

EAST GOSHEN MUNICIPAL AUTHORITY

January 14, 2019

7:00 PM

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE
 - a. Ask if anyone will be taping the meeting
 - b. Election of 2019 Officers

2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS

3. SEWER REPORTS

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

4. APPROVAL OF MINUTES

- a. December 10, 2018

4. APPROVAL OF INVOICES

E-mail summary from Pennoni	\$ 582.21
Pennoni Invoice #839068	\$ 2,677.00
Pennoni Invoice #839069	\$ 301.50
Pennoni Invoice #839070	\$ 2,187.00
Pennoni Invoice #839085	\$ 9,082.00
Pennoni Invoice #839095	\$ 384.06 – Pd Dec.
Gawthrop Invoice #202493	\$ 440.00
Gawthrop Invoice #203528	\$ 11,830.72
JWC Environ. Invoice #95288	

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. December 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 l&I Plan – 3-8-2018 completed
- c. Submit articles for the newsletter – The fall newsletter included an article about flushable wipes; the winter newsletter was submitted with an article about the improvements at WGSTP.

10. NEW BUSINESS

- a. Notice of Deficiencies & Resolution Requirements – Tallmadge Dr.
- b. E-mail summary from Pennoni for payment Application #1 & #2
- c. Payment Application #1 – Tallmadge Drive – Approval of \$42,431.40
- d. Payment Application #2 – Tallmadge Drive – Approval of \$21,326.40

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 19380-5199

January 11, 2019

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

Monthly Flows: The average daily flow to West Goshen was 817,000 gallons per day. No problems to report.

Meters: We have been reading the meters on a daily basis, the flows are running high.

C.C. Collection: We have been inspecting the entire collection system. We have been pulling manholes in the middle of the night to try and locate the infiltration. So far we have repaired 24 sewer laterals and found 3 manholes that need attention due to significant inflow. On the Ashbridge system we have three laterals to excavate which are scheduled for next week. We are scheduled to install the portable flow meters on the Chester Creek system as well as the R.C. Collection system.

R.C. Collection: We have three point repairs to do in Hershey's Mill Estates, we also have to dig two laterals that are broken and taking in significant inflow. We also have to replace several castings and lids that are in bad shape. As I stated in the Chester Creek report, we will be installing portable meters on this system as well. We have been working in the early morning hours trying to locate inflow. So far it has paid off. We have to pull the pumps at Hershey's Mill pump station for preventive maintenance.

Ridley Creek: The new screen has arrived and should be installed in the next two weeks. The flow meter arrived yesterday and is scheduled to be installed next week weather permitting. As you can see the flows are up as well. We have been repairing laterals as we inspect them. Once we get the Ashbridge system and Hershey Mill Estates tightened up then we will be hitting the Ridley Creek system.

Alarms:

We responded to 22 alarms for the month of December.

PA One Calls:

We received 40 PA One calls in December.

Rainfall:

December rainfall total was 6.00 inches.

Laterals:

5 lateral repairs reported for December

I was notified last week that Deckman Electric is closing at the end of February. I have already started looking for a new shop to do our pump work.







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

www.pennoni.com

EAST GOSHEN MUNICIPAL AUTHORITY ENGINEER'S REPORT

January 10, 2019

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- No activity since last report.

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 over one year.

Barkway Pump Station Grinder

- We have continued redesign and vendor coordination for an external Muffin Monster in a prefabricated manhole. Project-specific manhole details are currently being prepared by the vendor. Upon receipt of the details, the plans can be finalized, and the Township can order equipment. The lead time for the equipment is about 4 months.

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

- The contractor completed work on December 19, 2018. However, major and minor deficiencies that require monitoring and/or repair were identified during manhole vacuum testing and post-construction pipe televising. We prepared an agreement regarding the deficiencies and required repairs that was signed by the contractor (enclosed with our Pay Application #1 recommendation letter).
- A repair pre-construction meeting was conducted between Pennoni, Mark Miller, and the contractor on January 10. The contractor will begin repair of major deficiencies on January 16 and is expected to take 3 days to complete. The contractor will repair approximately 30 LF of pipe with a severe sag, repair the newly installed manhole such that it passes a vacuum test, and repair the abandoned downstream drop connection pipe stub, which is leaking groundwater. The pipes will be re-televised immediately upon completion of the repair work.
- Minor deficiencies, including minor sags (10% or less), were also noted at two locations within the replaced pipes. The contractor will re-televiser the pipes again in April to determine if the sags have increased, and if so, will perform repairs at that time.
- The contractor has submitted two invoices for consideration at the January MA meeting. The first invoice is for a 50% contract payment for work completed and the second invoice is for an additional 25% contract payment to be paid immediately following acceptance of the aforementioned major deficiency repairs.

I&I Support and Reporting

- We analyzed permanent meter data and expect to issue a semi-annual I&I report prior to the January MA meeting. We also provided assistance to the Township on contractors for manhole injection grouting to eliminate infiltration sources.

New Connections

- No activity since last report.

West Goshen Sewer System Consultation

- No activity since last report.

Hershey's Mill Pump Station

- We continued to evaluate electrical problems via discussions with the generator mechanic and evaluation of electrical test data provided by the mechanic. We prepared a letter recommending the PECO transformer be replaced with a larger transformer.
- We initiated evaluation of sizing for a replacement generator, and we are preparing a conceptual site exhibit to determine if the generator can be sited externally (instead of inside the control building).



**RCSTP Monthly Operations
Report:
January 2019**

Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge limitations for the month of December 2018. Discharge to the Applebrook irrigation lagoon remained off line during December 2018. 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 revised final effluent composite sample data reported for outfall 001 for the November 2018 DMR.

Table 1

November 2018 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -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	7	44	0.5	3	200	1,000
	0.75	40		42							
Sample Date											
November 1, 2018	0.369			4	12.3						
November 6, 2018	0.544	2.0	9.1	2	9.1	0.111	0.50	0.10	0.45	1	0.0000
November 13, 2018	0.594	2.7	13.4	2	9.9	0.100	0.50	0.13	0.64	1	0.0000
November 15, 2018	0.655			4	21.9						
November 20, 2018	0.556	3.5	16.2	2	9.3	0.129	0.60	0.10	0.46	1	0.0000
November 23, 2018	0.524			4	17.5		0.00				
November 27, 2018	0.595	2.0	9.9	2	9.9	0.184	0.91	0.15	0.74	2	0.3010
November 29, 2018	0.565			1	4.7						
Average	0.578	2.6	12.2	3	12.9	0.131	0.50	0.12	0.58	1	0.0753
Minimum	0.524	2.0	9.1	2	9.1	0.100	0.00	0.10	0.45	1	0.0000
Maximum	0.655	3.5	16.2	4	21.9	0.184	0.91	0.15	0.74	2	0.3010



**RCSTP Monthly Operations
Report:
January 2019**

The treatment process performed well during December with no abnormalities. The process monitoring, and control data indicates the facility will remain within compliance of the NPDES permit.

There was no discharge to the Applebrook outfall 002 during November 2018.

The monthly average influent wastewater pollutant concentrations and loading entering the wastewater treatment facility remained within the design concentrations. There were periodic BOD5 and TSS sample concentration atypically less than "normal" conditions. Although these samples are collected from the influent flow meter located prior to the Screening Building which excludes the internal recycle flows, debris can accumulate around the sampler suction line impacting the pollutant concentrations measured.

Table 2 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during November 2018.

**Table 2
November 2018 - 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											
November 6, 2018	0.665	58.8	326	63	349	21.2	118	27.0	150	4.7	26.1
November 13, 2018	0.657	122	677	28	155	19.8	109	19.0	104	2.6	14.4
November 20, 2018	0.657	305	1,692	148	821	27.2	149	27.2	149	4.5	25.0
November 27, 2018	0.723	138	765	118	654	19.6	118	18.2	110	3.1	17.2
Average	0.676	156	865	89	495	22.0	123	22.9	128	3.7	20.7
Minimum	0.657	59	326	28	155	19.6	109	18.2	104	2.6	14.4
Maximum	0.723	305	1,692	148	821	27.2	149	27.2	150	4.7	26.1

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.



**RCSTP Monthly Operations
Report:
January 2019**

The foam on the SNR surface 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 colder water temperatures within the SBRs historically contributes increasing the foam concentrations.

Sequencing batch reactors (SBRs) numbered 1, 3 and 4 are in service during November and December, as well as January. 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.

Table 3 1 illustrates the available final effluent composite sample data reported for outfall 001 for the December 2018 DMR.

Table 3

December 2018 - Final Effluent - Outfall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -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											
December 4, 2018	0.523	2.0	8.7	2	8.7	0.189	0.82	0.10	0.44	1	0.0000
December 6, 2018	0.516			1	4.3						
December 11, 2018	0.451	2.8	10.5	2	7.5	0.236	0.89	0.10	0.38	1	0.0000
December 13, 2018	0.424			2	7.1						
December 18, 2018	0.491	2.0	8.2	2	8.2	0.363	1.49	0.23	0.94	1	0.0000
December 27, 2019	0.610			1	5.1						
December 27, 2018	0.545	2.0	9.1	1	4.5	1.410	6.41		0.00	1	0.0000
Average	0.509	2.2	9.1	2	6.5	0.550	2.40	0.14	0.44	1	0.0000
Minimum	0.424	2.0	8.2	1	4.3	0.189	0.82	0.10	0.00	1	0.0000
Maximum	0.610	2.8	10.5	2	8.7	1.410	6.41	0.23	0.94	1	0.0000

There was no discharge to the Applebrook outfall 002 during December 2018.



Table 4 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during December 2018

Table 4

December 2018 - 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											
December 4, 2018	0.614	154	788	110	563	16.9	86	21.3	109	2.6	13.3
December 11, 2018	0.534	132	675	92	471	22.2	99	25.0	111	2.8	14.3
December 18, 2018	0.563	216	1,105	146	747	22.4	105	25.2	118	3.4	17.4
December 27, 2019	0.759	132	675	136	696	30.2	191	31.0	196	3.6	18.4
Average	0.617	159	811	121	619	22.9	120	25.6	134	3.1	15.9
Minimum	0.534	132	675	92	471	16.9	86	21.3	109	2.6	13.3
Maximum	0.759	216	1,105	146	747	30.2	191	31.0	196	3.6	18.4

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 December, there were ten (10) days when rainfall occurred. Four (4) storm events resulting in a daily precipitation amount equal to or greater than 0.50 inches measured during a 24-hour period as well as consecutive days of precipitation exceeding 0.5 inches of rainfall. A total of 8.96 inches of rainfall measured during the month. These events occurred on:

- December 2nd 0.57 inches
- December 16th 1.18 inches
- December 21st 1.96 inches
- December 28th 1.02 inches



**RCSTP Monthly Operations
Report:
January 2019**

Plant operations were adjusted to manage the precipitation to prevent exceedances of the permitted discharge limitations for Outfall 001. Adjustments included reducing aeration minutes per cycle, extending decant minutes per cycle and reducing settling times.

