

EAST GOSHEN MUNICIPAL AUTHORITY

May 9, 2016

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 with DMR's
4. APPROVAL OF MINUTES
 - a. April 11, 2016
5. APPROVAL OF INVOICES

a. Gawthrop Invoice #144090	\$ 540.00
b. Pennoni Invoice #687506	\$6,629.75
c. Pennoni Invoice #687507	\$ 323.00
d. Pennoni Invoice #687508	\$ 782.50
e. Pennoni Invoice #687509	\$2,579.25
f. Pennoni Invoice #687510	\$ 657.50
g. Pennoni Invoice #682661	\$2,996.25
5. LIAISON REPORTS
6. FINANCIAL REPORTS
 - a. April 2016 Report
7. OLD BUSINESS
8. GOALS
 - a. Operate the Ridley Creek Sewer Treatment Plant in compliance with NPDES Permit requirements. *January, February, March*
 - 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. Develop an operation manual for Ridley Creek Sewer Treatment Plant and pump stations. *943 Cornwallis Drive*
 - d. Submit topical articles of interest for the East Goshen newsletter.
 - e. Attend West Goshen Municipal Authority meetings to keep informed of planned capital expenditures and operation compliance. *January, February, March*
9. NEW BUSINESS
- a. White Chimneys and Cornwallis Drive Manhole Rehabilitation
 - b. Pennoni Project Budgets
10. CAPACITY REQUESTS
- a. Sewer Availability Letter for Brakman Property 1420 E. Strasburg Road
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

May 6, 2016

To: Municipal Authority
From: Mark Miller
Re: April 2016 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 895,493.

Meters: The meters have been read on a daily basis. We had a problem at the Wilson Drive meter when the modem failed.

Chester Creek Pump: The pumping stations were visited on a routine basis with no problems to report.

Hunt Country Pump: Was visited on a daily basis.

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

We did make several sewer lateral repairs (10) ranging from missing caps to actual lateral repairs.

While doing a paving inspection at Summit House I found that all their sewer vents had open grate caps throughout the complex. Rick and I spoke to come up with a repair for the complex. All the vent pipes were excavated, mushroom caps were installed and a cast iron valve box was placed over the vent pipe, 26 were repaired.

R.C. Collection: Pump Station was visited on a daily basis. We are still cleaning the wet well due to extensive grease.

The new rail system has arrived as well as the new flutes for the grinder pumps. Once the materials arrive we will have MGK start the work.

R.C. Plant:

We pulled the 3rd lift station pump for maintenance.

The pipeliner pump for the Centerfuge was pulled and sent out to Deckman for repairs.

John Laidley installed the new level transducer on the Number 1 sludge tank. A.C.S. has to come in and set up the levels in the program.

Lochwood Plant:

Alarms:

We responded to 16 alarms for April.

PA One Calls:

We received 46 Pa One calls April.

Pennoni

MEMORANDUM

TO: East Goshen Municipal Authority Board
Rick Smith, Township Manager

FROM: Michael Ellis, P.E.
Authority Engineer

DATE: May 5, 2016

SUBJECT: Engineer's 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 is due to PADEP by September 1, 2016. We have begun preparation of the application.

Reservoir Road Pump Station

- We are still awaiting PADEP response for the Chester Creek Small Projects Joint Permit for the pump station site and Chester Creek utility crossing.
- The PennDOT Highway Occupancy Permit application for force main construction along and across E. Strasburg Road and Rt. 352 was revised and resubmitted to address PennDOT's comments. PennDOT subsequently issued the permit on April 29, 2016.
- We are in the process of revising the NPDES Permit application and plans to address comments from the Chester County Conservation District (CCCD). We expect to resubmit to the CCCD the week of May 16-20.
- The Water Quality Management Permit application was submitted to PADEP on April 13, 2016. PADEP has 120 calendar days to perform their review.
- A complete bid document will be provided once the three remaining permits are issued.

RCSTP and Pump Stations' O&M Manual

- Limited activity since the last report.

White Chimneys and Cornwallis Drive Manhole Lining

- We attended a field visit with the PW Department to observe an alternative product by Epoxytec to evaluate equivalency with the Spraywall product.

- We attended a pre-proposal field meeting thereafter with Township staff and Abel Recon and revisited the condition and dimensions of approximately half the manholes. Abel Recon submitted a proposal under their Costars contract that we have reviewed and forwarded to the Municipal Authority for consideration.

White Chimneys Manhole Replacement

- We attended a field meeting with Township staff on April 28 to evaluate alternatives for replacing vs. rehabilitating the Ashbridge Pump Station force main discharge manhole (MH C-226).
- We performed an existing conditions and topographic field survey thereafter, and we are currently preparing a plan of the proposed manhole replacement for use during construction by the PW Department.

Semi-Annual I&I Reports

- We have begun analysis of data from four portable meters from March-April 2016. We intend to submit an analysis summary via email by May 13 and follow-up with a formal semi-annual report by June 30, pending receipt of additional meter data.



Ridley Creek Sewage Treatment Plant

Monthly Operations Report:
March 2016

Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the NPDES discharge permit during February 2016. Discharge to Applebrook was discontinued during February. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. The sludge grinder was observed to periodically become clogged with "rags and debris." The grinder and sludge pump were disassembled several times during the month to remove "rags" and debris. The grinder will be removed for installation of a head and shear plate assembly. No mechanical or operational issues were observed regarding the centrifuge sludge dewatering equipment.

Treatment Process Operation

During February 2016, there were no exceedances of the final effluent discharge limitations for outfall 001. Additional TSS samples were collected twice per week to allow for a means to calculate a weekly average. The total phosphorus monthly average concentration of 0.23 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 February 2016 eDMR.

