

EAST GOSHEN MUNICIPAL AUTHORITY

July 10, 2017

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 Inc. Report

4. APPROVAL OF MINUTES

- a. June 12, 2017

5. APPROVAL OF INVOICES

- a. Pennoni Invoice #754473 \$2,726.00
- b. Pennoni Invoice #754474 \$1,173.50
- c. (see attached e-mail)
- d. Pennoni Invoice #754475 \$ 89.25
- e. Pennoni Invoice #754476 \$1,904.00
- f. Delaware River Basin #2101 \$ 610.00 paid

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. June Financial Report

8. OLD BUSINESS

- a.

9. GOALS

- a. Operate the Ridley Creek Sewer Treatment Plant in compliance with NPDES Permit requirements. *January, May, June*

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

10. NEW BUSINESS

- a. Consider the approval for Mike Ellis to prepare bid documents for slip lining and manhole lining.

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

July 7, 2017

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

Monthly Flows: The average daily flow to West Goshen was 801,000 gallons per day.

Meters: Meters were read on a daily basis; The new meter has been installed at the Reservoir Road location. However, we are still waiting on the modem. The portable meters are still in operation.

C.C. Collection: The pump stations were visited on a daily basis, routine maintenance was performed. We replaced the force main manhole on Marie Road. The job went very well; we also installed a charcoal filter in the manhole to eliminate any odors. We bypassed the station that is why we removed the old manhole. We have been mowing the sewer right of ways.

R.C. Collection: Pump Stations were visited on a daily basis, routine maintenance was performed. We completed the paving overlay of the pump station. The neighbor called to tank up for all the work that was done. We had a sewer clog on Beaumont Circle; the clog was caused by roots in the cleanout. Our guys were able to grab the root ball with mechanical spoons. We flushed the lateral to make sure the line was cleared.

R.C. Plant: The security system installation is underway; we had to fabricate a pole in order to get a view of the four SBR's. As I stated last month that the team that Scott has in place has been doing a good job.

Alarms: We responded to 21 alarms for June.

PA One Calls: We received 60 PA One calls in June.

**EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT
July 7, 2017**

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic soda pilot study –
 - There was a significant difference between the jar testing in May and the equivalent caustic soda quantity of soda ash currently being used. We revisited and calculated the estimated caustic soda demand for the pilot study. We are estimating that caustic soda should be fed at 5-6 gallons/hour when the pilot study SBR tank is in a Fill cycle. We recommend a 7.7-gallon/hour pump be acquired for the study. Two 350-gallon totes will allow for a 2.5-3 week trial. We have sent our recommendations to the plant operator for review.
 - A pilot study sampling plan has been requested from Big Fish.
 - Our intent is to begin the pilot study by the week of July 24th.
- SBR tanks CIM coatings –
 - We provided a summary narrative of the SBR tanks' CIM coating bubbling and peeling issues to Supervisor Battavio as an update to the Board of Supervisors. The narrative described that which was discussed at the June Municipal Authority meeting.

Reservoir Road Pump Station

- PADEP issued the State Water Obstruction and Encroachment Permit for the pump station site and Chester Creek utility crossing in June 2016; however, they are requiring a separate federal authorization by the Army Corps of Engineers (ACOE). Due to lack of coordination between PADEP and ACOE, we have had to initiate an application process directly with the ACOE. The ACOE provided lengthy comments and questions on May 5, 2017, including items outside the scope of the Chester Creek encroachment permit application before them such as work at the Ridley Creek, that we are in the process of addressing.

We have continued to address those comments including attending a site walk with Mr. Dave Caplan of the ACOE, obtained confirmation from USFWS that the previous approval of the bog turtle habitat study and exclusionary measures remains valid, obtained a finding of "no impact" from PA Fish & Boat Commission in response to the new PNDI potential endangered species impact, revised plans, and submitted supplemental documentation to the ACOE. We expect to submit the revised plans to ACOE by July 14, 2017, and we are hopeful that this final permit will be issued 30-60 days thereafter.

- The bid document will be finalized and submitted upon receipt of the remaining ACOE permit.
- We will complete a listing of the permits, expiration dates, and renewal deadlines once the ACOE permit is issued.

RCSTP and Pump Stations' O&M Manual

- We have briefly discussed the near-final O&M Manual submission with Mark Miller, and we performed a field visit to the Hunt Country Pump Station to document equipment. We request a budget supplement to conduct a review meeting with Mr. Miller, make edits, incorporate any available information into the Manual to fill in blanks, and produce hard copy sets for use by the PW Department staff.

New Connections

- No activity since last report.

West Goshen Sewer System Consultation

- No activity since last report.



Executive Summary

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

Treatment Process Operation

The treatment process monitoring and adjustments resulted in compliance with the final effluent discharge limitations for outfall 001 during June 2017.

The total phosphorus monthly average was reported as 0.17 mg/L as compared to the permitted limitation of 0.50 mg/L. Total phosphorus discharge concentrations ranged from 0.12 to 0.22 mg/L. The ammonia as nitrogen monthly concentration was reported as 0.170 mg/L as compared to the permit discharge limitation of 2.5 mg/L. The ammonia as N weekly maximum was 0.42 mg/L. The total suspended solids (TSS) monthly concentration was reported as 5 mg/L as compared to the permit discharge limitation of 10 mg/L. The weekly maximum concentration was 7 mg/L as compared to the permit discharge limitation of 15 mg/L.

Table 1 illustrates the final effluent composite sample data reported for the May 2017 DMR. Discharge to Applebrook, Outfall 002, remained discontinued during May and June 2017.

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

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



**RCSTP Monthly Operations
Report:
June 2017**

Table 1

May 2017 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
May 2, 2017	0.285	2.0	4.8	6	14.3	0.180	0.43	0.17	0.40	982	2.9921
May 9, 2017	0.281	2.0	4.7	7	16.4	0.100	0.23	0.15	0.35	1	0.0000
May 18, 2017	0.228	2.5	4.8	6	11.4	0.420	0.80	0.22	0.42	1	0.0000
May 23, 2017	0.316	2.0	5.3	6	15.8	0.111	0.29	0.21	0.55	1	0.0000
May 30, 2017	0.336	2.0	5.6	2	5.6	0.100	0.28	0.12	0.34	18	1.2553
Average	0.289	2.1	5.0	5	12.7	0.182	0.41	0.17	0.41	7	0.8495
Minimum	0.228	2.0	4.7	2	5.6	0.100	0.23	0.12	0.34	1	0.0000
Maximum	0.336	2.5	5.6	7	16.4	0.420	0.80	0.22	0.55	982	2.9921

Table 2

May 2017 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
	Sample Date										
May 2, 2017	0.366	288	879	448	1,367	38.5	118	35.2	107	4.5	13.7
May 9, 2017	0.356	156	476	188	574	33.0	101	34.6	103	6.3	19.2
May 18, 2017	0.448	147	449	224	684	41.2	126	45.6	170	7.0	21.4
May 23, 2017	0.517	121	369	253	772	30.6	93	48.7	210	5.7	17.4
May 30, 2017	0.432	158	482	227	693	38.5	118	47.3	170	6.5	19.8
Average	0.424	174	531	268	818	36.4	111	42.3	152	6.0	18.3
Minimum	0.356	121	369	188	574	30.6	93	34.6	103	4.5	13.7
Maximum	0.517	288	879	448	1367	41.2	126	48.7	210	7.0	21.4



**RCSTP Monthly Operations
Report:
June 2017**

Table 3 presents the available Outfall 001 final effluent data for the month of June 2017. The facility is anticipated to achieve compliance with the discharge permit limitations during the month of June.