2018 Rainfall Measured at RCSTP

Year : 2018	
Month	Precipitation, inches
January	2.53
February	6.02
March	3.56
April	4.95
May	6.06
June	2.12
July	7.41
August	9.61
September	10.52
October	3.27
November	8.96
December	5.64
Year to Date	70.65

The average annual rainfall for West Chester, PA is typically 47.1 inches as compared to the national average of 39 inches. Rainfall measured at RCSTP for the 2018 calendar year was 23.55 inches above the typical average. As a result, the soil is saturated and groundwater table is elevated.

PA DEP

No activity.

Solids Dewatering and Disposal:

December 2018	
Gallons of sludge dewatered	279,182
Number of dumpsters	4

**Seventeen (17) days of centrifuge operation*

A decrease of 27,551 gallons of sludge was dewatered during December as compared to November.



**RCSTP Monthly Operations
Report:
January 2019**

Chemical Usage:

December 2018		
Chemical	Daily Average	Total Monthly
Soda Ash	300	9,000
Aluminum Sulfate solution	48.1	1,442
Polymer (centrifuge)	0.85	14.5 gallons

**Seventeen (17) days of centrifuge of operation*

The alum feed increased by an average of 48.3 gallons per day during November. This is attributed to the lower water temperatures and reduced biological activity.

Flow data:

December 2018			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	Flow Meter removed for rebuild		
Influent Wastewater to SBRs	20.083	647,849	904,576
Internal Recycle	NA	NA	NA
Treated Effluent to Disc Filters	19.746	636,969	903,168
Final Effluent Discharge	16.620	536,129	756,000
Applebrook Golf Course	0	0	0

Influent wastewater flow measurements to the SBRs are being used for DMR and Chapter 94 reporting. These flow measurements are typically 10 to 15% above the flow from the community when the internal recycle flow volumes are removed. For example, the December influent flow measurements into the SBR averaged 0.648 MGD, which is 86.4% of the average daily hydraulic design for the SBRs of 0.750 MGD, with all four (4) SBRs in service. The plant utilized three (3) SBRs during December and achieved compliance with all effluent discharge limitations within the NPDES permit.

Minor Preventative Maintenance

Flushed chemical feed lines to the SBRs.

Cleaned final effluent weir trough daily

Skimmed surface of disc filters daily



**RCSTP Monthly Operations
Report:
January 2019**

Drained and cleaned disc filters bi-weekly

Major Preventative Maintenance Activities

UV System

Parts were identified to repair and replace the electrical connections at a considerable savings as compared to sending the UV banks to Siemens for rebuilding. Replacing one UV bank with plant staff is recommended and proposed to be evaluated for a period of two months.

Influent Flow Meter located in the "field"

The meter remains at the factory for repair.

Screening Building

The parts to replace the screening basket have been received. Replacement of the screening basket and brush are scheduled for January.

UV Alarm on December 21, 2018

Responded to find the UV alarm was for insufficient lamps on. Two (2) ballasts were replaced. The alarm settings were adjusted in the UV PLC. Parts were ordered to repair the B3 UV module.

The problem with blowing so many ballasts, and damaging the plugs is due to the frequent cycling of the lag UV banks (in this case Bank B). The ballasts should only be used if they are going to cycle on once per day. Currently, the lag UV bank cycles on 8-10 times per day. This is probably shortening the lives of the lag bank ballasts. Another plug on Bank B that is melting. In the meantime, both UV banks will remain on continuously.

A meeting with the vendor providing the UV system supplies was scheduled.

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
December 10, 2018

The East Goshen Township Municipal Authority held their regular public meeting on Monday, December 10, 2018 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Jack Yahraes, Phil Mayer, Kevin Cummings and Dana Pizarro. Also in attendance were: Jon Altshul (Asst. Township Manager), Mark Miller (Public Works Director), Michael Ellis (Pennoni), Scott Towler (Plant Operator), Carmen Battavio (Supervisor), Patrick McKenna (Attorney), and Walter Wujcik (Conservancy Board).

COMMON ACRONYMS:

BFES – Big Fish Environmental Services
BOS – Board of Supervisors
CB – Conservancy Board
DEP – Department of Environmental Protection
EPA – Environmental protection Agency
HC – Historical Commission
I&I – Inflow & Infiltration
LCSTP – Lockwood Chase Sewer Treatment Plant

MA- Municipal Authority
NPDES – National Pollutant Discharge Elimination System
PC – Planning Commission
PM – Prevention Maintenance
PR – Park & Recreation Board
RCSTP – Ridley Creek Sewer Treatment Plant
SBR – Sequencing Batch Reactor
SSO – Sanitary System Overflow
WAS – Waste Activated Sludge

Call to Order & Pledge of Allegiance

Jack called the meeting to order at 6:50 pm and led those present in the Pledge of Allegiance. There was a moment of silence to remember our troops and first responders. Jack asked if anyone would be recording the meeting. There was no response.

Chairman’s Report

1. Phil mentioned that at the West Goshen meeting last week construction is done. He feels East Goshen should get a credit. They didn’t discuss storm water management but did mention that they have a new township water ordinance. Jon distributed copies of the West Goshen Sewer Authority Project cost report dated September 25, 2018. He commented that East Goshen does not pay miscellaneous fees.

Sewer Reports

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

Monthly Flows: The average daily flow to West Goshen was 833,000 gallons per day. No problems to report.

Meters: The meters were calibrated two weeks ago. The field meter at Ridley was been removed and sent back to HACH for repairs. The temporary flow meter that was at the Hershey Mill Pump Station has been removed. I’m waiting on John Laidly to forward me the data.

C.C. Collection: The pump stations were visited on a daily basis with no problems to report. We cleaned and televised 3,850 linear feet of pipe in various developments. The sump connection that we located has been disconnected. When I met with the resident, I inspected the line and viewed that the pump has been removed from the system. The new pumps that we had to order to replace the pumps at the Barkway Pump Station have arrived and will be

1 installed next week. The Public Works Department has been going out in the middle of the
2 night and pulling manholes to locate high flows and then isolating them. We are trying to
3 locate INI, so far we have located 5 sources of infiltration.

4 R.C. Collection: We televised and cleaned the following developments: Lochwood Chase,
5 Fairway Village and Bittersweet Development. We located 4 areas of infiltration all have
6 been repaired. We located a large leak at the sewer lateral at the Blacksmith Shop. On
7 Thursday of last week we repaired a significant leak in Hershey Mill Development. We also
8 attacked the Ridley Creek system as well. We were looking for infiltration.

9 Ridley Creek: We cleaned the grit chamber in the screen building and also cleaned the brush
10 and bamboo form the fence line.

11 Tallmadge Drive sewer replacement has been interesting to say the least. The contractor has
12 cored the manhole and installed some pipe. This is not going very fast. Matt and I are
13 inspecting the site on a daily basis. We are currently waiting for some elevation work to get
14 completed. Mike explained in more detail what they are doing.

15 1603 East Boot Road has been connected to our sewer system.

16 Alarms: We responded to 23 alarms for November.

17 PA One Calls: We received 64 PA One calls for November.

18 Rainfall: November rainfall total was 8.15 inches.

20 **2. Pennoni Engineer's Report for November**

21 **Invoices**

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

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

- 24 • No activity since last report.

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

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

29 **Supplee Valley Pipe Lining**

- 30 • Prevailing wage discrepancies were resolved by the contractor, which was the final
31 closeout item needed to make final payment. It is our understanding that final payment was
32 made to the contractor thereafter.

33 **Barkway Pump Station Grinder**

- 34 • We have initiated redesign and vendor coordination for an external Muffin Monster in a
35 prefabricated manhole.

36 **Ashbridge Pump Station Force Main**

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

1 **Tallmadge Drive Sewer Main Replacement**

- 2
- 3 • The contractor began work on November 26. Groundwater and wet/loose soil conditions
 - 4 have dramatically impacted the contractor's progress and have caused him to fall behind his
 - 5 proposed schedule. The size of trench restoration and associated trenching, aggregate and
 - 6 paving costs are increasing as a result.
 - 7 • The contractor has completed installation of the 125 LF downstream pipe run and the
 - 8 replacement manhole. However, the pipe run was installed too high due to a contractor
 - 9 survey error. The contractor will coordinate with a surveyor at his own expense to determine
 - 10 if the upstream run can be installed at an acceptable, shallower slope to compensate for the
 - 11 higher downstream piping.
 - 12 • Construction will likely run past the required December 14 contract cutoff completion date
 - 13 (20 consecutive calendar days). An exact completion date will not be known until the survey
 - 14 has occurred. The contractor will notify residents of updates to the construction schedule.
 - 15 • The Public Works Department will install temporary hot mix asphalt paving upon completion
 - 16 of the work.

17 **I&I Support and Reporting**

- 18 • It has been determined that instantaneous meter data is not available for the permanent meters,
- 19 so, we have initiated a limited analysis of all permanent meters based on daily flow data, and
- 20 we are preparing a semi-annual I&I report accordingly. The Township is coordinating with
- 21 the metering company to add instantaneous metering capabilities if possible. No update since
- 22 our last report.

23

24 **New Connections**

- 25 • No activity since last report.

26 **West Goshen Sewer System Consultation**

- 27 • No activity since last report.

28

29 **Hershey's Mill Pump Station**

- 30 • We continued to evaluate electrical problems via discussions with the generator mechanic
- 31 and evaluation of electrical test data provided by the mechanic. Our updated observations and
- 32 recommendations will be provided separately.

33

34 **3. Big Fish Environmental Services** – Scott's report showed that the Ridley Creek sewage

35 treatment plant outfalls 001 and 002 is anticipate to achieve compliance with the permitted effluent

36 discharge limitations during the month of November 2018. Discharge to the Applebrook irrigation

37 lagoon remained off line during November 2018. Chemical usage utilized for total phosphorus

38 removal, pH and total alkalinity remained consistent with previous months. No significant

39 mechanical or operational issues were observed during operation of sludge dewatering equipment or

40 SBR treatment process.

41 Scott revised DMR to the state and refiled. Rainfall flows have been higher. Average flows were

42 discussed but still in compliance. He provided before and after photos of the corrective action work.

43 It looks good. He recommends replacement of just the roto mat screen. They have a brush in stock.

44

45

1 **Approval of Minutes**

2 The minutes of the November 19, 2018 meeting were approved as amended.
3

4 **Approval of Invoices**

5 1. There was discussion of invoice #832261 for \$1,889.25. Mike explained that they had additional
6 time associated with Hershey Mill. He feels they will need \$5,000.00 more which will increase the
7 total from \$23,000.00 to \$28,000.00. Kevin recommended that the bills be paid as they are received
8 for the rest of the year. He pointed out that the above invoice is incorrect because it shows
9 \$28,000.00 as the contract amount and not \$23,000.00. Kevin moved to approve payment of the
10 following Pennoni invoices and adjust the contract amount as per future invoices:

11	Pennoni invoice #832260	\$ 113.75
12	Pennoni invoice #832261	\$ 1,889.25
13	Pennoni invoice #832262	\$ 332.25
14	Pennoni invoice #832263	\$ 552.25

15 Phil seconded the motion. The motion passed unanimously.
16

17 **Liaison Reports**

18 **Conservancy Board** – Walter reported that they did the work at Clymers Woods on December 5th. In
19 January they will select a date for the Keep East Goshen Beautiful Day.