Table 1

February 2016 - 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 2, 2016	0.409	2.9	9.9	4	14	7.09	24.18	0.21	0.72	1	0.0000
February 5, 2016	0.559			1	5						
February 9, 2016	0.390	2.0	6.5	1	3	3.40	11.06	0.18	0.59	2	0.3010
February 12, 2016	0.491			1	4						
February 16, 2016	0.699	2.0	11.7	2	12	3.38	19.70	0.16	0.93	1	0.0000
February 18, 2016	0.413			3	10						
February 23, 2016	0.432	2.4	8.6	5	18	3.044	10.97	0.10	0.36	1	0.0000
February 25, 2016	0.577			3	14						
Average	0.496	2.3	9.2	3	10	4.229	16.48	0.16	0.65	1	0.0753
Minimum	0.390	2.0	6.5	1	3	3.044	10.97	0.10	0.36	1	0.0000
Maximum	0.699	2.9	11.7	5	18	7.090	24.18	0.21	0.93	2	0.3010



Ridley Creek Sewage Treatment Plant

Monthly Operations Report: March 2016

Discharge to Applebrook, Outfall 002, continued to remain off line during February 2016. Table 2 illustrates the influent composite sample data reported for the February 2016.

Table 2

February 2016 - 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 2, 2016	0.495	272	1,124	196	810	30.1	124	42.2	174	5.7	24
February 9, 2016	0.488	193	797	122	504	23.7	98	36.7	149	3.9	16
February 16, 2016	0.961	179	739	186	768	31.6	131	38.6	309	4.0	17
February 23, 2016	0.543	164	677	346	1,429	25.9	107	31.2	141	3.9	16
Average	0.622	202	834	213	878	27.8	115	37.2	194	4.4	18
Minimum	0.488	164	677	122	504	23.7	98	31.2	141	3.9	16
Maximum	0.961	272	1124	346	1429	31.6	131	42.2	309	5.7	24

Table 3 presents the available Outfall 001 final effluent data for the month of March 2016. During March, the presence of foam conditions on the surface of the SBRs remained consistent with the previous month with foam concentrations ranging from 25% to 60% of the area. This is attributed to decreasing water temperatures supporting conditions for growth of filamentous bacteria. Increasing the F:M ratio and decreasing MLSS concentrations is employed to assist in managing the increase in filamentous growth.

During March, there are no 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.



Ridley Creek Sewage Treatment Plant

Monthly Operations Report: March 2016

Table 3

March 2016 - 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											
March 1, 2016	0.403	2.6	8.7	4	13	3.48	11.70	0.24	0.81	1	0.0000
March 3, 2016	0.425			2	7						
March 8, 2016	0.398	2.6	8.6	3	10	0.250	0.83	0.18	0.60	1	0.0000
March 10, 2016	0.339			2	6						
March 15, 2016	0.384	2.4	7.7	4	13	0.146	0.47	0.20	0.64	1	0.0000
March 17, 2016	0.406			1	3						
March 22, 2016	0.341							0.26	0.74		
March 24, 2016	0.311										
March 29, 2016	0.351							0.27	0.79		
March 31, 2016	0.302										
Average	0.366	2.5	8.4	3	9	1.292	4.33	0.23	0.71	1	0.0000
Minimum	0.302	2.4	7.7	1	3	0.146	0.47	0.18	0.60	1	0.0000
Maximum	0.425	2.6	8.7	4	13	3.480	11.70	0.27	0.81	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 March 2016.



Ridley Creek Sewage Treatment Plant

Monthly Operations Report: March 2016

Table 4

March 2016 - 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											
March 1, 2016	0.518	104	449	73	315	27.7	120	35.5	153	2.9	13
March 8, 2016	0.512	147	635	168	725	30.9	133	35.9	153	4.3	19
March 15, 2016	0.520	138	596	420	1,813	24.7	107	29.6	128	3.2	14
March 22, 2016	0.461										
March 29, 2016	0.446										
Average	0.491	130	560	220	951	27.8	120	33.7	145	3.5	15
Minimum	0.446	104	449	73	315	24.7	107	29.6	128	2.9	13
Maximum	0.520	147	635	420	1813	30.9	133	35.9	153	4.3	19

Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during February and March. Preparations to place SBR 2 were initiated during late March. The SBR is scheduled to be placed in service during April. 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 creased to from 70.3 gpd to 73.0 gpd. Soda ash daily addition increased from 417 lbs./day to 452 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.

SBR No. 2 remains out of service as a treatment unit. Minor repairs will be scheduled during April. Repairs include:

- Repair alum piping within SBR
- Replace two (2) decanter valves
- Reinstall dissolved oxygen probe



Ridley Creek Sewage
Treatment Plant

Monthly Operations Report:
March 2016

Solids Dewatering and Disposal: March 2016

Sludge Dewatering Summary	
Gallons of sludge dewatered	282,595
Number of dumpsters	5

**Eighteen (18) days of centrifuge operation*

Flow data:

March 2016			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	15.425	497,572	732,790
Influent Wastewater to SBRs	15.081	486,478	632,384
Internal Recycle	0.604	19,480	256,063
Treated Effluent to Disc Filters	14.884	480,130	636,480
Final Effluent Discharge	11.729	378,355	519,000
Applebrook Golf Course	No Discharge	No Discharge	No Discharge

Chemical Usage:

March 2016		
Chemical	Daily Average	Total Monthly
Soda Ash	452	13,100
Aluminum Sulfate solution	73.0	2,263
Polymer (centrifuge)	0.84	19.32

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

During March, 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 transducer is out of service. The level transducer is scheduled for replacement during April. The level transmitter will be changed from pressure level sensor to an ultra-sonic level sensor. The average total solids concentration was 0.82%. The average pH was 5.76 S.U. with an average total alkalinity of 50 mg/L. Zero gallons of supernatant were decanted during the month. 500 pounds of soda ash were added.



Ridley Creek Sewage Treatment Plant

Monthly Operations Report: March 2016

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 9.88 feet and the level at the end was 9.30. The average total solids concentration was 0.94%. The average pH was 6.86 S.U. with an average total alkalinity of 155 mg/L. Zero pounds of soda ash were added. Zero gallons of supernatant were decanted.

PA DEP

No activity

Significant Storm/Hydraulic Loading Events

During March, there were three (3) storm events resulting in a daily precipitation amount equal to or greater than 0.4 inches measured during a 24 hour period. A total of 2.45 inches of rainfall were measured during the month. These events occurred on the following dates:

- March 13th: 0.79 inches
- March 14th: 0.78 inches
- March 27th: 0.42 inches

Plant operations were adjusted to manage the precipitation to prevent exceedances of the permitted discharge limitations for Outfall 001.

