

EAST GOSHEN MUNICIPAL AUTHORITY

March 13, 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. February 13, 2017
5. APPROVAL OF INVOICES
 - a. Pennoni Invoice #735670 \$2,009.00
 - b. Pennoni Invoice #735671 \$3,288.25
 - c. Pennoni Invoice #735672 \$2,664.75
 - d. Gawthrop Invoice #177124 \$ 597.50 already paid
 - e. Gawthrop Invoice #177910 \$ 655.00
5. LIAISON REPORTS
6. FINANCIAL REPORTS
 - a. February Financial Report
7. OLD BUSINESS
8. GOALS
 - a. Operate the Ridley Creek Sewer Treatment Plant in compliance with NPDES Permit requirements. *January, February,*
 - 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 pump stations. *Currently under review by staff.*

e. Submit topical articles of interest for the East Goshen n

f. Attend West Goshen Municipal Authority meetings to planned capital expenditures and operation compliance. *Janua*

9. NEW BUSINESS

10. CAPACITY REQUESTS

11. ANY OTHER MATTER

12. CORRESPONDENCE AND REPORTS OF INTEREST

13. PUBLIC COMMENT

14. ADJOURNMENT

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

March 8, 2017

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

Monthly Flows: The average daily flow to West Goshen was 764,000 gallons per day. No problems to report.

Meters: All meters were read on a daily basis. The portable meters are being read by weekly, batteries were changed out.

C.C. Collection: The pumping stations were visited on a daily basis. We were notified of missing sewer caps which were replaced. We televised and cleaned 2500 of pipe.

R.C. Collection: Pump Stations were visited on a daily basis. We cleared the sewer right-of-way in Hershey Mill Estates. We also raised and replaced the castings and lids. The system was cleaned and televised.

R.C. Plant: Pumps were pulled in SBR and sent out to be re-built. The new gate opener has been installed and should be operational by the end of the week.

The Board of Supervisors approved the purchase of the 8" trailer mounted pump \$51,270.67.

Alarms: We responded to 28 alarms for February.

PA One Calls: We received 56 PA One calls in February.

**EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT
March 9, 2017**

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- The NPDES Permit expired on February 28, 2017. The permit renewal application was finalized and submitted to PADEP on August 31, 2016. DEP provided the draft permit in February 2017. The mass unit (lbs/day) and concentration (mg/L) for Total Suspended Solids in the draft permit are approximately half of the levels in the prior permit. There were no other notable changes to the permit.
- We are meeting at the RCSTP with the contract operator and Public Works Director on Friday, March 10, to discuss the potential alkalinity and phosphorus chemical treatment changes. An update will be verbally presented at the March MA meeting with an updated feasibility study letter to follow.
- We are still awaiting a response from the CIM manufacturer about the progressive deterioration of the SBR tank coatings and rehabilitation vs. replacement approaches for all the tanks. See attached letter from Dutchland to the manufacturer.

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). We coordinated with both PADEP and ACOE on this additional review in July 2016 and are still awaiting feedback. *(No update since last report).*
- CCCD is satisfied with the NPDES plans and permit application and has forwarded the documents onto PADEP to issue the NPDES Permit.
- The Water Quality Management (WQM) Permit application was submitted to PADEP on April 13, 2016. They have informally notified us that they have no comments and are prepared to issue the WQM Permit once the aforementioned NPDES Permit is issued. *(No update since last report).*
- We previously prepared the front end of the bid document and Division 01 specification sections, including a draft Bid Form. The Bid Form needs to be finalized. Technical specifications were already prepared as part of the WQM Permit application. The full bid document will be completed, assembled, and forwarded to the Township upon receipt of the three remaining permits. *(No update since last report).*
- We will complete a listing of the permits, expiration dates, and renewal deadlines once the three remaining permits are issued. We anticipate including that listing in future Engineer's Reports to track the permit statuses. *(No update since last report).*

RCSTP and Pump Stations' O&M Manual

- We intend to meet with the PW Director next week to perform an updated review of the Manual to determine what else needs to be added.

White Chimneys Manhole Replacement

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

Semi-Annual I&I Reports

- We previously evaluated apparent inconsistencies in the overall Chester Creek subbasin flows (as metered at the Westtown Way meter) between meter data, averages provided by East Goshen, and billing records from West Goshen, and we will discuss with the PW Department to resolve.
- We analyzed permanent and portable flow meter data for the upcoming first 2017 semi-annual report including an analysis of sewer billing EDUs by subbasin and conversion of our prior sewer system maps into GIS to facilitate the analyses. We intend to review our findings and recommendations with the PW Director next week and to issue the report by the end of March.

Chapter 94 Reports

- We prepared the 2016 Chapter 94 Annual Sewer Facilities Reports for the RCSTP, West Goshen (Chester Creek) Service Area, and Westtown Service Area. The Westtown Report was submitted to the Township staff for review, and we expect to submit the other two reports for review next week.
- We also provided 5-year projected connections in the West Goshen Service Area to West Goshen Township, per their request, for use in preparation of their Chapter 94 Report.

