon further investigation we found the screen spray nozzles were blocked. We were able to get them cleaned.

Lateral Repairs: Four Lateral Repairs for the month of August.

Alarms: We responded to 27 alarms for August, most of them were for power outages.

PA One Calls: We received 68 PA One calls for August.

2. Pennoni Engineer's Report for August

Mike Ellis provided the following report.

Plant (RCSTP)

- Caustic soda pilot study –
 - We previously calculated the estimated caustic soda feed rate to be 5-6 gallons/hour when the pilot study SBR tank is in a Fill cycle. We previously recommended a 7.7-gallon/hour pump be acquired for the study. We have obtained pricing for a larger ± 19.9 gallon/hour pump as requested by the Municipal Authority in the event the recommended pump is found to be inadequate during the trial. Two 350-gallon totes should allow for a 2.5-3 week trial. We previously sent our recommendations to the plant operator for review and are awaiting a response.
 - A pilot study sampling plan was previously requested from Big Fish, and we are awaiting a response.
 - The pilot study can begin once the tap is installed and the operator provides a sampling plan and confirms the caustic soda feed rate.
 - In order to progress this project, we propose to set up a meeting within the next week at the RCSTP with the Public Works Department, Pennoni, the operator, and the controls consultant to resolve outstanding questions and concerns (i.e. chemical feed control during fill-decant phase) and establish a definitive schedule to begin the trial.
- SBR tanks CIM coatings –
 - Our structural engineers and leakage consultant performed a visual and non-destructive evaluation of the SBR #1 concrete walls on August 23. Two concrete cores were taken from the SBR #1 walls the same day. The cores have been tested, and we expect to receive a laboratory report with results on September 11. A verbal update will be provided at the Municipal Authority meeting on September 11. Upon receipt of the lab report, we will evaluate the results in conjunction with our field visit and background research, and we expect to submit a report to the Township by the end of September.

Reservoir Road Pump Station

- We received the Army Corps of Engineers (USACE) special conditions permit for the proposed force main creek crossings on August 17. WE NOW HAVE ALL PERMITS IN HAND!!!!
- The bid document will be finalized to incorporate the remaining USACE permit, and a final set of plans and specifications will be provided to the Township within the next two weeks.
- A listing of the permits, expiration dates, and renewal deadlines will also be provided.
-

RCSTP and Pump Stations' O&M Manual

- Completed. No further action.

Supplee Valley Pipe Lining

- We received the missing videos of the sewer mains and completed our review, prioritization, scoping, and cost estimating. A recommendation letter was sent to the Township.

White Chimneys Manhole Lining

- We completed a 1-year warranty visual observation of the manholes that were lined in 2016 in White Chimneys and along Cornwallis Drive. No deficiencies were observed with the liners. However, apparent sulfuric acid (from hydrogen sulfide) is present on the liners near the bottoms of some of the manholes. We have recommended that the Public Works Department clean those liners.

New Connections

- Knauer Property, 1680 East Boot Road – *No activity since our last report.* We previously reviewed a revised plan submission for a proposed sewer connection to be installed with fewer lateral pipes at less-than-minimum slopes, and we provided comments to the Township and developer.
- Brakman Property, 1420 East Strasburg Road – We continued to perform construction observation of the new gravity sewer main across East Strasburg Road and the new manhole on the subject property as well as providing shop drawings reviews and responses to questions from the contractor and developer.

West Goshen Sewer System Consultation

- No activity since last report.

3. Big Fish Environmental Services – Scott’s report for August showed that the Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permitted discharge limitations during the month of June 2017. Discharge to Applebrook remained off line. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. No mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

Jack commented on the discharge to Applebrook. Mark said the pump is on now.

Approval of Minutes

The minutes of the August 7, 2017 meeting were approved.

Approval of Invoices

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

- | | | |
|----|-----------------|------------|
| a. | Pennoni #763591 | \$ 80.25 |
| b. | Pennoni #763593 | \$1,205.75 |
| c. | Pennoni #763595 | \$6,222.00 |
| d. | Pennoni #763596 | \$3,647.50 |

Jack seconded the motion. The motion passed unanimously.

2. Jack moved to approve payment of Gawthrop Invoice #184952 for \$440.00. Phil seconded the motion. The motion passed unanimously.

Liaison Reports

Conservancy Board - Walter reported that the Conservancy Board is planning a fall planting. A member of the Reservoir Dam Committee came to the Conservancy Board meeting to discuss the plans for this area.

Board of Supervisors – Carmen reported that Sunoco extended the distance for private wells from the pipeline to be notified to 400 feet. The property owner can get Sunoco to test their well or get an independent company to do it.

Financial Reports

Jon Altshul provided the following written report:

In August 2017, the Municipal Authority recorded \$2,981 in income (mostly from a \$2,000 tap-in fee for 1418 Strasburg Rd.) and \$6,940 in expenses, for a negative variance of \$3,959. Expenses included \$2,589 for Reservoir Road Pump Station engineering; \$269 for West Goshen engineering (capital); \$2,621 for general engineering and \$1,460 for legal services.

As of August 31st, the fund balance was \$1,178,108 of which \$1,140,872 is in the main construction account (most of which represents the 2013 note).

On September 6, the Board of Supervisors approved fraud protection services for Township bank accounts. Specifically, for the Municipal Authority bank account, it is recommended that the Authority have a service called “ACH Monitor” to prevent unauthorized electronic withdrawals. The cost of this service is \$15 per month. Jack moved to authorize the Township to establish fraud protection services on the Municipal Authority account. Dana seconded the motion. The motion passed unanimously.

Goals

Goals for 2017 were reviewed.

Any Other Matter

1. John Coleman, 1167 N. Chester Road was present at the meeting. He is still on private well and sewer and asked if there were plans to extend these services to the residents still on private systems. Rick explained that a few years ago when Brookmont and Charter Chase were done it cost \$30,000 to the property owner. Anything is very costly.

2. Supplee Valley Sewer System Analysis – Mike reviewed their report from the sanitary sewer televised videos. On the maps, green lines indicate good condition, yellow lines indicate medium priority and red lines indicate high priority. There is 4,800 linear feet of pipe and 2 manholes with leaks. They outlined a 3-year plan and estimated costs. Mike explained the process to reline the pipes. He recommends a public bid. Dana moved to approve phase 1 and authorize it to be put out for public bid. Phil seconded the motion. The motion passed unanimously.

Adjournment

1 There being no further business, Phil moved to adjourn the meeting. Dana seconded the motion. The
2 meeting was adjourned at 8:00 p.m. The next regular meeting will be held on Monday, October 9,
3 2017 at 7:00 pm.
4

5 Respectfully submitted,
6
7
8

9 Ruth Kiefer
10 Recording Secretary



INVOICE

Newark, DE
302-655-4451 Fax: 302-654-2895

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

East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 768598
Invoice Date : 09/26/2017
Project : EGMA1504
Project Name : Reservoir Rd PS Design & Permitting

For Services Rendered through: 9/17/2017

Correspondence with Army Corps of Engineers in response to additional permitting questions. Army Corps of Engineers Special Conditions Permit was issued thereafter.

Phase : 12 -- Permitting

Total Phase : 12 -- Permitting

Labor :	75.75
Expense :	0.00
Phase Total :	75.75

Amount Due This Invoice

\$75.75

Phase : 12 -- Permitting

Labor

Class	Hours/ Units	Rate	Amount
Sr. Environmental Scientist	0.75	101.00	75.75
Labor Total:	0.75		75.75

Total Phase : 12 -- Permitting

Labor :	\$75.75
Expense :	\$0.00

Total Project : EGMA1504 -- Reservoir Rd PS Design & Permitting

Labor :	\$75.75
Expense :	\$0.00

ok
MGM
10/5/17

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 9/26/2017

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 768598
Invoice Period: 8/14/2017 to 9/17/2017
Initial Authorization: \$ 167,120.00 **Date:** 9/26/2017
Contract Amount: \$ 193,200.00
Previously Invoiced: \$ 192,431.50
Current Invoice: \$ 75.75
Invoiced to Date (\$): \$ 192,507.25
Invoiced to Date (%): 99.64%
Remaining Budget (\$): \$ 692.75
Remaining Budget (%): 0.36%

Budget by Phase:

Phase Name:	Permitting	Phase 12
Phase Budget:	\$ 50,940.25	
Previously Invoiced:	\$ 50,428.50	
Current Invoice:	\$ 75.75	
Invoiced to Date (\$):	\$ 50,504.25	
Invoiced to Date (%):	99.14%	
Remaining Budget (\$):	\$ 436.00	
Remaining Budget (%):	0.86%	

Comments: Correspondence with Army Corps of Engineers in response to additional permitting questions.
Army Corps of Engineers Special Conditions Permit was issued thereafter.