Minor Repairs and Preventative Maintenance

- March 16, 2016: Repaired the back wash pump for disc filter number 1. Replaced the coupling for the motor and pump assembly.
- March 21, 2016: Disassembled the sludge grinder for the sludge pump for the centrifuge. Removed "rags" and debris.
- March 23, 2016: Disassembled the sludge grinder for the sludge pump for the centrifuge. Removed "rags" and debris.
- March 28, 2016: Transferred the contents of SBR 2 to SHT 2.

Draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
April 11, 2016

The East Goshen Township Municipal Authority held their regular public meeting on Monday, April 11, 2016 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Dana Pizarro, Jack Yahraes, Ed McAssey, Kevin Cummings and Phil Mayer. Also in attendance were: Rick Smith (Township Manager), Mark Miller (Director of Public Works), 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

Dana 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 the troops and all veterans. Dana asked if anyone would be recording the meeting. There was no response.

CHAIRMAN'S/MEMBERS REPORTS

1. Ed and Phil attended the West Goshen Sewer Authority meeting. There were 40 people at the meeting. When they upgraded in 2008 and had problems, they wouldn't spend the money for repairs. Now the engineer estimates they will need \$13 million over the next 10 years for repairs.

Sewer Reports

1. Director of Public Works, Mark Miller presented the following report for March:

Monthly Flows: The average daily flow to West Goshen was 872,000 gallons per day.

Meters: The meters were read on a daily basis. The portable meters have been installed at various locations in the Township.

Chester Creek Pump: The pumping stations were visited on a routine basis with no problems to report.

Hunt Country Pump: It was visited on a daily basis. I ordered the equipment for the wet well. I have been working with MGK Inc. on scheduling the wet well work.

C.C. Collection: We were notified of a lateral backup at 1517 Brian Drive. We found the trap stack full. The crew plunged the lateral and cleared the blockage. We televised the lateral but we were not able to get to the main. It was decided that we excavate the lateral and install a cleanout. We had another lateral clog on Christine Lane when a tree fell and crushed the cleanout stand pipe. We were able to get the line open. The

homeowner will have to get a plumber to install a new trap and cleanout. We televised the "A" portion on Eastwick Circle.

R.C. Collection – We completed the repairs on the collection system.

R.C. Plant: We finished the re-piping of the utility water pit and installed the rebuilt pump. Scott sent me a list of items that needed repairs and parts.

Lochwood Plant: The monitoring wells have been sealed as required by the County. The only items we have left are the removal of some spray heads and fencing.

Alarms: We responded to 16 alarms for March.

PA One Calls: We received 55 PA One calls for March.

2. Pennoni Engineer's Report

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 is due to PADEP by September 1, 2016. We anticipate initiating work on the renewal application within the next two weeks.

Reservoir Rd Pump Station:

PADEP previously issued the permits for the Ridley Creek GP-5 "Utility Line Stream Crossings" and GP-8 "Temporary Road Crossings (across streams)" and for the pump station site floodplain filling works.

We are still awaiting PADEP response for the Chester Creek Small Projects Joint Permit for the pump station site and Chester Creek utility crossing.

PPL-IES approved the petroleum pipeline crossing. Approvals were already received from Williams-Transco and Sunoco. All pipeline companies have now approved the proposed crossings.

The PennDOT Highway Occupancy Permit application for force main construction along and across E. Strasburg Road and Rt. 352 was resubmitted to address comments from our field meeting with PennDOT representatives. PennDOT reviewed and provided additional comments that we are in the process of addressing.

The NPDES Permit application was submitted to the Chester Co. Conservation District on March 21, 2016 and came back with several pages of comments.

The Water Quality Management Permit application will be submitted to PADEP on April 8, 2016.

The tentative schedule follows:

Submitted PADEP GP and JP Permit application	November 19, 2015
Submitted NPDES Permit Application	March 21, 2016
Submit PADEP WQM Permit application	April 8, 2016
Resubmit PennDOT HOP application	by April 15, 2016
PennDOT Permit issuance	Late April 2016
PADEP & CCCD Permit issuances	June-July 2016

RCSTP and Pump Stations' O&M Plan

We continued preparation of the Sewer System Operations and Maintenance (O&M) Manual including reformatting to address comments from the Township Manager.

1 Sanitary Sewer Manhole Rehabilitation

2 We have evaluated alternative manhole interior rehabilitation products and set up a field
3 visit with the PW Department to observe an alternative product for equivalency. Should have
4 results at the next meeting.

5 Chapter 94 Reports

6 The Ridley Creek STP and West Goshen Service Area Reports were completed and
7 submitted to PADEP on March 30, 2016. The Westtown Service Area Report was completed
8 and submitted to Westtown Township on March 25, 2016.

9 Note: Last year the average flow to West Goshen was 721,000 gpd. This has been dropping
10 each year with the diversions that are being done. Ridley's flow was 408,000 gpd and BOD was
11 606,00 lbs/day.

12
13 **3. Big Fish Environmental Services** – Scott's report showed that the Ridley Creek sewage
14 treatment plant outfall 001 achieved compliance with the NPDES discharge permit during
15 February 2016. Discharge to Applebrook was discontinued during February. Chemical usage
16 utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous
17 months. The sludge grinder was observed to periodically become clogged with "rags and debris."
18 The grinder and sludge pump were disassembled several times during the month to remove
19 "rags" and debris. The grinder will be removed for installation of a head and shear plate
20 assembly. No mechanical or operational issues were observed regarding the centrifuge sludge
21 dewatering equipment.

22 During March, there were three storm events resulting in a daily precipitation amount equal to or
23 greater than 0.4 inches measured during a 24 hour period. A total of 2.45 inches of rainfall were
24 measured during the month. These events occurred on the following dates:

25 March 13 - 0.79 inches

26 March 14 - 0.78 inches

27 March 27 - 0.42 inches

28 Plant operations were adjusted to manage the precipitation to prevent exceedances of the
29 permitted discharge limitations for Outfall 001.

30 Minor repairs and preventative maintenance were:

31 March 16, 2016: Repaired the back wash pump for disc filter #1. Replaced the coupling for the
32 motor and pump assembly.

