

**EAST GOSHEN MUNICIPAL AUTHORITY**

**September 10, 2018**

**7:00 PM**

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. August 13, 2018

5. APPROVAL OF INVOICES

Pennoni Approved and Paid Invoice from July

Pennoni Invoice #815429	\$ 2,607.25 paid
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Pennoni Invoice #815428	\$ 3,619.00 paid
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Pennoni Invoice #818043	\$ 200.75
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Pennoni Invoice #818044	\$ 933.75
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Pennoni Invoice #818045	\$ 822.00
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6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. August Financial Report

8. OLD BUSINESS

- a.

9. GOALS

- a. Continue to monitor the upgrades at West Goshen Sewer Plant. Jack and Phil have been attending meetings.de
- b. Continue to implement the I&I Plan – 3-8-2018 completed
- c. Submit articles for the newsletter - none

10. NEW BUSINESS
  - a. Pump Replacement for SBR tank
  - b. Pennoni Budget Supplement
11. CAPACITY REQUESTS
12. ANY OTHER MATTER
13. CORRESPONDENCE AND REPORTS OF INTEREST
14. PUBLIC COMMENT
15. ADJOURNMENT

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

September 6, 2018

To: Municipal Authority  
From: Mark Miller  
Re: August 2018 Monthly Report

**Monthly Flows:** The average daily flow to West Goshen was 787,000 gallons per day. No problems to report.

**Meters:** The meters are being read on a daily basis. The meters were calibrated two weeks ago with no problems. The Paoli Pike meter is out of service due to PECO problem, they have been notified and we are waiting on them for repairs.

**C.C. Collection:** The pump stations were visited on a daily basis. The emergency generators were serviced; no problems were found. The older generator at Ridley is going thru engine oil so much that we have started checking it on a weekly basis. This unit is scheduled to be replaced in 2019. As you know the Muffin Monster at Ashbridge is on its way out, I hope to have it replaced next week.

We were notified of a sewer lateral back up in Marydell, we plunged the lateral to clear the backup. We had a phone line problem at Ashbridge and Verizon was notified and the line has been repaired.

**R.C. Collection:** There were not problems to report for the month.

**Ridley Creek:** The pumps were picked up at Deckmens and returned to SBR2

**Alarms:** We responded to 15 alarms for the month of August.

**PA One Calls:** We received 61 PA One calls in August.

**Rainfall:** August rainfall total was 10.85

**EAST GOSHEN MUNICIPAL AUTHORITY**  
**ENGINEER'S REPORT**  
September 7, 2018

**Invoices**

- Invoices with summaries are provided under separate cover.

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

- Caustic soda pilot study – Upon receipt of Big Fish's study analysis, a summary report will be issued.
- SBR coatings –
  - We will submit a report summarizing our structural engineer's visual inspection of the SBR #2 wall coatings and concrete conditions prior to the September MA meeting. Notably, there is corrosion occurring on certain iron piping and fittings for which blasting & coating and replacement is recommended.
  - A meeting was conducted at the site to determine the coating blistering repair approach in SBR #2 with Pennoni, Dutchland, Township staff, and Kevin Cummings. Dutchland subsequently made spot repairs to blisters on the walls.
  - We also sampled the pH of water behind the blisters in SBR #2. The pH of water in blisters on the floor was 14, and the pH of blisters on the wall was 10-11. However, there were difficulties sampling the wall blisters due to lack of water so those results may not be fully indicative of the actual condition.
  - It is our understanding that the warranty expires in October 2019.

**RCSTP and Pump Stations' O&M Manual**

- We recommend the Manual be revisited to determine if updates are needed and/or if new information has become available to incorporate now that it has been in place for one full year.

**Supplee Valley Pipe Lining**

- We determined in coordination with SWERP and Mark Miller that the remaining two lateral saddle repairs will not be performed under this contract due to lack of access and risk of improper installation. The contract is therefore complete, and we are awaiting submission of closeout documents and a final payment application from SWERP.

**Barkway Pump Station Grinder**

- We met with Mark Miller on June 5 to review our design plans. We are re-evaluating the feasibility of coring the wet well to run the hydraulic lines rather than entering through the top of the wet well steel hatch. However, a site investigation is required to accurately determine coring feasibility due to inconsistencies in how the foundation is shown on the original pump station design plans. The design plans will be finalized thereafter. *No update since our last report.*

### **Ashbridge Pump Station Force Main**

- Test pits will be performed to identify backfill conditions along Manley Road with one test pit on Edith Lane, as recommended by the Municipal Authority, when weather permits. *No update since our last report.*

### **Tallmadge Drive Sewer Main Replacement**

- We received the Form of Agreement, bonds, and insurance documentation from the awarded contractor. The Agreement and bonds are acceptable, but there have been several issues with their insurance coverages including a gap in their worker's compensation (WC) coverage. They obtained new WC coverage this week. We are still awaiting a minor change to their auto policy coverage and confirmation that their umbrella covers all other policies. Once we receive those items, the Agreement can be signed by the MA.
- The contractor is planning to perform the work in early November, and he anticipates 2 weeks to complete the project. The contract allows for 20 consecutive calendar days.

### **I&I Support and Reporting**

- We intended to analyze meter data and submit the next semi-annual I&I report following completion of the Supplee Valley pipe lining project so that the impact of that project can be assessed. However, there have been issues with obtaining instantaneous meter data from the permanent collection system meters, so we are evaluating if there is adequate data to prepare a I&I report or analysis at this time. We propose to make a summary Powerpoint presentation at a MA meeting once the next report is submitted.

### **New Connections**

- No activity since last report.

### **West Goshen Sewer System Consultation**

- No activity since last report.

### **Capital Improvement Planning**

- No activity since last report.



**Executive Summary**

The Ridley Creek sewage treatment plant outfalls 001 and 002 achieved compliance with the permitted effluent discharge limitations for during the month of July 2018. Discharge to the Applebrook irrigation lagoon continued during the month. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

**Treatment Process Operation**

Table 1 illustrates the final effluent composite sample data reported for the July 2018 DMR.

**Table 1**

<b>July 2018 - Final Effluent - Out Fall 001</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	Average	20	125	10	131	2.5	44	0.5	3	200	1,000
		40		42							
Sample Date											
July 3, 2018	0.182	2.0	3.0	2	3.0	0.155	0.24	0.10	0.15	1	0.0000
July 6, 2018	0.171			3	4.3						
July 10, 2018	0.152	3.6	4.6	3	3.8	0.547	0.69	0.25	0.32	1	0.0000
July 17, 2018	0.127	2.7	2.9	5	5.3	0.717	0.76	0.25	0.26	1	0.0000
July 20, 2018	0.160			2	2.7						
July 24, 2018	0.373	2.0	6.2	5	15.6	0.737	2.29	0.22	0.68	1	0.0000
July 31, 2018	0.184	3.7	5.7	3	4.6	0.100	0.15	0.10	0.15	1	0.0000
Average	0.193	3.0	4.8	4	6.4	0.525	0.97	0.21	0.35	1	0.0000
Minimum	0.127	2.0	2.9	2	2.7	0.100	0.15	0.10	0.15	1	0.0000
Maximum	0.373	3.7	6.2	5	15.6	0.737	2.29	0.25	0.68	1	0.0000

The total phosphorus monthly average was reported as 0.21 mg/L as compared to the permitted limitation of 0.50 mg/L. Total phosphorus discharge concentrations ranged from 0.10 to 0.25 mg/L. The ammonia as nitrogen monthly concentration



**RCSTP Monthly Operations  
Report:  
August 2018**

was reported as 0.525 mg/L as compared to the permit discharge limitation of 2.5 mg/L. The ammonia as N weekly maximum was 0.737 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 2 illustrates the final effluent composite sample data reported for the July 2018 DMR.