Table 3

June 2017 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD₅		TSS		NH₄-N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
June 6, 2017	0.370	2.0	6.2	3	9.3	0.220	0.68	0.13	0.40	1	0.0000
June 9, 2017	0.277			3	6.9						
June 15, 2017	0.286	2.5	6.0	3	7.2	0.171	0.41	0.40	0.95	1	0.0000
June 20, 2017	0.314	2.0	5.2	2	5.2	0.483	1.26	0.13	0.34	1	0.0000
June 27, 2017	0.301										
Average	0.310	2.2	5.8	3	7.1	0.291	0.78	0.22	0.57	1	0.0000
Minimum	0.277	2.0	5.2	2	5.2	0.171	0.41	0.13	0.34	1	0.0000
Maximum	0.370	2.5	6.2	3	9.3	0.483	1.26	0.40	0.95	1	0.0000

During June, the presence of foam conditions on the surface of the SBRs began to decrease with foam concentrations ranging from 40% to 100% of the area. Reduction of filled decants and adjustments to the SBR dissolved oxygen control set points to ensure adequate aeration for nitrification assisted to sustain the final effluent water quality.

There are no anticipated exceedances of the permitted limitations for Outfall 001 for June 2017. There was no discharge from outfall 002. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.



**RCSTP Monthly Operations
Report:
June 2017**

Table 4

June 2017 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
June 6, 2017	0.454	114	432	94	356	40.1	152	59.4	225	5.8	22.0
June 15, 2017	0.374	91.9	348	246	932	51.2	194	58.3	182	7.6	28.8
June 20, 2017	0.405	106	402	52	197	36.6	139	41.1	139	4.0	15.2
June 27, 2017	0.375										
Average	0.402	104	394	131	495	42.6	162	52.9	182	5.8	22.0
Minimum	0.374	92	348	52	197	36.6	139	41.1	139	4.0	15.2
Maximum	0.454	114	432	246	932	51.2	194	59.4	225	7.6	28.8

Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service during May and June. 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. The volume of aluminum sulfate solution to the SBRs decreased to from 90.6 gpd to 86.6 gpd. Soda ash daily addition increased from 268 lbs./day to 405 lbs./day. 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.

Solids Dewatering and Disposal: June 2017

Sludge Dewatering Summary	
Gallons of sludge dewatered	292,141
Number of dumpsters	5

**Twenty three (23) days of centrifuge operation*

Sludge dewatering decreased from 318,706 gallons to 219,141 gallons. A total volume increase of 24,565 gallons.



**RCSTP Monthly Operations
Report:
June 2017**

During June, sludge wasting to the sludge holding tanks and decanting of the sludge holding tanks was ongoing. Process monitoring included pH, total alkalinity and total solids.

Sludge holding tank No. 1 was in service. The level at the beginning of the month was 10.07 feet and the level at the end of the month was 11.63 feet. Four hundred (400) pounds of soda ash were added. The average total solids concentration measured as 0.75%. The average pH and total alkalinity concentrations were measured as 6.74 S.U. and 196 mg/L, respectively.

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 8.18 feet and the level at the end of the month was 8.41 feet. Five hundred and fifty (550) pounds of soda ash were added. The total solids concentration measured as 0.75%. The average pH and total alkalinity concentrations were measured as 7.02 S.U. and 193 mg/L, respectively.

Chemical Usage:

June 2017		
Chemical	Daily Average	Total Monthly
Soda Ash	405	12,150
Aluminum Sulfate solution	86.6	2,597
Polymer (centrifuge)	0.84	19.32

**Twenty three (23) days of centrifuge operation*

Flow data:

June 2017			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	12.118	403,492	587,240
Influent Wastewater to SBRs	13.199	439,970	573,760
Internal Recycle	0.951	33,962	82,952
Treated Effluent to Disc Filters	13.265	442,178	502,016
Final Effluent Discharge	9.387	312,900	370,000
Applebrook Golf Course	No Discharge	No Discharge	No Discharge



Significant Storm/Hydraulic Loading Events

During June, there were five (5) storm events resulting in a daily precipitation amount equal to or greater than 0.5 inches measured during a 24 hour period. A total of 2.89 inches of rainfall measured during the month. These events occurred on:

June 6 th	0.54 inches
June 20 th	0.99 inches
June 24 th	>1.00 inches

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

PA DEP

No activity. The May 4th inspection report has not been received.

Minor Repairs and Preventative Maintenance

Flushed chemical feed lines to the SBRs.

Cleaned SBR blower room and organized parts

Look Ahead Preventative Maintenance Activities

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

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
June 12, 2017

The East Goshen Township Municipal Authority held their regular public meeting on Monday, June 12, 2017 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Ed McAssey, Jack Yahraes, and Phil Mayer. Also in attendance were: Rick Smith (Township Manager), Carmen Battavio (Township Supervisor), Mike Ellis (Pennoni), Patrick McKenna (Attorney), and Walter Wujcik, Conservancy Board.

COMMON ACRONYMS:

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

Call to Order & Pledge of Allegiance

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

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

Chairman's Report

Phil reported that West Goshen had as executive session before their meeting about the EPA. The EPA is holding firm to their requirement of .04 but the judge hasn't made a decision.

Sewer Reports

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

Monthly Flows: The average daily flow to West Goshen was 804,000 gallons per day.

Meters: Meters were read on a daily basis. The Ellis Lane meter went down for two weeks due to the modem failure. Sue spent many pain staking hours trying to get Verizon to fix the problem. Allied Control finally had Verizon follow through with the new sim cards to get the modem up and running again. The portable flow meters are still in place and being read weekly.

C.C. Collection: The pump stations were visited on a regular basis with no problems to report. The wet wells were cleaned by an outside contractor. The grit was taken to DELCORA for disposal. We replaced two castings and lids in Hershey Mill Estates. We had two sewer lateral repairs to replace traps and cleanouts.

R.C. Collection: Pump stations were visited on a daily basis with no problems to report. As part of our routine maintenance the wet well was cleaned. The sewer lateral was installed at 1662 East Boot Road. This was the one that has several parties involved.

R.C. Plant: Scott and the new operator have been sending me daily reports on all the work being done as well as the lab reports for what they have tested that day. The new personnel

on site are doing a good job. We have received the materials to do the wet taps. The new trailer mounted pump has arrived.

Alarms: We responded to 22 alarms for May.

PA One Calls: We received 86 PA One calls for May.