33 March 21, 2016: Disassembled the sludge grinder for the sludge pump for the centrifuge.
34 Removed "rags" and debris.

35 March 23, 2016: Disassembled the sludge grinder for the sludge pump for the centrifuge.
36 Removed "rags" and debris.

37 March 28, 2016: Transferred the contents of SBR 2 o SHT 2.

38
39 Mike reported that they looked into bypass pumps – for the Plant at 3 mgd max an 8" pump at
40 \$70,000 plus a trailer and accessories; for 2 mgd a 6" pump at \$54,400 could be used. Rick is
41 concerned that emergencies are usually weather related, which makes it difficult to rent a pump
42 because of the demand in that situation. Mike feels at least a 6" pump is needed for the plant.
43 Dana verified that the pump stations have pumps and generators. Mark mentioned that he just
44 rented a pump for a month at \$2,000 but it was not silent. Kevin suggested that they get pricing
45 on used pumps too.

1
2 **Approval of Minutes**

3 Jack moved to accept the minutes of March 14, 2016. Phil seconded the motion. The motion
4 passed unanimously.
5

6 **Approval of Invoices**

7 1. Ed moved to approve payment of the William Wood Co invoice for \$1,000.00 which has been
8 paid. Jack seconded the motion. The motion passed unanimously.

9 2. Jack moved to approve payment of the Gawthrop Invoice #142725 for \$1,523.50. Kevin
10 seconded the motion. The motion passed unanimously.

11 3. Kevin moved to approve payment of the following Pennoni invoices:

- | | | | |
|----|----|-----------------|-------------|
| 12 | a. | Pennoni #682656 | \$ 1,576.25 |
| 13 | b. | Pennoni #682703 | \$ 2,396.50 |
| 14 | c. | Pennoni #682658 | \$ 1,955.75 |
| 15 | d. | Pennoni #682659 | \$ 778.00 |
| 16 | e. | Pennoni #682660 | \$ 761.75 |
| 17 | f. | Pennoni #682661 | \$ 2,996.25 |

18 Jack seconded the motion. There was discussion of status of project budgets. The
19 motion passed unanimously.
20

21 **Liaison Reports**

22 Conservancy Board – Walter reported that Keep East Goshen Beautiful Day had to be cancelled
23 twice because of bad weather. It is held in April because of the ticks and poisonous plants that
24 come out later. Ten trees were received from Potters and 8 were planted along E. Boot Road and
25 2 were planted in the park by Public Works Dept.
26

27 **Financial Reports**

28 Jon Altshul provided the following written report:

29 In March, the Municipal Authority recorded \$25,110 in revenues (primarily from a \$25,000
30 transfer from the Sewer Operating Fund) and \$22,038 in expenses, (including \$7,705 for the
31 quarterly administrative charge-back, \$9,875 for general engineering services and \$2,935 for
32 Reservoir Road Pump Station engineering) for a positive variance of \$3,072. As of March 31st,
33 the fund balance was \$1,449,120 of which \$1,393,945 is in the main construction account.
34

35 **Goals**

36 Goals for 2016 were discussed. Articles for the newsletter were discussed.
37

38 **New Business**

- 39 1. Act 537, Exemption 943 Cornwallis Drive Subdivision – Letter dated March 22, 2016
40 from the DEP confirmed the DEP's determination that the referenced project is
41 exempt from the requirement to revise the Official Plan for new land development.
42 2. Force Main Reservoir Rd Pump Station – Rick sent an offer letter for the Temporary
43 and Permanent Easement to Donald Pusey of \$690.00.
44 3. Manhole Lining Project – Mike Ellis reported that, due to the addition of Cornwallis
45 Dr., Barkway and Hunt Country manholes to the original White Chimneys scope, this

1 will require an increase in the budget to approx.. \$7,400.00. Ed moved to approve the
2 increase to \$7,400.00. Jack seconded the motion. The motion passed unanimously.
3

4 **Any Other Matter**

5 Patrick reported that Tredyffrin is selling the Valley Creek Trunk Center. He gave a
6 summary of the situation.
7

8 **Adjournment**

9 There being no further business, Jack moved to adjourn the meeting. Kevin seconded the
10 motion. The motion passed unanimously. The meeting was adjourned at 8:15 pm. The next
11 meeting will be held on Monday, May 9, 2016 at 7:00 pm.
12

13 Respectfully submitted,
14

15
16 Ruth Kiefer
17 Recording Secretary



Gawthrop Greenwood, PC
Attorneys at Law

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

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
04/08/2016
Client No: 6604-001R
Invoice No. 144090

General Authority Services

Fees

		Hours	
03/14/2016			
JKW	Review agenda in advance of meeting; Attend Municipal Authority meeting.	2.00	
03/18/2016			
PMM	Email from R Smith regarding Pusey easement.	0.20	
JKW	Review email from R Smith regarding easement appraisal; reply; draft Memorandum regarding Municipal Authority meeting.	0.50	
	For Current Services Rendered	2.70	540.00

Recapitulation

Timekeeper	Hours	Hourly Rate	Total
Jessica K. Wiesak	2.50	\$200.00	\$500.00
Patrick M. McKenna	0.20	200.00	40.00

Total Current Charges 540.00

Balance Due \$540.00

THIS INVOICE HAS
BEEN PAID

TS

OK TO PAY
4-21-16
R.ck

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.



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 # : 687506
Invoice Date : 04/27/2016
Project : EGMA1504
Project Name : Reservoir Rd PS Design & Permitting

For Services Rendered through: 4/17/2016

::::: Prepare invoice summary P:\Projects\EGMA\Invoicing. Send finals to Mike Ellis he will forward to client

Finalized and submitted NPDES and Water Quality Management (WQM) Part 2 permit applications, including plans, to CCCD and PADEP respectively. Received comments from CCCD on NPDES application thereafter and initiated plan and application revisions to address comments. Received mark-ups from PennDOT on HOP Detour plans, and prepared HOP plan revisions.