**Table 2**

<b>July 2018 - Applebrook - Out Fall 002</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	Average	20	125	21	131	7	44	0.5	3	200	1,000
		40		42							
July 3, 2018	0.1499	2.0	2.5	2	2.5	0.155	0.194	0.10	0.13	1	0.0000
July 6, 2018	0.1576			3	3.9						
July 10, 2018	0.1497	3.6	4.5	3	3.7	0.547	0.683	0.25	0.31	1	0.0000
July 17, 2018	0.0970	2.7	2.2	5	4.0	0.717	0.580	0.25	0.20	1	0.0000
July 20, 2018	0.1585			2	2.6						
July 24, 2018	0.1518	2.0	2.5	5	6.3	0.737	0.933	0.22	0.28	1	0.0000
July 31, 2018	0.1524	3.7	4.7	3	3.8	0.100	0.127	0.10	0.13	1	0.0000
Average	0.1453	2.8	3.3	3	3.9	0.451	0.503	0.18	0.21	1	0.0000
Minimum	0.0970	2.0	2.2	2	2.5	0.100	0.127	0.10	0.13	1	0.0000
Maximum	0.1585	3.7	4.7	5	6.3	0.737	0.933	0.25	0.31	1	0.0000

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 3 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during July 2018.



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**Table 3**

<b>July 2018 - Influent Wastewater</b>											
Design Basis	Flow	BOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		TKN, mg/L		Phosphorus, Total, mg/L	
	MGD Average	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
		335	2,098	320	2,001	32	200	48	301	9.1	57
<b>Sample Date</b>											
July 3, 2018	0.423	131	462	90	317	37.2	131	34.6	122	4.2	14.8
July 10, 2018	0.449	231	815	218	769	33.6	126	29.6	111	5.6	19.8
July 17, 2018	0.301	250	882	224	790	30.0	75	37.3	94	0.28	1.0
July 24, 2018	0.688		0		0		0		0		0.0
July 31, 2018	0.442		0		0		0		0		0.0
Average	0.460	204	432	177	375	33.6	66	33.8	65	3.4	7.1
Minimum	0.301	131	0	90	0	30.0	0	29.6	0	0.3	0.0
Maximum	0.688	250	882	224	790	37.2	131	37.3	122	5.6	19.8

Table 4 presents the available Outfall 001 final effluent data for the month of August 2018. 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.

**Table 4**

<b>August 2018 - Final Effluent - Out Fall 001</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -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
		20	125	10	131	2.5	44	0.5	3	200	1,000
		40		42							
<b>Sample Date</b>											
August 7, 2018	0.185	3.1	4.8	1	1.5	0.139	0.21	0.10	0.15	1	0.0000
August 14, 2018	0.325	3.5	9.5	6	16.3	0.338	0.92	0.25	0.68	68	1.8325
August 21, 2018	0.321							0.19	0.51		
August 28, 2018	0.202							0.35	0.59		
Average	0.258	3.5	9.5	6	16.3	0.338	0.92	0.26	0.59	68	1.8325
Minimum	0.185	3.1	4.8	1	1.5	0.139	0.21	0.10	0.15	1	0.0000
Maximum	0.325	3.5	9.5	6	16.3	0.338	0.92	0.35	0.68	68	1.8325





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The facility is anticipated to achieve compliance with the discharge permit limitations during the month of August 2018. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.

During August, the presence of foam conditions on the surface of the SBRs remained consistent at approximately 75% to 100% coverage of the surface area. The foam thickness is approximately 3 to 4 inches with a light to medium brown color. The warmer water temperatures within the SBRs, coupled with raising the food to mass ratios, the foam concentrations have decreased.

Table 5 presents the available August data for Outfall 002, Applebrook. The discharge limitations for Outfall 002 are anticipated to remain within compliance with the NPDES permit. Discharge to Applebrook, Outfall 002 was 4,585,072 gallons during August.

**Table 5**

<b>August 2018 - Applebrook - Out Fall 002</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD	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
		40		42							
August 7, 2018	0.1532	3.1	4.0	1	1.3	0.139	0.178	0.10	0.13	1	0.0000
August 14, 2018	0.1527	3.5	4.5	6	7.6	0.338	0.430	0.25	0.32	68	1.8325
August 21, 2018	0.1511							0.19	0.24		
August 28, 2018	0.1472							0.35	0.43		
Average	0.1511	3.3	4.2	4	4.5	0.239	0.304	0.22	0.28	35	0.9163
Minimum	0.1472	3.1	4.0	1	1.3	0.139	0.178	0.10	0.13	1	0.0000
Maximum	0.1532	3.5	4.5	6	7.6	0.338	0.430	0.35	0.43	68	1.8325

Table 6 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during August 2018.



**Table 6**

<b>August 2018 - Influent Wastewater</b>											
Design Basis	Flow	BOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		TKN, mg/L		Phosphorus, Total, mg/L	
	MGD Average	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
		335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
August 7, 2018	0.452	297	1,119	488	1,838	34.9	131	34.5	130	3.0	11.3
August 14, 2018	0.558	96	362	96	362	12.5	58	12.1	56	7.0	26.4
August 21, 2018	0.603										
August 28, 2018	0.466										
Average	0.520	197	740	292	1100	23.7	95	23.3	93	5.0	18.8
Minimum	0.452	96	362	96	362	12.5	58	12.1	56	3.0	11.3
Maximum	0.603	297	1,119	488	1838	34.9	131	34.5	130	7.0	26.4

Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during July and August. 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.

**Significant Rainfall**

During August, there were seventeen (17) days when rainfall occurred. Seven (7) storm events resulting in a daily precipitation amount equal to or greater than 0.49 inches measured during a 24-hour period as well as consecutive days of precipitation exceeding 0.5 inches of rainfall. A total of 9.61 inches of rainfall measured during the month. These events occurred on:



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August 1<sup>st</sup>                    0.06 inches  
 August 2<sup>nd</sup>                   0.01 inches  
 August 3<sup>rd</sup>                    0.09 inches  
 August 4<sup>th</sup>                    0.86 inches  
 August 5<sup>th</sup>                    0.16 inches  
*Five (5) consecutive days of rainfall for a total of 1.180 inches*

August 11<sup>th</sup>                 1.37 inches  
 August 12<sup>th</sup>                 0.49 inches  
 August 13<sup>th</sup>                 0.62 inches  
 August 14<sup>th</sup>                 1.71 inches  
*Four (4) consecutive days of rainfall for a total of 4.19 inches*

August 17<sup>th</sup>                 0.31 inches  
 August 18<sup>th</sup>                 0.16 inches  
 August 19<sup>th</sup>                 1.59 inches  
 August 20<sup>th</sup>                 0.83 inches  
*Four (4) consecutive days of rainfall for a total of 2.89 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.

**PA DEP**

No activity

**Solids Dewatering and Disposal:**

<b>August 2018</b>	
Gallons of sludge dewatered	257,885
Number of dumpsters	4

*\*Sixteen (16) days of centrifuge operation*

**Chemical Usage:**

<b>August 2018</b>		
<b>Chemical</b>	<b>Daily Average</b>	<b>Total Monthly</b>
Soda Ash	234 lbs	7,250 lbs
Aluminum Sulfate solution	59.4 gallons	1,782 gallons
Polymer (centrifuge)	0.85	14.45 gallons

*\*Sixteen (16) days of centrifuge of operation*



<b>RCSTP Monthly Operations Report: August 2018</b>
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**Flow data:**

<b>August 2018</b>			
<b>Flow Meter Location</b>	<b>Total Volume for Month, MG</b>	<b>Average Daily Flow, gpd</b>	<b>Daily Maximum Flow, gpd</b>
Influent Wastewater to Screening Building*	19.502	629,091	1,151,260
Influent Wastewater to SBRs	15.198	490,265	842,624
Internal Recycle	NA	NA	NA
Treated Effluent to Disc Filters	15.373	495,917	816,384
Final Effluent Discharge	7.717	248,935	556,000
Applebrook Golf Course	4.585	152,716	191,808

The field flow meter recorded elevated flows as compared to the flow meter measuring flow to the SBRs. A zero calibration is planned. Conversation with John Laidley, (M&S) suggested that the meter be removed and returned to the factory for repair.

**Minor Preventative Maintenance**

Flushed chemical feed lines to the SBRs.