Reservoir Road Pump Station Design & Permitting

INVOICE SUMMARY

For Services Rendered through: 9/17/2017

Task No.	Activity	Contract Amount*	Invoiced Effort thru 9/17/2017	Remaining Budget (\$)	Remaining Budget (%)	Completed?
1	Concept Design	\$13,655.75	\$13,655.75	-	-	Yes
2	DEP WOM Pre-App. Meeting	\$1,300.00	\$1,300.00	-	-	Yes
3	Existing Conditions Survey	\$22,783.75	\$22,783.75	-	-	Yes
4	Sewer Stakeout in Easements	\$0.00	\$0.00	-	-	Scope eliminated
5	1636 Bow Tree Dr. Boundary Survey & Easement	\$4,020.00	\$4,020.00	-	-	Yes
6	Additional Boundary Surveys & Easements	\$0.00	\$0.00	-	-	Scope eliminated
7	Geotechnical Borings	\$4,000.00	\$4,000.00	-	-	Yes
8	Install Permanent Survey Benchmarks	\$0.00	\$0.00	-	-	Scope eliminated
9	Progress Design	\$29,450.00	\$29,450.00	-	-	Yes
10	Infiltration Testing	\$1,800.00	\$1,800.00	-	-	Yes
11	Final Design	\$65,170.25	\$64,993.50	\$176.75	0.3%	No**
12	Permitting	\$50,940.25	\$50,504.50	\$435.75	0.9%	No***
TOTAL		\$193,120.00	\$192,507.50	\$612.50	0.3%	

*After 12/14/2015 approved re-allocation of task budgets, 5/9/2016 approval of \$7,000 supplement, 7/11/16 approval of \$4,000 supplement, 11/14/16 approval of \$5,000 supplement, 4/10/17 approval of \$4,000 supplement, and 6/12/17 approval of \$6,000 supplement.

**Need to complete Bid Form and assemble full bid document package for Township.

*** All permits have been received. Need to prepare permit expiration and renewal date summary list.



INVOICE

Newark, DE
302-655-4451 Fax: 302-654-2895

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

East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 768600
Invoice Date : 09/26/2017
Project : EGMA1701
Project Name : 2017 General Services

For Services Rendered through: 9/17/2017

Prepared September Engineer's Report. Attended September MA meeting including field meeting at the RCSTP with the MA, M. Ellis, and M. McAloon to discuss the SBR tanks coating conditions and ongoing structural evaluation. Completed one-year warranty inspection of Spraywall liners in remainder of manholes in White Chimneys.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 1,146.00
Expense : 0.00
Phase Total : 1,146.00

Amount Due This Invoice

\$1,146.00

Fee : 21,700.00
Prior Billings : 18,738.00
Current Billings : 1,146.00
Total Billings : 19,884.00

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	5.50	119.00	654.50
Senior Engineering Technician	4.50	87.00	391.50
Graduate Professional	1.25	80.00	100.00
Labor Total:	11.25		1,146.00

Total Phase : **** -- Professional Services

Labor : \$1,146.00
Expense : \$0.00

Total Project : EGMA1701 -- 2017 General Services

Labor : \$1,146.00
Expense : \$0.00

OK
MAA
10/5/17

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

East Goshen Municipal Authority
EGMA1701 Invoice Summary
Invoice Date 9/26/2017

Project:	EGMA1701		
Pennoni Job No.:	2017 General Services		
Invoice No:	768600		
Invoice Period:	8/14/2017	to	9/17/2017
Initial Authorization:	\$ 12,700.00	Date:	9/26/2017
Contract Amount:	\$ 21,700.00		
Previously Invoiced:	\$ 18,738.00		
Current Invoice:	\$ 1,146.00		
Invoiced to Date (\$):	\$ 19,884.00		
Invoiced to Date (%):	92%		
Remaining Budget (\$):	\$ 1,816.00		
Remaining Budget (%):	8%		

Budget by Phase:

Phase Name:	2017 General Services		
Phase Budget:	\$ 21,700.00		
Previously Invoiced:	\$ 18,738.00		
Current Invoice:	\$ 1,146.00		
Invoiced to Date (\$):	\$ 19,884.00		
Invoiced to Date (%):	92%		
Remaining Budget (\$):	\$ 1,816.00		
Remaining Budget (%):	8%		

Comments: Prepared September Engineer's Report. Attended September MA meeting including field meeting at the RCSTP with the MA, M. Ellis, and M. McAloon to discuss the SBR tanks coating conditions and ongoing structural evaluation. Completed one-year warranty inspection of Spraywall liners in remainder of manholes in White Chimneys.



INVOICE
Newark, DE
302-655-4451 Fax: 302-654-2895

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

East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 768601
Invoice Date : 09/26/2017
Project : EGMA1702
Project Name : 2017 Semi-Annual I&I Reports

For Services Rendered through: 9/17/2017

Coordination of portable metering locations with PW Director.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 109.75
Expense : 0.00
Phase Total : 109.75

Amount Due This Invoice

\$109.75

Fee : 11,500.00
Prior Billings : 7,021.75
Current Billings : 109.75
Total Billings : 7,131.50

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	0.25	119.00	29.75
Graduate Professional	1.00	80.00	80.00
Labor Total:	1.25		109.75

Total Phase : **** -- Professional Services

Labor : \$109.75
Expense : \$0.00

Total Project : EGMA1702 -- 2017 Semi-Annual I&I Reports

Labor : \$109.75
Expense : \$0.00

ok
MSR
10/5/17

East Goshen Municipal Authority
EGMA1702 Invoice Summary
Invoice Date 9/26/2017

Project: EGMA1702
Pennoni Job No.: 2017 Semi-Annual I&I Reports
Invoice No: 768601
Invoice Period: 4/17/2017 to 9/17/2017
Initial Authorization: \$ 11,500.00 **Date:** 9/26/2017
Contract Amount: \$ 11,500.00
Previously Invoiced: \$ 7,021.75
Current Invoice: \$ 109.75
Invoiced to Date (\$): \$ 7,131.50
Invoiced to Date (%): 62%
Remaining Budget (\$): \$ 4,368.50
Remaining Budget (%): 38%

Budget by Phase:

Phase Name: 2017 Semi-Annual I&I Reports
Phase Budget: \$ 11,500.00
Previously Invoiced: \$ 7,021.75
Current Invoice: \$ 109.75
Invoiced to Date (\$): \$ 7,131.50
Invoiced to Date (%): 62%
Remaining Budget (\$): \$ 4,368.50
Remaining Budget (%): 38%

Comments: Coordination of portable metering locations with PW Director.