Phase : 11 -- Final Design

Total Phase : 11 -- Final Design

Labor :	3,630.75
Expense :	0.00
Phase Total :	3,630.75

Phase : 12 -- Permitting

Total Phase : 12 -- Permitting

Labor :	2,999.00
Expense :	0.00
Phase Total :	2,999.00

Amount Due This Invoice

\$6,629.75

Fee: \$136,316.25
Prior Billings: \$129,508.00
Current Billings: \$ 6,629.75
Total Billings: \$136,137.75

OK TRS 5-5-16

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 : 11 -- Final Design

Labor	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
<u>Class</u>			
Authority Engineer	9.50	115.00	1,092.50
Project Engineer	2.75	97.00	266.75
Graduate Engineer	24.00	77.00	1,848.00
Engineering Technician II	4.00	77.00	308.00
Engineering Technician II	1.50	77.00	115.50
Labor Total:	41.75		3,630.75

Total Phase : 11 -- Final Design**Labor : \$3,630.75****Expense : \$0.00****Phase : 12 -- Permitting**

Labor	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
<u>Class</u>			
Authority Engineer	2.75	115.00	316.25
Project Engineer	5.00	97.00	485.00
Staff Engineer	0.25	90.00	22.50
Graduate Engineer	28.25	77.00	2,175.25
Labor Total:	36.25		2,999.00

Total Phase : 12 -- Permitting**Labor : \$2,999.00****Expense : \$0.00****Total Project : EGMA1504 -- Reservoir Rd PS Design & Permitting****Labor : \$6,629.75****Expense : \$0.00**

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 4/27/2016

Project:	EGMA1504		
Pennoni Job No.:	Reservoir Rd PS Design & Permitting		
Invoice No:	687506		
Invoice Period:	3/21/2016	to	4/17/2016
Initial Authorization:	\$ 167,120.00	Date:	4/27/2016
Contract Amount:	\$ 167,120.00		
Previously Invoiced:	\$ 160,312.50		
Current Invoice:	\$ 6,629.75		
Invoiced to Date (\$):	\$ 166,942.25		
Invoiced to Date (%):	99.89%		
Remaining Budget (\$):	\$ 177.75		
Remaining Budget (%):	0.11%		

Budget by Phase:

Phase Name:	Final Design	Phase 11
Phase Budget:	\$ 61,500.00	
Previously Invoiced:	\$ 57,711.00	
Current Invoice:	\$ 3,630.75	
Invoiced to Date (\$):	\$ 61,341.75	
Invoiced to Date (%):	99.74%	
Remaining Budget (\$):	\$ 158.25	
Remaining Budget (%):	0.26%	

Comments: Finalized and submitted NPDES and Water Quality Management (WQM) Part 2 permit applications, including plans to CCCD and PADEP respectively. Received comments from CCCD on NPDES application thereafter and initiated plan and application revisions to address comments. Received mark-ups from PennDOT and HOP Detour plans, and prepared HOP plan revisions.

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 4/27/2016

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 687506
Invoice Period: 3/21/2016 to 4/17/2016
Initial Authorization: \$ 167,120.00 **Date:** 4/27/2016
Contract Amount: \$ 167,120.00
Previously Invoiced: \$ 160,312.50
Current Invoice: \$ 6,629.75
Invoiced to Date (\$): \$ 166,942.25
Invoiced to Date (%): 99.89%
Remaining Budget (\$): \$ 177.75
Remaining Budget (%): 0.11%

Budget by Phase:

Phase Name:	Permitting	Phase 12
Phase Budget:	\$ 28,610.50	
Previously Invoiced:	\$ 25,591.25	
Current Invoice:	\$ 2,999.00	
Invoiced to Date (\$):	\$ 28,590.25	
Invoiced to Date (%):	99.93%	
Remaining Budget (\$):	\$ 20.25	
Remaining Budget (%):	0.07%	

Comments: Finalized and submitted NPDES and Water Quality Management (WQM) Part 2 permit applications, including plans to CCCD and PADEP respectively. Received comments from CCCD on NPDES application thereafter and initiated plan and application revisions to address comments. Received mark-ups from PennDOT and HOP Detour plans, and prepared HOP plan revisions.

Reservoir Road Pump Station Design & Permitting

INVOICE SUMMARY

For Services Rendered through: 4/17/2016

Task No.	Activity	Contract Amount*	Invoiced Effort thru 2/14/2016	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	\$61,500.00	\$61,341.75	\$158.25	<1%	No
12	Permitting	\$28,610.50	\$28,590.25	\$20.25	<1%	No
TOTAL		\$167,120.00	\$166,941.50	\$178.50	<1%	

*After 12/14/2015 approved re-allocation of task budgets.



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 # : 687507
Invoice Date : 04/27/2016
Project : EGMA1505
Project Name : RCSTP and Pump Station O&M Manual

For Services Rendered through: 4/17/2016

Reformatted draft O&M Manual to address Township's initial comments.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	323.00
Expense :	0.00
Phase Total :	323.00

Amount Due This Invoice

\$323.00

Fee :	12,500.00
Prior Billings :	4,549.75
Current Billings :	323.00
Total Billings :	4,872.75

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Project Engineer	0.75	97.00	72.75
Graduate Engineer	3.25	77.00	250.25
Labor Total:	4.00		323.00

Total Phase : **** -- Professional Services

Labor :	\$323.00
Expense :	\$0.00

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

Labor :	\$323.00
Expense :	\$0.00

OK RS 5-5-16

East Goshen Municipal Authority
EGMA1505 Invoice Summary
Invoice Date 04/27/2016

Project: EGMA1505
Pennoni Job No.: RCSTP & Pump Station O&M Manual
Invoice No: **687507**
Invoice Period: 3/21/2016 to 4/17/2016
Initial Authorization: \$ 12,500.00 **Date:** 4/27/2016
Contract Amount: \$ 12,500.00
Previously Invoiced: \$ 4,549.75
Current Invoice: \$ 323.00
Invoiced to Date (\$): \$ 4,872.75
Invoiced to Date (%): 39%
Remaining Budget (\$): \$ 7,627.25
Remaining Budget (%): 61%

Budget by Phase:

Phase Name: RCSTP & Pump Station O&M Manual
Phase Budget: \$ 12,500.00
Previously Invoiced: \$ 4,549.75
Current Invoice: \$ 323.00
Invoiced to Date (\$): \$ 4,872.75
Invoiced to Date (%): 39%
Remaining Budget (\$): \$ 7,627.25
Remaining Budget (%): 61%

Comments: Reformatted draft O&M Manual to address Township's initial comments.



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 # : 687508
Invoice Date : 04/27/2016
Project : EGMA1601
Project Name : 2016 General Services

For Services Rendered through: 4/17/2016

Analysis and vendor coordination for sizing and cost of portable bypass pumps for RCSTP and pump stations; provided grease protection info to PW Director for consideration at Hunt Country PS; prepared April Engineer's Report; and attended April MA meeting.