20 **Board of Supervisors** – Carmen reported that the budget was adopted. They approved our contract
21 with WEGO Police. There will be a public meeting in January for the open space amendment. They
22 are conducting interviews for ABCs vacancies. Also they started a Pipeline Committee and a
23 Sustainability Committee. Carmen thanked everyone for coming to the Holiday party and wished
24 them all a Happy New Year.
25

26 **Financial Reports**

27 Jon Altshul provided the following written report:

28 In November, the Municipal Authority recorded -\$14.65 in revenues (banking fees) and \$9,966 in
29 expenses, including \$7,790 for general engineering, \$1,381 for Tallmadge Drive engineering and
30 \$796 for legal expenses for a negative variance of \$9,981. As of November 30th, the fund balance
31 was \$6,573.

32 Jon provided the 2019 proposed Municipal Authority budget and reviewed it. Phil moved that the
33 MA approve the 2019 budget dated December 4, 2018. Dana seconded the motion. The motion
34 passed unanimously.
35

36 **New Business**

37 1. Maillie Auditor fees - The fees for 2018 were \$9,400.00. The fees for 2019 will increase by
38 \$250.00 to a total of \$9,650. Kevin moved to continue to use Maillie as our auditor in the amount of
39 \$9,650.00 for 2019. Phil seconded the motion. The motion passed unanimously.

40 2. Pennoni 2019 Fees – Mike commented that they are requesting for continue as engineer with an
41 increase of 3% which is consistent with the cost of living. Kevin moved to retain Pennoni as our
42 Municipal Engineer at 2018 rates pending a 3% increase if approved by the BOS. Then the MA will
43 accept the increase. Dana seconded the motion. The motion passed unanimously.

44 3. Roto Mat Screen - Dana moved to approve the repair of the roto mat screen segment in the
45 amount of \$11,208.00 and \$1,000.00 for installation for a total of \$12,208.00. Phil seconded the
46 motion. The motion passed unanimously.

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Adjournment

There being no further business, Phil moved to adjourn the meeting. Dana seconded the motion. The meeting was adjourned at 8:10 p.m. The next regular meeting will be held on Monday, January 14, 2019 at 7:00 pm.

Respectfully submitted,

Ruth Kiefer
Recording Secretary

Sue Smith

From: Michael Ellis <MEllis@Pennoni.com>
Sent: Thursday, January 10, 2019 3:34 PM
To: rsmith@eastgoshen.org; Jon Altshul; Mark Miller (mmiller@eastgoshen.org)
Cc: 'ssmith@eastgoshen.org'
Subject: Pennoni Invoices - Municipal Authority - December 2018
Attachments: EGMA Invoices (12-2018).pdf

Hi Rick, Jon, and Mark,

Our Municipal Authority invoices for December are attached. **Please include this email with our invoices in the MA packet to describe two of the invoices:**

1. 2018 General Services, Project EGMAU18001 – The previously approved hourly rate budget was \$23,000 as noted in the invoice. As discussed at the December MA meeting, the electrical evaluation of the Hershey's Mill PS issues extended our year-to-date general consultation effort beyond that budget. As reflected in this Final Invoice for this activity, the actual total effort for the year is \$26,190. Please note this is less than the \$28,000 that had been projected at the MA meeting. **We propose the MA increase the budget to \$26,190 consistent with this effort.**

*FYI, to decrease the potential for adjustments in 2019, the general consultation budget for 2019 was set at \$27,000 to be consistent with the actual effort in 2017 and 2018.

2. Tallmadge Dr Sewer, Project EGMAU18004 – The estimated hourly rate fee on this project was initially approved at \$9,000 as noted in the invoice. However, the actual effort has exceeded that due to the extended construction schedule, extent of needed contractor oversight during construction, and to address numerous deficiencies in the completed work requiring repairs. The attached invoice is for a total effort as of 12/30/18 of \$12,348.75. We anticipate the total effort will end up being around \$16,000-\$18,000 following the performance of 2-3 days of repair work next week, acceptance testing thereafter, final televising and any repairs in April, and processing final invoices and closeout documentation. **We recommend the budget be increased accordingly to \$18,000.**

Please call me if you have any questions.

Thanks,
Mike

Michael Ellis, PE
Municipal Division Manager

Pennoni
121 Continental Drive, Suite 207 | Newark, DE 19713
Direct: +1 (302) 351-5236 | **Mobile:** +1 (302) 561-4235
www.pennoni.com | MEllis@Pennoni.com





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 # : 839068
Invoice Date : 01/10/2019
Project : EGMAU17006
Project Name : Barkway PS Muffin Monster

For Services Rendered through: 12/30/2018

Continued design and plan revisions for Muffin Monster prefabricated manhole system, and coordinated with vendor for equipment specifications and details.

Phase Code / Name	Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
**** -- Professional Services	\$16,000.00	\$9,421.29	62.52%	\$10,003.50	\$582.21
Total :	\$16,000.00	\$9,421.29		\$10,003.50	\$582.21

Amount Due This Invoice

\$582.21

OK
[Signature]
1/11/19

East Goshen Municipal Authority
EGMAU17006 Invoice Summary
Invoice Date 1/10/2019

Project: EGMAU17006
Pennoni Job No.: Barkway PS Muffin Monster
Invoice No: 839068
Invoice Period: 10/15/2018 to 12/30/2018
Date: 1/10/2019

Initial Authorization:	\$	9,000.00
Contract Amount:	\$	16,000.00
Previously Invoiced:	\$	9,421.29
Current Invoice:	\$	582.21
Invoiced to Date (\$):	\$	10,003.50
Invoiced to Date (%):		63%
Remaining Budget (\$):	\$	5,996.50
Remaining Budget (%):		37%

Budget by Phase:

Phase Name:	Barkway PS Muffin Monster	
Phase Budget:	\$	16,000.00
Previously Invoiced:	\$	9,421.29
Current Invoice:	\$	582.21
Invoiced to Date (\$):	\$	10,003.50
Invoiced to Date (%):		63%
Remaining Budget (\$):	\$	5,996.50
Remaining Budget (%):		37%

Comments: Continued design and plan revisions for Muffin Monster prefabricated manhole system, and coordinated with vendor for equipment specifications and details.



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 # : 839069
 Invoice Date : 01/10/2019
 Project : EGMAU18002
 Project Name : 2018 I&I Support and Reports

For Services Rendered through: 12/30/2018

FINAL INVOICE

Analyzed collection and conveyance systems' flow meter data, initiated preparation of semi-annual I&I Report #18, and continued scoping for Hershey's Mill Pump Station capacity upgrade including discussion with a developer's contractor to respond to scope and feasibility questions.

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

Labor : 2,677.00
 Expense : 0.00
 Phase Total : 2,677.00

Amount Due This Invoice

2,677.00

Fee : 11,000.00
 Prior Billings : 6,938.75
 Current Billings : 2,677.00
 Total Billings : 9,615.75

OK for [Signature] 1/11/19

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Authority Engineer	2.00	123.00	246.00
Senior Professional	2.00	117.00	234.00
Associate Professional	15.25	91.00	1,387.75
Engineering Technician	9.75	83.00	809.25
Labor Total:	29.00		2,677.00

Total Phase : **** -- Professional Services

Labor : \$2,677.00
 Expense : \$0.00

Total Project : EGMAU18002 -- 2018 I&I Support and Reports

Labor : \$2,677.00
 Expense : \$0.00

East Goshen Municipal Authority
 EGMAU18002 Invoice Summary
 Invoice Date 1/10/2019

Project:	EGMAU18002		
Pennoni Job No.:	2018 I&I Support and Reports		
Invoice No:	839069		
Invoice Period:	11/12/2018	to	12/30/2018
Initial Authorization:	\$ 11,000.00	Date:	1/10/2019
Contract Amount:	\$ 11,000.00		
Previously Invoiced:	\$ 6,938.75		
Current Invoice:	\$ 2,677.00		
Invoiced to Date (\$):	\$ 9,615.75		
Invoiced to Date (%):	87%		
Remaining Budget (\$):	\$ 1,384.25		
Remaining Budget (%):	13%		

Budget by Phase:

Phase Name:	2018 I&I Support and Reports		
Phase Budget:	\$ 11,000.00		
Previously Invoiced:	\$ 6,938.75		
Current Invoice:	\$ 2,677.00		
Invoiced to Date (\$):	\$ 9,615.75		
Invoiced to Date (%):	87%		
Remaining Budget (\$):	\$ 1,384.25		
Remaining Budget (%):	13%		

Comments: analyzed collection and conveyance systems' flow meter data, initiated preparation of semi-annual I&I Report #18, and continued scoping for Hershey's Mill Pump Station capacity upgrade including discussion with developer's contractor to respond to scope and feasibility questions.



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 # : 839070
Invoice Date : 01/10/2019
Project : EGMAU18005
Project Name : Hershey's Mill Generator Replace

For Services Rendered through: 12/30/2018

Initiated analysis of replacement generator sizing and preparation of conceptual site plan for external generator.

Phase : 01 -- Concept Design

Total Phase : 01 -- Concept Design

Labor : 301.50
Expense : 0.00
Phase Total : 301.50

Amount Due This Invoice \$301.50

Fee : 5,000.00
Prior Billings : 0.00
Current Billings : 301.50
Total Billings : 301.50

OK 1/11/19
[Signature]

Phase : 01 -- Concept Design

Labor Class	Hours/Units	Rate	Amount
Authority Engineer	1.50	123.00	184.50
Senior Professional	1.00	117.00	117.00
Labor Total:	2.50		301.50

Total Phase : 01 -- Concept Design

Labor : 301.50
Expense : 0.00

Total Project : EGMAU18005 -- Hershey's Mill Generator Replace

Labor : 301.50
Expense : 0.00

East Goshen Municipal Authority
EGMAU18005 Invoice Summary
Invoice Date 1/10/2019

Project: EGMAU18005
Pennoni Job No.: Hershey's Mill Generator Replacement
Invoice No: 839070
Invoice Period: NTP to 12/30/2018
Date: 1/10/2019
Initial Authorization: \$ 5,000.00
Contract Amount: \$ 5,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 301.50
Invoiced to Date (\$): \$ 301.50
Invoiced to Date (%): 6%
Remaining Budget (\$): \$ 4,698.50
Remaining Budget (%): 94%

Budget by Phase:

Phase Name: Hershey's Mill Generator Replacement
Phase Budget: \$ 5,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 301.50
Invoiced to Date (\$): \$ 301.50
Invoiced to Date (%): 6%
Remaining Budget (\$): \$ 4,698.50
Remaining Budget (%): 94%

Comments: Initiated analysis of replacement generator sizing and preparation of conceptual site plan for external generator.