INVOICE
Newark, DE
302-655-4451 Fax: 302-654-2895

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

East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 768602
Invoice Date : 09/26/2017
Project : EGMA1704
Project Name : Supplee Valley Pipe Lining & MH
Reh

For Services Rendered through: 9/17/2017

Completed review and analysis of CCTV videos of sewers; prepared and submitted rehabilitation scope recommendation letter with cost estimates, exhibits, and multi-year construction programming approach; and began preparation of the bid document and specifications.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,416.00
Expense :	0.00
Phase Total :	1,416.00

Amount Due This Invoice

\$1,416.00

Fee :	7,000.00
Prior Billings :	3,647.50
Current Billings :	1,416.00
Total Billings :	5,063.50

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	4.00	119.00	476.00
Graduate Professional	11.75	80.00	940.00
Labor Total:	15.75		1,416.00

Total Phase : **** -- Professional Services

Labor :	\$1,416.00
Expense :	\$0.00

Total Project : EGMA1704 -- Supplee Valley Pipe Lining & MH Reh

Labor :	\$1,416.00
Expense :	\$0.00

ok
MFR
10/5/17

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

East Goshen Municipal Authority
EGMA1704 Invoice Summary
Invoice Date 9/26/2017

Project: EGMA1704
Pennoni Job No.: Suplee Valley Pipe Lining & MH Reh
Invoice No: 763596
Invoice Period: 8/14/2017 to 9/17/2017
Initial Authorization: \$ 7,000.00 **Date:** 9/26/2017
Contract Amount: \$ 7,000.00
Previously Invoiced: \$ 3,647.50
Current Invoice: \$ 1,416.00
Invoiced to Date (\$): \$ 5,063.50
Invoiced to Date (%): 72%
Remaining Budget (\$): \$ 1,936.50
Remaining Budget (%): 28%

Budget by Phase:

Phase Name: Suplee Valley Pipe Lining & MH Reh
Phase Budget: \$ 7,000.00
Previously Invoiced: \$ 3,647.50
Current Invoice: \$ 1,416.00
Invoiced to Date (\$): \$ 5,063.50
Invoiced to Date (%): 72%
Remaining Budget (\$): \$ 1,936.50
Remaining Budget (%): 28%

Comments: Completed review and analysis of CCTV videos of sewers; prepared and submitted rehabilitation scope recommendation letter with cost estimates, exhibits, and multi-year construction programming approach; and began preparation of the bid document and specifications.



INVOICE

Newark, DE
302-655-4451 Fax: 302-654-2895

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

East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 768624
Invoice Date : 09/27/2017
Project : EGMA1705
Project Name : SBR Tank Structural Evaluation

For Services Rendered through: 9/17/2017

Performed visual structural evaluation of the SBR tanks; obtained two concrete cores of the SBR Tanks #1 walls; performed laboratory testing of the cores; evaluated concrete conditions and potential causes of coating blistering; and initiated preparation of findings and recommendations report. Note: An additional \$3,113.50 of effort was expended on the SBR tank coatings work in 2017 beyond the \$15,000.00 lump sum allocated to this project.

Phase Code / Name	Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
**** -- Professional Services	\$15,000.00	\$0.00	100.00%	\$15,000.00	\$15,000.00
Total :	\$15,000.00	\$0.00		\$15,000.00	\$15,000.00

Amount Due This Invoice

\$15,000.00

OK
MM
10/5/17

East Goshen Municipal Authority
EGMA1705 Invoice Summary
Invoice Date 9/27/2017

Project: EGMA1705
Pennoni Job No.: SBR Tank Structural Evaluation
Invoice No: 768624
Invoice Period: NTP to 9/17/2017
Initial Authorization: \$ 15,000.00 **Date:** 9/27/2017
Contract Amount: \$ 15,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 15,000.00
Invoiced to Date (\$): \$ 15,000.00
Invoiced to Date (%): 100%
Remaining Budget (\$): \$ -
Remaining Budget (%): 0%

Budget by Phase:

Phase Name: SBR Tank Structural Evaluation
Phase Budget: \$ 15,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 15,000.00
Invoiced to Date (\$): \$ 15,000.00
Invoiced to Date (%): 100%
Remaining Budget (\$): \$ -
Remaining Budget (%): 0%

Comments: Performed visual structural evaluation of the SBR tanks; obtained two concrete cores of the SBR Tanks #1 walls; performed laboratory testing of the cores; evaluated concrete conditions and potential causes of coating blistering; and initiated preparation of findings and recommendations report. Note: An additional \$3,113.50 of effort was expended on the SBR tank coatings work in 2017 beyond the \$15,000.00 lump sum allocated to this project.

Reservoir Road Pump Station Design & Permitting

INVOICE SUMMARY

For Services Rendered through: 9/17/2017

Task No.	Activity	Contract Amount*	Invoiced Effort thru 9/17/2017	Remaining Budget (\$)	Remaining Budget (%)	Completed?
1	Concept Design	\$13,655.75	\$13,655.75	-	-	Yes
2	DEP WOM Pre-App. Meeting	\$1,300.00	\$1,300.00	-	-	Yes
3	Existing Conditions Survey	\$22,783.75	\$22,783.75	-	-	Yes
4	Sewer Stakeout in Easements	\$0.00	\$0.00	-	-	Scope eliminated
5	1636 Bow Tree Dr. Boundary Survey & Easement	\$4,020.00	\$4,020.00	-	-	Yes
6	Additional Boundary Surveys & Easements	\$0.00	\$0.00	-	-	Scope eliminated
7	Geotechnical Borings	\$4,000.00	\$4,000.00	-	-	Yes
8	Install Permanent Survey Benchmarks	\$0.00	\$0.00	-	-	Scope eliminated
9	Progress Design	\$29,450.00	\$29,450.00	-	-	Yes
10	Infiltration Testing	\$1,800.00	\$1,800.00	-	-	Yes
11	Final Design	\$65,170.25	\$64,993.50	\$176.75	0.3%	No**
12	Permitting	\$50,940.25	\$50,504.50	\$435.75	0.9%	No***
TOTAL		\$193,120.00	\$192,507.50	\$612.50	0.3%	

*After 12/14/2015 approved re-allocation of task budgets, 5/9/2016 approval of \$7,000 supplement, 7/11/16 approval of \$4,000 supplement, 11/14/16 approval of \$5,000 supplement, 4/10/17 approval of \$4,000 supplement, and 6/12/17 approval of \$6,000 supplement.

**Need to complete Bid Form and assemble full bid document package for Township.

*** All permits have been received. Need to prepare permit expiration and renewal date summary list.

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA September Financial Report
Date: October 6, 2017

In September, the Municipal Authority recorded \$20,948 in income (mostly from a \$20,000 transfer from the sewer operating fund) and \$19,320 in expenses, for a positive variance of \$1,629. Expenses included \$7,724 for the Q3 administrative chargeback and \$11,075 for general engineering.

As of September 30th, the fund balance was \$1,179,737 of which \$1,141,729 is in the main construction account (most of which represents the 2013 note).

I have attached a draft 2018 budget for the Municipal Authority. While you are not required to adopt a budget under the Pennsylvania Municipal Authorities Act, doing so is considered a best practice and allows the Township to better anticipate the cash flow requirements from the Sewer Operating Fund. Please let me know if you would like changes made to this draft budget so that it can be revised and formally adopted at your November or December meeting.

Of particular note, on the revenue side, we anticipate four Chester Creek connections in 2018 (Brandolini- Strasburg Rd and Rennard-N. Chester Rd) and one Ridley Creek connection (Moore-N. Chester Rd). This budget also anticipates that most of the 2013 MA note will be drawn down by the end of this year, based on East Goshen staff's recent conversation with West Goshen staff. Once that note is exhausted, we will use the sewer portion of the 2017 Township bonds to cover the remainder of our share of the West Goshen improvements.