Cleaned piping within SBR building

Cleaned final effluent weir trough daily

Skimmed surface of disc filters daily

Drained and cleaned disc filters bi-weekly

**Major Preventative Maintenance Activities**

**Centrifuge**

The tool was delivered at no cost to the Township.

**Blower B1B**

The blower was removed and sent out for evaluation by the Township.



**SBR 2**

Dutchland is required to complete the necessary repairs prior to removing SBR 3 from service. The extent of repairs is under review by the Township Engineer.

**Filter Feed Pump Number 3**

The rebuilt pump was reinstalled.

**SBR 1 Motive Pump**

Observed a seal failure. The pump is operational and under observation.

**DRAFT**  
**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY**  
**MEETING MINUTES**  
**August 13, 2018**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, August 13, 2018 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Jack Yahraes, Dana Pizarro, and Phil Mayer. Also in attendance were: Jon Altshul (Asst. Township Manager), Mark Miller (Public Works Director), Brian Miller (Pennoni), Scott Towler (Plant Operator) and Patrick McKenna (Attorney).

**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 &amp; Recreation Board</i>
<i>HC – Historical Commission</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
<i>I&amp;I – Inflow &amp; 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**

Jack 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 Jim Yiaski, an accountant for Maillie, who passed away suddenly at the age of 54.

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

**Chairman’s Report**

Phil reported that West Goshen may have a site visit some time in September. They had a settlement meeting with the EPA and there is a 30 day waiting period for comments to the proposed agreement. The West Whiteland agreement is going to the West Goshen Board of Supervisors for approval. They are deciding if the pump station at Westtown Way needs screening. It would cost \$450,000. and East Goshen would be responsible for 50%. Mark Miller will contact West Goshen about this.

**Sewer Reports**

**1. Director of Public Works, Mark Miller’s report for July:**

Monthly Flows: The average daily flow to West Goshen was 746,000 gallons per day. No problems to report.

Meters: The meters are being read on a daily basis. No problems to reports.

C.C. Collection: The pump stations were visited on a daily basis with no problems to report. We had no problems with the collection system. We had a sewer clog on 1616 Margo Lane, lateral clog and lateral repair.

R.C. Collection: The pumping station was visited on a daily basis with no problems to report. As part of our routine maintenance we televised and cleaned Tallmadge Drive. This will keep up until the line is replaced. As part of our repaving program we replaced 14 castings and lids in the Hadleigh development off of Greenhill Road.

1 R.C. Plant: The channel was cleaned in the screen building. While we were there we washed  
2 the walls down and did general cleanup of the interior of the building. We pulled the pumps  
3 on the empty SBR tank and sent them to Deckman Electric to be checked. Last month there  
4 was a discussion about the blower that went down. The blower was fine. The problem was  
5 with the blowers rebuild. We expanded the plant and the motors were checked but did not  
6 require repairs in 2009. The blower building has two exhaust fans that run continually. We  
7 installed an air conditioner in the small motor control room last year, which has helped to cool  
8 that equipment. I don't see the need to do any other ventilation work in the main blower  
9 room.

10 Alarms: We responded to 15 alarms for July, which were all various issues.

11 PA One Calls: We received 97 PA One calls for July.

12 Rainfall: July rainfall total was 7.80 inches.

13 Mark also reported that the permit for additional spray irrigation at Applebrook was submitted.

## 15 **2. Pennoni Engineer's Report for July**

### 16 **Invoices**

- 17 • Invoices with summaries are provided under separate cover.

### 18 **Ridley Creek Sewage Treatment Plant (RCSTP)**

- 19 • Caustic soda pilot study – We are analyzing study data in coordination with Big Fish. We  
20 anticipate a summary report will be issued prior to the end of August.
- 21 • SBR Coatings – We performed a visual inspection of the SBR#2 wall coatings and our  
22 structural engineer performed a visual observation of the condition of the concrete. A memo  
23 will be issued summarizing the structural evaluation. The coating is experiencing more  
24 blistering than prior tanks, including a number of coating locations that were repaired when  
25 this tank was last offline. A meeting is tentatively scheduled at the site on August 22 to  
26 determine the repair approach with Pennoni, Dutchland, Mark Miller and Kevin Cummings.  
27 Under the expectation that repairs can be made within one month thereafter, it is our  
28 understanding that the next tank will be taken offline around November. It is our  
29 understanding that the warranty expires in October 2019.
- 30 • Influent metering – We performed a very cursory evaluation of influent metering alternatives  
31 since the “field meter”, which is located in a manhole in the wetlands and measures flow prior  
32 to recycle, had been reading 100,000 – 200,000 gpd too high for the prior approximately two  
33 months. Mark Miller advised us that the meter was inspected about one month ago and a  
34 large spider nest was found on top of the meter. This would cause the meter to read an  
35 incorrectly high flow depth and calculate a resultant higher flow rate. We have not reviewed  
36 recent flow data, but it is our understanding that metered flows have decreased since the  
37 maintenance. We are not aware of any other significant issues with this meter over the past  
38 several years. We were also informed that the metering company had recommended this  
39 location because it was the closest existing manhole/vault to the plant with adequate slope,  
40 straight-through piping, and non-turbulent conditions.

41 There are several alternatives that could be evaluated in more detail for the influent metering:

- 42 1. Continue with the meter as-is, and ensure adequate maintenance is regularly performed.

1           2. Item #1 plus add cellular connectivity so that metered flow can be regularly monitored  
2 online for abnormalities by the Township, Pennoni and/or Big Fish.

3           3. Installation of a manhole/vault with meter inside the fence line upstream of the screen  
4 building; however, there were apparent prior concerns about this location due to the flatness  
5 of the pipe and solids build-up that occurs.

6           4. Installation of a manhole with meter between the screen building and the influent pump  
7 station, but there may not be an adequate distance of straight pipe diameters in this area for a  
8 meter to function properly.

9           5. Abandonment of the existing field meter and installation of a meter on the recycle  
10 piping. The recycle flow could then be subtracted from the influent pump station flow to  
11 determine non-recycle influent flow as required by PADEP. This is generally not  
12 recommended since PADEP has directed metering be on the influent piping.

13  
14 **RCSTP and Pump Stations' O&M Manual**

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

17  
18 **Supplee Valley Pipe Lining**

- 19           • SWERP completed lining of all contracted sewers on February 21. They subsequently  
20 installed supplemental lateral saddle liners in 3 of 6 locations in April that were approved via change  
21 order.
- 22           • They performed the injection grouting of leaks in two manholes on August 3. We are still  
23 awaiting a schedule for the remaining two lateral spot repairs that were previously approved via  
24 change order.

25  
26 **Barkway Pump Station Grinder**

- 27           • We met with Mark Miller on June 5 to review our design plans. We are re-evaluating the  
28 feasibility of coring the wet well to run the hydraulic lines rather than entering through the top  
29 of the wet well steel hatch. However, a site investigation is required to accurately determine  
30 coring feasibility due to inconsistencies in how the foundation is shown on the original pump  
31 station design plans. The design plans will be finalized thereafter. *No update sine our last*  
32 *report.*

33  
34 **Ashbridge Pump Station Force Main**

- 35           • Test pits will be performed to identify backfill conditions along Manley Road with one test pit  
36 on Edith Road, as recommended by the Municipal Authority, when weather permits. *No*  
37 *update since our last report.*

38 **Tallmadge Drive Sewer Main Replacement**

- 39           • Bids were received on August 7, and a bid tabulation was submitted to the Township. We are  
40 processing bids and will provide an award recommendation letter prior to the August MA  
41 meeting.



1 **I&I Support and Reporting**

- 2 • We intend to analyze meter data and submit the next semi-annual I&I report following  
3 completion of the Supplee Valley pipe lining project so that the impact of that project can be  
4 assessed. That report will likely be issued in the July-August timeframe. We propose to  
5 make a summary Powerpoint presentation at the MA meeting immediately thereafter. *No*  
6 *update since our last report.*

7 **New Connections**

- 8 • No activity since last report.

9 **West Goshen Sewer System Consultation**

- 10 • No activity since last report.

11 **Capital Improvement Planning**

- 12 • We reviewed the 5-year capital improvement plan budget and provided comments to the  
13 Township.