Mark brought the new trailer mounted pump to the township building for the Authority members to see before tonight's meeting.

2. Pennoni Engineer's Report for May

Mike Ellis provided the following report.

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic soda pilot study –
 - We met with Mark Miller and John Laidley (controls contractor) on May 9 and determined the controls and electrical systems for the caustic soda chemical feed pump pilot study as well as options for the configuration of a future, permanent caustic feed system. It is our understanding that an electric line was run and an outlet installed at the location of the proposed pilot study feed pump after the meeting.
 - Coyne Chemical and Big Fish performed jar testing on May 23. According to Big Fish, one sample was taken from SBR #4 during the React phase, and 25% caustic soda was added until it reached a pH of 7.0. Alkalinity could not be tested due to problems with the titration equipment. Coyne estimated that the entire plant will need 1.75 GPD of 25% caustic soda based on a flow of 350,000 GPD. However, we had expected the demand to be around 125 GPD based on the current amount of soda ash being used. We are coordinating with Coyne and Big Fish to resolve this discrepancy and to determine an initial feed rate and quantity of caustic soda required for the pilot study.
 - We had selected a chemical feed pump for the Township to acquire for the pilot study based upon our expected 125 GPD demand to pump at approximately 0.3 GPM (17.6 gallons/hr) during the Fill stage only. The spare LMI pump at the plant is only rated for 1 gallon/hr.
 - A pilot study sampling plan has been requested from Big Fish.
 - The intent is still to tap the SBR influent pipe and install the system upon resolution of the chemical feed amount and feed pump selection. The pilot study is expected to be run for 3-4 weeks. Our goal is to begin the pilot study in June.
- SBR tanks CIM coatings –
 - We have researched the SBR tanks' CIM coating bubbling and peeling issues further and have continued coordination with Dutchland. The coating was installed by Dutchland in July-August 2009 and had a 10-year warranty, so it is therefore still under warranty. We are reviewing the warranty document to revisit conditions and if there is an extended period of coverage.

- Background – The concrete wall panels were precast and pre-stressed, and the walls were post-tensioned. There were hairline cracks that occurred in the walls of the structure allowing some liquid to penetrate through the walls causing concern that it would eventually corrode the rebar and cause spalling. Dutchland originally attempted to coat the cracks with a cementitious Sika product that quickly cracked when loaded. They next attempted to grind out each crack and fill it with a Sika 1A / Sikaflex caulk material which also failed under loading. At that point, they proposed coating the interior of the wall with CIM under the premise that the material would remain flexible and not crack and fail under loading, although this is not a traditional application for CIM. Prior to the issues with the cracks in the walls, Dutchland used Sika on the joints between the precast walls and poured in place floor slab. They also used it on the saw cut expansion joints in the floor slab.

The CIM applied to the joint between the floor slab and the wall and along the expansion joint in the floor was applied by Dutchland personal. The CIM coatings on the walls were applied by Dutchland's subcontractor, CIM East Coast. It is our understanding that CIM East Coast was an authorized supplier and installer by the CIM manufacturer. They employed quality control for the application of the CIM coating on the walls that appeared to be stringent per our observations. For example, the material was only applied at night due to temperature and UV concerns, and they used wet mill gauges to check the thicknesses.

- To-date, we have not observed any spalling of concrete. Our expectation is that the coating deterioration observed up to this point can continue to be spot repaired, but the ultimate repair once the coating reaches the end of its useful life will be to completely remove and replace with a new coating, possibly a different material.

Reservoir Road Pump Station

- PADEP issued the State Water Obstruction and Encroachment Permit for the pump station site and Chester Creek utility crossing in June 2016; however, they are requiring a separate federal authorization by the Army Corps of Engineers (ACOE). Due to lack of coordination between PADEP and ACOE, we have had to initiate an application process directly with the ACOE. The ACOE provided lengthy comments and questions on May 5, 2017, including items outside the scope of the Chester Creek encroachment permit application before them such as work at the Ridley Creek, that we are in the process of addressing. We have discussed the comments and our responses on several occasions thereafter with the ACOE reviewer, Dave Caplan. Due to the amount of time that has passed since permitting work was initially performed on this project, certain timeframes have expired since PADEP issued their permit in June 2016 including wetland delineations, PNDI environmental review, and the USFWS bog turtle habitat study approval. We have therefore performed limited field work to revisit the wetland delineations (no changes observed), prepare new wetland field notes requested by ACOE, ran a new PNDI search, and made a new submission to USFWS to re-approve the bog turtle study and proposed exclusionary measures. We are awaiting a response from USFWS. We are meeting with Mr. Caplan at the site on June 19 per his request. We expect that some plan and permit application revisions will be needed following the meeting.
- The bid document will be finalized and submitted upon receipt of the remaining ACOE permit.

- We will complete a listing of the permits, expiration dates, and renewal deadlines once the ACOE permit is issued.

RCSTP and Pump Stations' O&M Manual

- We researched 12 boxes of historical plans, design information, permits, and correspondence, amongst other things, from the Township. We also performed a field visit to the recently upgraded Hunt Country Pump Station to obtain equipment information, and we contacted vendors to obtain additional equipment information. The Manual has been updated to address the research, add Hunt Country Pump Station information, and incorporate comments from Mark Miller. An updated copy of the Manual has been submitted to the Township for review with a list of items and information needed to complete the document.

White Chimneys Manhole Replacement

- We will provide assistance as requested by the Township during construction

New Connections

- No activity since last report.

West Goshen Sewer System Consultation

- No activity since last report.

Discussion regarding CIM coatings - Carmen mentioned that when the concrete was initially installed the contractor had to stop several times due to the weather. He feels this is a warranty issue and they are making repairs but should replace instead. He asked the Authority to look into this. He feels the original concrete was moved before it was set. Rick will get the necessary data for Patrick to look at.

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

Approval of Minutes

The minutes of the May 8, 2017 meeting were approved as amended.

Approval of Invoices

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

- | | | |
|----|-----------------|------------|
| a. | Pennoni #749368 | \$2,083.00 |
| b. | Pennoni #749370 | \$2,665.25 |
| c. | Pennoni #749371 | \$ 140.00 |
| d. | Pennoni #749372 | \$1,146.00 |
| e. | Pennoni #749373 | \$1,723.25 |

1 Jack seconded the motion. The motion passed unanimously.

2 2. Phil moved to approve payment of the following Gawthrop invoice:

3 a. Gawthrop Invoice #181038 \$1,640.00

4 Ed seconded the motion. The motion passed unanimously.

5
6 Phil moved to increase the Pennoni budget for Reservoir Road Pump Station by \$6,000.00 for
7 legitimate expenses. Jack seconded the motion. The motion passed unanimously.

8 **Liaison Report**

9 **Conservancy Board** – Walter reported that at their next meeting they will discuss comments from
10 Marydell residents, who came to the last meeting, about trees that were planted near the pond in
11 Marydell.