INVOICE

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

Remit Payment To:
Pennoni
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 # : 839085
Invoice Date : 01/10/2019
Project : EGMAU18001
Project Name : 2018 General Services

For Professional Services Rendered through: 12/30/2018

OK
Jan [Signature]
1/11/19

FINAL INVOICE

Prepared November and December Engineer's Reports, reviewed RCSTP operator's reports, prepared for and attended November and December MA meetings, and provided alternative WWTP sampling labs for consideration to Township.

Hershey's Mill Pump Station electrical assessment: Continued evaluation of VFD, generator, and other electrical issues including coordination with repair technicians on electric load testing, transformer sizing, and service line splicing concerns; submitted memo summarizing November electrical site visit and recommendations; initiated letter to Township recommending larger transformer.

Phase Code	Phase Name	Fee Type	Contract Amount	Previously Billed	Current Billing	Total Billing
****	Professional Services	NTE	\$ 23,000.00	\$ 24,003.00	\$ 2,187.00	\$ 26,190.00
	Subtotal:			\$ 24,003.00	\$ 2,187.00	\$ 26,190.00
	Total:			\$ 24,003.00	\$ 2,187.00	\$ 26,190.00
Total Amount Due						\$ 2,187.00

...Continued from previous page

Phase : ** -- Professional Services**

<u>Rate Schedule Labor</u> <u>Class / Employee Name</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Associate Professional	0.25	91.00	22.75
Authority Engineer	13.50	123.00	1,660.50
Engineering Technician	3.25	83.00	269.75
Senior Professional	2.00	117.00	234.00
Rate Schedule Labor			2,187.00
Total Phase : **** -- Professional Services			2,187.00
<hr/> Total Project : EGMAU18001 -- 2018 General Services			2,187.00

East Goshen Municipal Authority
EGMAU18001 Invoice Summary
Invoice Date 1/10/2019

Project:	EGMAU18001		
Pennoni Job No.:	2018 General Services		
Invoice No:	839085		
Invoice Period:	11/12/2018	to	12/30/2018
Initial Authorization:	\$ 18,000.00	Date:	1/10/2019
Contract Amount:	\$ 23,000.00		
Previously Invoiced:	\$ 24,003.00		
Current Invoice:	\$ 2,159.00		
Invoiced to Date (\$):	\$ 26,162.00		
Invoiced to Date (%):	114%		
Remaining Budget (\$):	\$ (3,162.00)		
Remaining Budget (%):	-14%		

Budget by Phase:

Phase Name:	2018 General Services		
Phase Budget:	\$ 23,000.00		
Previously Invoiced:	\$ 24,003.00		
Current Invoice:	\$ 2,159.00		
Invoiced to Date (\$):	\$ 26,162.00		
Invoiced to Date (%):	114%		
Remaining Budget (\$):	\$ (3,162.00)		
Remaining Budget (%):	-14%		

Comments: FINAL INVOICE

Prepared November and December Engineer's Reports, reviewed RCSTP operator's reports, prepared for and attended November and December MA meetings, and provided alternative WWTP sampling labs for consideration to Township.

Hershey's Mill Pump Station electrical assessment: Continued evaluation of VFD, generator, and other electrical issues including coordination with repair technicians on electric load testing, transformer sizing, and service line splicing concerns; submitted memo summarizing November electrical site visit and recommendations; initiated letter to Township recommending larger transformer.



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 # : 839095
Invoice Date : 01/10/2019
Project : EGMAU18004
Project Name : Tallmadge Dr Sewer Constr Phase

For Services Rendered through: 12/30/2018

Pre-construction services consisting of shop drawing reviews, bypass pumping approach, schedule coordination, project contact list, and preparation of resident's notice. Construction services consisting of on-site observation of work and testing from 11/20/18 through 12/19/18 and engineering office support. Reviewed post-construction sewer videos, coordinated approach and schedule to resolve pipe and manhole deficiencies, prepared a Notice of Deficiencies letter to the contractor, and processed Pay Applications #1 and #2.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 9,082.00
Expense : 0.00
Phase Total : 9,082.00

Amount Due This Invoice

\$9,082.00

Fee : 9,000.00
Prior Billings : 3,266.75
Current Billings : 9,082.00
Total Billings : 12,348.75

OK
for [signature]
1/11/19

Phase : **** -- Professional Services

Labor
Class

Hours/
Units Rate

Amount

Authority Engineer	10.75	123.00	1,322.25
Senior Professional	0.25	117.00	29.25
Associate Professional	21.25	91.00	1,933.75
Sr. Engineering Technician	63.50	89.00	5,651.50
Engineering Technician	1.75	83.00	145.25
Labor Total:	97.50		9,082.00

Total Phase : **** -- Professional Services

Labor : \$9,082.00

Expense : \$0.00

Total Project : EGMAU18004 -- Tallmadge Dr Sewer Constr Phase

Labor : \$9,082.00

Expense : \$0.00

East Goshen Municipal Authority
EGMAU18004 Invoice Summary
Invoice Date 1/10/2019

Project: EGMAU18004
Pennoni Job No.: Tallmadge Drive Sewer Construction Phase
Invoice No: 839095
Invoice Period: 11/12/2018 to 12/30/2018
Initial Authorization: \$ 9,000.00 **Date:** 1/10/2019
Contract Amount: \$ 9,000.00
Previously Invoiced: \$ 3,266.75
Current Invoice: \$ 9,082.00
Invoiced to Date (\$): \$ 12,348.75
Invoiced to Date (%): 137%
Remaining Budget (\$): \$ (3,348.75)
Remaining Budget (%): -37%

Budget by Phase:

Phase Name: Tallmadge Drive Sewer Construction Phase
Phase Budget: \$ 9,000.00
Previously Invoiced: \$ 3,266.75
Current Invoice: \$ 9,082.00
Invoiced to Date (\$): \$ 12,348.75
Invoiced to Date (%): 137%
Remaining Budget (\$): \$ (3,348.75)
Remaining Budget (%): -37%

Comments: Pre-construction services consisting of shop drawing reviews, bypass pumping approach, schedule coordination, project contact list, and preparation of resident's notice. Construction services consisting of on-site observation of work and testing from 11/20/18 through 12/19/18 and engineering office support. Reviewed post-construction sewer videos, coordinated approach and schedule to resolve pipe and manhole deficiencies, prepared a Notice of Deficiencies letter to the contractor, and processed Pay Applications #1 and #2.



Gawthrop Greenwood, PC
Attorneys at Law

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

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
01/08/2019
Client No: 6604-001M
Invoice No. 203528

General Authority Services

Fees

		Hours	
12/07/2018	PMM Email from S Smith with meeting materials.	0.20	
12/10/2018	PMM Review and analyze meeting packet in preparation for Authority meeting; Attend Board meeting.	1.50	
12/21/2018	SLF Telephone call from M Ellis regarding performance bond question.	0.30	
12/28/2018	PMM Email from J Altshul regarding Tallmadge Drive.	0.20	
	For Current Services Rendered	<u>2.20</u>	<u>440.00</u>

Recapitulation

Timekeeper	Hours	Hourly Rate	Total
Stacey L. Fuller	0.30	\$200.00	\$60.00
Patrick M. McKenna	1.90	200.00	380.00

Previous Balance \$384.06

Total Current Charges 440.00

12/26/2018 Payment -384.06

Balance Due \$440.00

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



Gawthrop Greenwood, PC
Attorneys at Law

17 East Gay Street, Suite 100 | (p) 610-696-8221
West Chester, PA 19381-0562 | (f) 610-344-0921
gglaw@gawthrop.com | www.gawthrop.c

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
12/05/2018
Client No: 6604-001M
Invoice No. 202493

General Authority Services

Fees

		Hours	
11/19/2018			
	JKW Prepare for meeting; Attend meeting.	2.00	
	For Current Services Rendered	2.00	400.00

Recapitulation

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Jessica K. Wiesak	2.00	\$200.00	\$400.00

Expenses

CREDIT MEMO: Ref: J Wiesak mileage on invoice no. 200550 dated 10/8/18.	-15.94
Total Credits for Expenses	-15.94
Previous Balance	\$795.94
Total Current Charges	384.06
11/29/2018 Payment	-715.94
11/29/2018 Payment	-80.00
Total Payments	-795.94
Balance Due	<u>\$384.06</u>

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

pd. Dec. mtg.



2850 S. Red Hill Ave., STE 125
 Santa Ana, CA 92705
 (949) 833-3888

Invoice No: 95288
 Date: 12/26/2018
 Order No: S031631
 Page No: 1
 F.O.B: Origin

Sold To
East Goshen Township 1580 Paoli Pike West Chester, PA 19380 US

Ship To
East Goshen Township 1580 Paoli Pike West Chester, PA 19380 US

TIN: 45-2771126

DUNNS# 61-059-2388

CUSTOMER ID		CUSTOMER PO		PAYMENT TERMS		FREIGHT TERMS	
6005886		2018.86		NET 30 DAYS		Freight: Billed	
SALES REP ID		SHIPPING METHOD		SHIP DATE		INVOICE DUE DATE	
035		Old Dominion Freight Line		12/26/2018		1/25/2019	
QUANTITY		PART		DESCRIPTION		UNIT PRICE	EXTENDED PRICE
LI#	ORD	SHP	BCK				

1	1	1	0	AMC0109-3235-480-06-S	SCREEN, SEGMENT 6MM PRF 35DG XE SS	\$11,208.90	\$11,208.90
2	1	1	0	TARIFF	Tariff Surcharge Recently, the US Government, has implemented the following trade restrictions: Section 232, June 1, 2018: Restrictions on steel mill (25%) and aluminum articles (10%). All countries of origin except Argentina, Australia, Brazil, and South Korea. Section 301, July 6, 2018 Restrictions on products from China, 25% The tariff surcharge represents the increased cost of manufacturing our products as a result of the government-imposed trade restrictions.	\$294.79	\$294.79

screen replacement

APPROVED BY: MAN
 DATE PAID: _____
 CHECK #: _____
 CHARGED TO: 05422-3760

~~09409-7400~~
~~09409-7400~~
 07424-7440

SUB TOTAL: \$11,503.69
 TARIFF TOTAL: \$294.79
 SALES TAX: \$0.00
 SHIPPING & HANDLING CHARGES: \$327.03
 TOTAL AMOUNT DUE: \$11,830.72

PLEASE REFERENCE THIS INVOICE NUMBER ON YOUR CHECK AND REMIT TO: JWC Environmental Inc.
 P.O. Box 848853
 Los Angeles, CA 90084-8853

IF PAYING BY ACH OR WIRE:

ACH/WIRE INSTRUCTIONS
 BANK NAME: WELLS FARGO
 ADDRESS: IRVINE, CA.
 ABA#: 121000248
 ACCOUNT #: 4123519118
 ACCOUNT NAME: JWC Environmental Inc.