14  
15 **3. Big Fish Environmental Services** – Scott’s report showed that the Ridley Creek sewage  
16 treatment plant outfall 001 achieved compliance with the permitted effluent discharge limitations  
17 during the month of June 2018. Discharge to the Applebrook storm water lagoon continued during  
18 the month. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained  
19 consistent with previous months. No significant mechanical or operational issues were observed  
20 during operation of sludge dewatering equipment or SBR treatment process.  
21 Scott mentioned that Bill Collins is the new DEP inspector and recently did an inspection. A report  
22 should be received soon.

23  
24 **Approval of Minutes**

25 The minutes of the July 9, 2018 meeting were approved as corrected.

26  
27 **Approval of Invoices**

- 28 1. Phil moved to approve payment of the Gawthrop Greenwood Invoice #197989 for \$300.00. Dana  
29 seconded the motion. The motion passed unanimously.  
30 2. Two Pennoni invoices were discussed but had not gone through the normal process so they will be  
31 approved at the September meeting.

32  
33 **Liaison Reports**

34 **Board of Supervisors** - Jon reported that they approved a new Pipeline Taskforce consisting of 7  
35 members. The Food Truck Festival is scheduled for Saturday August 25, 2018. The BOS is in police  
36 negotiations. Milltown Dam update – Public Works has removed what they can. Bid notices will go  
37 out in 2020. So far a grant for \$500,000 has been received. Marydell pond dredging will start soon.

38  
39 **Financial Reports**

40 Jon Altshul provided the following written report:  
41 In July, the Municipal Authority recorded \$1,985 in income (including \$2,000 for the Three Tun  
42 Tavern tap-in fee and -\$15.00 for banking fees) and \$19,160 in expenses (primarily for engineering),  
43 for a negative variance of -\$17,174.42. The fund balance is \$7,836.  
44 Note that the 2018 budget has been amended to reflect \$14,000 for Tallmadge Drive engineering per  
45 the decision at the July meeting. Jon provided an updated proposed sewer CIP worksheet for review.

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**Talmadge Drive Bid Award**

After review of the Bid Tabulations and Pennoni recommendation letter, Phil moved to approve the bid of \$84,961.50 from Iron Eagle Excavating. Dana seconded the motion. The motion passed unanimously.

**Any Other Matter**

Mark Miller will try to set up a site visit at the Westtown Pump station before the September meeting at 5:30 pm with the regular meeting to start at 7:30 pm.

**Adjournment**

There being no further business, Dana moved to adjourn the meeting. Phil seconded the motion. The meeting was adjourned at 8:00 p.m. The next regular meeting will be held on Monday, September 10, 2018 at 7:00 pm.

Respectfully submitted,

Ruth Kiefer  
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 # : 815429  
Invoice Date : 08/10/2018  
Project : EGMAU18001  
Project Name : 2018 General Services

For Services Rendered through: 8/5/2018

Finalized re-bid plans and bid doc, set up solicitation on PennBID, responded to questions from prospective bidders, attended pre-bid meeting, and issued Addendums #1 and #2.

**Phase : 01 -- Tallmadge Drive Sewer Replacement**

**Total Phase : 01 -- Tallmadge Drive Sewer Replacement**

Labor : 2,607.25  
Expense : 0.00  
Phase Total : 2,607.25

**Amount Due This Invoice**

**\$2,607.25**

Fee : 14,000.00  
Prior Billings : 10,556.75  
Current Billings : 2,607.25  
Total Billings : 13,164.00

**Phase : 01 -- Tallmadge Drive Sewer Replacement**

Labor Class	Hours/Units	Rate	Amount
Authority Engineer	8.25	123.00	1,014.75
Associate Professional	17.50	91.00	1,592.50
<b>Labor Total:</b>	<b>25.75</b>		<b>2,607.25</b>

**Total Phase : 01 -- Tallmadge Drive Sewer Replacement**

Labor : \$2,607.25  
Expense : \$0.00

**Total Project : EGMAU18001 -- 2018 General Services**

Labor : \$2,607.25  
Expense : \$0.00

Approved + Partial  
8-13-18

East Goshen Municipal Authority  
EGMAU18001 Invoice Summary  
Invoice Date 8/10/2018

**Project:** EGMAU18001  
**Pennoni Job No.:** 2018 General Services  
**Invoice No:**  
**Invoice Period:** 6/18/2018 to 8/5/2018  
**Initial Authorization:** \$ 12,000.00 **Date:** 8/10/2018  
**Contract Amount:** \$ 14,000.00  
**Previously Invoiced:** \$ 10,556.75  
**Current Invoice:** \$ 2,607.25  
**Invoiced to Date (\$):** \$ 13,164.00  
**Invoiced to Date (%):** 94%  
**Remaining Budget (\$):** \$ 836.00  
**Remaining Budget (%):** 6%

**Budget by Phase:**

**Phase Name:** Tallmadge Drive Sewer Replacement  
**Phase Budget:** \$ 14,000.00  
**Previously Invoiced:** \$ 10,556.75  
**Current Invoice:** \$ 2,607.25  
**Invoiced to Date (\$):** \$ 13,164.00  
**Invoiced to Date (%):** 94%  
**Remaining Budget (\$):** \$ 836.00  
**Remaining Budget (%):** 6%

**Comments:** Finalized re-bid plans and bid doc, set up solicitation on PennBID, responded to questions from prospective bidders, attended pre-bid meeting, and issued Addendums #1 and #2.



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Philadelphia, PA 19182-7328

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

Invoice # : 815428  
Invoice Date : 08/10/2018  
Project : EGMAU18001  
Project Name : 2018 General Services

For Services Rendered through: 8/5/2018

General Consultation - Prepared July Engineer's Report; reviewed July RCSTP operator's report; prepared for and attended July MA meeting; initiated follow-up evaluations to MA meeting regarding potential RCSTP influent metering relocation and blower problems & room temperature controls; cursory review of MA's draft 5-year capital improvement budget; and continued budgetary scoping and cost estimating of future generator replacements at the RCSTP and Hershey's Mill PS.

SBR Coatings: Sr. Engineering Technician and Graduate Structural Engineer performed visual inspection of SBR #2 coating and concrete conditions; and prepared summary memo.

Caustic Soda Trial: continued analysis of trial sampling data and preparation of summary report.

Phase : \*\*\*\* -- Professional Services

Total Phase : \*\*\*\* -- Professional Services

Labor :	3,619.00
Expense :	0.00
Phase Total :	3,619.00

Amount Due This Invoice

3,619.00

Fee :	18,000.00
Prior Billings :	10,637.75
Current Billings :	3,619.00
Total Billings :	14,243.75

*Jan* *RB*  
Approved + Paid  
8-13-18

Continued on next page...

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

...Continued from previous page

Phase : \*\*\*\* -- Professional Services

<b>Labor Class</b>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	10.00	123.00	1,230.00
Senior Professional	5.25	117.00	614.25
Associate Professional	1.25	91.00	113.75
Sr. Engineering Technician	3.00	89.00	267.00
Graduate Professional	17.00	82.00	1,394.00
<b>Labor Total:</b>	<b>36.50</b>		<b>3,619.00</b>

<b>Total Phase : **** -- Professional Services</b>	<b>Labor :</b>	<b>\$3,619.00</b>
	<b>Expense :</b>	<b>\$0.00</b>
<hr/>		
<b>Total Project : EGMAU18001 -- 2018 General Services</b>	<b>Labor :</b>	<b>\$3,619.00</b>
	<b>Expense :</b>	<b>\$0.00</b>

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

East Goshen Municipal Authority  
EGMAU18001 Invoice Summary  
Invoice Date 8/10/2018

**Project:** EGMAU18001  
**Pennoni Job No.:** 2018 General Services  
**Invoice No:**  
**Invoice Period:** 6/18/2018 to 8/5/2018  
**Initial Authorization:** \$ 18,000.00 **Date:** 8/10/2018  
**Contract Amount:** \$ 18,000.00  
**Previously Invoiced:** \$ 10,637.75  
**Current Invoice:** \$ 3,619.00  
**Invoiced to Date (\$):** \$ 14,256.75  
**Invoiced to Date (%):** 79%  
**Remaining Budget (\$):** \$ 3,743.25  
**Remaining Budget (%):** 21%

**Budget by Phase:**

**Phase Name:** 2018 General Services  
**Phase Budget:** \$ 18,000.00  
**Previously Invoiced:** \$ 10,637.75  
**Current Invoice:** \$ 3,619.00  
**Invoiced to Date (\$):** \$ 14,256.75  
**Invoiced to Date (%):** 79%  
**Remaining Budget (\$):** \$ 3,743.25  
**Remaining Budget (%):** 21%

**Comments:**

General Consultation - Prepared July Engineer's Report; reviewed July RCSTP operator's report; prepared for and attended July MA meeting; initiated follow-up evaluations to MA meeting regarding potential RCSTP influent metering relocation and blower problems & room temperature controls; cursory review of MA's draft 5-year capital improvement budget; and continued budgetary scoping and cost estimating of future generator replacements at the RCSTP and Hershey's Mill PS.