Sunoco Pipeline

- Sunoco previously agreed to add a condition to the approval letter they are requesting from East Goshen that they (Sunoco) will physically locate the Ashbridge PS force main at the proposed pipeline crossing location and that an East Goshen representative must be present when any work is done near the force main. We had also coordinated with them on a potential conflict with the proposed Reservoir Road PS force main, but there has not yet been a resolution to our knowledge. *(No update since last report).*

New Connections

- 1420 E. Strasburg Road, Brakman Property – We reviewed another revised design submission for the 3-lot subdivision and provided a few remaining sanitary sewer comments. The applicant proposes 2 gravity sewer laterals and 1 grinder pump instead of the 3-grinder pump system that was originally proposed.
- 1680 E. Boot Road, Knauer Property – We reviewed another revised design submission for the 2 proposed gravity sewer laterals and found the submission to be acceptable.

DCED Small Water & Sewer Program Grant

- The Township submitted a grant application for the installation of three permanent gravity sewer flow meters in October. The grant agency, the Commonwealth Financing Authority, is scheduled to award grants in March 2017. *(No update since last report).*

West Goshen Sewer System Consultation

- No activity since last report.



160 Rt. 41
Gap, PA 17527-0549

Phone 717.442.8282
Fax 717.442.9330

www.dutchlandinc.com

Via Email Only

March 7, 2017

Mrs. Jane Sigler
C.I.M. East Coast, Inc.
619 Homestead Road
Brielle, NJ 08730

*RE: East Goshen Municipal Authority – Ridley Creek SBR
CIM 1000 Coating on Walls*

Dear Mrs. Sigler:

I am writing to follow up on our discussion on January 30, 2017. We discussed the condition of the CIM 1000 coating on the walls of the Ridley Creek SBR structure. These coatings were applied by C.I.M. East Coast, Inc. during the summer of 2009. These tanks were drained by the Owner recently, and it was discovered that the CIM 1000 coating showed signs of bubbling and peeling off of the walls.

In response to our discussion, I was contacted by Ms. Maribeth Taylor, Eastern Territory Manager for Chase Corporation to schedule a site visit. We visited the site on February 8, 2017 and reviewed one of the chambers along with representatives of the Owner and the Engineer.

At the time of this letter, I have received no further contact from Ms. Taylor. I called Ms. Taylor on February 15, 2017 and left a voicemail, but received no response.

I am eager to resolve the problem with the CIM 1000 coatings so that the Owner may place the chamber back into service. Please contact me at your earliest convenience to discuss this matter. You may dial my direct line at (717) 442-1463.

Sincerely,

DUTCHLAND, INC.

A handwritten signature in black ink, appearing to read "J.C. Allen", is written over the printed name.

Joshua C. Allen
Chief Engineer

cc: Mr. Frank Ciufio, PE, Pennoni
Mr. Matthew McAloon, Pennoni
File



Executive Summary

The Ridley Creek sewage treatment plant outfall 001 experienced two (2) exceedances of the permitted discharge limitations during the month of January 2017. The monthly average ammonia as nitrogen reported concentration of 7.11 mg/L exceeded the permit limitation of 7.0 mg/L. There was one (1) weekly TSS average reported as 16 mg/L as compared to the permitted limitation of 15 mg/L. In addition to the DMR report, a separate letter explaining the causes and corrections is provided. 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.

Treatment Process Operation

During January 2017, there were two (2) exceedances of the final effluent discharge limitations for outfall 001. Additional TSS and total phosphorus samples were collected during the month means to calculate a weekly average. These additional samples also provide more representative data of the water quality on a typical basis as compared to the individual high concentrations. The total phosphorus monthly average had a concentration of 0.32 mg/L as compared to the permitted limitation of 0.50 mg/L. Table 1 illustrates the final effluent composite sample data reported for the January 2017 eDMR. During the month, the final effluent total phosphorus concentration discharged ranged from 0.10 to 1.10 mg/L.

Discharge to Applebrook, Outfall 002, remained discontinued during January and will remain off line until the spring of 2017

Table 2 illustrates the influent composite sample data reported for the month of January 2017.



**RCSTP Monthly Operations
Report:
February 2017**

Table 1

January 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	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
January 3, 2017	0.390	5.90	19.2	12	39.0	0.761	2.48	0.44	1.43	210	2.3222
January 5, 2017	0.351			6	17.6						
January 10, 2017	0.333	11.1	30.8	24	66.7	7.88	21.9	1.10	3.05	6	0.7782
January 11, 2017	0.342			11	31.4						
January 12, 2017	0.325			12	32.5						
January 17, 2017	0.333	7.2	20.0	12	33.3	9.82	27.3	0.36	1.00	4	0.6021
January 19, 2017	0.338			6	16.9						
January 23, 2017	0.390							0.20	0.65		
January 24, 2017	0.379	2.9	9.2	9	28.4	3.05	9.64	0.27	0.85	15	1.1761
January 25, 2017	0.335							0.26	0.73		
January 26, 2017	0.309			7	18.0			0.17	0.44		
January 27, 2017	0.319							0.17	0.45		
January 28, 2017	0.330							0.16	0.44		
January 29, 2017	0.391							0.28	0.91		
January 30, 2017	0.347			4	11.6			0.17	0.49		
January 31, 2017	0.344	2.0	5.7	4	11.5	14.8	42.5	0.20	0.57	1	0.0000
Average	0.347	5.8	17.0	10	27.9	7.26	20.7	0.32	0.92	9	0.9757
Minimum	0.309	2.0	5.7	4	11.5	0.76	2.48	0.16	0.44	1	0.0000
Maximum	0.391	11.1	30.8	24	66.7	14.8	42.5	1.10	3.05	210	2.3222