2850 S. Red Hill Ave., STE 125
 Santa Ana, CA 92705
 (949) 833-3888

Invoice No: 95288
 Date: 12/26/2018
 Order No: S031631
 Page No: 1
 F.O.B: Origin

Sold To
East Goshen Township 1580 Paoli Pike West Chester, PA 19380 US

TIN: 45-2771126

Ship To
East Goshen Township 1580 Paoli Pike West Chester, PA 19380 US

DUNNS# 61-059-2388

CUSTOMER ID	CUSTOMER PO	PAYMENT TERMS	FREIGHT TERMS	
6005886	2018.86	NET 30 DAYS	Freight: Billed	
SALES REP ID	SHIPPING METHOD		SHIP DATE	INVOICE DUE DATE
035	Old Dominion Freight Line		12/26/2018	1/25/2019
QUANTITY			T	UNIT
LI#	ORD	SH#	BCK	PRICE
PART				EXTENDED PRICE
DESCRIPTION				

Subject: Tariff Surcharge

Dear Valued JWC Environmental Customer,

The U.S. government has imposed new steel tariffs on imported raw steel (section 232) and certain imported product (section 301). JWC is committed to continuously improving efficiency which includes managing costs, and when possible protecting our customers from the adverse impacts of rising input costs. Unfortunately, due to the rapid nature of these new tariffs JWC must take action to recover some of these cost increases.

Given the uncertain nature of these market dynamics, JWC will not be increasing our base prices. Instead, JWC has implemented a "Tariff Surcharge". The surcharge will be a flat rate of 2.63% which will cover a portion of JWC's increase costs due to the new tariffs and will remain separate and transparent from base prices.

Using this method, JWC can quickly adapt to any future actions. If the tariffs are expanded or reduced JWC will be able to adjust the surcharge accordingly.



2600 S. Garnsey Street
Santa Ana, CA 92707

PACKLIST

Packlist ID: 92657
Date: 12/26/2018
Page: 1

S031631

Sold To Address		
East Goshen Township		
1580 Paoli Pike		
West Chester, PA 19380		
US		

Ship To Address		
East Goshen Township		
1580 Paoli Pike		
West Chester, PA 19380		
US		

CUSTOMER ID		
6005886		
SALES REP ID		
035		
QUANTITY		
ORD	SHP	BCK

Screen Replacement
Capital Replacement

F.O.B.	
Origin	
OUR ORDER NUMBER	
S031631	
CUSTOMER PART NO.	OUR WORK ORDER NO.

1.00 1.00 0.00AM

Ship Weight: 0.00

1.00 1.00 0.00TAF

Ship Weight: 0.00

0.00 1.00 0.00SALESTAX

Ship Weight: 0.00

Avalara Sales Tax

Shipped Unit of Measure:

Recently, the US Government, has implemented the following trade restrictions:
Section 232, June 1, 2018: Restrictions on steel mill (25%) and aluminum articles (10%). All countries of origin except Argentina, Australia, Brazil, and South Korea.
Section 301, July 6, 2018 Restrictions on products from China, 25%
The tariff surcharge represents the increased cost of manufacturing our products as a result of the government-imposed trade restrictions.

APPROVED BY: MAM

DATE PAID: _____

CHECK #: _____

CHARGED TO: 05422-

Ridley Creek

RECEIVED BY: _____



PACKLIST

Packlist ID: 92657
 Date: 12/26/2018
 Page: 2

2600 S. Garnsey Street
 Santa Ana, CA 92707

Sold To Address

East Goshen Township
 1580 Paoli Pike
 West Chester , PA 19380
 US

Ship To Address

East Goshen Township
 1580 Paoli Pike
 West Chester , PA 19380
 US

CUSTOMER ID		CUSTOMER PO		PAYMENT TERMS		F.O.B.	
6005886		2018.86		NET 30 DAYS		Origin	
SALES REP ID		SHIPPING METHOD		SHIP DATE		OUR ORDER NUMBER	
035		Old Dominion Freight Line		12/26/2018		S031631	
QUANTITY				CUSTOMER PART NO.		OUR WORK ORDER NO.	
ORD	SHP	BCK	PART ID	DESCRIPTION			

ORDER SPECIFICATIONS

EM/MM

 AMA3200-480
 SN: 105661-3-1

RECEIVED BY: _____

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA December Financial Report
Date: January 11, 2019

In December, the Municipal Authority recorded 19,985 in revenues (a \$20,000 transfer from Sewer Operating minus banking fees) and \$12,635 in expenses, including \$8,382 for the Q4 overhead chargeback, for a positive variance of \$7,350. As of December 31st, the fund balance was \$13,923.

For tonight's meeting, I seek your recommendation on whether the Tallmadge Drive and RCSTP screen replacement expenses should be paid by the MA (via reimbursement from the Township's sewer funds) or via the Sewer Operating and Sewer Capital Reserve funds. These projects were not included in the MA's 2019 budget—Tallmadge because it was budgeted by the Township for last year and the screen because it was an emergency repair. In addition, for the purposes of our financial statements both projects will be accrued back to 2018 for accounting purposes.

EAST GOSHEN TOWNSHIP
Other Funds
December 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
REVENUE								
INTEREST EARNINGS	07341 1000	10	10	(144.97)	(154.97)		(14.65)	(14.65)
CAPITAL RESERVE-INTEREST	07341 1010							
INTEREST EARNED - CONSTRUCTION	07341 1020	50	50	613.94	563.94			
DGED GRANT	07354 0400							
C.C. TAPPING FEES	07364 1100	8,000	8,000		(8,000.00)	4,000		(4,000.00)
R.C. TAPPING FEES	07364 1110	2,000	2,000	4,000.00	2,000.00			
H.C. LOAN PAYMENTS	07364 1120							
CONNECTION FEES - SEWER	07364 1130	1,692	1,692	1,127.52	(564.48)	846		(846.00)
MISCELLANEOUS REVENUE	07380 1000			564.51	564.51			
TRANSFER FROM GENERAL ACCT	07392 0100			71.30	71.30			
TRANSFER FROM SEWER OPERATING	07392 0500	89,853	75,853	110,000.00	34,147.00	6,322	20,000.00	13,678.00
TRANSFER FROM SEWER CAP RESV	07392 0501							
TRANSFER-ANNUAL CAP.RESERVE	07392 0510							
GRANT REVENUE	07392 0800							
LOAN PROCEEDS - SEWER PROJECT	07392 0804							
TRANSFER FROM SEWER CAP RESERVE	07392 0900							
TOTAL REVENUE		101,605	87,605	116,232.30	28,627.30	11,168	19,985.35	8,817.35
EXPENSES								
ADMINISTRATIVE WAGES	07424 1400	32,411	32,411	33,085.38	(674.38)	8,103	8,382.36	(279.36)
R.C. LOAN ISSUANCE COSTS	07424 1500							
MISCELLANEOUS EXPENSE	07424 3000	2,500	2,500	2,317.00	183.00	209	981.00	(772.00)
MUNIC.AUTH.-AUDITING	07424 3110	9,384	9,384	9,400.00	(16.00)			
ENGINEERING SERVICES	07424 3130	43,260	43,260	73,406.96	(30,146.96)	3,605	2,335.25	1,269.75
LEGAL SERVICES	07424 3140			4,600.00	(4,600.00)		384.06	(384.06)
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							
CAP.REPLACEMENT R.C.	07424 7490							
CAPITAL REPLACEMENT ASHBRIDGE	07424 7491							
HERSHEY MILL STATION - ENGINEER	07426 1000							
HERSHEY MILL STATION - CONSTRUCTION	07426 2000							
TALLMADGE DRIVE	07426 3000	14,000	14,000	19,232.75	(5,232.75)	1,167	552.25	614.42

EAST GOSHEN TOWNSHIP
 Other Funds
 December 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
RESERVOIR PUMP STATION - ENGINEER	07428 1000			188.00	(188.00)			
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000							
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 PAYM	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							
TOTAL EXPENSES		161,291	161,291	244,640.47	(83,349.47)	13,084	12,634.92	448.75
NET RESULT FROM OPERATIONS		(59,686)	(73,686)	(128,408.17)	(54,722.17)	(1,916)	7,350.43	9,266.10