SBR Coatings: Sr. Engineering Technician and Graduate Structural Engineer performed visual inspection of SBR #2 coating and concrete conditions; and prepared summary memo.

Caustic Soda Trial: continued analysis of trial sampling data and preparation of summary report.



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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 # : 818043  
Invoice Date : 08/29/2018  
Project : EGMAU17007  
Project Name : Supplee Valley CIPPL Construction

For Services Rendered through: 8/12/2018

Engineering support and construction observation of manhole grouting construction.

Phase : \*\*\*\* -- Professional Services

Total Phase : \*\*\*\* -- Professional Services

Labor :	200.75
Expense :	0.00
Phase Total :	200.75

**Amount Due This Invoice**

**\$200.75**

Fee :	15,000.00
Prior Billings :	14,110.75
Current Billings :	200.75
Total Billings :	14,311.50

Phase : \*\*\*\* -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Associate Professional	0.25	91.00	22.75
Sr. Engineering Technician	2.00	89.00	178.00
<b>Labor Total:</b>	<b>2.25</b>		<b>200.75</b>

Total Phase : \*\*\*\* -- Professional Services

Labor :	\$200.75
Expense :	\$0.00

Total Project : EGMAU17007 -- Supplee Valley CIPPL Construction

Labor :	\$200.75
Expense :	\$0.00

OK 8/27/18



East Goshen Municipal Authority  
EGMAU17007 Invoice Summary  
Invoice Date 8/29/2018

**Project:** EGMAU17007  
**Pennoni Job No.:** Suplee Valley CIPPL Construction  
**Invoice No:** 818043  
**Invoice Period:** 6/18/2018 to 8/12/2018  
**Initial Authorization:** \$ 12,000.00 **Date:** 8/29/2018  
**Contract Amount:** \$ 15,000.00  
**Previously Invoiced:** \$ 14,110.75  
**Current Invoice:** \$ 200.75  
**Invoiced to Date (\$):** \$ 14,311.50  
**Invoiced to Date (%):** 95%  
**Remaining Budget (\$):** \$ 688.50  
**Remaining Budget (%):** 5%

**Budget by Phase:**

**Phase Name:** Suplee Valley CIPP  
**Phase Budget:** \$ 15,000.00  
**Previously Invoiced:** \$ 14,110.75  
**Current Invoice:** \$ 200.75  
**Invoiced to Date (\$):** \$ 14,311.50  
**Invoiced to Date (%):** 95%  
**Remaining Budget (\$):** \$ 688.50  
**Remaining Budget (%):** 5%

**Comments:** Engineering support and construction observation of manhole grouting construction.



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P.O. Box 827328  
Philadelphia, PA 19182-7328

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

Invoice # : 818044  
Invoice Date : 08/29/2018  
Project : EGMAU18001  
Project Name : 2018 General Services

---

**For Professional Services Rendered through:08/12/2018**

General Consultation: Prepared August Engineer's Report; prepared for August MA meeting; reviewed and commented on MA's draft 5-year capital improvement plan budgeting; and continued cursory evaluations of potential RCSTP influent metering relocation.

SBR Coatings: Coordination with Dutchland, Big Fish, and Township & MA personnel in preparation for SBR #2 coating repairs pre-construction field meeting.

Phase Code	Phase Name	Fee Type	Contract Amount	Previously Billed	Current Billing	Total Billing	Remaining	% Complete
****	Professional Services	NTE \$	18,000.00 \$	14,256.75 \$	933.75 \$	15,190.50 \$	2,809.50	84.39%
<b>Subtotal:</b>			\$	14,256.75 \$	933.75 \$	15,190.50		
<b>Total:</b>			\$	14,256.75 \$	933.75 \$	15,190.50		

**Total Amount Due** \$ 933.75

OK  
*[Signature]*  
8/27/18

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...Continued from previous page

Phase : \*\*\*\* -- Professional Services

**Rate Schedule Labor**

<u>Class / Employee Name</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Authority Engineer	4.50	123.00	553.50
Senior Professional	3.25	117.00	380.25
<b>Rate Schedule Labor</b>			<b>933.75</b>
<b>Total Phase : **** -- Professional Services</b>			<b>933.75</b>

---

---

**Total Project : EGMAU18001 -- 2018 General Services** **933.75**

East Goshen Municipal Authority  
EGMAU18001 Invoice Summary  
Invoice Date 08/29/2018

**Project:** EGMAU18001  
**Pennoni Job No.:** 2018 General Services  
**Invoice No:** 818044  
**Invoice Period:** 8/6/2018 to 8/12/2018  
**Initial Authorization:** \$ 18,000.00 **Date:** 8/29/2018  
**Contract Amount:** \$ 18,000.00  
**Previously Invoiced:** \$ 14,256.75  
**Current Invoice:** \$ 933.75  
**Invoiced to Date (\$):** \$ 15,190.50  
**Invoiced to Date (%):** 84%  
**Remaining Budget (\$):** \$ 2,809.50  
**Remaining Budget (%):** 16%

**Budget by Phase:**

**Phase Name:** 2018 General Services  
**Phase Budget:** \$ 18,000.00  
**Previously Invoiced:** \$ 14,256.75  
**Current Invoice:** \$ 933.75  
**Invoiced to Date (\$):** \$ 15,190.50  
**Invoiced to Date (%):** 84%  
**Remaining Budget (\$):** \$ 2,809.50  
**Remaining Budget (%):** 16%

**Comments:** General Consultation: Prepared August Engineer's Report; prepared for August MA meeting; reviewed and commented on MA's draft 5-year capital improvement plan budgeting; and continued cursory evaluations of potential RCSTP influent metering relocation.

SBR Coatings: Coordination with Dutchland, Big Fish, and Township & MA personnel in preparation for SBR #2 coating repairs pre-construction field meeting.



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

Invoice # : 818045  
Invoice Date : 08/29/2018  
Project : EGMAU18001  
Project Name : 2018 General Services

---

**For Professional Services Rendered through:08/12/2018**

Tallmadge Drive Sewer Replacement - Conducted re-bid contract bid opening, prepared bid tabulation, reviewed bids, updated PennBID, researched low bidder references and qualifications, discussed project understanding and approach with low bidder, and prepared award recommendation letter.