12 **Board of Supervisors** – There will be a public meeting on June 27, 2017 at 7:00 pm at Fugett Middle
13 School. Emergency services will present how pipeline situations will be handled.
14
15

16 **Financial Reports**

17 Jon Altshul provided the following written report:

18 In May 2017, the Municipal Authority recorded \$816.34 in interest income and \$233,400 in expenses
19 for a negative variance of \$232,584. Expenses included \$221,519 from the proceeds of the 2013
20 bonds for capital improvements at West Goshen STP; \$8,212 for general engineering; \$2,407 for
21 legal services; and \$1,262 for engineering costs related to the Reservoir road Pump Station.

22 As of May 31, the fund balance was \$1,199,475 of which \$1,146,913 is in the main construction
23 account (most of which represents the 2013 note.)

24 East Goshen was awarded a AAA credit rating from Moody's for its 2017 Series Bonds. We expect
25 to hold the competitive sale in early July.
26

27 **Goals**

28 Goals for 2017 were reviewed. Jack will attend the July West Goshen Sewer Authority meeting.
29

30 **Old Business**

31 **West Goshen Sewer Authority** - Rick provided copies of the final draft of the Memorandum
32 Agreement No. VIII dated June 8, 2017 which addresses how East Goshen will fund its share of
33 improvements and upgrades to the West Goshen Sewer Treatment Plant and those parts of their sewer
34 system that we utilize.

35 On June 6, 2017 the Board of Supervisors adopted a Debt Parameters Ordinance which outlines the
36 parameters under which East Goshen will borrow funds to pay for our share of the costs.

37 Rick pointed out some changes that were made to the Agreement. The East Goshen and West
38 Goshen staff and respective attorneys and engineers have reviewed the agreement. Phil moved to
39 approve the Memorandum Agreement No. VIII and forward to the Board of Supervisors. Jack
40 seconded the motion. The motion passed unanimously.
41

42 **Adjournment**

43 There being no further business, Jack moved to adjourn the meeting. Phil seconded the motion. The
44 meeting was adjourned at 8:15 pm. The next meeting will be held on Monday, July 10, 2017 at 7:00
45 pm.
46

1 Respectfully submitted,
2
3
4
5 Ruth Kiefer
6 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 # : 754473
Invoice Date : 06/29/2017
Project : EGMA1504
Project Name : Reservoir Rd PS Design & Permitting

For Services Rendered through: 6/18/2017

Army Corps of Engineers (ACOE) permitting work in response to ACOE comments: performed field re-delineation of wetlands, prepared wetlands data forms, and submitted to ACOE; prepared and submitted agency notification letters to PA Fish & Boat Commission per new PNDI Search requirement and to US Fish & Wildlife Service (USFWS) to re-confirm bog turtle habitat preventative approach approval; received USFWS clearance confirmation; and prepared for field meeting with ACOE.

Phase : 12 -- Permitting

Total Phase : 12 -- Permitting

Labor :	2,726.00
Expense :	0.00
Phase Total :	2,726.00

Amount Due This Invoice

\$2,726.00

Phase : 12 -- Permitting

Labor

<i>Class</i>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	2.75	119.00	327.25
Sr. Environmental Scientist	23.75	101.00	2,398.75
Labor Total:	26.50		2,726.00

Total Phase : 12 -- Permitting

Labor :	\$2,726.00
Expense :	\$0.00

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

Labor :	\$2,726.00
Expense :	\$0.00

PS

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

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 6/29/2017

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 754473
Invoice Period: 5/15/2017 to 6/18/2017
Initial Authorization: \$ 167,120.00 **Date:** 6/29/2017
Contract Amount: \$ 193,200.00
Previously Invoiced: \$ 187,036.00
Current Invoice: \$ 2,726.00
Invoiced to Date (\$): \$ 189,762.00
Invoiced to Date (%): 98.22%
Remaining Budget (\$): \$ 3,438.00
Remaining Budget (%): 1.78%

Budget by Phase:

Phase Name:	Permitting	Phase 12
Phase Budget:	\$ 50,940.25	
Previously Invoiced:	\$ 45,033.00	
Current Invoice:	\$ 2,726.00	
Invoiced to Date (\$):	\$ 47,759.00	
Invoiced to Date (%):	93.75%	
Remaining Budget (\$):	\$ 3,181.25	
Remaining Budget (%):	6.25%	

Comments: Army Corps of Engineers (ACOE) permitting work in response to ACOE comments: performed field re-delineation of wetlands, prepared wetlands data forms, and submitted to ACOE; prepared and submitted agency notification letters to PA Fish & Boat Commission per new PNDI Search requirement and to US Fish & Wildlife Service (USFWS) to re-confirm bog turtle habitat preventative approach approval; received USFWS clearance confirmation; and prepared for field meeting with ACOE.

Reservoir Road Pump Station Design & Permitting

INVOICE SUMMARY

For Services Rendered through: 6/18/2017

Task No.	Activity	Contract Amount*	Invoiced Effort thru 3/19/2017	Remaining Budget (\$)	Remaining Budget (%)	Completed?
1	Concept Design	\$13,655.75	\$13,655.75	-	-	Yes
2	DEP WQM Pre-App. Meeting	\$1,300.00	\$1,300.00	-	-	Yes
3	Existing Conditions Survey	\$22,783.75	\$22,783.75	-	-	Yes
4	Sewer Stakeout in Easements	\$0.00	\$0.00	-	-	Scope eliminated
5	1636 Bow Tree Dr. Boundary Survey & Easement	\$4,020.00	\$4,020.00	-	-	Yes
6	Additional Boundary Surveys & Easements	\$0.00	\$0.00	-	-	Scope eliminated
7	Geotechnical Borings	\$4,000.00	\$4,000.00	-	-	Yes
8	Install Permanent Survey Benchmarks	\$0.00	\$0.00	-	-	Scope eliminated
9	Progress Design	\$29,450.00	\$29,450.00	-	-	Yes
10	Infiltration Testing	\$1,800.00	\$1,800.00	-	-	Yes
11	Final Design	\$65,170.25	\$64,993.50	\$176.75	0.3%	No**
12	Permitting	\$50,940.25	\$47,759.25	\$3,181.00	7%	No***
	TOTAL	\$193,120.00	\$189,762.25	\$3,357.75	2%	

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

**Need to complete Bid Form and assemble full bid document package for Township once remaining permits are issued.

*** All permit applications have been submitted, and we are awaiting issuance of one remaining permit: Army Corps of Engineers federal authorization on the Chester Creek Small Projects Joint Permit.