2018 ALL MUNICIPAL AUTHORITY TRANSACTIONS

Description 3

Description 2

Description

Name

Per

Account #

Description

Account #	Description	Per	Src	Debits	Credits	Balance	Date	Check#	Name	Description	Description 2	Description 3
07341-1000	BEGINNING BALANCE	1801 JE		-	0.31	-	2/2/2018	INTEREST	INTEREST EARNED JANUARY 2018	07 FUND		
07341-1000	INTEREST EARNINGS	1802 JE		-	0.20	-	2/14/2018	INTEREST	INTEREST ADJ. FROM JAN. 2018			7105.2
07341-1000	INTEREST EARNINGS	1802 JE		-	0.54	-	3/5/2018	INTEREST	INTEREST EARNED FEBRUARY 2018	07 FUND		
07341-1000	INTEREST EARNINGS	1803 EX		15.00	-	-	3/16/2018	62192 1	REIMBURSE S/R FOR BANK FEES	INTEREST EARNINGS		
07341-1000	INTEREST EARNINGS	1803 JE		-	0.47	-	4/2/2018	INTEREST	INTEREST EARNED MARCH 2018	07 FUND		
07341-1000	INTEREST EARNINGS	1804 EX		15.00	-	-	4/2/2018	62551 1	REIMB S/R FOR 3/2018 BANK FEES	INTEREST EARNINGS		
07341-1000	INTEREST EARNINGS	1804 EX		-	0.55	-	5/1/2018	INTEREST	INTEREST EARNED APRIL 2018	07 FUND		
07341-1000	INTEREST EARNINGS	1805 EX		15.00	-	-	5/1/2018	62911 1	REIMBURSMT-4/2018 BANK FEES	INTEREST EARNINGS		
07341-1000	INTEREST EARNINGS	1805 EX		15.00	-	-	6/1/2018	63388 1	BANK FEES - MAY 2018	INTEREST EARNINGS		
07341-1000	INTEREST EARNINGS	1805 EX		-	15.00	-	6/5/2018	REVERSE	REVERSE TRX 63388 EXPENSE TO	BE ENTERED IN JUNE NOT MAY		
07341-1000	INTEREST EARNINGS	1805 JE		-	0.51	-	6/1/2018	INTEREST	INTEREST EARNED MAY 2018	07 FUND		
07341-1000	INTEREST EARNINGS	1806 EX		15.00	-	-	6/5/2018	63459 1	REIMBURSE S/R FOR MAY '18 FEES	INTEREST EARNINGS		
07341-1000	INTEREST EARNINGS	1806 EX		-	0.40	-	7/3/2018	INTEREST	INTEREST EARNED JUNE 2018	07 FUND		
07341-1000	INTEREST EARNINGS	1807 EX		15.00	-	-	7/3/2018	63820 S	REIMBURSE S/R - 6/2018 BK.FEES	INTEREST EARNINGS		7100.1035
07341-1000	INTEREST EARNINGS	1807 EX		-	15.00	-	7/30/2018	64317 1	REVERSE EXP. TRX 63820	M&T BANK - GEN'L CHKG # 9852637421		
07341-1000	INTEREST EARNINGS	1807 EX		15.00	-	-	7/30/2018	64322 1	REIMBURSE S/R - 6/2018 BK.FEES	INTEREST EARNINGS		7100.1035
07341-1000	INTEREST EARNINGS	1807 JE		-	0.40	-	8/2/2018	INTEREST	INTEREST EARNED JULY 2018	07 FUND		
07341-1000	INTEREST EARNINGS	1808 EX		15.00	-	-	8/3/2018	64289 1	REIMBURSE S/R - 7/2018 BK FEES	INTEREST EARNINGS		7100.1035
07341-1000	INTEREST EARNINGS	1808 JE		-	0.14	-	9/4/2018	INTEREST	INTEREST EARNED AUGUST 2018	BANK FEES		
07341-1000	INTEREST EARNINGS	1809 JE		15.00	-	-	9/5/2018	BANK FEES	REIMBURSE S/R FOR AUGUST 2018	BANK FEES		7100.1035
07341-1000	INTEREST EARNINGS	1809 JE		-	0.41	-	10/1/2018	INTEREST	INTEREST EARNED SEPT. 2018	BANK FEES		
07341-1000	INTEREST EARNINGS	1810 JE		15.00	-	-	10/1/2018	REIMBURSE	REIMBURSE S/R FOR SEPT. 2018	BANK FEES		7100.1035
07341-1000	INTEREST EARNINGS	1810 JE		-	0.40	-	11/1/2018	INTEREST	INTEREST EARNED OCTOBER 2018	07 FUND		
07341-1000	INTEREST EARNINGS	1811 JE		15.00	-	-	11/1/2018	BANK FEES	REIMBURSE S/R FOR OCTOBER 2018	BANK FEES		7100.1035
07341-1000	INTEREST EARNINGS	1811 JE		-	0.35	-	11/30/2018	INTEREST	INTEREST EARNED NOVEMBER 2018	07 FUND		
07341-1000	INTEREST EARNINGS	1812 JE		15.00	-	-	12/3/2018	BANK FEES	REIMBURSE S/R FOR NOV. 2018	BANK FEES		7100.1035
07341-1000	INTEREST EARNINGS	1812 JE		-	0.35	-	12/31/2018	INTEREST	INTEREST EARNED DECEMBER 2018	07 FUND		
07341-1020	BEGINNING BALANCE	1801 JE		-	391.64	-	2/2/2018	INTEREST	INTEREST EARNED JANUARY 2018	07 FUND		
07341-1020	INTEREST EARNED - CONSTRUCTI	1802 JE		-	69.81	-	3/5/2018	INTEREST	INTEREST EARNED FEBRUARY 2018	07 FUND		
07341-1020	INTEREST EARNED - CONSTRUCTI	1803 JE		-	81.66	-	4/2/2018	INTEREST	INTEREST EARNED MARCH 2018	07 FUND		
07341-1020	INTEREST EARNED - CONSTRUCTI	1804 JE		-	71.90	-	5/1/2018	INTEREST	INTEREST EARNED APRIL 2018	07 FUND		
07341-1020	INTEREST EARNED - CONSTRUCTI	1805 JE		-	0.03	-	6/1/2018	INTEREST	INTEREST EARNED MAY 2018	07 FUND		
07364-1110	BEGINNING BALANCE	1807 RE		-	2,000.00	-	7/13/2018	ROBERTS	TAP IN FEE FOR MARLIN DR	R.C.TAPPING FEES		
07364-1110	R.C.TAPPING FEES	1810 RE		-	2,000.00	-	10/30/2018	65507 1	TAP IN FEE - 1603 E BOOT RD	R.C.TAPPING FEES		
07364-1130	BEGINNING BALANCE	1801 CR		-	423.00	-	1/25/2018	2572	STOFFLET, MICHAEL			
07364-1130	CONNECTION FEES - SEWER	1802 CR		-	423.00	-	2/13/2018	484	JACOBS, ROBERT & CHERYL			
07364-1130	CONNECTION FEES - SEWER	1802 CR		-	423.00	-	2/27/2018	148	GEORGE SMITH & CHRISTINA CONLE			
07364-1130	CONNECTION FEES - SEWER	1802 JE		282.24	-	-	2/13/2018	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST		
07364-1130	CONNECTION FEES - SEWER	1802 JE		141.12	-	-	2/27/2018	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST		
07364-1130	CONNECTION FEES - SEWER	1803 CR		-	423.00	-	3/23/2018	11373243	PAPPANO, JOSEPH & PATRICIA			
07364-1130	CONNECTION FEES - SEWER	1803 JE		141.12	-	-	3/23/2018	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	RC214 PAPPANO		
07380-1000	BEGINNING BALANCE	1802 JE		-	282.24	-	2/13/2018	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST		
07380-1000	MISCELLANEOUS REVENUE	1802 JE		-	141.12	-	2/27/2018	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST		
07380-1000	MISCELLANEOUS REVENUE	1803 JE		-	141.12	-	3/23/2018	PINE ROCK	ANNUAL PINE ROCK INSTALLMENT	RC214 PAPPANO		
07380-1000	MISCELLANEOUS REVENUE	1808 JE		-	0.03	-	8/16/2018	DEPOSIT	DEPOSIT CK.7100.1035 TO CLOSE	OUT FULTON 7105.2000		
07392-0100	BEGINNING BALANCE	1805 JE		-	71.90	-	6/7/2018	XFER	XFER \$ TO MA REGARDING DEPOSIT ERROR 5/10/18			
07392-0500	BEGINNING BALANCE	1803 JE		-	30,000.00	-	3/29/2018	XFER	XFER \$ FROM SEWER TO MUNICIPAL TO COVER EXPENSES			
07392-0500	TRANSFER FROM SEWER OPERAT	1806 JE		-	30,000.00	-	6/22/2018	XFER	XFER \$ FROM SEWER TO MA			9/12/2018
07392-0500	TRANSFER FROM SEWER OPERAT	1809 JE		-	30,000.00	-	9/12/2018	XFER	XFER FROM SEWER TO M.A.			12/28/2018
07424-1400	BEGINNING BALANCE	1812 JE		-	20,000.00	-	12/28/2018	XFER	XFER \$ FROM SEWER TO MA			