Account Title	Acct #	2014 Actual	2015 Actual	2016 Actual	2017 Adopted	YTD Budget	YTD Actual (Through July)	2017 Year-End Projection	2018 Proposed Budget	\$ Variance YE Proj-Prop.	% Variance
<u>Municipal Authority</u>											
Beginning Fund Balance					1,415,651			1,415,651	131,385		
<i>REVENUE</i>											
INTEREST EARNINGS	07341 1000	17	11	(28)	10	10	7	10	10	-	0.0%
INTEREST EARNED - CONSTRUCTION	07341 1020	1,577	1,494	2,573	3,250	1,476	5,370	8,000	4,000	(4,000)	-50.0%
DCED GRANT	07354 0400	-	37,162	-	-	-	-	-	-	-	-
C.C. TAPPING FEES	07364 1100	112,200	27,600	6,000	14,296	7,148	4,000	14,296	4,000	(10,296)	-72.0%
R.C.TAPPING FEES	07364 1110	12,289	16,296	43,300	-	-	-	-	2,000	2,000	-
CONNECTION FEES - SEWER	07364 1130	1,128	1,269	1,128	-	-	1,692	1,692	1,692	-	0.0%
MISCELLANEOUS REVENUE	07380 1000	564	423	564	-	-	-	-	-	-	-
TRANSFER FROM SEWER OPERATING	07392 0500	21,000	40,000	77,000	100,755	58,772	70,000	118,183	115,945	(2,238)	-1.9%
TOTAL REVENUE		148,775	124,255	130,537	118,311	67,406	81,069	142,181	127,647	(14,534)	
<i>EXPENSES</i>											
ADMINISTRATIVE WAGES	07424 1400	32,172	32,303	30,166	31,620	15,810	15,448	31,620	32,411	791	2.5%
MISCELLANEOUS EXPENSE	07424 3000	1,450	1,468	1,742	2,500	1,500	2,208	2,500	2,500	-	0.0%
MUNIC.AUTH-AUDITING	07424 3110	10,800	8,900	8,900	9,078	9,078	9,200	9,200	9,384	184	2.0%
ENGINEERING SERVICES	07424 3130	32,259	33,525	54,100	37,500	21,875	41,312	46,500	43,260	(3,240)	-7.0%
LEGAL SERVICES	07424 3140	7,460	4,100	8,593	9,250	5,397	10,103	-	-	-	-
C.C. CAPITAL- COLLECTION	07424 7420	-	-	-	212,486	212,486	-	-	-	-	-
RESERVE PUMP STATION - ENGINEER	07427 1000	1,884	-	-	-	-	-	-	-	-	-
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	6,323	-	-	-	-	-	-	-	-	-
RESERVOIR PUMP STATION - ENGINEER	07428 1000	38,286	144,451	44,571	-	-	13,716	18,000	-	(18,000)	-100.0%
WEST GOSHEN CAPITAL	07429 6100	-	-	-	-	-	222,665	1,290,264	59,736	(1,230,528)	-95.4%
M.C.-DVRFA-DEBT SERVICE	07471 1000	22,120	23,240	24,921	26,320	-	-	26,320	27,720	1,400	5.3%
M.A.-R.C. DEBT SERVICE	07471 1010	-	-	-	2,043	-	-	-	-	-	-
M.C.-DVRFA-INTEREST PAYMN	07472 1000	5,115	4,169	3,171	-	-	-	2,043	670	(1,373)	-67.2%
TOTAL EXPENSES		157,869	252,156	176,163	330,797	266,146	314,652	1,426,447	175,681	(1,250,766)	
NET RESULT FROM OPERATIONS		(9,094)	(127,900)	(45,626)	(212,486)	(198,740)	(233,583)	(1,284,266)	(48,034)	1,236,232	
Ending Fund Balance					1,203,165			131,385	83,351		

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
SEPTEMBER 2017

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - CAPITAL				
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - 2013 NOTES (FULTON BANK)			1,174,311.09	
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE DNB CAPITAL ACCOUNT			1,140,871.79	
			33,439.30	
CAPITAL:				
REVENUE				
INTEREST EARNED - CONSTRUCTION	07341 1020	3,250	948.30	7,298.35
TOTAL REVENUE		3,250	948.30	7,298.35
EXPENSES				
C.C. CAPITAL - COLLECTION	07424 7420	212,486	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0	80.25	16,385.00
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0	0.00	0.00
WEST GOSHEN CAPITAL	07429 6100	0	0.00	222,934.73
TOTAL EXPENSES		212,486	80.25	239,319.73
NET CAPITAL		(209,236)	868.05	(232,021.38)
MUNICIPAL AUTHORITY ENDING FUND BALANCE - CAPITAL				
MUNICIPAL AUTHORITY ENDING FUND BALANCE - 2013 NOTES (FULTON BANK)			1,175,179.14	
MUNICIPAL AUTHORITY ENDING FUND BALANCE DNB CAPITAL ACCOUNT			1,141,729.21	
			33,449.93	

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
SEPTEMBER 2017

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING:				
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - OPERATING (BB&T)			3,796.90	
REVENUE				
INTEREST EARNINGS	07341 1000	10	0.13	7.23
C.C. TAPPING FEES	07364 1100	14,296	0.00	6,000.00
CONNECTION FEES - SEWER	07364 1130	0	0.00	1,692.00
TRANSFER FROM SEWER OPERATING	07392 0500	109,755	20,000.00	90,000.00
TOTAL REVENUE		124,061	20,000.13	97,699.23
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	31,620	7,724.00	23,172.00
MISCELLANEOUS EXPENSE	07424 3000	2,500	0.00	2,207.52
MUNIC.AUTH.-AUDITING	07424 3110	9,078	0.00	9,200.00
ENGINEERING SERVICES	07424 3130	46,500	11,075.25	55,008.75
LEGAL SERVICES	07424 3140	9,250	440.00	12,003.16
M.C.-DVRFA-DEBT SERVICE	07471 1000	26,320	0.00	0.00
M.C.-DVRFA-INTEREST PAYMIN	07472 1010	2,043	0.00	0.00
TOTAL EXPENSES		127,311	19,239.25	101,591.43
NET OPERATING		(3,250)	760.88	(3,892.20)
MUNICIPAL AUTHORITY ENDING FUND BALANCE - OPERATING			4,557.78	
MUNICIPAL AUTHORITY ENDING FUND BALANCE CAPITAL + OPERATING			1,179,736.92	