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 # : 754474
Invoice Date : 06/29/2017
Project : EGMA1505
Project Name : RCSTP and Pump Station O&M Manual

For Services Rendered through: 6/18/2017

Completed review and scanning of 15 boxes of historical sewer system and pump stations' planning, design, permitting, and equipment documentation; completed incorporation of relevant historical information into the O&M Manual; performed a site visit to the Hunt Country Pump Station to document existing conditions and equipment and updated the Manual accordingly; submitted a near-final draft of the Manual to the PW Director for review with a list of information needed to complete the Manual.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,173.50
Expense :	0.00
Phase Total :	1,173.50

Amount Due This Invoice

\$1,173.50

Fee :	13,673.50
Prior Billings :	12,259.75
Current Billings :	1,173.50
Total Billings :	13,433.25

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.00	119.00	119.00
Project Engineer	4.50	101.00	454.50
Graduate Professional	7.50	80.00	600.00
Labor Total:	13.00		1,173.50

Total Phase : **** -- Professional Services

Labor :	\$1,173.50
Expense :	\$0.00

Total Project : EGMA1505 -- RCSTP and Pump Station O&M Manual

Labor :	\$1,173.50
Expense :	\$0.00

RS - SEE ATTACHED
E-MAIL

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

East Goshen Municipal Authority
EGMA1505 Invoice Summary
Invoice Date 6/29/2017

Project: EGMA1505
Pennoni Job No.: RCSTP & Pump Station O&M Manual
Invoice No: 754474
Invoice Period: 5/15/2017 to 6/18/2017
Initial Authorization: \$ 12,500.00 **Date:** 6/29/2017
Contract Amount: \$ 13,673.50
Previously Invoiced: \$ 12,259.75
Current Invoice: \$ 1,173.50
Invoiced to Date (\$): \$ 13,433.25
Invoiced to Date (%): 98%
Remaining Budget (\$): \$ 240.25
Remaining Budget (%): 2%

Budget by Phase:

Phase Name: RCSTP & Pump Station O&M Manual
Phase Budget: \$ 13,673.50
Previously Invoiced: \$ 12,259.75
Current Invoice: \$ 1,173.50
Invoiced to Date (\$): \$ 13,433.25
Invoiced to Date (%): 98%
Remaining Budget (\$): \$ 240.25
Remaining Budget (%): 2%

Comments: Completed review and scanning of 15 boxes of historical sewer system and pump stations' planning, design, permitting, and equipment documentation; completed incorporation of relevant historical information into the O&M Manual; performed a site visit to the Hunt Country Pump Station to document existing conditions and equipment and updated the Manual accordingly; submitted a near-final draft of the Manual to the PW Director for review with a list of information needed to complete the Manual.

Rick Smith

From: Michael Ellis <MEllis@Pennoni.com>
Sent: Friday, July 07, 2017 12:12 AM
To: Rick Smith
Cc: Mark Miller (mmiller@eastgoshen.org); 'ssmith@eastgoshen.org'
Subject: Pennoni Invoices - Municipal Authority - June 2017
Attachments: EGMA Invoices (06-2017).pdf

Hi Rick,

Current Municipal Authority invoices are attached.

As discussed at the last two MA meetings, we had reached budget on the O&M Manual project. The additional work to review and scan documentation from 15 historical boxes of pump station and sewer system info and to incorporate it into the Manual pushed the effort \$1,673.50 over the originally estimated budget of \$12,000. The attached invoice for the project includes this additional effort.

Mark and I have briefly discussed the draft Manual that was submitted for review last month. The Manual is considered to be near-complete. We discussed that we should meet for a final review of it, gather any remaining accessible information to fill in blanks, make other limited updates, and print out & bind copies of the Manual for the PW Dept. We will complete that final review meeting and revisions in an additional approx 15 hours.

We therefore request a supplement of \$3,000 to cover the effort-to-date and the remaining effort (new budget amount of \$15,000). We will make revisions and copies of the Manual to the extent the supplement allows.

The Manual can be revisited thereafter in about 12 months with Mark after it's been in use for a year, and additional updates can be made to it at that time.

Thanks,
Mike

Michael Ellis, PE
Municipal Division Manager

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



PARTNERS FOR WHAT'S POSSIBLE

7/7/17
MARK AND I RECCOMEND
YOU APPROVE THE ADDITIONAL
FUNDING WHICH WILL
ALLOW US TO COMPLETE
THIS GOAL



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 # : 754475
Invoice Date : 06/29/2017
Project : EGMA1605
Project Name : White Chimneys MH Replacement

For Services Rendered through: 6/18/2017

Responded to questions from PW Director about proposed manhole replacement.

Phase : **** -- Design Phase

Total Phase : **** -- Design Phase

Labor :	89.25
Expense :	0.00
Phase Total :	89.25

Amount Due This Invoice

\$89.25

Fee :	8,000.00
Prior Billings :	4,726.00
Current Billings :	89.25
Total Billings :	4,815.25

Phase : **** -- Design Phase

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	0.75	119.00	89.25
Labor Total:	0.75		89.25

Total Phase : **** -- Design Phase

Labor :	\$89.25
Expense :	\$0.00

Total Project : EGMA1605 -- White Chimneys MH Replacement

Labor :	\$89.25
Expense :	\$0.00

RS

East Goshen Municipal Authority
EGMA1605 Invoice Summary
Invoice Date 06/29/2017

Project: EGMA1605
Pennoni Job No.: White Chimneys MH Replacement
Invoice No: 754475
Invoice Period: 6/20/2016 to 6/18/2017
Initial Authorization: \$ 8,000.00 **Date:** 6/29/2017
Contract Amount: \$ 8,000.00
Previously Invoiced: \$ 4,726.00
Current Invoice: \$ 89.25
Invoiced to Date (\$): \$ 4,815.25
Invoiced to Date (%): 60%
Remaining Budget (\$): \$ 3,184.75
Remaining Budget (%): 40%

Budget by Phase:

Phase Name: White Chimneys MH Replacement
Phase Budget: \$ 8,000.00
Previously Invoiced: \$ 4,726.00
Current Invoice: \$ 89.25
Invoiced to Date (\$): \$ 4,815.25
Invoiced to Date (%): 60%
Remaining Budget (\$): \$ 3,184.75
Remaining Budget (%): 40%

Comments: Responded to questions from PW Director about proposed manhole replacement.



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 # : 754476
Invoice Date : 06/29/2017
Project : EGMA1701
Project Name : 2017 General Services

For Services Rendered through: 6/18/2017

Prepared June Engineer's Report, reviewed June RCSTP operator's report, and attended June MA meeting.

RCSTP SBR Tanks CIM Coatings - Researched history of coatings including installation rationale, deficiencies, and warranty information; discussed coatings condition evaluation and rehabilitation alternatives with coating manufacturer; prepared budgetary cost estimate for coating replacement; and prepared coating summary narrative for Board of Supervisors.