07424-1400	ADMINISTRATIVE WAGES	1803 CD	-	-	9/26/2018	-	8,160.33	3121 EAST GOSHEN TOWNSHIP - GENERA	1ST QTR.2018 REIMBURSEMENT - MA	PROGRAM FOR BARKWAY WATER DISCHARGE
07424-1400	ADMINISTRATIVE WAGES	1806 CD	-	-	6/21/2018	-	8,160.33	3129 EAST GOSHEN TOWNSHIP - GENERA	2ND QTR.2018 REIMBURSEMENT - MA	
07424-1400	ADMINISTRATIVE WAGES	1809 CD	-	-	9/28/2018	-	8,382.36	3135 EAST GOSHEN TOWNSHIP - GENERA	3RD QTR.2018 REIMBURSEMENT - MUN.AUTH	
07424-1400	ADMINISTRATIVE WAGES	1812 CD	-	-	12/28/2018	-	8,382.36	3142 EAST GOSHEN TOWNSHIP - GENERA	4TH QTR.2018 REIMBURSEMENT - MA	
07424-3000	BEGINNING BALANCE	1801 CD	-	-	1/31/2018	-	100.00	3114 COMMONWEALTH FINANCING AUTH	GRANT APPLIC. DECD. - WATER & SEWER	
07424-3000	MISCELLANEOUS EXPENSE	1805 CD	-	-	5/30/2018	-	1,236.00	3125 DELAWARE RIVER BASIN COMMISS	ANNUAL FEE D-2000-030 CP WASTE	
07424-3000	MISCELLANEOUS EXPENSE	1812 CD	-	-	12/20/2018	-	981.00	3141 PENNSYLVANIA MUNICIPAL AUTHO	2019 ACTIVE MEMBERSHIP DUES	
07424-3110	BEGINNING BALANCE	1803 CD	-	-	3/22/2018	-	6,964.00	3120 MAILLIE FALCONIERO & CO.	PROGRESS BILLING - M.AUTHORITY 2017	FINANCIAL STATEMENTS
07424-3110	MUNIC.AUTH.-AUDITING	1804 CD	-	-	4/17/2018	-	2,435.00	3123 MAILLIE FALCONIERO & CO.	EXAMINATION 2017 MA FINANCIAL ST	
07424-3130	BEGINNING BALANCE	1801 CD	-	-	1/24/2018	-	12,523.56	3113 PENNONI ASSOCIATES INC.	SERV.THRU 12/10/17 2017 GENERAL	SERVICES
07424-3130	ENGINEERING SERVICES	1802 CD	-	-	2/15/2018	-	5,415.00	3115 PENNONI ASSOCIATES INC.	SERVICES THRU 1/14/18 -2017 GENERAL	
07424-3130	ENGINEERING SERVICES	1802 CD	-	-	2/22/2018	-	552.50	3117 PENNONI ASSOCIATES INC.	SERVICE THRU 1/14/18 SUPPLEE VAL.	
07424-3130	ENGINEERING SERVICES	1803 CD	-	-	3/15/2018	-	11,749.08	3118 PENNONI ASSOCIATES INC.	SERVICES THRU 2/11/18 2018 GEN.SERV	
07424-3130	ENGINEERING SERVICES	1806 CD	-	-	6/7/2018	-	9,622.25	3126 PENNONI ASSOCIATES INC.	SERVICES THRU 4/15/18 SUPPLEE VAL.	
07424-3130	ENGINEERING SERVICES	1805 CD	-	-	6/12/2018	-	7,503.93	3127 PENNONI ASSOCIATES INC.	SERVICES THRU 5/20/18 BARKWAY PS	
07424-3130	ENGINEERING SERVICES	1807 CD	-	-	7/11/2018	-	16,879.82	3130 PENNONI ASSOCIATES INC.	SERVICES THRU 6/17/18 BARKWAY	
07424-3130	ENGINEERING SERVICES	1807 JE	-	-	7/10/2018	RECLASS	10,556.75	RECLASS TALLMADGE DR EXPENSES		
07424-3130	ENGINEERING SERVICES	1808 CD	-	-	8/15/2018	-	9,619.00	3132 PENNONI ASSOCIATES INC.	PROF.SERV. THRU 8/5/18 2018 GENERAL	
07424-3130	ENGINEERING SERVICES	1809 CD	-	-	9/11/2018	-	1,134.50	3133 PENNONI ASSOCIATES INC.	SERVICES THRU 8/12/18 SUPPLEE VAL.	
07424-3130	ENGINEERING SERVICES	1810 CD	-	-	10/10/2018	-	4,839.25	3136 PENNONI ASSOCIATES INC.	SERVICES THRU 9/16/18 SUPPLEE VALL	
07424-3130	ENGINEERING SERVICES	1811 CD	-	-	11/26/2018	-	7,789.57	3138 PENNONI ASSOCIATES INC.	SERVICE THRU 10/14/18 2018 I&I	
07424-3130	ENGINEERING SERVICES	1812 CD	-	-	12/11/2018	-	2,335.25	3139 PENNONI ASSOCIATES INC.	SERVICES THRU 11/11/18 SUPPLEE VALL	
07424-3140	BEGINNING BALANCE	1801 CD	-	-	1/24/2018	-	680.00	3112 GAWTHROP GREENWOOD & HALSTI	LEGAL SERVICES DEC. 2017 GEN.AUTH.	
07424-3140	LEGAL SERVICES	1802 CD	-	-	2/22/2018	-	240.00	3116 GAWTHROP GREENWOOD & HALSTI	LEGAL SERVICE - JAN.2018 GEN.AUTH.	
07424-3140	LEGAL SERVICES	1803 CD	-	-	3/19/2018	-	400.00	3119 GAWTHROP GREENWOOD & HALSTI	LEGAL SERVICE - FEBRUARY 2018	
07424-3140	LEGAL SERVICES	1804 CD	-	-	4/17/2018	-	380.00	3122 GAWTHROP GREENWOOD & HALSTI	LEGAL SERVICE 3/12/18	
07424-3140	LEGAL SERVICES	1805 CD	-	-	5/16/2018	-	480.00	3124 GAWTHROP GREENWOOD & HALSTI	LEGAL SERVICE - APRIL 2018 GEN.AUTH	
07424-3140	LEGAL SERVICES	1806 CD	-	-	6/18/2018	-	440.00	3128 GAWTHROP GREENWOOD & HALSTI	LEGAL SERV. - MAY 2018 GEN.AUTHORITY	
07424-3140	LEGAL SERVICES	1807 CD	-	-	7/30/2018	-	300.00	3131 GAWTHROP GREENWOOD & HALSTI	LEGAL SERVICE JUNE 2018 GEN.AUTHOR.	
07424-3140	LEGAL SERVICES	1809 CD	-	-	9/14/2018	-	500.00	3134 GAWTHROP GREENWOOD & HALSTI	LEGAL SERVICE 8/9-8/13/18 GEN.AUTH.	
07424-3140	LEGAL SERVICES	1811 CD	-	-	11/26/2018	-	795.94	3137 GAWTHROP GREENWOOD & HALSTI	LEGAL SERV. 9/7-9/10/18 GEN. AUTH.	
07424-3140	LEGAL SERVICES	1812 CD	-	-	12/20/2018	-	384.06	3140 GAWTHROP GREENWOOD & HALSTI	LEGAL SERVICE - 11/19/18 GEN.AUTH.	
07426-3000	BEGINNING BALANCE	1807 CD	-	-	7/11/2018	-	1,980.00	3130 PENNONI ASSOCIATES INC.	SERVICE THRU 6/17/18 2018 TALLMADGE	
07426-3000	TALLMADGE DRIVE	1807 JE	-	-	7/10/2018	RECLASS	10,556.75	RECLASS TALLMADGE DR EXPENSES		
07426-3000	TALLMADGE DRIVE	1808 CD	-	-	8/15/2018	-	2,607.25	3132 PENNONI ASSOCIATES INC.	PROF.SERV. THRU 8/5/18 2018 TALLM	SERVICE 2018
07426-3000	TALLMADGE DRIVE	1809 CD	-	-	9/11/2018	-	822.00	3133 PENNONI ASSOCIATES INC.	SERV.THRU 8/12/18 TALLMADGE - GEN.	
07426-3000	TALLMADGE DRIVE	1810 CD	-	-	10/10/2018	-	1,333.75	3136 PENNONI ASSOCIATES INC.	SERVICES THRU 9/16/18 TALLMADGE	
07426-3000	TALLMADGE DRIVE	1811 CD	-	-	11/26/2018	-	1,380.75	3138 PENNONI ASSOCIATES INC.	SERVICE THRU 10/14/18 TALLMADGE	
07426-3000	TALLMADGE DRIVE	1812 CD	-	-	12/11/2018	-	552.25	3139 PENNONI ASSOCIATES INC.	SERV. THRU 11/11/18 TALLMADGE SEWER	
07428-1000	BEGINNING BALANCE	1802 CD	-	-	2/22/2018	-	142.50	22016 PENNONI ASSOCIATES INC.	SERVICE THRU 1/14/18 RESERV.RD PS	FINAL INVOICE
07428-1000	RESERVOIR PUMP STATION - ENG	1806 CD	-	-	6/7/2018	-	45.50	3126 PENNONI ASSOCIATES INC.	SERVICES THRU 4/15/18 RESERVOIR RD	
07429-6100	BEGINNING BALANCE	1801 CD	-	-	1/24/2018	-	30,050.70	22015 WEST GOSHEN SEWER AUTHORITY	16.67% OF COST - ENHANCED CHEMICAL	ADDITION
07429-6100	WEST GOSHEN CAPITAL	1802 CD	-	-	2/22/2018	-	3,664.01	22017 WEST GOSHEN SEWER AUTHORITY	16.67% - ENHANCED CHEMICAL ADDITION	& ANAEROBIC DIGESTER RE
07429-6100	WEST GOSHEN CAPITAL	1803 CD	-	-	3/15/2018	-	(3,664.01)	22017 WEST GOSHEN SEWER AUTHORITY	VOID CK. 2017	
07429-6100	WEST GOSHEN CAPITAL	1804 CD	-	-	4/15/2018	-	72,288.38	22018 WEST GOSHEN SEWER AUTHORITY	2017 SEWER SYSTEM REPAIR PROJECT	.16667 % EAST GOSHEN SH.
07492-0100	BEGINNING BALANCE	1805 CD	-	-	5/10/2018	-	71.30	22019 EAST GOSHEN TOWNSHIP - GENERA	XFER TO GENERAL TO CLOSE ACCOUNT	
07492-0500	BEGINNING BALANCE	1806 JE	-	-	6/22/2018	XFER	30,000.00	XFER FROM SEWER TO MA		
07492-0500	TRANSFER TO SEW.OPERATING	1806 JE	-	-	6/22/2018	REVERSE	-	REVERSE TRX 63662		
07492-0500	TRANSFER TO SEW.OPERATING	1806 JE	-	-	6/22/2018	REVERSE	30,000.00			

January 3, 2019

EGMAU18004

Randall Weaver
Iron Eagle Excavating
35 Ann Street
Highspire, PA 17034

**Re: Notice of Deficiencies & Resolution Requirements
Tallmadge Drive Sewer Replacement, Contract No. TD-2018-2
East Goshen Municipal Authority, Chester County, PA**

Dear Mr. Weaver:

On behalf of the East Goshen Municipal Authority, you are hereby notified of the following deficiencies in the work performed for the subject contract, based on field testing, visual observation, and sewer video footage, and documented herein are the corrective actions that have been verbally discussed:

MH R-034 to MH R-033

1. 0' to 26' – Severe sag (30-40%)
2. 6' – Infiltration runner at solid coupling joint
3. 235' to 260' – Minor sag ($\pm 10\%$)
4. 340' to 353' – Minor sag ($\pm 10\%$)
5. 380' to 400' (last 20' of run into MH R-033) – Water sitting in pipe; however, this may be backup from the bypass pump hose partially blocking the downstream manhole channel during the televising
6. MR R-033 failed the vacuum test

MH R-033 to MH R-032

7. 0' to 14' – Minor sag ($\pm 10\%$)
8. MH R-032 – The abandoned pipe has an infiltration runner into the manhole

Items 1, 2, 6, and 8 must be repaired by January 25, 2019, including the replacement of any temporary pavement removed. Items 1 and 2 shall be corrected via excavated repair. Item 8 shall be repaired by the installation of a screw plug as well as brick and mortar. Vacuum testing and television of the repaired manhole and severely sagging pipe, respectively, shall be performed within three days following construction. A pre-construction meeting shall be conducted at the site at least seven days prior to work between the Township, Pennoni, and Iron Eagle Excavating.

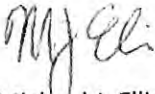
Items 3, 4, and 7, which include minor sags totaling approximately 52 linear feet, may be repaired now or re-evaluated at the end of March 2019. If you choose to re-evaluate, the re-evaluation must occur by sewer televising performed by the same company that performed the original televising with the same equipment and under the exact same bypass pump conditions. If, at the end of March, the sags in these areas have not increased, these pipe sections can be found acceptable. However, if any additional sagging is observed, that section of pipe will need to be repaired.

It is unclear if item 5 is an actual issue. This area needs to be re-evaluated by televising when the January repairs are made and repaired if needed to eliminate sags and standing water.

Further, the entirety of the contract work shall be re-televised after all repairs are performed. Any minor sag repairs must be completed by the end of April 2019. No work will be considered to be accepted until all repairs are satisfactorily completed and final re-televising is performed and determined acceptable by the owner. Performance and payment bonds shall remain in place until that time.

If you have any questions or need additional information, please call.

Sincerely,
PENNONI ASSOCIATES INC.



Michael J. Ellis, PE
Authority Engineer

/edj

cc: Rick Smith, Township Manager
Jon Altshul, Assistant Township Manager
Mark Miller, Public Works Director
Patrick McKenna, Gawthrop Greenwood
East Goshen Municipal Authority

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Please sign below with your acknowledgement to these repair conditions.

ACKNOWLEDGEMENT:

Randall Weaver, Iron Eagle Excavating



DATE:

1/4/2019

Sue Smith

From: Jon Altshul <jaltshul@eastgoshen.org>
Sent: Friday, January 11, 2019 8:17 AM
To: Sue Smith
Subject: FW: Tallmadge Dr Sewer - Pay Recommendations #1 and #2
Attachments: Payment App #1 Recommendation Ltr 2019.01.09.pdf; Payment App #2 Recommendation Ltr 2019.01.09.pdf

Jon Altshul
Director of Finance & Assistant Township Manager
East Goshen Twp
jaltshul@eastgoshen.org
610-692-7171

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From: Michael Ellis [mailto:MEllis@Pennoni.com]
Sent: Wednesday, January 09, 2019 10:07 PM
To: rsmith@eastgoshen.org; Jon Altshul; Mark Miller (mmiller@eastgoshen.org)
Cc: Eric Jenson; Matthew McAloon
Subject: Tallmadge Dr Sewer - Pay Recommendations #1 and #2

Hi Rick, Jon, and Mark,

Please find attached our recommendation letters for Payment Applications #1 and #2 for consideration at the MA meeting. If approved by the MA, we recommend Application #1 be paid next week, and Application #2 be paid upon completion of the initial rehab work. That work is scheduled to be performed next week so that payment could occur the following week.