Phase : *** -- Professional Services

Total Phase : *** -- Professional Services

Labor :	782.50
Expense :	0.00
Phase Total :	782.50

Amount Due This Invoice

\$782.50

Fee :	12,300.00
Prior Billings :	2,422.00
Current Billings :	782.50
Total Billings :	3,204.50

Phase : *** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	5.75	115.00	661.25
Project Engineer	1.25	97.00	121.25
Labor Total:	7.00		782.50

Total Phase : *** -- Professional Services

Labor :	\$782.50
Expense :	\$0.00

Total Project : EGMA1601 -- 2016 General Services

Labor :	\$782.50
Expense :	\$0.00

ok IRS 5-5-16

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

East Goshen Municipal Authority
EGMA1601 Invoice Summary
Invoice Date 04/27/2016

Project:	EGMA1601		
Pennoni Job No.:	2016 General Services		
Invoice No:	687508		
Invoice Period:	3/21/2016	to	4/17/2016
Initial Authorization:	\$ 12,300.00	Date:	4/27/2016
Contract Amount:	\$ 12,300.00		
Previously Invoiced:	\$ 2,422.00		
Current Invoice:	\$ 782.50		
Invoiced to Date (\$):	\$ 3,204.50		
Invoiced to Date (%):	26%		
Remaining Budget (\$):	\$ 9,095.50		
Remaining Budget (%):	74%		

Budget by Phase:

Phase Name:	2016 General Services		
Phase Budget:	\$ 12,300.00		
Previously Invoiced:	\$ 2,422.00		
Current Invoice:	\$ 782.50		
Invoiced to Date (\$):	\$ 3,204.50		
Invoiced to Date (%):	26%		
Remaining Budget (\$):	\$ 9,095.50		
Remaining Budget (%):	74%		

Comments: Analysis and vendor coordination for sizing and cost of portable bypass pumps for RCSTP and pump stations; provided grease protection info to PW Director for sondieration at Hunt Country PS; prepared April Engineer's report; and attnded April MA meeting.



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 # : 687509
Invoice Date : 04/27/2016
Project : EGMA1603
Project Name : 2015 Chapter 94 Reports

For Services Rendered through: 4/17/2016

Finalized and submitted RCSTP and West Goshen Chp. 94 reports to PADEP and Westtown Tributary Report to Westtown Twp.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	2,579.25
Expense :	0.00
Phase Total :	2,579.25

Amount Due This Invoice

\$2,579.25

Fee :	15,000.00
Prior Billings :	4,882.75
Current Billings :	2,579.25
Total Billings :	7,462.00

Phase : **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	10.50	115.00	1,207.50
Project Engineer	0.25	97.00	24.25
Graduate Engineer	17.50	77.00	1,347.50
Labor Total:	28.25		2,579.25

Total Phase : **** -- Professional Services

Labor :	\$2,579.25
Expense :	\$0.00

Total Project : EGMA1603 -- 2015 Chapter 94 Reports

Labor :	\$2,579.25
Expense :	\$0.00

OK RS 5-5-16

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

East Goshen Municipal Authority
EGMA1603 Invoice Summary
Invoice Date 04/27/2016

Project: EGMA1603
Pennoni Job No.: 2015 Chapter 94 Reports
Invoice No: **687509**
Invoice Period: 3/21/2016 to 4/17/2016
Initial Authorization: \$ 15,000.00 **Date:** 4/27/2016
Contract Amount: \$ 15,000.00
Previously Invoiced: \$ 4,882.75
Current Invoice: \$ 2,579.25
Invoiced to Date (\$): \$ 7,462.00
Invoiced to Date (%): 50%
Remaining Budget (\$): \$ 7,538.00
Remaining Budget (%): 50%

Budget by Phase:

Phase Name: 2015 Chapter 94 Reports
Phase Budget: \$ 15,000.00
Previously Invoiced: \$ 4,882.75
Current Invoice: \$ 2,579.25
Invoiced to Date (\$): \$ 7,462.00
Invoiced to Date (%): 50%
Remaining Budget (\$): \$ 7,538.00
Remaining Budget (%): 50%

Comments: Finalized and submitted RCSTP and West Goshen Chp. 94 reports to PADEP and Westtown Tributary Report to Westtown Twp.



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 # : 687510
Invoice Date : 04/27/2016
Project : EGMA1604
Project Name : White Chimneys MH Lining Bid Doc

For Services Rendered through: 4/17/2016

Field visit to Epoxytec-lined example manholes with PW Dept and vendor, and evaluated construction contracting methodology for bidding vs. Costars.

Phase : *** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	657.50
Expense :	0.00
Phase Total :	657.50

Amount Due This Invoice

\$657.50

Fee :	7,400.00
Prior Billings :	4,389.00
Current Billings :	657.50
Total Billings :	5,046.50

Phase : *** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.50	115.00	172.50
Project Engineer	5.00	97.00	485.00
Labor Total:	6.50		657.50

Total Phase : **** -- Professional Services

Labor :	\$657.50
Expense :	\$0.00

Total Project : EGMA1604 -- White Chimneys MH Lining Bid Doc

Labor :	\$657.50
Expense :	\$0.00

o/c RS 5-5-16

East Goshen Municipal Authority
EGMA1601 Invoice Summary
Invoice Date 04/27/2016

Project: EGMA1604
Pennoni Job No.: White Chimneys MH Lining Bid Doc
Invoice No: 687510
Invoice Period: 3/21/2016 to 4/17/2016
Initial Authorization: \$ 4,400.00 **Date:** 4/27/2016
Contract Amount: \$ 7,400.00
Previously Invoiced: \$ 4,389.00
Current Invoice: \$ 657.50
Invoiced to Date (\$): \$ 5,046.50
Invoiced to Date (%): 68%
Remaining Budget (\$): \$ 2,353.50
Remaining Budget (%): 32%

Budget by Phase:

Phase Name: White Chimneys MH Lining Bid Doc
Phase Budget: \$ 7,400.00
Previously Invoiced: \$ 4,389.00
Current Invoice: \$ 657.50
Invoiced to Date (\$): \$ 5,046.50
Invoiced to Date (%): 68%
Remaining Budget (\$): \$ 2,353.50
Remaining Budget (%): 32%

Comments: Field visit to Epoxytec-lined example manholes with PW Dept and vendor, and evaluated construction contracting methodology for bidding vs Costars.