**RCSTP Monthly Operations
Report:
February 2017**

Table 2

January 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											
January 3, 2017	0.520	155	672	124	538	58.2	252	52.4	227	5	22
January 10, 2017	0.398	181	785	218	946	44.8	194	52.6	175	5.5	24
January 17, 2017	0.424	204	885	262	1,136	52.2	226	55.4	196	6.4	28
January 24, 2017	0.474	168	729	110	477	42.4	184	47.7	189	4.0	17
January 31, 2017	0.383	103	447	134	581	39.1	170	28.1	90	4.8	21
Average	0.440	162	704	170	736	47.3	205	47.2	175	5.1	22
Minimum	0.383	103	447	110	477	39.1	170	28.1	90	4.0	17
Maximum	0.520	204	885	262	1136	58.2	252	55.4	227	6.4	28

Table 3 presents the available Outfall 001 final effluent data for the month of February 2017. During February, the presence of foam conditions on the surface of the SBRs began to increase with foam concentrations ranging from 80% to 100% of the area. In addition, excessive filled decant coupled with adjustments to the dissolved oxygen controls to obtain adequate aeration for nitrification adversely impacted the final effluent ammonia as nitrogen and TSS concentrations. During the month several adjustments were implemented, including manual calibration of dissolved oxygen probes, adjustments to process control settings and increasing blower operating hours.

During February, additional TSS and total phosphorus samples were collected. Several final effluent pollutant concentrations were elevated during the month; however, there are anticipated exceedances of the permitted limitations for Outfall 001. 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:
February 2017**

Table 3

February 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	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
February 7, 2017	0.312	4.4	11.4	22	57.2	14.4	37.5	0.35	0.91	1	0.0000
February 8, 2017	0.272			17	38.6						
February 10, 2017	0.339			12	33.9						
February 13, 2017	0.332			11	30.5						
February 14, 2017	0.315	2.5	6.6	11	28.9	14.2	37.3	0.31	0.81	1	0.0000
February 15, 2017	0.342			9	25.7						
February 16, 2017	0.373			9	28.0						
February 21, 2017	0.309	2.1	5.4	10	25.8	9.1	23.5	0.23	0.59	1	0.0000
February 28, 2017	0.301										
Average	0.322	3.0	7.8	13	33.6	12.6	32.8	0.30	0.77	1	0.0000
Minimum	0.272	2.1	5.4	9	25.7	9.13	23.5	0.23	0.59	1	0.0000
Maximum	0.373	4.4	11.4	22	57.2	14.4	37.5	0.35	0.91	1	0.0000

The 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 4 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during February 2017.



**RCSTP Monthly Operations
Report:
February 2017**

Table 4

February 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											
February 7, 2017	0.385	79.6	256	59	189	49.4	159	44.6	143	5.6	18
February 14, 2017	0.402	133	427	214	687	40.7	131	43.5	146	4.7	15
February 21, 2017	0.395	103	331	136	437	45.6	146	53.3	176	4.9	16
February 28, 2017	0.383										
Average	0.391	105	338	136	438	45.2	145	47.1	155	5.1	16
Minimum	0.383	80	256	59	189	40.7	131	43.5	143	4.7	15
Maximum	0.402	133	427	214	687	49.4	159	53.3	176	5.6	18

Sequencing batch reactors (SBRs) numbered 1, 2 and 4 were in service during January and February. SBRs 2, 3 and 4 were in service during 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.

Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. The volume of aluminum sulfate solution to the SBRs increased to from 61.6 gpd to 92.9 gpd. Soda ash daily addition decreased from 421 lbs./day to 377 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.



**RCSTP Monthly Operations
Report:
February 2017**

Solids Dewatering and Disposal: February 2017

Sludge Dewatering Summary	
Gallons of sludge dewatered	262,907
Number of dumpsters	4

**Twenty (20) days of centrifuge operation*

Flow data:

February 2017			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	11.311	403,968	457,500
Influent Wastewater to SBRs	11.927	425,961	476,224
Internal Recycle	0.780	31,208	58,476
Treated Effluent to Disc Filters	11.782	420,789	466,752
Final Effluent Discharge	9.054	323,357	373,000
Applebrook Golf Course	No Discharge	No Discharge	No Discharge

Chemical Usage:

February 2017		
Chemical	Daily Average	Total Monthly
Soda Ash	354	9,900
Aluminum Sulfate solution	94.5	2,457
Polymer (centrifuge)	0.84	16.8

**Twenty (20) days of centrifuge operation*

During February, 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 9.06 feet and the level at the end of the month was 10.46 feet. Zero (0) gallons of supernatant were decanted during the month. One thousand and fifty (1,050) pounds of soda ash were added. The average total solids concentration measured as 1.07%.



**RCSTP Monthly Operations
Report:
February 2017**

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 12.33 feet and the level at the end of the month was 11.80 feet. Zero (0) gallons of supernatant were decanted during the month. Seven hundred and fifty (750) pounds of soda ash were added. The average total solids concentration measured as 0.82%.

PA DEP

No activity

Significant Storm/Hydraulic Loading Events

During February, there were no storm events resulting in a daily precipitation amount equal to or greater than 0.5 inches measured during a 24 hour period. A total of 1.48 inches of

Draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
February 13, 2017

The East Goshen Township Municipal Authority held their regular public meeting on Monday, February 13, 2017 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Ed McAssey, Dana Pizarro, Jack Yahraes, and Kevin Cummings. Also in attendance were: Rick Smith (Township Manager), Carmen Battavio (Supervisor), Mark Miller (Public Works Director), 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.