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000	INTEREST	EARNINGS				0.00				
	1701	JE	56730		0.23		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
	1701			0.00	0.23	-0.23				
	1702		57134		0.06		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
	1702			0.00	0.06	-0.29				
	1703		57173		3.23		03/08/17	INTEREST		ADD'L INTEREST ADDED FROM JAN. 2017
			57549		0.61		04/05/17	INTEREST		INTEREST EARNED MARCH 2017 07 FUND
	1703			0.00	3.84	-4.13				
	1704		57927		1.06		05/03/17	INTEREST		INTEREST EARNED APRIL 2017 07 FUND
	1704			0.00	1.06	-5.19				
	1705		58423		0.96		06/02/17	INTEREST		INTEREST EARNED MAY 2017 07 FUND
	1705			0.00	0.96	-6.15				
	1706		58876		0.66		07/03/17	INTEREST		INTEREST EARNED JUNE 2017 07 FUND
	1706			0.00	0.66	-6.81				
	1707		59333		0.16		08/01/17	INTEREST		INTEREST EARNED JULY 2017 07 FUND
	1707			0.00	0.16	-6.97				
	1708		59780		0.13		09/01/17	INTEREST		INTEREST EARNED AUGUST 2017 07100.1000
	1708			0.00	0.13	-7.10				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000	1709	JE	60193		0.13		10/02/17	INTEREST		INTEREST EARNED SEPT. 2017 07 FUND
	1709			0.00	0.13	-7.23				
07341-1000	****	***	****	0.00	7.23	-7.23				
07341-1020	INTEREST EARNED - CONSTRUCTION					0.00				
	1701		56730		594.59		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
	1701			0.00	594.59	-594.59				
	1702		57134		536.20		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
	1702			0.00	536.20	-1,130.79				
	1703		57549		743.58		04/05/17	INTEREST		INTEREST EARNED MARCH 2017 07 FUND
	1703			0.00	743.58	-1,874.37				
	1704		57927		854.28		05/03/17	INTEREST		INTEREST EARNED APRIL 2017 07 FUND
	1704			0.00	854.28	-2,728.65				
	1705		58423		815.38		06/02/17	INTEREST		INTEREST EARNED MAY 2017 07 FUND
	1705			0.00	815.38	-3,544.03				
	1706		58876		843.23		07/03/17	INTEREST		INTEREST EARNED JUNE 2017 07 FUND
	1706			0.00	843.23	-4,387.26				
	1707		59333		982.28		08/01/17	INTEREST		INTEREST EARNED JULY 2017 07 FUND
	1707			0.00	982.28	-5,369.54				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1020	1708	JE	59796		980.51		09/05/17	INTEREST		INTEREST EARNED AUGUST 2017 07 FUND
	1708			0.00	980.51	-6,350.05				
	1709		60193		948.30		10/02/17	INTEREST		INTEREST EARNED SEPT. 2017 07 FUND
	1709			0.00	948.30	-7,298.35				
07341-1020	****	***	****	0.00	7,298.35	-7,298.35				
07364-1100	C.C.		TAPPING FEES			0.00				
	1704		57798		2,000.00		04/25/17	RECLASS		RECLASS TAP IN FEE
		RE	57797		2,000.00		04/25/17	57797 1		SEWER TAP IN - 5 SCHOOL LN C.C. TAPPING FEES
	1704			0.00	4,000.00	-4,000.00				
	1708		59745		2,000.00		08/31/17	CK105		TAP IN FEE-1418 E. STRASBRG C.C. TAPPING FEES
	1708			0.00	2,000.00	-6,000.00				
07364-1100	****	***	****	0.00	6,000.00	-6,000.00				
07364-1110	R.C.		TAPPING FEES			0.00				
	1704	JE	57798	2,000.00			04/25/17	RECLASS		RECLASS TAP IN FEE
		RE	57795		2,000.00		04/25/17	57795 1		SEWER TAP IN - 3 SCHOOL LN
	1704			2,000.00	2,000.00	0.00				
07364-1110	****	***	****	2,000.00	2,000.00	0.00				
07364-1130	CONNECTION		FEES - SEWER			0.00				
	1702	CR	56762		423.00		02/07/17	125 25	10162	1 JACOBS, ROBERT & CHERYL
			56823		423.00		02/13/17	125 26	10160	1 GEORGE SMITH & CHRISTINA CONLE
					423.00		02/13/17	125 27	10161	1 STOFFLET, MICHAEL
		**		0.00	846.00	***				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
<hr/>										
1702				0.00	1,269.00	-1,269.00				
1703		57212			423.00		03/09/17	125 54	10163 1	PAPPANO, JOSEPH & PATRICIA
<hr/>										
1703				0.00	423.00	-1,692.00				
<hr/>										
07364-1130	****	***	****	0.00	1,692.00	-1,692.00				
<hr/>										
07392-0500	TRANSFER FROM SEWER OPERATING					0.00				
	JE		57171		25,000.00		03/08/17	DEPOSIT		DEPOSIT FR: SEWER TO MUNICIPAL
<hr/>										
1703				0.00	25,000.00	-25,000.00				
1704		57579			40,000.00		04/06/17	DEPOSIT		DEPOSIT TO MA ACCT.7100.1000
<hr/>										
1704				0.00	40,000.00	-65,000.00				
1707		59229			5,000.00		07/26/17	XFER		XFER \$ FROM 05 TO 07 OPERATING
<hr/>										
1707				0.00	5,000.00	-70,000.00				
1709		60005			20,000.00		09/19/17	XFER		XFER \$ FROM SEWER TO MA
<hr/>										
1709				0.00	20,000.00	-90,000.00				
<hr/>										
07392-0500	****	***	****	0.00	90,000.00	-90,000.00				
<hr/>										
07424-1400	ADMINISTRATIVE WAGES					0.00				
1703	CD		57378	7,724.00			03/22/17	3048		425 EAST GOSHEN TOWNSHIP - GENERAL QTR.1 2017 REIMBURSEMENT FROM MA
<hr/>										
1703				7,724.00	0.00	7,724.00				
1706		58848		7,724.00			06/30/17	3059		425 EAST GOSHEN TOWNSHIP - GENERAL 2017 QTR.2 REIMBURSEMENT FROM MA
<hr/>										
1706				7,724.00	0.00	15,448.00				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-1400	1709	CD	60160	7,724.00			09/29/17	3103	425	EAST GOSHEN TOWNSHIP - GENERAL 2017 QTR.3 REIMBURSEMENT - MA
	1709			7,724.00	0.00	23,172.00				
07424-1400	****	***	****	23,172.00	0.00	23,172.00				
07424-3000						0.00				
	1701		56280	984.30			01/04/17	3040	2132	PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2017 ACTIVE MEMBERSHIP DUES
			56424	3.22			01/13/17	3041	425	EAST GOSHEN TOWNSHIP - GENERAL CORRECT BB&T DEPOSIT OF REMAININ BALANCE OF CLOSED ACCT.1100.1010 07100.1000
	1701			987.52	0.00	987.52				
	1706		58814	1,220.00			06/29/17	3058	3871	DELAWARE RIVER BASIN COMMISSION D-1984-056 CP ANNUAL FEE - WATER DISCHARGE
	1706			1,220.00	0.00	2,207.52				
07424-3000	****	***	****	2,207.52	0.00	2,207.52				
07424-3110						0.00				
	1703		57470	4,600.00			03/30/17	3049	808	MAILLIE FALCONIERO & CO. PROGRESS BILLING 2016 MUN.AUTH.
	1703			4,600.00	0.00	4,600.00				
	1704		57655	4,600.00			04/13/17	3052	808	MAILLIE FALCONIERO & CO. 2016 EXAM. FINAN. STMTS. MUN.AUT
	1704			4,600.00	0.00	9,200.00				
07424-3110	****	***	****	9,200.00	0.00	9,200.00				
07424-3130						0.00				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
1701	CD	56425	4,399.50			01/13/17	3042	1052	PENNONI ASSOCIATES INC. SERVICES THRU 10/16/16 RCSTP & P STATION
1701			4,399.50	0.00	4,399.50				
1702		56874	2,044.00			02/17/17	3045	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 2016 CHAP
1702			2,044.00	0.00	6,443.50				
1703		57328	7,962.00			03/17/17	3047	1052	PENNONI ASSOCIATES INC. SERV.THUR 2/12/17 2017 GEN.SERV
1703			7,962.00	0.00	14,405.50				
1704		57510	5,416.50			04/03/17	3050	1052	PENNONI ASSOCIATES INC. SERV.THUR 12/11/16 2016 GEN.SERV
		57655	7,306.50			04/13/17	3053	1052	PENNONI ASSOCIATES INC. SERVICE THRU 3/19/17 RCSTP PERM
1704			12,723.00	0.00	27,128.50				
1705		58070	8,211.75			05/11/17	3054	1052	PENNONI ASSOCIATES INC. SERVICE THRU 4/16/17 RCSTP & PUM STATION
1705			8,211.75	0.00	35,340.25				
1706		58614	2,805.25			06/14/17	3057	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/14/17 RCSTP PERM
1706			2,805.25	0.00	38,145.50				
1707		58978	3,166.75			07/12/17	3060	1052	PENNONI ASSOCIATES INC. SERVICES THRU 6/18/17 WHITE CHIM
1707			3,166.75	0.00	41,312.25				
1708		59496	2,621.25			08/11/17	3063	1052	PENNONI ASSOCIATES INC. SERVICES THRU 7/16/17-2017 GEN.S
1708			2,621.25	0.00	43,933.50				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3130	1709	CD	59939	9,869.50			09/13/17	3101	1052	PENNONI ASSOCIATES INC. SERV. THRU 8/13/17 SUPPLEE VAL.P
			60029	1,205.75			09/20/17	3102	1052	PENNONI ASSOCIATES INC. SERVICE THRU 8/13/17 RCSTP & PS
	1709			11,075.25	0.00	55,008.75				
07424-3130	****	***	****	55,008.75	0.00	55,008.75				
07424-3140	LEGAL SERVICES					0.00				
	1701		56550	940.00			01/25/17	3043	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - DEC. 2016 GEN.AU
	1701			940.00	0.00	940.00				
	1702		56874	597.50			02/17/17	3044	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - JAN.2017 GEN.AUT
	1702			597.50	0.00	1,537.50				
	1703		57328	655.00			03/17/17	3046	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. FEB.2017 GEN.AUTHORI
	1703			655.00	0.00	2,192.50				
	1704		57655	2,140.00			04/13/17	3051	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - MARCH 2017 GEN.A
	1704			2,140.00	0.00	4,332.50				
	1705		58187	2,407.41			05/19/17	3055	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 4/4-4/28/17 GEN.AU
	1705			2,407.41	0.00	6,739.91				
	1706		58614	1,640.00			06/14/17	3056	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. - MAY 2017 GEN.AUTH.
				1,723.25			06/14/17	3057	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/14/17 2017 GEN.S
		**		3,363.25	0.00	***				
	1706			3,363.25	0.00	10,103.16				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3140	1708	CD 59496	1,460.00			08/11/17	3062	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE JUNE 2017 - GEN.AU
	1708		1,460.00	0.00	11,563.16				
	1709	59939	440.00			09/13/17	3100	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - AUG. 2017 GEN.AU
	1709		440.00	0.00	12,003.16				
07424-3140	****	*** ****	12,003.16	0.00	12,003.16				
07428-1000		RESERVOIR PUMP STATION - ENGINEER			0.00				
	1701	56426	2,546.50			01/13/17	22002	1052	PENNONI ASSOCIATES INC. SERVICE THRU 10/16/16 RESERV.RD
		56551	375.00			01/25/17	22003	263	CHESTER COUNTY CONSERVATION DISTRICT RESERVOIR RD. NPDES PLAN REVIEW
	1701		2,921.50	0.00	2,921.50				
	1702	56875	1,422.75			02/17/17	22004	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 RESERV.RD
	1702		1,422.75	0.00	4,344.25				
	1704	57511	1,784.25			04/03/17	22005	1052	PENNONI ASSOCIATES INC. SERV.THUR 12/11/17 RESERVOIR RD.
		57656	1,516.50			04/13/17	22006	1052	PENNONI ASSOCIATES INC. SERV.THUR 3/19/17 RESERV.RD PS
	1704		3,300.75	0.00	7,645.00				
	1705	58071	1,261.50			05/11/17	22007	1052	PENNONI ASSOCIATES INC. SERVICES THRU 4/16/17 RESERV.RD
	1705		1,261.50	0.00	8,906.50				
	1706	58616	2,083.00			06/14/17	22009	1052	PENNONI ASSOCIATES INC. SERVICE THRU 5/24/17 RESERV.RD P
	1706		2,083.00	0.00	10,989.50				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07428-1000	1707	CD	58979	2,726.00			07/12/17	22010	1052	PENNONI ASSOCIATES INC. SERVICE THRU 6/18/17 RESERV.RD P
	1707			2,726.00	0.00	13,715.50				
	1708		59495	2,589.25			08/11/17	22011	1052	PENNONI ASSOCIATES INC. SERVICE THRU 7/16/17 RESERVOR RD
	1708			2,589.25	0.00	16,304.75				
	1709		59942	80.25			09/13/17	22012	1052	PENNONI ASSOCIATES INC. SERV. THRU 8/13/17 RESERV.RD PS
	1709			80.25	0.00	16,385.00				
07428-1000	****	***	****	16,385.00	0.00	16,385.00				
07429-6100						0.00				
	1705		58071	705.00			05/11/17	22007	1052	PENNONI ASSOCIATES INC. SERV. THRU 4/16/17 W.GOSHEN SEWE
				220,814.48			05/11/17	22008	3843	WEST GOSHEN SEWER AUTHORITY PROJECT COSTS RE: CONSTRUCTION, LABOR, PARTS, ENGINEERING, LEGAL TESTING
		**		221,519.48	0.00	***				
	1705			221,519.48	0.00	221,519.48				
	1706		58616	1,146.00			06/14/17	22009	1052	PENNONI ASSOCIATES INC. SERVICE THRU 5/24/17 W.GOSHEN SE
	1706			1,146.00	0.00	222,665.48				
	1708		59495	269.25			08/11/17	22011	1052	PENNONI ASSOCIATES INC. SERVICE THRU 7/16/17 W.GOSH SEWE
	1708			269.25	0.00	222,934.73				
07429-6100	****	***	****	222,934.73	0.00	222,934.73				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description