Phase Code	Phase Name	Fee Type	Contract Amount	Previously Billed	Current Billing	Total Billing	Remaining	% Complete
01	Tallmadge Drive Sewer Replacement	NTE \$	14,000.00 \$	13,164.00 \$	822.00 \$	13,986.00 \$	14.00	99.90%
<b>Subtotal:</b>			\$	13,164.00 \$	822.00 \$	13,986.00		
<b>Total:</b>			\$	13,164.00 \$	822.00 \$	13,986.00		
<b>Total Amount Due</b>							<b>\$</b>	<b>822.00</b>

OK  
*[Signature]*  
2/7/18

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...Continued from previous page

**Phase : 01 -- Tallmadge Drive Sewer Replacement****Rate Schedule Labor**

<u>Class / Employee Name</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Associate Professional	6.75	91.00	614.25
Authority Engineer	0.50	123.00	61.50
Senior Professional	1.25	117.00	146.25
	<b>Rate Schedule Labor</b>		<b>822.00</b>
<b>Total Phase : 01 -- Tallmadge Drive Sewer Replacement</b>			<b>822.00</b>

---

**Total Project : EGMAU18001 -- 2018 General Services****822.00**

East Goshen Municipal Authority  
EGMAU18001 Invoice Summary  
Invoice Date 8/29/2018

**Project:** EGMAU18001  
**Pennoni Job No.:** 2018 General Services - Tallmadge Drive Sewer Replacement  
**Invoice No:** **818045**  
**Invoice Period:** 8/6/2018 to 8/12/2018  
**Initial Authorization:** \$ 12,000.00 **Date:** 8/29/2018  
**Contract Amount:** \$ 14,000.00  
**Previously Invoiced:** \$ 13,164.00  
**Current Invoice:** \$ 822.00  
**Invoiced to Date (\$):** \$ 13,986.00  
**Invoiced to Date (%):** 100%  
**Remaining Budget (\$):** \$ 14.00  
**Remaining Budget (%):** 0%

**Budget by Phase:**

**Phase Name:** 2018 General Services - Tallmadge Drive Sewer Replacement  
**Phase Budget:** \$ 14,000.00  
**Previously Invoiced:** \$ 13,164.00  
**Current Invoice:** \$ 822.00  
**Invoiced to Date (\$):** \$ 13,986.00  
**Invoiced to Date (%):** 100%  
**Remaining Budget (\$):** \$ 14.00  
**Remaining Budget (%):** 0%

**Comments:** Tallmadge Drive Sewer Replacement - Conducted re-bid contract bid opening, prepared bid tabulation, reviewed bids, updated PennBID, researched low bidder references and qualifications, discussed project understanding and approach with low bidder, and prepared award recommendation letter.

# Memo

---

To: Municipal Authority  
From: Jon Altshul  
Re: MA August Financial Report  
Date: September 7, 2018

---

In August, the Municipal Authority recorded -14.83 in income (reflecting \$15 for banking fees) and \$6,226 in expenses (engineering), for a negative variance of \$6,241. The fund balance is \$1,595.



EAST GOSHEN TOWNSHIP  
Other Funds  
August 2018  
Municipal Authority

Account Title	Acct #	Annual Budget	Y-T-D Budget	Y-T-D Actual	Y-T-D Variance	M-T-D Budget	M-T-D Actual	M-T-D Variance
<b>REVENUE</b>								
INTEREST EARNINGS	07341 1000	10	7	(86.48)	(93.48)	1	(14.86)	(15.86)
CAPITAL RESERVE-INTEREST	07341 1010							
INTEREST EARNED - CONSTRUCTION	07341 1020	50	50	613.94	563.94			
DCED GRANT	07354 0400							
C.C. TAPPING FEES	07364 1100	8,000	4,000		(4,000.00)			
R.C.TAPPING FEES	07364 1110	2,000	2,000	2,000.00				
M.C. LOAN PAYMENTS	07364 1120							
CONNECTION FEES - SEWER	07364 1130	1,692	846	1,127.52	281.52			
MISCELLANEOUS REVENUE	07380 1000			564.51	564.51		0.03	0.03
TRANSFER FROM GENERAL ACCT	07392 0100			71.30	71.30			
TRANSFER FROM SEWER OPERATING	07392 0500	89,853	50,568	60,000.00	9,432.00	6,321		(6,321.00)
TRANSFER-ANNUAL CAP.RESERVE	07392 0510							
GRANT REVENUE	07392 0800							
LOAN PROCEEDS - SEWER PROJECT	07392 0804							
TRANSFER FROM SEWER CAP RESERVE	07392 0900							
TRANSFER FROM RCSTP BUDGET	07392 0990							
LOAN PROCEEDS-SEWER PROJECT	07393 1001							
<b>TOTAL REVENUE</b>		<b>101,605</b>	<b>57,471</b>	<b>64,290.79</b>	<b>6,819.79</b>	<b>6,322</b>	<b>(14.83)</b>	<b>(6,336.83)</b>
<b>EXPENSES</b>								
ADMINISTRATIVE WAGES	07424 1400	32,411	16,205	16,320.66	(115.66)			
R.C. LOAN ISSUANCE COSTS	07424 1500							
MISCELLANEOUS EXPENSE	07424 3000	2,500	1,666	1,336.00	330.00	208		208.00
MUNIC.AUTH.-AUDITING	07424 3110	9,384	9,384	9,400.00	(16.00)			
ENGINEERING SERVICES	07424 3130	43,260	28,840	57,308.39	(28,468.39)	3,605	3,619.00	(14.00)
LEGAL SERVICES	07424 3140			2,920.00	(2,920.00)			
W.G. C.C.STP-UPGRADE	07424 7400							
MANHOLE COVER REPLACEMENTS	07424 7405							
C.C. CAPITAL - METERS	07424 7410							
C.C. CAPITAL- COLLECTION	07424 7420							
C.C. CAPITAL- INTERCEPTOR	07424 7430							
CAPITAL PROJ.-ENGINEERING	07424 7431							
R.C. CAPITAL-STP	07424 7440							
R.C. CAPITAL - COLLECTION	07424 7450							
R.C.-CAP. PROJ.-ENGINEER	07424 7451							
R.C. CAP EXPANSION GEN'L CONTRACTOR	07424 7452							
R.C. CAP EXPANSION - ELECTRICAL	07424 7453							
R.C. CAP EXP CONTINGENCY CAPITAL	07424 7454							
R.C. CAP EXP CONTINGENCY ONGOING	07424 7455							

EAST GOSHEN TOWNSHIP  
Other Funds  
August 2018  
Municipal Authority

Account Title	Acct #	Annual Budget	Y-T-D Budget	Y-T-D Actual	Y-T-D Variance	M-T-D Budget	M-T-D Actual	M-T-D Variance
R.C. CAP EXP ADDITIONAL CONTINGENCY	07424 7456							
LOCHWOOD - CAPITAL -STP	07424 7460							
LOCHWOOD-CAPITAL-COLLECT.	07424 7470							
LOCHWOOD ABANDONMENT ENGINEER	07424 7475							
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7476							
LOCHWOOD ELIMINATION PHASE 2	07424 7477							
CAP.REPLACEMENT R.C.	07424 7490							
CAPITAL REPLACEMENT ASHBRIDGE	07424 7491							
MARYDELL PUMP STATION - ENGINEER	07425 1000							
MARYDELL PUMP STATION -CONSTRUCTION	07425 2000							
HERSHEY MILL STATION - ENGINEER	07426 1000							
HERSHEY MILL STATION - CONSTRUCTION	07426 2000							
TALLMADGE DRIVE	07426 3000	14,000	9,333	15,144.00	(5,811.00)	1,167	2,607.25	(1,440.58)
RESERVE PUMP STATION - ENGINEER	07427 1000							
RESERVE PUMP STATION - CONSTRUCTION	07427 2000							
RESERVOIR PUMP STATION - ENGINEER	07428 1000			188.00	(188.00)			
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000							
ASBESTOS CONCRETE ENGINEERING	07429 3130							
DIVERSION PROJ.- LEGAL	07429 3166							
WEST GOSHEN CAPITAL	07429 6100	59,736	59,736	102,339.08	(42,603.08)			
M.C.-DVRFA-DEBT SERVICE	07471 1000							
M.A.-R.C. DEBT SERVICE	07471 1010							
DVRFA PUMPING STATIONS - PRINCIPAL	07471 2000							
M.C.-DVRFA-INTEREST PAYMN	07472 1000							
M.A.-R.C. INTEREST	07472 1010							
DVRFA PUMPING STATIONS - INTEREST	07472 2000							
TRANSFER TO GENERAL FUND	07492 0100			71.30	(71.30)			
TRANSFER TO SEW.OPERATING	07492 0500							
TRF TO SEWER SINKING FUND	07492 0550							
TRANSFER TO AUTHORITY CAP FUND	07492 0990							
<b>TOTAL EXPENSES</b>		<b>161,291</b>	<b>125,164</b>	<b>205,027.43</b>	<b>(79,863.43)</b>	<b>4,980</b>	<b>6,226.25</b>	<b>(1,246.58)</b>
<b>NET RESULT FROM OPERATIONS</b>		<b>(59,686)</b>	<b>(67,693)</b>	<b>(140,736.64)</b>	<b>(73,043.64)</b>	<b>1,342</b>	<b>(6,241.08)</b>	<b>(7,583.41)</b>