Sewer Reports

1. Director of Public Works, Mark Miller reviewed the following report for January:

Monthly Flows: The average daily flow to West Goshen was 768,000 gallons per day. No problems to report.

Meters: All meters were read on a daily basis. The temporary meters are being read on a bi-weekly basis with no problems to report.

C.C. Collection: Pump stations were visited on a daily basis with no problems to report. Routine maintenance was performed.

In December I met with the Homeowners Association from Steeple Chase who informed me that they were planning an extensive paving project in both complexes. I offered to televise their sanitary sewer system since they have had some problems in the past. We televised their system. We did 3000 LF and marked all laterals. We located a couple of main problems, which they have agreed to repair. They will also clean all the lines. We did repairs to every lateral, 79 total, and replaced new caps and vent caps. I also asked that they have the contractor replace all the castings and lids (26), which we will supply. With the repairs made to the laterals, I feel we eliminated a significant amount of inflow during wet weather amounts. We did GPS on all the manholes and we will also add that information to our system.

We repaired a sewer lateral on Gateswood Drive that was loaded with tree roots.

We have two main repairs to do off of Reservoir Road. We were waiting for the ground to freeze; however, I don't think that will be happening anytime soon.

R.C. Collection: Pump stations were visited on a daily basis and routine maintenance was performed.

R.C. Plant: No problems to report for the month.

Alarms: We responded to 21 alarms for January.

PA One Calls: We received 46 PA One calls for January.

2. Pennoni Engineer's Report for January

Mike Ellis provided the following report.

Invoices: Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP):

The NPDES Permit expires on February 28, 2017. The permit renewal application was finalized and submitted to PADEP on August 31, 2016. No changes to the existing permit are proposed. (No update since last report)

We continued the evaluation of alternatives for automated alkalinity chemical feed systems to eliminate manual feeding and carrying bags up the exterior steps, including tank sizing and chemical cost analyses and coordination with the operator. The material cost for a change to caustic soda would be roughly 50-60% the current soda ash cost approximately \$20,000/year more. An updated DRAFT report is attached with details on a change to caustic soda treatment. However, the operator is recommending further consideration of magnesium hydroxide instead of caustic, as well as a change to the phosphorus treatment from alum to polyaluminum chloride (PaCl). The alum change would likely decrease the alkalinity treatment demands. We will discuss in more detail at the February MA meeting.

Dutchland repaired the peeling CIM coating at the top of the SBR#1 tank. We met with Dutchland and the CIM manufacturer at the plant thereafter regarding the progressive deterioration of the coatings and rehabilitation vs. replacement approaches for all the tanks. We expect feedback from the manufacturer within the next 1-2 weeks.

Reservoir Rd 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). We coordinated with both PADEP and ACOE on this additional review in July and are still awaiting feedback. (No update since last report)

We revised the NPDES plans and permit application again to address two new minor comments from CCCD that they issued on December 19, 2016, and we resubmitted to CCCD on December 22, 2016. (No update since last report.)

The Water Quality Management (WQM) Permit application was submitted to PADEP on April 13, 2016. They have informally notified us that they have no comments and are prepared to issue the WQM Permit once the aforementioned NPDES Permit is issued. (No update since last report)

We previously prepared the front end of the bid document and Division 01 specification sections, including a draft Bid Form. The Bid Form still needs to be finalized. Technical

specifications were already prepared as part of the WQM Permit application. The full bid document will be completed, assembled, and forwarded to the Township upon receipt of the three remaining permits. (No update since last report)

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RCSTP and Pump Stations' O&M Manual

Edits were made to address comments from the Public Works Director.

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West Goshen Sewer System Consultation

No activity since last report.

3. Big Fish Environmental Services – Scott's report for January showed that the Ridley Creek sewage treatment plant outfall 001 achieved compliance with the NPDES discharge permit during December 2016. Discharge to Applebrook remained off line. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. Completed preparations to remove SBR#1 from service and place SBR#3 in service. No mechanical or operational issues were observed during operation of sludge dewatering equipment.

1 **Approval of Minutes**

2 The minutes of the January 9, 2017 were approved as amended.
3

4 **Approval of Invoices**

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

- 6 a. Pennoni #731599 \$1,422.75
7 b. Pennoni #731600 \$ 199.75
8 c. Pennoni #731601 \$ 796.75
9 d. Pennoni #731602 \$ 563.00
10 e. Pennoni #731603 \$ 484.50

11 Dana seconded the motion. The motion passed unanimously.

12 2. Dana moved to approve payment of the following Gawthrop invoices:

- 13 a. Gawthrop Invoice #175775 \$940.00 (already paid)
14 b. Gawthrop Invoice #177124 \$597.50

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

17 **Liaison Report**

18 Conservancy Board – Walter reported that Keep East Goshen Beautiful Day will be held on
19 Saturday, April 22, 2017, which is Earth Day. The Spring planting will be held on May 6, 2017
20 on Reservoir Road and the Marydell pond.