Grand Total			342,911.16	106,997.58	235,913.58				

Source	Debits	Credits

JE	2,000.00	99,305.58
RE	0.00	6,000.00
CR	0.00	1,692.00
CD	340,911.16	0.00

	342,911.16	106,997.58

ADVERTISEMENT
INSTRUCTIONS TO BIDDERS
FORM OF BID
FORM OF GUARANTY
GENERAL CONDITIONS
SPECIAL CONDITIONS
CONSTRUCTION SPECIFICATIONS
FORM OF AGREEMENT
FORM OF BONDS
LIST OF CONTRACT DRAWINGS

*EAST GOSHEN MUNICIPAL AUTHORITY
WEST CHESTER, PENNSYLVANIA*

SUPPLEE VALLEY SANITARY SEWER PIPE LINING

CONTRACT NO. SSPL - 2017

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OCTOBER 2017

PENNONI ASSOCIATES INC.
CHRISTIANA EXECUTIVE CAMPUS
121 CONTINENTAL DRIVE, SUITE 207
NEWARK, DE 19713

PROJECT NO. EGMA1704



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

www.pennoni.com

October 5, 2017

PRO 17-05144

East Goshen Municipal Authority

Attn: Rick Smith, Township Manager
1580 Paoli Pike
West Chester, PA 19380

**RE: Barkway Pump Station Grinder Unit Addition
 East Goshen Municipal Authority**

Dear Mr. Smith:

Pennoni is pleased to present this engineering services proposal for design assistance related to the installation of a sewage grinder unit at the Barkway Pump Station.

PROJECT DESCRIPTION

Barkway Pump Station, located at the corner of Barkway Lane and Morstein Road, was designed by Yerkes Associates, Inc. as part of the Mill Valley Sewer Project. The pump station is equipped with a bar screen style trash basket for the removal of large solids that may otherwise damage the pumps. The trash rack must be removed frequently and manually cleaned due to the amount of rags and other solids reaching the pump station. The Public Works Department would like to install a Muffin Monster grinder as manufactured by JWC Environmental to eliminate trash rack maintenance and ongoing pump problems. The Muffin Monster grinds wastewater solids to allow them to be safely pumped through the conveyance and treatment systems. We understand that the Township plans to purchase the Muffin Monster directly from the equipment manufacturer representative, Watermark, and will contract out the labor for installation of the equipment and/or perform installation using Public Works Department staff.

The existing pump station is a duplex pump station with a 5-foot diameter wet well top slab with a double door access hatch for pump and trash rack removal. The wet well is located under the extended roof of the generator building which limits access for lifting pumps. The Muffin Monster size and mounting configuration would need to be evaluated to determine if the unit would fit into the existing wet well without impeding access to the pumps. However, the overhanging roof will make installation, removal and maintenance difficult for the 70-inch tall unit under the 96-inch high ceiling. JWC Environmental offers a 5 HP Muffin Monster unit with a hydraulic power pak. Muffin Monster units are typically mounted into wet wells or in manholes just upstream of the wetwell. The installation of a new prefabricated fiberglass manhole upstream of the wet well may be the best option for ease of access and installation. A control panel can be mounted on a strut system at the wet well on the wall of the building. New PVC conduit will be installed from the Generator Building underground to the wet well for the required power feed.

Based on our preliminary observation of the pump station electrical system, it appears that adequate capacity exists for the additional electric load that will be imparted by the Muffin Monster. However, it may be necessary to perform some minor modifications to the electrical system; the extent of any modifications will be determined during the design phase.

We anticipate the following work items will be required for the installation of the new Muffin Monster at the Barkway Pump Station:

- Bypass pumping during the work in the wet well or for installation of the new manhole.
- Demolition of the existing trash rack and mounting supports.
- Installation of the Muffin Monster, mounting frame, and slide rails in the wet well or the new manhole.
- Installation of a new PVC conduit from the Generator Building to the grinder unit for power feed and controls.
- Installation of the Muffin Monster hydraulic power pak and control panel outside the Generator Building.
- Some minor interior modifications may be required to the power panel.
- Startup and testing of the Muffin Monster.

Based on the work items described above, and assuming the Township will purchase the Muffin Monster directly from the manufacturer, the preliminary construction cost is estimated at \$66,700 - \$97,750 with a 15% contingency as summarized in the table below.