2018 MA YTD TRANSACTIONS

147,331

1/1/18 FUND BALANCE

Account #	Description	Per	Trx#	Debits	Credits	Date	Name	Description	Description 2
07341-1000	INTEREST EARNINGS	1801	61740	-	0.31	2/2/2018	INTEREST EARNED JANUARY 2018	07 FUND	
07341-1000	INTEREST EARNINGS	1802	61932	-	0.20	2/14/2018	INTEREST ADJ. FROM JAN. 2018	07 FUND	7105.2
07341-1000	INTEREST EARNINGS	1802	62159	-	0.54	3/5/2018	INTEREST EARNED FEBRUARY 2018	INTEREST EARNINGS	
07341-1000	INTEREST EARNINGS	1803	62192	15.00	-	3/6/2018	REIMBURSE S/R FOR BANK FEES	07 FUND	
07341-1000	INTEREST EARNINGS	1803	62535	-	0.47	4/2/2018	INTEREST EARNED MARCH 2018	INTEREST EARNINGS	
07341-1000	INTEREST EARNINGS	1804	62551	15.00	-	4/2/2018	REIMB.S/R FOR 3/2018 BANK FEES	07 FUND	
07341-1000	INTEREST EARNINGS	1804	62904	-	0.55	5/1/2018	INTEREST EARNED APRIL 2018	INTEREST EARNINGS	
07341-1000	INTEREST EARNINGS	1805	62911	15.00	-	5/1/2018	REIMBURSMT- 4/2018 BANK FEES	INTEREST EARNINGS	
07341-1000	INTEREST EARNINGS	1805	63388	15.00	-	6/1/2018	BANK FEES - MAY 2018	INTEREST EARNINGS	
07341-1000	INTEREST EARNINGS	1805	63449	-	15.00	6/5/2018	REVERSE TRX 63388 EXPENSE TO	8E ENTERED IN JUNE NOT MAY	
07341-1000	INTEREST EARNINGS	1805	63377	-	0.51	6/1/2018	INTEREST EARNED MAY 2018	07 FUND	
07341-1000	INTEREST EARNINGS	1806	63459	15.00	-	6/5/2018	REIMBURSE S/R FOR MAY '18 FEES	INTEREST EARNINGS	7100.1035
07341-1000	INTEREST EARNINGS	1806	63815	-	0.40	7/3/2018	INTEREST EARNED JUNE 2018	INTEREST EARNINGS	
07341-1000	INTEREST EARNINGS	1807	63820	15.00	-	7/3/2018	REIMBURSE S/R - 6/2018 BK.FEES	INTEREST EARNINGS	
07341-1000	INTEREST EARNINGS	1807	64317	-	15.00	7/30/2018	REVERSE EXP. TRX 63820	M&T BANK - GEN'L CHKG # 98536374	
07341-1000	INTEREST EARNINGS	1807	64322	15.00	-	7/30/2018	REIMBURSE S/R - 6/2018 BK.FEES	INTEREST EARNINGS	7100.1035
07341-1000	INTEREST EARNINGS	1807	64264	-	0.40	8/2/2018	INTEREST EARNED JULY 2018	INTEREST EARNINGS	
07341-1000	INTEREST EARNINGS	1808	64289	15.00	-	8/3/2018	REIMBURSE S/R - 7/2018 BK FEES	INTEREST EARNINGS	7100.1035
07341-1000	INTEREST EARNINGS	1808	64731	-	0.14	9/4/2018	INTEREST EARNED AUGUST 2018	INTEREST EARNINGS	7100.1035
07341-1020	INTEREST EARNED - CONS	1801	61740	-	391.64	2/2/2018	INTEREST EARNED JANUARY 2018	07 FUND	
07341-1020	INTEREST EARNED - CONS	1802	62159	-	69.31	3/5/2018	INTEREST EARNED FEBRUARY 2018	07 FUND	
07341-1020	INTEREST EARNED - CONS	1803	62535	-	81.66	4/2/2018	INTEREST EARNED MARCH 2018	07 FUND	
07341-1020	INTEREST EARNED - CONS	1804	62904	-	71.30	5/1/2018	INTEREST EARNED APRIL 2018	07 FUND	
07341-1020	INTEREST EARNED - CONS	1805	63377	-	0.03	6/1/2018	INTEREST EARNED MAY 2018	07 FUND	
07364-1110	R.C.TAPPING FEES	1807	63982	-	2,000.00	7/13/2018	TAP IN FEE FOR MARLIN DR	R.C.TAPPING FEES	
07364-1130	CONNECTION FEES - SEWE	1801	61617	-	423.00	1/25/2018	STOFFLET, MICHAEL	JACOBS & STOFFLET INTEREST	
07364-1130	CONNECTION FEES - SEWE	1802	61894	-	423.00	2/13/2018	JACOBS, ROBERT & CHERYL	JACOBS & STOFFLET INTEREST	
07364-1130	CONNECTION FEES - SEWE	1802	62079	-	423.00	2/27/2018	GEORGE SMITH & CHRISTINA CONLE	JACOBS & STOFFLET INTEREST	
07364-1130	CONNECTION FEES - SEWE	1802	61900	282.24	-	2/13/2018	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST	
07364-1130	CONNECTION FEES - SEWE	1802	62080	141.12	-	2/27/2018	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST	
07364-1130	CONNECTION FEES - SEWE	1803	62407	-	423.00	3/23/2018	PAPPANO, JOSEPH & PATRICIA	JACOBS & STOFFLET INTEREST	
07364-1130	CONNECTION FEES - SEWE	1803	62411	141.12	-	3/23/2018	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST	
07380-1000	MISCELLANEOUS REVENUE	1802	61900	-	282.24	2/13/2018	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST	
07380-1000	MISCELLANEOUS REVENUE	1802	62080	-	141.12	2/27/2018	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST	
07380-1000	MISCELLANEOUS REVENUE	1803	62411	-	141.12	3/23/2018	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST	
07380-1000	MISCELLANEOUS REVENUE	1808	64477	-	0.03	8/16/2018	DEPOSIT CK:7100.1035 TO CLOSE	JACOBS & STOFFLET INTEREST	
07392-0100	TRANSFER FROM GENERA	1805	63470	-	71.30	6/7/2018	XFER \$ TO MA REGARDING DEPOSIT	JACOBS & STOFFLET INTEREST	
07392-0500	TRANSFER FROM SEWER C	1803	62490	-	30,000.00	3/29/2018	XFER \$ FROM SEWER TO MUNICIPAL	JACOBS & STOFFLET INTEREST	
									RC214 PAPPANO
									OUT FULTON 7105.2000
									ERROR 5/10/18
									TO COVER EXPENSES