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA April Financial Reports
Date: May 6, 2016

In April, the Municipal Authority recorded \$106 in revenues (interest) and \$20,055 in expenses (including \$7,500 for auditing expenses, \$6,492 for general engineering services, and \$5,523 for Reservoir Road Pump Station engineering), for a negative variance of \$19,949. As of April 30th, the fund balance was \$1,429,231, of which \$1,388,525 is in the main construction account.

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

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2016

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

MUNICIPAL AUTHORITY BEGINNING FUND BALANCE			1,449,179.93	
---	--	--	---------------------	--

RCSTP BUDGET

REVENUE

INTEREST EARNED - RCSTP EXPANSION	07341 1020	1,500.00	105.33	428.74
GRANT REVENUE	07392 0800	0.00	0.00	0.00

TOTAL REVENUE		1,500.00	105.33	428.74
----------------------	--	-----------------	---------------	---------------

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
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RCSTP NET RESULT		1,500.00	105.33	428.74
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OPERATING BUDGET

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2016

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
REVENUE				
INTEREST EARNINGS	07341 1000	10.00	0.62	2.07
C.C. TAPPING FEES	07364 1100	4,000.00	0.00	0.00
R.C.TAPPING FEES	07364 1110	4,000.00	0.00	12,152.00
CONNECTION FEES - SEWER	07364 1130	0.00	0.00	845.64
MISCELLANEOUS REVENUE	07380 1000	0.00	0.00	423.36
TRANSFER FROM SEWER OPERATING	07392 0500	93,832.00	0.00	25,000.00
TOTAL REVENUE		101,842.00	0.62	38,423.07
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	0.00	0.00	7,705.49
MISCELLANEOUS EXPENSE	07424 3000	3,000.00	0.00	1,641.62
MUNIC.AUTH.-AUDITING	07424 3110	9,500.00	7,500.00	7,500.00
ENGINEERING SERVICES	07424 3130	38,500.00	6,491.75	23,335.25
LEGAL SERVICES	07424 3140	9,000.00	540.00	2,943.50
M.C.-DVRFA-DEBT SERVICE	07471 1000	24,920.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1000	3,172.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1010	0.00	0.00	0.00
TOTAL EXPENSES		88,092.00	14,531.75	43,125.86
OPERATING NET RESULT		13,750.00	(14,531.13)	(4,702.79)

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2016

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	0.00	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	5,522.75	27,770.75
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
ASBSTOS CONCRETE ENGINEERING	07429 3130	25,000.00	0.00	0.00
DIVERSION PROJ.- LEGAL	07429 3166	0.00	0.00	0.00
TOTAL EXPENSES		25,000.00	5,522.75	27,770.75
CAPITAL NET RESULT		(25,000.00)	(5,522.75)	(27,770.75)
MUNICIPAL AUTHORITY ENDING FUND BALANCE			1,429,231.38	

East Goshen Township General Ledger

Report Date 05/05/16

GL Transaction Details

PAGE 1

MGRP18 run by BRIAN

3 : 26 PM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000			INTEREST EARNINGS			0.00				
	1601	JE	51240		0.43		02/01/16	INTEREST		INTEREST EARNED JANUARY 2016 07 FUND
	1601			0.00	0.43	-0.43				
	1602		51651		0.51		03/01/16	INTEREST		INTEREST EARNED FEBRUARY 2016 07 FUND
	1602			0.00	0.51	-0.94				
	1603		52095		0.51		04/04/16	INTEREST		INTEREST EARNED MARCH 2016 07 FUND
	1603			0.00	0.51	-1.45				
	1604		52568		0.62		05/03/16	INTEREST		INTEREST EARNED APRIL 2016 07 FUND
	1604			0.00	0.62	-2.07				
07341-1000	****	***	*****	0.00	2.07	-2.07				
07341-1020			INTEREST EARNED - RCSTP EXPANSION			0.00				
	1601		51240		110.59		02/01/16	INTEREST		INTEREST EARNED JANUARY 2016 07 FUND
	1601			0.00	110.59	-110.59				
	1602		51651		103.56		03/01/16	INTEREST		INTEREST EARNED FEBRUARY 2016 07 FUND
	1602			0.00	103.56	-214.15				
	1603		52095		109.26		04/04/16	INTEREST		INTEREST EARNED MARCH 2016 07 FUND
	1603			0.00	109.26	-323.41				
	1604		52568		105.33		05/03/16	INTEREST		INTEREST EARNED APRIL 2016 07 FUND

Report Date 05/05/16

GL Transaction Details

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3 : 26 PM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
1604			0.00	105.33	-428.74				
07341-1020	****	*** *****	0.00	428.74	-428.74				
07364-1110	R.C.TAPPING FEES				0.00				
1601	CR	51204		5,004.00		01/28/16	1247	7875	1 SUNNY RIDGE FARMS LLC
1601			0.00	5,004.00	-5,004.00				
1602	RE	51557		7,148.00		02/23/16	51557 1		TAP IN FEE-957 CORNWALLIS DR
1602			0.00	7,148.00	-12,152.00				
07364-1110	****	*** *****	0.00	12,152.00	-12,152.00				
07364-1130	CONNECTION FEES - SEWER				0.00				
	CR	51318		423.00		02/05/16	804	9354	1 GEORGE SMITH & CHRISTINA CONLE
		51322		423.00		02/05/16	344	9356	1 JACOBS, ROBERT & CHERYL
		51357		423.00		02/08/16	2435	9355	1 STOFFLET, MICHAEL
	JE	51319	141.12			02/05/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		51323	141.12			02/05/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		51358	141.12			02/08/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
1602			423.36	1,269.00	-845.64				
07364-1130	****	*** *****	423.36	1,269.00	-845.64				
07380-1000	MISCELLANEOUS REVENUE				0.00				
		51319		141.12		02/05/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		51323		141.12		02/05/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		51358		141.12		02/08/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
1602			0.00	423.36	-423.36				
07380-1000	****	*** *****	0.00	423.36	-423.36				