Table 1 - Wet Well Mounting Option

Equipment Purchase:	
Muffin Monster Grinder, Wet Well Mounting Frame, Slide Rails, Control Panel	\$33,000
Estimated Installation Labor and Incidental Materials (anchors, conduit, brackets, etc.)	\$25,000
Materials and Installation Labor Subtotal	\$58,000
15% Contingency	\$8,700
Estimated Construction Cost	\$66,7000

Table 2 – New Manhole Option

Equipment Purchase:	
Muffin Monster Grinder and Manhole package, Wet Well Mounting Frame, Slide Rails, Control Panel	\$55,000
Estimated Installation Labor and Incidental Materials (excavation, pipe connections, anchors, conduit, brackets, etc.)*	\$15,000
Materials and Installation Labor Subtotal	\$70,000
15% Contingency	\$10,500
Estimated Construction Cost	\$80,500

*Based on PW Department performing most of the construction.

SCOPE OF SERVICES

Pennoni will prepare mechanical and electrical plans and sections suitable for use by the Township to construct the work. A bid document will not be prepared. We will also work with the local Muffin Monster equipment representative, Watermark Environmental Systems, to obtain a proposal suitable for use by the Township to purchase the equipment. We will complete the following tasks:

- Site visit with our electrical engineer to verify the control panel location and power panel interconnection requirements and evaluate available space for the control panel.
- Evaluation of the pump station for best installation option for ease of construction and future operation and maintenance.

- Preparation of mechanical plan, section and installation details for the Muffin Monster. Any required material specifications will be included on the drawings.
- Preparation of an electrical plan, single line diagram and electrical details. Any required material specifications will be included on the drawings.
- Coordination with Watermark Environmental Systems for Township purchase of Muffin Monster.
- We will meet with the Township one time during the design to review and discuss the plans.
- Submission of design plans to PADEP as a notification that the work is proposed. PADEP has not required permitting for grinder additions in the past so we assume they will not require a permit application for this project.

We do not expect that any other agency permits will be required for this work, so no permit applications are included in this scope. No building and roof modifications are included in the scope either.

SCHEDULE

We anticipate completion of the construction drawings approximately four weeks from receipt of the Township's approval of this proposal.

FEE

Our fixed Lump Sum fee for this project will be **\$9,000.00**.

Construction assistance and/or inspection services can be provided for an additional fee on a time and materials basis at our approved hourly rates.

Extraordinary expenses, authorized in advance and identifiable to the specific project will be billed in addition to the above stated fees. These expenses include, but are not limited to: application fees, UPS and delivery charges, and the reproduction of plans and specifications by outside services. We do not bill for such items as relatively small amounts of in-house printing, mailing expenses, reasonable telephone calls, and travel expenses.

BILLING AND PAYMENT

An invoice for professional services completed will be presented for payment on a monthly basis. Invoices are due upon receipt. The Client acknowledges that the method of billing and payment has been discussed in detail, that the terms agreed upon can only be changed by a written addendum agreed to by both parties, and that work may be stopped until payment is made in accordance with the agreement.

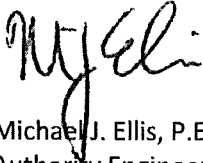
TERMS AND CONDITIONS

The attached *Pennoni Associates Inc. General Terms and Conditions (Form No. LE01, Rev. 12/2015)* are considered as part of this proposal.

We appreciate the opportunity to submit this proposal. Should you have any questions or need additional information, please do not hesitate to call.

Sincerely,

PENNONI ASSOCIATES INC.



Michael J. Ellis, P.E.
Authority Engineer

Please indicate your acceptance of this proposal by signing and returning a copy as our authorization to proceed. In signing this proposal, the Client authorizes Pennoni to complete the professional services outlined in this proposal.

Accepted By:

(Authorized Representative of the Client)

(Print Name & Title)

(Date)



PENNONI ASSOCIATES INC.
GENERAL TERMS & CONDITIONS
PRO 17-05144

1. Unless withdrawn sooner, proposals are valid for thirty (30) days.
2. The technical and pricing information in proposals is the confidential and proprietary property of Pennoni Associates Inc. ("Pennoni") or any Pennoni subsidiary or affiliate. Client agrees not to use or to disclose to third parties any technical or pricing information without Pennoni's written consent.
3. The agreement created by the Client's acceptance of a proposal and these Terms & Conditions is hereinafter referred to as the "Agreement." If a proposal is submitted to Client and Client fails to return a signed copy of the proposal but knowingly allows Pennoni to proceed with the services, then Client shall be deemed to have accepted the terms of the proposal and these General Terms & Conditions. If there is a conflict or inconsistency between any express term or condition in the proposal and these General Terms & Conditions, then the proposal shall take precedence. The proposal and these General Terms & Conditions constitute the entire Agreement, and supersede any previous agreement or understanding.
4. Payment is due upon receipt of invoices as submitted. If Client chooses to make any payment via major credit card, Client agrees to pay a 3% surcharge or 1.03 times the total amount invoiced. Client agrees to pay interest at the rate of 1½ percent per month on invoices that are more than 30 days past due. If an invoice is 30 or more days past due, then Pennoni may suspend services and refuse to release work on this Agreement or any other agreement between Client and Pennoni until Client has paid all amounts due. Unless Pennoni receives written notice of Client's dispute of an invoice within 30 days of the invoice date, the invoice will be presumed correct. If payment is not made in accordance with the Agreement, then Client agrees to pay reasonable costs and attorney's fees incurred by Pennoni to collect payment.
5. All drawings, sketches, specifications and other documents ("Documents") in any form, including electronic, prepared by Pennoni are instruments of Pennoni's services, and as such are and shall remain Pennoni's property. Upon payment in accordance with the Agreement, Client shall have the right to use and reproduce the Documents solely for the purposes of constructing, remediating, using or maintaining the project contemplated by the Agreement ("Project"). The Documents are prepared for use on this Project only, and are not appropriate for use on other projects, any additions or alterations of the Project, or completion of the Project by others. Client shall not use the Documents in violation of this paragraph without Pennoni's express written consent; and such use is at the Client's sole risk. Client agrees to indemnify, defend and hold harmless Pennoni from any claims, damages, losses, liabilities and expenses arising from such prohibited use.
6. The proposed fees and schedule constitute Pennoni's best estimate of the charges and time required to complete the Project. As the Project progresses, facts uncovered may dictate revisions in scope, schedule or fee. The hourly rate schedule for services provided on a time and material basis will be subject to increases annually.
7. Fee and schedule commitments will be subject to change for delays caused by Client's failure to provide specified facilities or information, or for delays caused by third parties, unpredictable occurrences or force majeure.
8. Where the method of payment is based on time and materials, Client agrees that the following will apply: The minimum time segment for charging work is one-quarter hour, except the minimum time segment for charging of field survey work is four (4) hours. Client reimbursable expenses include travel and living expenses of personnel when away from the home office on business connected with the Project; subcontractor and subconsultant costs; identifiable communications, mailing and reproduction costs; identifiable drafting and stenographic supplies; and expendable materials and supplies purchased specifically for the Project. A ten (10) percent administrative and handling charge will be added to client reimbursable expenses.
9. Client's termination of this Agreement will not be effective unless Client gives Pennoni seven (7) days prior written notice with accompanying reasons and details, and affords Pennoni an opportunity to respond. Where the method of payment is "Lump Sum," Client agrees that the final invoice will be based on services performed to the effective date of cancellation, plus an equitable adjustment to provide for costs Pennoni incurred for commitments made prior to cancellation. Where the method of payment is time and materials, Client agrees that the final invoice will include all services and direct expenses up to the effective date of cancellation plus an equitable adjustment to provide for costs Pennoni incurred for commitments made prior to cancellation.
10. Pennoni will maintain at its own expense Workman's Compensation insurance, Commercial General Liability insurance, and Professional Liability insurance.
11. Neither the Client nor Pennoni shall assign this Agreement without the written consent of the other.