07392-0500	TRANSFER FROM SEWER C	1806	63665	-	30,000.00	6/22/2018	XFER \$ FROM SEWER TO MA	
	TOTAL NET REVENUE				64,290.79			
07424-1400	ADMINISTRATIVE WAGES	1803	62424	8,160.33	-	3/26/2018	EAST GOSHEN TOWNSHIP - GENERAL	1ST QTR.2018 REIMBURSEMENT - M/A
07424-1400	ADMINISTRATIVE WAGES	1806	63636	8,160.33	-	6/21/2018	EAST GOSHEN TOWNSHIP - GENERAL	2ND QTR.2018 REIMBURSEMENT - M
07424-3000	MISCELLANEOUS EXPENSE	1801	61728	100.00	-	1/31/2018	COMMONWEALTH FINANCING AUTHORITY	GRANT APPLIC. DCEED - WATER & SEW PROGRAM FOR BARKWAY
07424-3000	MISCELLANEOUS EXPENSE	1805	63278	1,236.00	-	5/30/2018	DELAWARE RIVER BASIN COMMISSION	ANNUAL FEE D-2000-030 CP WASTE WATER DISCHARGE
07424-3110	MUNIC.AUTH.-AUDITING	1803	62396	6,954.00	-	3/22/2018	MAILLIE FALCONIERO & CO.	PROGRESS BILLING - M.AUTHORITY 2/ FINANCIAL STATEMENTS
07424-3110	MUNIC.AUTH.-AUDITING	1804	62732	2,436.00	-	4/17/2018	MAILLIE FALCONIERO & CO.	EXAMINATION 2017 M/A FINANCIALS
07424-3130	ENGINEERING SERVICES	1801	61613	12,523.56	-	1/24/2018	PENNONI ASSOCIATES INC.	SERV.THRU 12/10/17 2017 GENERAL SERVICES
07424-3130	ENGINEERING SERVICES	1802	61944	5,415.00	-	2/15/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 1/14/18-2017 GENEF
07424-3130	ENGINEERING SERVICES	1802	62032	552.50	-	2/22/2018	PENNONI ASSOCIATES INC.	SERVICE THRU 1/14/18 SUPPLEE VAL
07424-3130	ENGINEERING SERVICES	1803	62323	11,749.08	-	3/15/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 2/11/18 2018 GEN SE
07424-3130	ENGINEERING SERVICES	1806	63480	9,622.25	-	6/7/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 4/15/18 SUPPLEE VAL
07424-3130	ENGINEERING SERVICES	1806	63544	7,503.93	-	6/12/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 5/20/18 BARKWAY P
07424-3130	ENGINEERING SERVICES	1807	63960	16,879.82	-	7/11/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 6/17/18 BARKWAY
07424-3130	ENGINEERING SERVICES	1807	63926	-	10,556.75	7/10/2018	RECLASS TALLMADGE DR EXPENSES	
07424-3130	ENGINEERING SERVICES	1808	64451	3,619.00	-	8/15/2018	PENNONI ASSOCIATES INC.	PROF.SERV. THRU 8/5/18 2018 GENF
07424-3140	LEGAL SERVICES	1801	61613	680.00	-	1/24/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICES DEC. 2017 GEN.AUTH
07424-3140	LEGAL SERVICES	1802	62032	240.00	-	2/22/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - JAN.2018 GEN.AUTH
07424-3140	LEGAL SERVICES	1803	62352	400.00	-	3/19/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - FEBRUARY 2018
07424-3140	LEGAL SERVICES	1804	62732	380.00	-	4/17/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 3/12/18
07424-3140	LEGAL SERVICES	1805	63133	480.00	-	5/16/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - APRIL 2018 GEN.AUT
07424-3140	LEGAL SERVICES	1806	63589	440.00	-	6/18/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERV.- MAY 2018 GEN.AUTHOI
07424-3140	LEGAL SERVICES	1807	64183	300.00	-	7/30/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE JUNE 2018 GEN.AUTH
07426-3000	TALLMADGE DRIVE	1807	63960	1,980.00	-	7/11/2018	PENNONI ASSOCIATES INC.	SERVICE THRU 6/17/18 2018 TALLMA
07426-3000	TALLMADGE DRIVE	1807	63926	10,556.75	-	7/10/2018	RECLASS TALLMADGE DR EXPENSES	
07426-3000	TALLMADGE DRIVE	1808	64451	2,607.25	-	8/15/2018	PENNONI ASSOCIATES INC.	PROF.SERV. THRU 8/5/18 2018 TALLM
07428-1000	RESERVOIR PUMP STATION	1802	62035	142.50	-	2/22/2018	PENNONI ASSOCIATES INC.	SERVICE THRU 1/14/18 RESERV.RD P
07428-1000	RESERVOIR PUMP STATION	1806	63480	45.50	-	6/7/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 4/15/18 RESERVOIR F
07429-6100	WEST GOSHEN CAPITAL	1801	61614	30,050.70	-	1/24/2018	WEST GOSHEN SEWER AUTHORITY	16.67% OF COST - ENHANCED CHEMI
07429-6100	WEST GOSHEN CAPITAL	1802	62035	3,664.01	-	2/22/2018	WEST GOSHEN SEWER AUTHORITY	ADDITION
07429-6100	WEST GOSHEN CAPITAL	1803	62343	(3,664.01)	-	3/15/2018	WEST GOSHEN SEWER AUTHORITY	VOID CK. 2017
07429-6100	WEST GOSHEN CAPITAL	1804	62689	72,288.38	-	4/13/2018	WEST GOSHEN SEWER AUTHORITY	2017 SEWER SYSTEM REPAIR PROJEC
07492-0100	TRANSFER TO GENERAL FL	1805	63072	71.30	-	5/10/2018	EAST GOSHEN TOWNSHIP - GENERAL	.16667 % EAST GOSHEN SHARE
07492-0500	BEGINNING BALANCE							XFER TO GENERAL TO CLOSE ACCOU
07492-0500	TRANSFER TO SEW.OPERA	1806	63662	30,000.00	-	6/22/2018	XFER FROM SEWER TO MA	
07492-0500	TRANSFER TO SEW.OPERA	1806	63664	-	30,000.00	6/22/2018	REVERSE TRX 63662	
	TOTAL NET EXPENSES			205,027.43				
	FUND BALANCE 8/31/18			1,595				

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

September 7, 2018

To: Municipal Authority

From: Mark Miller

Re: Pump Replacement

As you know, we have SBR tank 2 down for maintenance as part of the maintenance procedure we pulled the pumps and sent them out to be gone over. The motive pump was pulled apart and new seals were installed and a new impeller was required. A new impeller has been ordered, it takes 6 weeks to receive it. Now the pump in SBR 1 has a seal failure and keeps shutting down. We have bypassed some wiring to keep the pump running. If we did not switch the wiring and keep the pump running the tank will go septic.

We need to purchase a new pump so when we have a pump failure we can pull the pump and drop in a spare pump. The cost of the pump is \$21,648.00 with a delivery time of 4 to 6 weeks.

## Jon Altshul

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**From:** Michael Ellis <MEllis@Pennoni.com>  
**Sent:** Friday, September 07, 2018 12:14 AM  
**To:** rsmith@eastgoshen.org; Jon Altshul; Mark Miller (mmiller@eastgoshen.org)  
**Subject:** 2018 General Consultation Budget

Hi Rick, Jon, and Mark,

We are approaching budget on our General Consultation work (Pennoni project EGMAU18001). The approved budget for General Consultation for calendar year 2018 was \$18,000. As of 9/2/18, the effort for the year-to-date is \$17,146.50. I anticipate the remaining budget will be expended by the end of September so I respectfully request the MA consider a supplement to cover October through December.

An approximate breakdown of effort for the YTD through 9/2/18 follows:

General Engineering*	\$8,734.00
Tallmadge Drive Sewer**	\$1,218.75
Caustic Soda Pilot Study	\$3,180.25
SBR Coatings Assistance & Repair Inspections	\$4,013.50
TOTAL	\$17,146.50

\*Includes monthly engineer's reports, review of monthly plant operator's reports, attendance at monthly MA meetings, elementary school floor drain assistance, Applebrook NPDES Permit expiration research, RCSTP & HMPS generator replacement research, 5-yr capital improvement planning, RCSTP operations assistance on filter pump & controls issues, and Wexford Circle small flow treatment system planning module review).

\*\*Prior to creating a separate project for charges.

The General Engineering effort is on pace with expectations, but the required effort for Tallmadge Dr Sewer, Caustic Soda Pilot Study, and SBR Coatings has been more than that projected at the beginning of the year.

To complete the remainder of calendar year 2018, I anticipate another \$5,000 may be needed for 3 months of meetings and engineer's reports, finalizing caustic soda study report, and another SBR tank coating inspection. **We therefore respectfully request a supplement of \$5,000 to allow for continued General Consultation work through the remainder of 2018.**

Please call if you would like to discuss, or let me know if you may need any additional information.

Thanks,  
Mike

**Michael Ellis, PE**  
Municipal Division Manager

**Pennoni**  
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