21 Board of Supervisors – Carmen reported that Judge Tom Tartaglio performed the swearing in of
22 Michael Lynch as newly appointed Supervisor. He will finish the current term and run for
23 reelection. The following ABC appointments were made:

- 24 Loir Kier, Esquire – to the Zoning Hearing Board (3 year term)
25 Silvia Shin, Esquire – to the Planning Commission (term expires at end of 2018)
26 Ernest Harkness, P.E. – to the Planning Commission (term expires at end of 2018)
27 Michael James, Esquire – to the Futurist Committee

28 Committa and Pennoni are designing the new playground in East Goshen Park. 2017 goals were
29 distributed to the ABCs.

30 Carmen also mentioned that ABC liaisons aren't attending meetings. The BOS is requesting all
31 ABCs to assign a person from their board to attend another board's meetings occasionally.
32

33 **Financial Reports**

34 Jon Altshul provided the following written report:

35 In January 2017, the Municipal Authority recorded \$595 in interest income and \$9,249 in
36 expenses, for a negative variance of \$8,654. Expenses included \$4,340 in regular engineering;
37 \$2,922 in engineering for the Reservoir Road Pump Station; \$940 for legal expenses; and \$984
38 for PMAA membership.

39 As of January 31st, the fund balance was \$1,405,997, of which \$1,371,512 is in the main
40 construction account (most of which represents the 2013 note.)
41

42 **Goals**

43 Goals for 2017 were reviewed.
44
45
46

1 **New Business**

2 **RCSTP Alkalinity Chemical Feed Alternatives** – Mike reported that the cost of soda ash in 2016
3 was about \$45,000. He reviewed the proposed process to pump from a tank. Individual sensors
4 would make adjustment to the amount being pumped. Mike pointed out that Scott would rather
5 use polyaluminum chloride (PaCl). He suggested doing a trial. Kevin pointed out that the main
6 concern is safety. Rick commented that if the goal is operator safety, they should have to use a
7 harness. He will have a meeting with Scott to discuss implementing safety features immediately.
8

9 **West Goshen Sewer Authority** - Dana and Kevin attended the latest meeting. Dana emailed a
10 spreadsheet and summary to the Authority members. The Bond team from Royal Bank of
11 Canada gave a presentation. A Bank Loan from TD Bank had the lowest rate – 2.8% for 20
12 years. They will consider a 15 year bank loan for \$20M. The meeting ended at 11:30 pm.
13

14 **Adjournment**

15 There being no further business, Jack moved to adjourn the meeting. Dana seconded the motion.
16 The meeting was adjourned at 8:30 pm. The next meeting will be held on Monday, March 13,
17 2017 at 7:00 pm.
18

19 Respectfully submitted,
20

21
22
23 Ruth Kiefer
24 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 # : 735670
Invoice Date : 02/23/2017
Project : EGMA1701
Project Name : 2017 General Services

For Services Rendered through: 2/12/2017

Performed construction coordination and observation of Dutchland's repair of peeling and bubbling CIM coating in SBR #1 and repairs to chipped concrete patches on the walkway decks. Attended meeting at RCSTP with Dutchland and Chase Corp (CIM coating manufacturer) about permanent repair solutions for ongoing SBR coating peeling and bubbling. Continued study of chemical and automated feed alternatives for alkalinity control, coordinated with chemical vendors on pricing, completed cost/benefit analysis of change to caustic soda, evaluated trial run setup alternatives, updated draft alternatives memo, discussed recommendations with plant operator and initiated evaluation of his additional recommendation to switch phosphorus treatment from alum to polyaluminum chloride. Prepared February Engineer's Report

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 2,009.00
Expense : 0.00
Phase Total : 2,009.00

Amount Due This Invoice

\$2,009.00

Fee : 12,700.00
Prior Billings : 563.00
Current Billings : 2,009.00
Total Billings : 2,572.00

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	7.00	119.00	833.00
Senior Engineer	6.50	114.00	741.00
Senior Engineering Technician	5.00	87.00	435.00
Labor Total:	18.50		2,009.00

Total Phase : **** -- Professional Services

Labor : \$2,009.00
Expense : \$0.00

Total Project : EGMA1701 -- 2017 General Services

Labor : \$2,009.00
Expense : \$0.00

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

East Goshen Municipal Authority
EGMA1701 Invoice Summary
Invoice Date 2/23/2017

Project:	EGMA1701		
Pennoni Job No.:	2017 General Services		
Invoice No:	735670		
Invoice Period:	1/16/2017	to	2/12/2017
Initial Authorization:	\$ 12,700.00	Date:	2/23/2017
Contract Amount:	\$ 12,700.00		
Previously Invoiced:	\$ 563.00		
Current Invoice:	\$ 2,009.00		
Invoiced to Date (\$):	\$ 2,572.00		
Invoiced to Date (%):	20%		
Remaining Budget (\$):	\$ 10,128.00		
Remaining Budget (%):	80%		

Budget by Phase:

Phase Name:	2017 General Services
Phase Budget:	\$ 12,700.00
Previously Invoiced:	\$ 563.00
Current Invoice:	\$ 2,009.00
Invoiced to Date (\$):	\$ 2,572.00
Invoiced to Date (%):	20%
Remaining Budget (\$):	\$ 10,128.00
Remaining Budget (%):	80%

Comments: Performed construction coordination and observation of Dutchland's repair of peeling and bubbling CIM coating in SBR #1 and repairs to chipped concrete patches on the walkway decks. Attended meeting at RCSTP with Dutchland and Chase Corp (CIM coating manufacturer) about permanent repair solutions for ongoing SBR coating peeling and bubbling. Continued study of chemical and automated feed alternatives for alkalinity control, coordinated with chemical vendors on pricing, completed cost/benefit analysis of change to caustic soda, evaluated trial run setup alternatives, updated draft alternatives memo, discussed recommendations with plant operator and initiated evaluation of his additional recommendation to switch phosphorus treatment from alum to polyaluminum chloride. Prepared February Engineer's Report.