12. Pennoni does not represent or warrant that any permit or approval will be issued by any governmental or regulatory body. Pennoni will endeavor to prepare applications for such permit or approval in conformance with applicable requirements; but, in view of the complexity of and the frequent changes in applicable rules and regulations and interpretations by the authorities, Pennoni cannot guarantee that any such application will be considered complete or will conform to all applicable requirements.
13. Pennoni will perform its work in accordance with generally accepted professional standards. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED. This Agreement is solely for the benefit of the Client and its successors. There is no third-party beneficiary of this Agreement.
14. CLIENT AND PENNONI HAVE CONSIDERED THE RISKS AND REWARDS ASSOCIATED WITH THIS PROJECT, AS WELL AS PENNONI'S TOTAL FEE FOR SERVICES. CLIENT AGREES THAT, TO THE FULLEST EXTENT PERMITTED BY LAW, PENNONI'S TOTAL AGGREGATE LIABILITY (INCLUDING THE LIABILITY OF ITS OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, SUBCONTRACTORS AND CONSULTANTS) TO THE CLIENT (AND ANYONE CLAIMING BY, THROUGH OR UNDER THE CLIENT) FOR ANY AND ALL INJURIES, CLAIMS, LOSSES, EXPENSES OR DAMAGES ARISING OUT OF THIS AGREEMENT FROM ANY CAUSE OR CAUSES IS LIMITED TO THE TOTAL FEE RECEIVED BY PENNONI UNDER THIS AGREEMENT OR \$50,000, WHICHEVER IS GREATER. SUCH CAUSES INCLUDE, BUT ARE NOT LIMITED TO, PENNONI'S NEGLIGENCE, ERRORS, OMISSIONS, STRICT LIABILITY, OR BREACH OF CONTRACT OR WARRANTY.

IN THE EVENT THE CLIENT IS UNABLE TO ACCEPT THE ABOVE LIMITATION OF LIABILITY, PENNONI AGREES TO INCREASE THE LIMITATION TO \$1,000,000 UPON ITS RECEIPT, PRIOR TO PERFORMING ANY SERVICES, OF CLIENT'S WRITTEN AGREEMENT TO PAY AN ADDITIONAL SUM OF NOT LESS THAN 10% OF THE TOTAL FEE UNDER THIS AGREEMENT OR \$1,000, WHICHEVER IS GREATER.
15. Client shall make no claim against Pennoni unless the Client first provides a written certification, executed by an independent design professional, specifying those acts or omissions which the independent design professional contends is a violation of generally accepted professional standards and upon which the claim will be premised. The independent design professional must be licensed to practice in the state where the Project is located and in the discipline related to the claim. Client agrees that the independent design professional's certification is a condition precedent to the Client's right to institute any judicial proceeding.
16. If required under the scope of services, Pennoni shall visit the Project site to become generally familiar with the progress and quality of the work for which Pennoni prepared contract documents, and Pennoni shall not make exhaustive or continuous onsite inspections. Pennoni's services do not include supervision or direction of the contractor's work. Observation by Pennoni field representatives shall not excuse the contractor for defects or omissions in its work. Pennoni shall not control construction means, methods, techniques, sequences, or procedures, and the contractor is solely responsible for all work on the Project, including safety of all persons and property.
17. If Client does not retain Pennoni to render construction phase services, then Client waives any claim it may have against Pennoni and agrees to indemnify, defend, and hold harmless Pennoni from any loss or liability, including attorneys fees and other defense costs, arising out of or related to the interpretation of Pennoni's plans and specifications, the review of shop drawings, the evaluation of contractor's request for change orders, or the failure to detect and correct obvious errors or omissions in Pennoni's plans and specifications.
18. Unless and until a court determines that Pennoni's preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs, specifications and/or Pennoni's giving or failure to give instructions is the primary cause of any damage, claim, loss or expenses, Client shall indemnify, defend and hold harmless Pennoni and its officers, employees and consultants from and against all damages, claims, losses or expenses, including reasonable attorneys fees and other costs of defense, arising out of this Agreement. In the event the Client is required to defend Pennoni under this paragraph, Pennoni shall have the right to select its attorneys.
19. Client agrees to pay reasonable expert witness fees if Pennoni or any of its employees is subpoenaed to testify as a fact or opinion witness in any court proceeding, arbitration, or mediation to which the Client is a party.
20. Unless otherwise provided in this proposal, Pennoni shall have no responsibility for the discovery, presence, handling, removal, or disposal of hazardous materials or underground structures at the Project site.
21. Client and Pennoni waive consequential damages arising out of this Agreement.
22. This Agreement shall be governed by the laws of the Commonwealth of Pennsylvania.
23. Both Pennoni and Client agree to waive the right to subrogation for covered losses and each shall obtain similar waivers from Owner, subcontractors, property and casualty insurers, and any other party involved in this Project.



October 2, 2017

BY CERTIFIED AND FIRST CLASS MAIL

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

Re: Mariner East 2 – Pennsylvania Pipeline Project
Horizontal Directional Drilling Construction Notification
and Private Water Supply/Well Sampling Offer

Dear East Goshen Municipal Sewer Authority:

Sunoco Pipeline L.P. (“SPLP”) is writing to inform you that a certain construction activity known as Horizontal Directional Drilling (“HDD”) for Mariner East 2, also known as the Pennsylvania Pipeline Project, is located within 450 feet of your property boundary.

SPLP sent you a letter before construction activity began on the first of two HDDs that will occur in the area. This letter is intended to inform you that the second HDD will begin as soon as ten (10) days of the date of this letter.

As part of this construction activity, SPLP is offering private water supply/well testing at SPLP’s expense if you have a private water supply/well located within 450 feet of the HDD alignment. SPLP will provide you copies of all test results from your private water supply/well. Please note that upon their request, we will provide the test results to the Pennsylvania Department of Environmental Protection as well.

- ***If you have already contacted the Right-of-Way agent for your area and requested that your private water supply/well be tested, you do not need to take any further action in response to this letter.***
- If you have ***not*** previously contacted the Right-of-Way agent for your area, SPLP is requesting that you do so by calling Amy Johnson at (717) 208-7735 to provide SPLP with the following information:
 1. If you have a private water supply/well on your property;
 2. The location of your private water supply/well on your property; and,
 3. If you would like to have your private water supply/well tested.

If you have not previously contacted the Right-of-Way agent for your area, and you would like to have your private water supply/well tested, you must contact the Right-of-Way agent for your area within the next then (10) days by calling Amy Johnson at (717) 208-7735 Your private water supply/well will be tested at a mutually-convenient time within ten (10) days of SPLP's receipt of your request for testing. If you do not contact the Right-of-Way agent, there will be no further contact from us regarding any private water supply/well testing.

If you have any questions or concerns, please do not hesitate to contact the Right-of-Way agent for your area by calling Amy Johnson at (717) 208-7735.

Thank you for your cooperation.



Mark McConnell
Land Project Manager
Representing Sunoco Pipeline L.P.
Office: (814) 204-0450

BOARD OF SUPERVISORS
EAST GOSHEN TOWNSHIP
CHESTER COUNTY
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

FYI

September 29, 2017

Dear Property Owner:

The purpose of this letter is to inform you that the owner of 1007 Taylor Avenue, West Chester, PA 19380, has submitted a subdivision application and plan for review and approval by the Township. The owner, Taylor Ave Partners, proposes a 2 lot subdivision of the property. The existing parcel has an area of approximately 1.08 acres, has two existing single family homes and a large garage.

The property was recently granted zoning variances to allow for the subdivision of this legal non-conforming lot with legal non-conforming structures. The owner proposes to subdivide the 1.079 acre parcel into two lots in such a way as to position each single family home on its own parcel.

The application and plan proposes to subdivide the existing lot creating one new .870 acre lot and one new .209 acre lot.

Pursuant to Township policy, property owners and residents within 1000 feet of the subject property are notified of subdivision application submissions.

The public meeting schedule for the review and possible approval of this application is:

- **October 4, 2017 - Planning Commission meeting (7:00 PM)**
- **November 1, 2017 - Planning Commission meeting (7:00 PM)**
- **November 21, 2017 - Board of Supervisors (7:00 PM)**

All meetings are held at the Township Building and are open to the public and subject to change without further written notice. The application and plan is available for review at the Township building during normal business hours. Please give me a call at or email me at mgordon@eastgoshen.org if you have any questions or need additional information.

Sincerely,



Mark A. Gordon
Township Zoning Officer

Cc: All Township Authorities, Boards and Commissions