Please call if you have any questions or comments.

Thanks,
Mike

Michael Ellis, PE
Municipal Division Manager

Pennoni
121 Continental Drive, Suite 207 | Newark, DE 19713
Direct: +1 (302) 351-5236 | **Mobile:** +1 (302) 561-4235
www.pennoni.com | MEllis@Pennoni.com

January 9, 2019

EGMAU18004

Rick Smith, Township Manager
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

**RE: Payment Application No. 1 Recommendation Letter
Tallmadge Drive Sewer Replacement, Contract No. TD-2018-2**

Dear Mr. Smith:

The Contractor, Iron Eagle Excavating, Inc., has submitted the first invoice for work completed on this project. The invoice is for \$42,431.40, which is approximately equal to 50% of the contract value.

Deficiencies were observed in the work performed when the manhole vacuum testing and pipe televising were performed in December 2018. Following discussions with the Township and the Contractor, a Notice of Deficiencies (enclosed), dated January 3, 2019, was submitted to the Contractor which noted the observed issues and required resolutions. It was discussed that an initial payment of 50% of the contract value would be provided for the work completed, an additional 25% of the contract value would be provided immediately following the correction of major deficiencies by January 25, 2019, and the final 25% of the contract value would be considered following repair of minor deficiencies, or acceptance, if conditions have not changed in retesting in April 2019.

We therefore recommend an initial payment of \$42,431.40.

If you have any questions, please contact me at your convenience.

Sincerely,

PENNONI ASSOCIATES INC.



Michael J. Ellis, PE
Authority Engineer

/edj

Enclosures: Invoice #106
Payment Application 1 Tabulation
Notice of Deficiencies (Acknowledged by Contractor)

cc: Jon Altshul, Assistant Township Manager
Mark Miller, Public Works Director
East Goshen Municipal Authority

Iron Eagle Excavating

35 ann street
Highspire, PA 17034

Invoice

Date	Invoice #
1/4/2019	106

Bill To

Item	Date	Description	Job site	Rate	Hours	Amount
Excavating	1/4/2019	Sanitary Sewer Bypass Pumping and Flow Control	Tallmadge Drive	2,250.00	1	2,250.00
Excavating	1/4/2019	Furnish and install 8" Dia. SDR26 PVC Gravity Sewer Pipe	Tallmadge Drive	38,346.00	1	38,346.00
Excavating	1/4/2019	Furnish and Install 4" Dia. SDR26 PVC Sewer Lateral	Tallmadge Drive	4,000.00	1	4,000.00
Excavating	1/4/2019	Connection to Existing Sanitary Sewer Manholes	Tallmadge Drive	1,500.00	1	1,500.00
Excavating	1/4/2019	Miscellaneous Excavation and Backfill	Tallmadge Drive	1,050.00	1	1,050.00
Excavating	1/4/2019	Retainage 10%	Tallmadge Drive	-4,714.60	1	-4,714.60
Total						\$42,431.40

Payment Application 1 Tabulation

Contract No. TD-2018-2; Tallmadge Drive Sewer Replacement

NUMBER	DESCRIPTION	ESTIMATED QUANTITY/UNIT	Iron Eagle Excavating		QUANTITY REQUIRED	QUANTITY PAID	QUANTITY REMAINING	AMOUNT PAID	AMOUNT REMAINING	PERCENT REMAINING	COMMENT
			UNIT COST	AMOUNT							
BASE BID											
1	Sanitary Sewer Bypass Pumping and Flow Control	1 L.S.	\$4,500.00	\$4,500.00	1.00	0.50	0.50	\$2,250.00	\$2,250.00	50.00%	Bypass required to repair manhole and upstream runner
2	Furnish and Install Precast Concrete Manhole	1 EA.	\$6,500.00	\$6,500.00	1.00	0.00	1.00	\$0.00	\$6,500.00	100.00%	Manhole failed vacuum test
3	Pipe	527 L.F.	\$124.50	\$65,611.50	527	308	219	\$38,346.00	\$27,265.50	41.56%	Various unacceptable sags in pipes
4	Furnish and Install 4" Dia. SDR26 PVC Sewer Lateral	40 L.F.	\$100.00	\$4,000.00	40	40	0	\$4,000.00	\$0.00	0.00%	Pay in full
5	Connection to Existing Sanitary Sewer Manholes	1 L.S.	\$3,000.00	\$3,000.00	1.00	0.50	0.50	\$1,500.00	\$1,500.00	50.00%	Downstream connection not sufficient due to leak
6	Demolition of Drop Connection Concrete Encasement	1 C.Y.	\$400.00	\$400.00	0	0	0	\$0.00	\$0.00	0.00%	No concrete encasement encountered
7	Miscellaneous Excavation and Backfill	20 C.Y.	\$10.00	\$200.00	105	105	0	\$1,050.00	\$0.00	0.00%	Pay in full + Additional Quantity
8	Rock Removal	75 C.Y.	\$10.00	\$750.00	0	0	0	\$0.00	\$0.00	0.00%	No rock encountered
TOTAL BASE BID								\$47,146.00	\$37,515.50	44.16%	
(BASED ON ESTIMATED QUANTITIES)											

\$4,714.60 10% Retainage of Amount Completed (Paid)

\$42,431.40 Final Amount Paid

\$42,530.10 Amount Remaining Including Retainage

January 9, 2019

EGMAU18004

Rick Smith, Township Manager
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

**RE: Payment Application No. 2 Recommendation Letter
Tallmadge Drive Sewer Replacement, Contract No. TD-2018-2**

Dear Mr. Smith:

The Contractor, Iron Eagle Excavating, Inc., has submitted a second invoice for work on this project. The invoice is for \$21,326.40, which is approximately equal to 25% of the contract value. This invoice is being submitted for payment immediately upon completion of the following repairs, which are required to be completed by January 25, 2019: repair of 26-linear foot severe sag immediately downstream of MH R-034, repair of infiltration runner immediately downstream of MH R-034, review of potential 20-linear foot sag immediately preceding replaced MH R-033 and repair if needed, repair of replaced MH R-033 manhole such that it passes a vacuum test, and repair of the abandoned MH R-032 pipe to stop the groundwater leak.

Deficiencies were observed in the work performed when the manhole vacuum testing and pipe televising were performed in December 2018. Following discussions with the Township and the Contractor, a Notice of Deficiencies, dated January 3, 2019, was submitted to the Contractor which noted the observed issues and required resolutions. It was discussed that an initial payment of 50% of the contract value would be provided for the work completed, an additional 25% of the contract value would be provided immediately following the correction of major deficiencies by January 25, 2019, and the final 25% of the contract value would be considered following repair of minor deficiencies, or acceptance, if conditions have not changed in retesting in April 2019.

We therefore recommend approval of payment in the amount of \$21,326.40, conditioned that payment not be made until the required January repairs are completed and determined acceptable by the Township.

If you have any questions, please contact me at your convenience.

Sincerely,

PENNONI ASSOCIATES INC.



Michael J. Ellis, PE
Authority Engineer

/edj

Enclosures: Invoice #107
Payment Application 2 Tabulation

cc: Jon Altshul, Assistant Township Manager
Mark Miller, Public Works Director
East Goshen Municipal Authority

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2019.01.09.docx

Iron Eagle Excavating

35 ann street
Highspire, PA 17034

Invoice

Date	Invoice #
1/4/2019	107

Bill To
East Goshen Township

Item	Date	Description	Job site	Rate	Hours	Amount
Excavating	1/4/2019	Sanitary Sewer Bypass Pumping and Flow Control	Tallmadge Drive	4,500.00		4,500.00
Excavating	1/4/2019	Furnish and Install Precast Manhole	Tallmadge Drive	6,500.00		6,500.00
Excavating	1/4/2019	Furnish and Install 4" Dia. SDR26 PVC Sewer Lateral	Tallmadge Drive	4,000.00		4,000.00
Excavating	1/4/2019	Furnish and Install 8" Dia. SDR26 PVC Gravity Sewer Pipe	Tallmadge Drive	51,792.00		51,792.00
Excavating	1/4/2019	Connection to Existing Manholes	Tallmadge Drive	3,000.00		3,000.00
Excavating	1/4/2019	Miscellaneous Excavation and Backfill	Tallmadge Drive	1,050.00		1,050.00
Excavating	1/4/2019	Retainage 10%	Tallmadge Drive	-7,084.20		-7,084.20
Excavating	1/4/2019	Previously Paid	Tallmadge Drive	-42,431.40		-42,431.40
				Total		\$21,326.40

Payment Application 2 Tabulation

Contract No. TD-2018-2; Tallmadge Drive Sewer Replacement

ITEM NUMBER	DESCRIPTION	ESTIMATED QUANTITY/UNIT	Iron Eagle Excavating		QUANTITY		QUANTITY		AMOUNT PAID	AMOUNT REMAINING	PERCENT REMAINING	COMMENT
			UNIT COST	AMOUNT	REQUIRED	PAID	REMAINING	REMAINING				
BASE BID												
1	Sanitary Sewer Bypass Pumping and Flow Control	1	L.S.	\$4,500.00	\$4,500.00	1.00	1.00	0.00	\$4,500.00	\$0.00	0.00%	Pay in full
2	Furnish and Install Precast Concrete Manhole	1	EA.	\$6,500.00	\$6,500.00	1.00	1.00	0.00	\$6,500.00	\$0.00	0.00%	Pay in full
3	Furnish and Install 8" Dia. SDR26 PVC Gravity Sewer Pipe	527	L.F.	\$124.50	\$65,611.50	527	416	111	\$51,792.00	\$13,819.50	21.06%	Repair 10% sags (if required)
4	Furnish and Install 4" Dia. SDR26 PVC Sewer Lateral	40	L.F.	\$100.00	\$4,000.00	40	40	0	\$4,000.00	\$0.00	0.00%	Pay in full
5	Connection to Existing Sanitary Sewer Manholes	1	L.S.	\$3,000.00	\$3,000.00	1.00	1.00	0.00	\$3,000.00	\$0.00	0.00%	Pay in full
6	Demolition of Drop Connection Concrete Encasement	1	C.Y.	\$400.00	\$400.00	0	0	0	\$0.00	\$0.00	0.00%	No concrete encasement encountered
7	Miscellaneous Excavation and Backfill	20	C.Y.	\$10.00	\$200.00	105	105	0	\$1,050.00	\$0.00	0.00%	Pay in full + Additional Quantity
8	Rock Removal	75	C.Y.	\$10.00	\$750.00	0	0	0	\$0.00	\$0.00	0.00%	No rock encountered
					\$84,961.50				\$70,842.00	\$13,819.50	16.27%	
TOTAL BASE BID (BASED ON ESTIMATED QUANTITIES)												

\$7,084.20 10% Retainage of Amount Completed (Paid)

\$63,757.80 75% Payout Value

\$42,431.40 Previously Paid

\$21,326.40 Payment this Application #2

\$21,203.70 Amount Remaining Including Retainage