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 # : 735671
Invoice Date : 02/23/2017
Project : EGMA1702
Project Name : 2017 Semi-Annual I&I Reports

For Services Rendered through: 2/12/2017

Analyzed portable and permanent meter data from the 4th quarter of 2016, analyzed 2016 sewer billing records and determined expected flows upstream of all portable and permanent meters, evaluated expected vs. actual flows, updated prior CAD mapping of sewer system into GIS including sewer billing records by metered subarea, and initiated preparation of Semi-Annual I&I Report #16.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	3,288.25
Expense :	0.00
Phase Total :	3,288.25

Amount Due This Invoice

\$3,288.25

Fee :	11,500.00
Prior Billings :	0.00
Current Billings :	3,288.25
Total Billings :	3,288.25

Phase : **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	1.75	119.00	208.25
Graduate Engineer	38.50	80.00	3,080.00
Labor Total:	40.25		3,288.25

Total Phase : **** -- Professional Services

Labor :	\$3,288.25
Expense :	\$0.00

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

Labor :	\$3,288.25
Expense :	\$0.00

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

East Goshen Municipal Authority
EGMA1702 Invoice Summary
Invoice Date 2/23/2017

Project: EGMA1702
Pennoni Job No.: 2017 Semi-Annual I&I Reports
Invoice No: 735671
Invoice Period: NTP to 2/12/2017
Initial Authorization: \$ 11,500.00 **Date:** 2/23/2017
Contract Amount: \$ 11,500.00
Previously Invoiced: \$ -
Current Invoice: \$ 3,288.25
Invoiced to Date (\$): \$ 3,288.25
Invoiced to Date (%): 29%
Remaining Budget (\$): \$ 8,211.75
Remaining Budget (%): 71%

Budget by Phase:

Phase Name: 2017 Semi-Annual I&I Reports
Phase Budget: \$ 11,500.00
Previously Invoiced: \$ -
Current Invoice: \$ 3,288.25
Invoiced to Date (\$): \$ 3,288.25
Invoiced to Date (%): 29%
Remaining Budget (\$): \$ 8,211.75
Remaining Budget (%): 71%

Comments: Analyzed portable and permanent meter data from the 4th quarter of 2016, analyzed 2016 sewer billing records and determined expected flows upstream of all portable and permanent meters, evaluated expected vs. actual flows, updated prior CAD mapping of sewer system into GIS including sewer billing records by metered subarea, and initiated preparation of Semi-Annual I&I Report #16.



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 # : 735672
Invoice Date : 02/23/2017
Project : EGMA1703
Project Name : 2016 Chapter 94 Reports

For Services Rendered through: 2/12/2017

Continued data analysis, connection projections, and report preparation of Ridley Creek and Chester Creek Chapter 94 Reports.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 2,664.75
Expense : 0.00
Phase Total : 2,664.75

Amount Due This Invoice

\$2,664.75

Fee : 15,000.00
Prior Billings : 484.50
Current Billings : 2,664.75
Total Billings : 3,149.25

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	3.25	119.00	386.75
Graduate Engineer	12.75	80.00	1,020.00
Engineering Technician I	18.50	68.00	1,258.00
Labor Total:	34.50		2,664.75

Total Phase : **** -- Professional Services

Labor : \$2,664.75
Expense : \$0.00

Total Project : EGMA1703 -- 2016 Chapter 94 Reports

Labor : \$2,664.75
Expense : \$0.00

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

East Goshen Municipal Authority
EGMA1703 Invoice Summary
Invoice Date 2/23/2017

Project: EGMA1703
Pennoní Job No.: 2016 Chapter 94 Reports
Invoice No: **735672**
Invoice Period: 1/16/2017 to 2/12/2017
Initial Authorization: \$ 15,000.00 **Date:** 2/23/2017
Contract Amount: \$ 15,000.00
Previously Invoiced: \$ 484.50
Current Invoice: \$ 2,664.75
Invoiced to Date (\$): \$ 3,149.25
Invoiced to Date (%): 21%
Remaining Budget (\$): \$ 11,850.75
Remaining Budget (%): 79%

Budget by Phase:

Phase Name: 2016 Chapter 94 Reports
Phase Budget: \$ 15,000.00
Previously Invoiced: \$ 484.50
Current Invoice: \$ 2,664.75
Invoiced to Date (\$): \$ 3,149.25
Invoiced to Date (%): 21%
Remaining Budget (\$): \$ 11,850.75
Remaining Budget (%): 79%

Comments: Continued data analysis, connection projections, and report preparation of Ridley Creek and Chester Creek Chapter 94 Reports.