RCSTP Caustic Soda Pilot Study - Coordinated for jar testing with Coyne Chemical and Big Fish, reviewed results of testing, evaluated inconsistent results vs. expectations, calculated expected caustic soda demand and feed rate based on additional data from Big Fish; and recommended chemical feed pump sizing.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,904.00
Expense :	0.00
Phase Total :	1,904.00

Amount Due This Invoice

\$1,904.00

Fee :	12,700.00
Prior Billings :	7,990.75
Current Billings :	1,904.00
Total Billings :	9,894.75

RS

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

Labor	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
<i>Class</i>			
Authority Engineer	12.00	119.00	1,428.00
Senior Professional	2.00	114.00	228.00
Senior Professional	2.00	114.00	228.00
Graduate Professional	0.25	80.00	20.00
Labor Total:	16.25		1,904.00

Total Phase : **** -- Professional Services

Labor : \$1,904.00

Expense : \$0.00

Total Project : EGMA1701 -- 2017 General Services

Labor : \$1,904.00

Expense : \$0.00

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



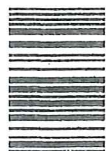
Delaware River Basin Commission
P.O. Box 7360
West Trenton, NJ 08628-0360

51758

Letter Date: 06/07/2017
Invoice ID: 2101
Customer ID: 3803
Docket Number: D-1984-056 CP
Amount Due: \$ 610.00
Due Date: 7/21/17

June 7, 2017

APPROVED BY: (Signature)
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07424 3000



000350 L2Z21TMJ
East Goshen Municipal Authority
C/O Business Administrator
1580 Paoli Pike
West Chester, PA 19380-6107



For Additional Information:
Website: www.drbc.net/fees
Email: annualfee@drbc.nj.gov
Phone: 609-883-9500

PAID

Dear Docket Holder:

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

If an entity has received an Approval (or Approvals) for both water allocation and wastewater discharge activities, separate invoices will be issued for these separate activities. This invoice includes the annual fee for the facility and activity identified below for calendar year 2017. The invoiced amount was calculated based on the monthly allocation (in MGM) or daily discharge capacity (in MGD) approved as of January 1, 2017.

This invoice pertains to the Daily Discharge Capacity approved by D-1984-056 CP and is based on an amount of 0.400 MGD.

Detach here and return coupon with payment

East Goshen Municipal Authority

Amount Enclosed: \$ _____

Please make check payable to:
Delaware River Basin Commission

Letter Date: 06/07/2017
Invoice ID: 2101
Customer ID: 3803
Docket Number: D-1984-056 CP
Amount Due: \$ 610.00
Due Date: 7/21/17



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

☐ Check here to indicate address change and complete form on reverse.

0000003803800000021019900000007212017000000000610002

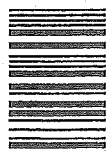


Delaware River Basin Commission
P.O. Box 7360
West Trenton, NJ 08628-0360

APPROVED BY: RS
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07424.3000

June 7, 2017

Letter Date: 06/07/2017
Invoice ID: 2181
Customer ID: 31
Docket Number: D-2000-030 CP
Amount Due: \$ 610.00
Due Date: 7/21/17



000430 L2Z21TMJ
East Goshen Municipal Authority
C/O Business Administrator
1580 Paoli Pike
West Chester, PA 19380-6107



For Additional Information:
Website: www.drbc.net/fees
Email: annualfee@drbc.nj.gov
Phone: 609-883-9500

Dear Docket Holder:

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

If an entity has received an Approval (or Approvals) for both water allocation and wastewater discharge activities, separate invoices will be issued for these separate activities. This invoice includes the annual fee for the facility and activity identified below for calendar year 2017. The invoiced amount was calculated based on the monthly allocation (in MGM) or daily discharge capacity (in MGD) approved as of January 1, 2017.

This invoice pertains to the Daily Discharge Capacity approved by D-2000-030 CP and is based on an amount of 0.750 MGD.

Detach here and return coupon with payment

East Goshen Municipal Authority

Amount Enclosed: \$ _____

Please make check payable to:
Delaware River Basin Commission

Letter Date: 06/07/2017
Invoice ID: 2181
Customer ID: 31
Docket Number: D-2000-030 CP
Amount Due: \$ 610.00
Due Date: 7/21/17



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

☐ Check here to indicate address change and complete form on reverse.

000000003120000002181900000007212017000000000610009

3871 DELAWARE RIVER BASIN COMMISSIO

Date	Invoice No.	Description	GL Account #	Amt Paid
06/07/17	2101	D-1984-056 CP ANNUAL FEE - WATER	07424-3000	610.00
06/07/17	2181	D-2000-030 CP ANNUAL FEE - WATER	07424-3000	610.00

Vendor 3871 Check Date 06/29/17 Check# 3058 Net Amount 1,220.00

One Thousand Two Hundred Twenty and 00/100 *****

06/29/17 ***1220.00*

DELAWARE RIVER BASIN COMMISSION
P.O. BOX 788801
PHILADELPHIA PA 19178-8801

East Goshen Municipal Authority
EGMA1701 Invoice Summary
Invoice Date 6/29/2017

Project: EGMA1701
Pennoni Job No.: 2017 General Services
Invoice No: 754476
Invoice Period: 5/15/2017 to 6/18/2017
Initial Authorization: \$ 12,700.00 **Date:** 6/29/2017
Contract Amount: \$ 12,700.00
Previously Invoiced: \$ 7,990.75
Current Invoice: \$ 1,904.00
Invoiced to Date (\$): \$ 9,894.75
Invoiced to Date (%): 78%
Remaining Budget (\$): \$ 2,805.25
Remaining Budget (%): 22%

Budget by Phase:

Phase Name: 2017 General Services
Phase Budget: \$ 12,700.00
Previously Invoiced: \$ 7,990.75
Current Invoice: \$ 1,904.00
Invoiced to Date (\$): \$ 9,894.75
Invoiced to Date (%): 78%
Remaining Budget (\$): \$ 2,805.25
Remaining Budget (%): 22%

Comments: Prepared June Engineer's Report, reviewed June RCSTP operator's report, and attended June MA meeting.

RCSTP SBR Tanks CIM Coatings - Researched history of coatings including installation rationale, deficiencies, and warranty information; discussed coatings condition evaluation and rehabilitation alternatives with coating manufacturer; prepared budgetary cost estimate for coating replacement; and prepared coating summary narrative for Board of Supervisors.

RCSTP Caustic Soda Pilot Study - Coordinated for jar testing with Coyne Chemical and Big Fish, reviewed results of testing, evaluated inconsistent results vs. expectations, calculated expected caustic soda demand and feed rate based on additional data from Big Fish; and recommended chemical feed pump sizing.

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA June Financial Report
Date: July 5, 2017

In June, the Municipal Authority recorded \$843.89 in interest income and \$18,341.50 in expenses, for a negative variance of \$17,497.61. Expenses included \$2,805 for general engineering, \$3,363 for legal services, \$1,220 for the Delaware River Basin Commission, \$2,083 for engineering costs related to the Reservoir Road Pump Station and \$1,146 for Pennoni in support of the West Goshen project.

As of June 30th, the fund balance was \$1,181,977 of which \$1,144,516 is in the main construction account (most of which represents the 2013 note).

The competitive bond sale is scheduled for Tuesday, July 11th at 11am. I will provide information of the results shortly thereafter.

A complete list of all year-to-date expenses and revenues is provided.