Gawthrop Greenwood, PC
Attorneys at Law

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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
02/07/2017
Client No: 6604-001R
Invoice No. 177124

General Authority Services

Fees

		Hours	
01/09/2017			
PMM	Review and analyze letter from J O'Connell dated January 5, 2017 regarding 1662 E Boot Road; Preparation for and attend Authority meeting.	2.00	
01/27/2017			
JLB	Call to J O'Connell to discuss draft letter and agreement	0.30	
01/31/2017			
PMM	Telephone conference with A Sundquist regarding West Goshen Municipal Authority Meeting; Email from A Sundquist regarding same; Emails to/from EGMA and R Smith regarding same.	0.80	
	For Current Services Rendered	3.10	597.50

Recapitulation

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Patrick M. McKenna	2.80	\$200.00	\$560.00
Jody L. Bowden	0.30	125.00	37.50

Previous Balance \$940.00

Total Current Charges 597.50

01/27/2017 Payment -940.00

Balance Due \$597.50

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

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East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
03/07/2017
Client No: 6604-001R
Invoice No. 177910

General Authority Services

Fees

		Hours	
02/02/2017			
JLB	Phone call to J O'Connell regarding proposed easement	0.20	
PMM	Emails from D Pizzaro and E McAssey regarding WGSA meeting.	0.40	
02/03/2017			
JLB	Telephone conference with J O'Connell	0.40	
PMM	Email to R Smith and M Gordon regarding status with John O'Connell and easement.	0.20	
02/10/2017			
PMM	Review and analyze meeting packet in preparation for Authority meeting.	0.50	
02/13/2017			
PMM	Attend Authority meeting.	1.80	
	For Current Services Rendered	3.50	655.00

Recapitulation

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Patrick M. McKenna	2.90	\$200.00	\$580.00
Jody L. Bowden	0.60	125.00	75.00

Previous Balance \$597.50
Total Current Charges 655.00

02/21/2017 Payment -597.50
Balance Due \$655.00

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA February Financial Report
Date: March 8, 2017

In February, the Municipal Authority recorded \$1,805 in income and \$4,064 in expenses, for a negative variance of \$2,259. Expenses included \$2,044 in regular engineering; \$1,423 in engineering for the Reservoir Road Pump Station; and \$598 for legal expenses.

As of February 28th, the fund balance was \$1,404,738, of which \$1,370,615 is in the main construction account (most of which represents the 2013 note).

I have attached a copy of the 2016 Concise Financial Statement for the Municipal Authority.

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

EAST GOSHEN MUNICIPAL AUTHORITY

CONCISE STATEMENTS

Concise Statement of Net Position ***December 31, 2016***

ASSETS	
Current assets	\$ 1,415,651
Net investment in lease	<u>9,176,609</u>
TOTAL ASSETS	<u>\$ 10,592,260</u>
LIABILITIES AND NET POSITION	
LIABILITIES	
Notes payable, principal due annually through 2032, variable interest rate	\$ 9,671,000
Accounts payable	2,547
Accrued interest payable	<u>6,055</u>
TOTAL LIABILITIES	<u>9,679,602</u>
NET POSITION	
Unrestricted	<u>912,658</u>
TOTAL LIABILITIES AND NET POSITION	<u>\$ 10,592,260</u>

Concise Statement of Revenues, Expenses and Changes in Net Position ***Year Ended December 31, 2016***

OPERATING REVENUES	\$ 881,005
OPERATING EXPENSES	<u>131,428</u>
OPERATING INCOME	<u>749,577</u>
NONOPERATING REVENUES (EXPENSES)	
Investment income	2,545
Tapping fees	50,992
Transfers (to) from East Goshen Township, net	<u>(429,000)</u>
TOTAL NONOPERATING REVENUES (EXPENSES)	<u>(375,463)</u>
CHANGE IN NET POSITION	374,114
NET POSITION AT BEGINNING OF YEAR	<u>538,544</u>
NET POSITION AT END OF YEAR	<u>\$ 912,658</u>

A complete copy of the audited financial statements prepared by independent certified public accountants is available for public inspection in the Authority's office, Monday through Friday, between the hours of 8:00 a.m. and 4:00 p.m. The Authority's office is located at 1580 Paoli Pike, West Chester, Pennsylvania.

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

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
---------------	--------	---------------	----------------------	---------------------

MUNICIPAL AUTHORITY BEGINNING FUND BALANCE			1,406,996.80	
---	--	--	---------------------	--

RCSTP BUDGET

REVENUE

INTEREST EARNED - RCSTP EXPANSION	07341 1020	3,250.00	536.20	1,130.79
GRANT REVENUE	07392 0800	0.00	0.00	0.00

TOTAL REVENUE		3,250.00	536.20	1,130.79
----------------------	--	-----------------	---------------	-----------------

EXPENSES

R.C.-CAP. PROJ.-ENGINEER	07424 7451	0.00	0.00	0.00
R.C. CAP EXPANSION GEN'L CONTRACTOR	07424 7452	0.00	0.00	0.00
R.C. CAP EXPANSION - ELECTRICAL	07424 7453	0.00	0.00	0.00
R.C. CAP EXP CONTINGENCY CAPITAL	07424 7454	0.00	0.00	0.00
R.C. CAP EXP CONTINGENCY ONGOING	07424 7455	0.00	0.00	0.00
R.C. CAP EXP ADDITIONAL CONTINGENCY	07424 7456	0.00	0.00	0.00
TRANSFER TO SEWER SINKING FUND	07492 0550	0.00	0.00	0.00
TRANSFER TO AUTHORITY CAP FUND	07492 0990	0.00	0.00	0.00

TOTAL EXPENSES		0.00	0.00	0.00
-----------------------	--	-------------	-------------	-------------

RCSTP NET RESULT		3,250.00	536.20	1,130.79
-------------------------	--	-----------------	---------------	-----------------

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

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING BUDGET				
REVENUE				
INTEREST EARNINGS	07341 1000	10.00	0.06	0.29
C.C. TAPPING FEES	07364 1100	14,296.00	0.00	0.00
R.C.TAPPING FEES	07364 1110	0.00	0.00	0.00
CONNECTION FEES - SEWER	07364 1130	0.00	1,269.00	1,269.00
MISCELLANEOUS REVENUE	07380 1000	0.00	0.00	0.00
TRANSFER FROM SEWER OPERATING	07392 0500	100,755.00	0.00	0.00
TOTAL REVENUE		115,061.00	1,269.06	1,269.29
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	31,620.00	0.00	0.00
MISCELLANEOUS EXPENSE	07424 3000	2,500.00	0.00	987.52
MUNIC.AUTH.-AUDITING	07424 3110	9,078.00	0.00	0.00
ENGINEERING SERVICES	07424 3130	37,500.00	2,044.00	6,443.50
LEGAL SERVICES	07424 3140	9,250.00	597.50	1,537.50
M.C.-DVRFA-DEBT SERVICE	07471 1000	26,320.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1000	0.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1010	2,043.00	0.00	0.00
TOTAL EXPENSES		118,311.00	2,641.50	8,968.52
OPERATING NET RESULT		(3,250.00)	(1,372.44)	(7,699.23)

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

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
CAPITAL BUDGET				
REVENUE				
LOAN PROCEEDS-SEWER PROJECT	07393 1001	0.00	0.00	0.00
TRANSFER FROM SEWER CAP RESERVE	07392 0900	0.00	0.00	0.00
TOTAL REVENUE		0.00	0.00	0.00
EXPENSES				
MARYDELL PUMP STATION - ENGINEER	07425 1000	0.00	0.00	0.00
MARYDELL PUMP STATION -CONSTRUCTION	07425 2000	0.00	0.00	0.00
MANHOLE COVER REPLACEMENTS	07424.7405	0.00	0.00	0.00
C.C. CAPITAL - COLLECTION	07424.7420	212,486.00	0.00	0.00
LOCHWOOD ABANDONMENT ENGINEER	07424 7475	0.00	0.00	0.00
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7476	0.00	0.00	0.00
LOCHWOOD ELIMINATION PHASE 2	07424 7477	0.00	0.00	0.00
HERSHEY MILL STATION - ENGINEER	07426 1000	0.00	0.00	0.00
HERSHEY MILL STATION - CONSTRUCTION	07426 2000	0.00	0.00	0.00
RESERVE PUMP STATION - ENGINEER	07427 1000	0.00	0.00	0.00
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	0.00	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0.00	1,422.75	4,344.25
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
ASBSTOS CONCRETE ENGINEERING	07429 3130	0.00	0.00	0.00
DIVERSION PROJ.- LEGAL	07429 3166	0.00	0.00	0.00
TOTAL EXPENSES		212,486.00	1,422.75	4,344.25
CAPITAL NET RESULT		(212,486.00)	(1,422.75)	(4,344.25)
MUNICIPAL AUTHORITY ENDING FUND BALANCE			1,404,737.81	

Report Date 03/07/17

GL Transaction Details

PAGE 1

MGRF18 run by BRIAN

12 : 56 PM

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				
07341-1000	****	***	*****	0.00	0.29	-0.29				
07341-1020	INTEREST EARNED - CONSTRUCTION					0.00				
	1701	56730			594.59		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
	1701			0.00	594.59	-594.59				
	1702	57134			536.20		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
	1702			0.00	536.20	-1,130.79				
07341-1020	****	***	*****	0.00	1,130.79	-1,130.79				
07364-1130	CONNECTION FEES - SEWER					0.00				
	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				
07364-1130	****	***	*****	0.00	1,269.00	-1,269.00				
07424-3000	MISCELLANEOUS EXPENSE					0.00				
	1701 CD	56280		984.30			01/04/17	3040		2132 PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2017 ACTIVE MEMBERSHIP DUES

East Goshen Township General Ledger

Report Date 03/07/17

GL Transaction Details

PAGE 2

MGRP18 run by BRIAN

12 : 56 PM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3000	1701 CD	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				
07424-3000	**** ***	*****	987.52	0.00	987.52				
07424-3130	ENGINEERING SERVICES				0.00				
		56425	4,399.50			01/13/17	3042	1052	PENNONI ASSOCIATES INC. SERVICES THRU 10/16/16 RCSTP & P STATION
	1701		4,399.50	0.00	4,399.50				
	1702	56874	2,044.00			02/17/17	3045	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 2016 CHAP
	1702		2,044.00	0.00	6,443.50				
07424-3130	**** ***	*****	6,443.50	0.00	6,443.50				
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				
07424-3140	**** ***	*****	1,537.50	0.00	1,537.50				
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

MGRP18 run by BRIAN 12 : 56 PM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07428-1000	1701	CD	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				
07428-1000	****	***	*****	4,344.25	0.00	4,344.25				
Grand Total				13,312.77	2,400.08	10,912.69				

Source	Debits	Credits
JE	0.00	1,131.08 * Not Balanced
CR	0.00	1,269.00 * Not Balanced
CD	13,312.77	0.00 * Not Balanced
	13,312.77	2,400.08