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

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - CAPITAL				
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - 2013 NOTES (FULTON BANK)			1,180,318.57	
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE DNB CAPITAL ACCOUNT			1,146,912.96	
			33,405.61	
CAPITAL:				
REVENUE				
INTEREST EARNED - CONSTRUCTION	07341 1020	3,250.00	843.23	4,387.26
TOTAL REVENUE		3,250.00	843.23	4,387.26
EXPENSES				
C.C. CAPITAL - COLLECTION	07424 7420	212,486.00	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0.00	2,083.00	10,989.50
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
WEST GOSHEN CAPITAL	07429 6100	0.00	1,146.00	222,665.48
TOTAL EXPENSES		212,486.00	3,229.00	233,654.98
NET CAPITAL		(209,236.00)	(2,385.77)	(229,267.72)
MUNICIPAL AUTHORITY ENDING FUND BALANCE - CAPITAL				
MUNICIPAL AUTHORITY ENDING FUND BALANCE - 2013 NOTES (FULTON BANK)			1,177,932.80	
MUNICIPAL AUTHORITY ENDING FUND BALANCE DNB CAPITAL ACCOUNT			1,144,516.21	
			33,416.59	

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

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING:				
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - OPERATING (BB&T)			19,156.45	
REVENUE				
INTEREST EARNINGS	07341 1000	10.00	0.66	6.81
C.C. TAPPING FEES	07364 1100	14,296.00	0.00	4,000.00
CONNECTION FEES - SEWER	07364 1130	0.00	0.00	1,692.00
TRANSFER FROM SEWER OPERATING	07392 0500	100,755.00	0.00	65,000.00
TOTAL REVENUE		115,061.00	0.66	70,698.81
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	31,620.00	7,724.00	15,448.00
MISCELLANEOUS EXPENSE	07424 3000	2,500.00	1,220.00	2,207.52
MUNIC.AUTH.-AUDITING	07424 3110	9,078.00	0.00	9,200.00
ENGINEERING SERVICES	07424 3130	37,500.00	2,805.25	38,145.50
LEGAL SERVICES	07424 3140	9,250.00	3,363.25	10,103.16
M.C.-DVRFA-DEBT SERVICE	07471 1000	26,320.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1010	2,043.00	0.00	0.00
TOTAL EXPENSES		118,311.00	15,112.50	75,104.18
NET OPERATING		(3,250.00)	(15,111.84)	(4,405.37)
MUNICIPAL AUTHORITY ENDING FUND BALANCE - OPERATING			4,044.61	
MUNICIPAL AUTHORITY ENDING FUND BALANCE CAPITAL + OPERATING			1,181,977.41	

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000		INTEREST EARNINGS			0.00				
	1701	JE 56730		0.23		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
	1701		0.00	0.23	-0.23				
	1702	57134		0.06		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
	1702		0.00	0.06	-0.29				
	1703	57173		3.23		03/08/17	INTEREST		ADD'L INTEREST ADDED FROM JAN. 2017
		57549		0.61		04/05/17	INTEREST		INTEREST EARNED MARCH 2017 07 FUND
	1703		0.00	3.84	-4.13				
	1704	57927		1.06		05/03/17	INTEREST		INTEREST EARNED APRIL 2017 07 FUND
	1704		0.00	1.06	-5.19				
	1705	58423		0.96		06/02/17	INTEREST		INTEREST EARNED MAY 2017 07 FUND
	1705		0.00	0.96	-6.15				
	1706	58876		0.66		07/03/17	INTEREST		INTEREST EARNED JUNE 2017 07 FUND
	1706		0.00	0.66	-6.81				
07341-1000	****	*** ****	0.00	6.81	-6.81				
07341-1020		INTEREST EARNED - CONSTRUCTION			0.00				
	1701	56730		594.59		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
	1701		0.00	594.59	-594.59				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1020	1702	JE	57134		536.20		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
	1702			0.00	536.20	-1,130.79				
	1703		57549		743.58		04/05/17	INTEREST		INTEREST EARNED MARCH 2017 07 FUND
	1703			0.00	743.58	-1,874.37				
	1704		57927		854.28		05/03/17	INTEREST		INTEREST EARNED APRIL 2017 07 FUND
	1704			0.00	854.28	-2,728.65				
	1705		58423		815.38		06/02/17	INTEREST		INTEREST EARNED MAY 2017 07 FUND
	1705			0.00	815.38	-3,544.03				
	1706		58876		843.23		07/03/17	INTEREST		INTEREST EARNED JUNE 2017 07 FUND
	1706			0.00	843.23	-4,387.26				
07341-1020	****	***	****	0.00	4,387.26	-4,387.26				
07364-1100	C.C.		TAPPING FEES			0.00				
	1704		57798		2,000.00		04/25/17	RECLASS		RECLASS TAP IN FEE
		RE	57797		2,000.00		04/25/17	57797 1		SEWER TAP IN - 5 SCHOOL LN C.C. TAPPING FEES
	1704			0.00	4,000.00	-4,000.00				
07364-1100	****	***	****	0.00	4,000.00	-4,000.00				
07364-1110	R.C.		TAPPING FEES			0.00				
		JE	57798	2,000.00			04/25/17	RECLASS		RECLASS TAP IN FEE
		RE	57795		2,000.00		04/25/17	57795 1		SEWER TAP IN - 3 SCHOOL LN
	1704			2,000.00	2,000.00	0.00				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07364-1110	****	***	****	2,000.00	2,000.00	0.00				
07364-1130						0.00				
			CONNECTION FEES - SEWER							
	1702	CR	56762		423.00		02/07/17	125 25	10162	1 JACOBS, ROBERT & CHERYL
			56823		423.00		02/13/17	125 26	10160	1 GEORGE SMITH & CHRISTINA CONLE
					423.00		02/13/17	125 27	10161	1 STOFFLET, MICHAEL
		**		0.00	846.00	***				
1702				0.00	1,269.00	-1,269.00				
1703			57212		423.00		03/09/17	125 54	10163	1 PAPPANO, JOSEPH & PATRICIA
1703				0.00	423.00	-1,692.00				
07364-1130	****	***	****	0.00	1,692.00	-1,692.00				
07392-0500						0.00				
			TRANSFER FROM SEWER OPERATING							
	JE		57171		25,000.00		03/08/17	DEPOSIT		DEPOSIT FR: SEWER TO MUNICIPAL
1703				0.00	25,000.00	-25,000.00				
1704			57579		40,000.00		04/06/17	DEPOSIT		DEPOSIT TO MA ACCT.7100.1000
1704				0.00	40,000.00	-65,000.00				
07392-0500	****	***	****	0.00	65,000.00	-65,000.00				
07424-1400						0.00				
			ADMINISTRATIVE WAGES							
	1703	CD	57378	7,724.00			03/22/17	3048		425 EAST GOSHEN TOWNSHIP - GENERAL QTR.1 2017 REIMBURSEMENT FROM MA
1703				7,724.00	0.00	7,724.00				
1706			58848	7,724.00			06/30/17	3059		425 EAST GOSHEN TOWNSHIP - GENERAL 2017 QTR.2 REIMBURSEMENT FROM MA
1706				7,724.00	0.00	15,448.00				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-1400	****	***	****	15,448.00	0.00	15,448.00				
07424-3000						0.00				
	1701		56280	984.30			01/04/17	3040		2132 PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2017 ACTIVE MEMBERSHIP DUES
			56424	3.22			01/13/17	3041		425 EAST GOSHEN TOWNSHIP - GENERAL CORRECT BB&T DEPOSIT OF REMAININ BALANCE OF CLOSED ACCT.1100.1010 07100.1000
	1701			987.52	0.00	987.52				
	1706		58814	1,220.00			06/29/17	3058		3871 DELAWARE RIVER BASIN COMMISSION D-1984-056 CP ANNUAL FEE - WATER DISCHARGE
	1706			1,220.00	0.00	2,207.52				
07424-3000	****	***	****	2,207.52	0.00	2,207.52				
07424-3110						0.00				
	1703		57470	4,600.00			03/30/17	3049		808 MAILLIE FALCONIERO & CO. PROGRESS BILLING 2016 MUN.AUTH.
	1703			4,600.00	0.00	4,600.00				
	1704		57655	4,600.00			04/13/17	3052		808 MAILLIE FALCONIERO & CO. 2016 EXAM. FINAN. STMTS. MUN.AUT
	1704			4,600.00	0.00	9,200.00				
07424-3110	****	***	****	9,200.00	0.00	9,200.00				
07424-3130						0.00				
	1701		56425	4,399.50			01/13/17	3042		1052 PENNONI ASSOCIATES INC. SERVICES THRU 10/16/16 RCSTP & P STATION
	1701			4,399.50	0.00	4,399.50				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3130	1702	CD	56874	2,044.00			02/17/17	3045	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 2016 CHAP
	1702			2,044.00	0.00	6,443.50				
	1703		57328	7,962.00			03/17/17	3047	1052	PENNONI ASSOCIATES INC. SERV.THUR 2/12/17 2017 GEN.SERV
	1703			7,962.00	0.00	14,405.50				
	1704		57510	5,416.50			04/03/17	3050	1052	PENNONI ASSOCIATES INC. SERV.THUR 12/11/16 2016 GEN.SERV
			57655	7,306.50			04/13/17	3053	1052	PENNONI ASSOCIATES INC. SERVICE THRU 3/19/17 RCSTP PERMI
	1704			12,723.00	0.00	27,128.50				
	1705		58070	8,211.75			05/11/17	3054	1052	PENNONI ASSOCIATES INC. SERVICE THRU 4/16/17 RCSTP & PUM STATION
	1705			8,211.75	0.00	35,340.25				
	1706		58614	2,805.25			06/14/17	3057	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/14/17 RCSTP PERM
	1706			2,805.25	0.00	38,145.50				
07424-3130	****	***	****	38,145.50	0.00	38,145.50				
07424-3140	LEGAL SERVICES					0.00				
	1701		56550	940.00			01/25/17	3043	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - DEC. 2016 GEN.AU
	1701			940.00	0.00	940.00				
	1702		56874	597.50			02/17/17	3044	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - JAN.2017 GEN.AUT
	1702			597.50	0.00	1,537.50				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3140	1703	CD 57328	655.00			03/17/17	3046	528	GANTHROP GREENWOOD & HALSTED LEGAL SERV. FEB.2017 GEN.AUTHORI
	1703		655.00	0.00	2,192.50				
	1704	57655	2,140.00			04/13/17	3051	528	GANTHROP GREENWOOD & HALSTED LEGAL SERVICE - MARCH 2017 GEN.A
	1704		2,140.00	0.00	4,332.50				
	1705	58187	2,407.41			05/19/17	3055	528	GANTHROP GREENWOOD & HALSTED LEGAL SERVICE 4/4-4/28/17 GEN.AU
	1705		2,407.41	0.00	6,739.91				
	1706	58614	1,640.00			06/14/17	3056	528	GANTHROP GREENWOOD & HALSTED LEGAL SERV. - MAY 2017 GEN.AUTH.
			1,723.25			06/14/17	3057	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/14/17 2017 GEN.S
		**	3,363.25	0.00 ***					
	1706		3,363.25	0.00	10,103.16				
07424-3140	****	*** ****	10,103.16	0.00	10,103.16				
07428-1000	RESERVOIR PUMP STATION - ENGINEER				0.00				
	1701	56426	2,546.50			01/13/17	22002	1052	PENNONI ASSOCIATES INC. SERVICE THRU 10/16/16 RESERV.RD
		56551	375.00			01/25/17	22003	263	CHESTER COUNTY CONSERVATION DISTRICT RESERVOIR RD. NPDES PLAN REVIEW
	1701		2,921.50	0.00	2,921.50				
	1702	56875	1,422.75			02/17/17	22004	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 RESERV.RD
	1702		1,422.75	0.00	4,344.25				
	1704	57511	1,784.25			04/03/17	22005	1052	PENNONI ASSOCIATES INC. SERV.THUR 12/11/17 RESERVOIR RD.
		57656	1,516.50			04/13/17	22006	1052	PENNONI ASSOCIATES INC. SERV.THUR 3/19/17 RESERV.RD PS

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
1704				3,300.75	0.00	7,645.00				
1705		58071		1,261.50			05/11/17 22007		1052	PENNONI ASSOCIATES INC. SERVICES THRU 4/16/17 RESERV.RD
1705				1,261.50	0.00	8,906.50				
1706		58616		2,083.00			06/14/17 22009		1052	PENNONI ASSOCIATES INC. SERVICE THRU 5/24/17 RESERV.RD P
1706				2,083.00	0.00	10,989.50				
07428-1000	****	***	****	10,989.50	0.00	10,989.50				
07429-6100	WEST GOSHEN CAPITAL					0.00				
1705		58071		705.00			05/11/17 22007		1052	PENNONI ASSOCIATES INC. SERV. THRU 4/16/17 W.GOSHEN SEWE
				220,814.48			05/11/17 22008		3843	WEST GOSHEN SEWER AUTHORITY PROJECT COSTS RE: CONSTRUCTION, LABOR, PARTS, ENGINEERING, LEGAL TESTING
		**		221,519.48	0.00	***				
1705				221,519.48	0.00	221,519.48				
1706		58616		1,146.00			06/14/17 22009		1052	PENNONI ASSOCIATES INC. SERVICE THRU 5/24/17 W.GOSHEN SE
1706				1,146.00	0.00	222,665.48				
07429-6100	****	***	****	222,665.48	0.00	222,665.48				
Grand Total				310,759.16	77,086.07	233,673.09				

Source	Debits	Credits
JE	2,000.00	71,394.07
RE	0.00	4,000.00
CR	0.00	1,692.00
CD	308,759.16	0.00
	310,759.16	77,086.07

610-692-7171

www.eastgoshen.org

BOARD OF SUPERVISORS

EAST GOSHEN TOWNSHIP

CHESTER COUNTY

1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

July 6, 2017

To: Municipal Authority

From: Mark Miller

Re: Slip Lining

I would like your approval to have Mike Ellis prepare bid documents for slip lining and Manhole Lining the lines in Supplee Valley. We have budgeted \$100,000.00 this year.