Report Date 05/05/16

GL Transaction Details

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MGRP18 run by BRIAN 3 : 26 PM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07392-0500					0.00				
	1603	52022		25,000.00		03/28/16	DEPOSIT		DEPOSIT TO MUNICIPAL ACCT.
	1603		0.00	25,000.00	-25,000.00				
07392-0500	****	*** *****	0.00	25,000.00	-25,000.00				
07424-1400					0.00				
	CD	51990	7,705.49			03/24/16	3013	425	EAST GOSHEN TOWNSHIP - GENERAL Q1 2016 REIMBURSEMENT FROM MUN.A
	1603		7,705.49	0.00	7,705.49				
07424-1400	****	*** *****	7,705.49	0.00	7,705.49				
07424-3000					0.00				
	1601	50894	978.00			01/04/16	3004	2132	PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2016 ACTIVE MEMBERSHIP DUES
		51002	163.62			01/18/16	3005	2967	SAFEGUARD CHECK ORDER FEE
		51028	500.00			01/14/16	3006	2737	COMMONWEALTH OF PA NPDES PERMITS -CHAP.92A 2016 PERMIT# PA0050504
	1601		1,641.62	0.00	1,641.62				
07424-3000	****	*** *****	1,641.62	0.00	1,641.62				
07424-3110					0.00				
	1604	52313	7,500.00			04/18/16	3015	808	MAILLIE FALCONIERO & CO. FINANCIAL STMT. EXAMINATION 2015
	1604		7,500.00	0.00	7,500.00				
07424-3110	****	*** *****	7,500.00	0.00	7,500.00				
07424-3130					0.00				
	1602	51394	5,905.25			02/10/16	3008	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/17/16 RCSTP & PU STATION O&M MANUAL

Report Date 05/05/16

GL Transaction Details

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MGRP18 run by BRIAN 3 : 26 PM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3130	1602	CD	51527	1,063.75			02/23/16	3010	1052	PENNONI ASSOCIATES INC. SERV.THRU 12/13/16 2015 GEN.SER
	1602			6,969.00	0.00	6,969.00				
	1603		51813	9,874.50			03/15/16	3012	1052	PENNONI ASSOCIATES INC. SERVICES THRU 2/14/16 RCSTP PS O
	1603			9,874.50	0.00	16,843.50				
	1604		52227	6,491.75			04/12/16	3014	1052	PENNONI ASSOCIATES INC. SERV.THRU 3/20/16 WHITE CHIMNEY
	1604			6,491.75	0.00	23,335.25				
07424-3130	****	***	*****	23,335.25	0.00	23,335.25				
07424-3140			LEGAL SERVICES			0.00				
	1601		51149	400.00			12/17/15	3007	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICES 12/14/15 - GEN.AU
	1601			400.00	0.00	400.00				
	1602		51503	480.00			02/19/16	3009	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 1/11-1/29/16 GEN.A
	1602			480.00	0.00	880.00				
	1603		51813	1,523.50			03/15/16	3011	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE FEB.2016 - GEN. AU
	1603			1,523.50	0.00	2,403.50				
	1604		52428	540.00			04/21/16	3016	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE MARCH 2016 GEN.AUT
	1604			540.00	0.00	2,943.50				
07424-3140	****	***	*****	2,943.50	0.00	2,943.50				

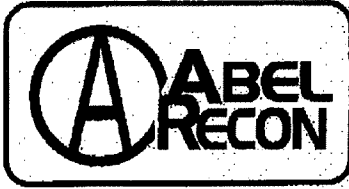
Report Date 05/05/16

GL Transaction Details

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MGRP18 run by BRIAN 3 : 26 PM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07428-1000					0.00				
	1602	51395	2,565.50			02/10/16	103	1052	PENNONI ASSOCIATES INC. SERVICE THRU 1/17/16 RESERV.RD.P
		51528	16,747.75			02/23/16	104	1052	PENNONI ASSOCIATES INC. SERVICE THRU 12/13/15 RESERV.RD
	1602		19,313.25	0.00	19,313.25				
	1603	51812	1,934.75			03/15/16	105	1052	PENNONI ASSOCIATES INC. SERV. THRU 2/14/16 RESERV.RD PS PENNDOT HOP
		52048	1,000.00			03/30/16	106	1496	WILLIAM WOOD CO. SEWER EASEMENT -1636 BOW TREE DR
	1603		2,934.75	0.00	22,248.00				
	1604	52173	500.00			04/07/16	107	3110	COMMONWEALTH OF PENNSYLVANIA WQM PERMIT APPLICATION
		52226	3,972.75			04/12/16	108	1052	PENNONI ASSOCIATES INC. SERV. THRU 3/20/16 PH.11 RESERV PS DESIGN
		52469	1,050.00			04/25/16	109	3671	PENNDOT PERMIT - HOP APPLICATION #100373
	1604		5,522.75	0.00	27,770.75				
07428-1000	****	*** *****	27,770.75	0.00	27,770.75				
Grand Total	71,319.97	39,275.17	32,044.80						



Abel Recon

P.O. Box 476, Mountville, PA 17554 - 0476 • 717/285-3103
Fax 717/285-2321 • www.abelrecon.com

May 4, 2016

Vendor #: 317637
Contract #: COSTARS-16030

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Attention: Mr. Mark Miller

RE: White Chimneys and Cornwallis Drive Manhole Rehabilitation

Mr. Miller,

We are pleased to submit the following for your above referenced project located in East Goshen Township, Chester County, Pennsylvania under COSTAR Contract # 16030. When accepted by you below, this will constitute our contract with respect to the work which is described in this proposal.

MANHOLE LINING PROPOSAL INCLUDES:

1. Cleaning, evaluation and any necessary minor interior surface repairs to manhole structure.
2. Application of SprayWall, as manufactured by Sprayroq. SprayWall Lining system will be applied to the interior of (19) 4-foot diameter manholes, totaling approximately 188 VF. Application will be at a thickness of 250 mils.
3. Holiday Detection Spark Testing.
4. By-pass gravity flow using standard flow-through equipment. General Contractor and/or Authority to provide by-pass operations for any force main flows. We anticipate pump truck bypass necessary for manholes #RO56 and #RO55 for a total of 9 hours. Per a 4/28/16 job site evaluation, all other manholes reviewed can be bypassed by Abel Recon crews utilizing flow through technology.

MANHOLE LINING PROPOSAL INCLUDES (continued):

6. The following items are excluded from the present scope of work, and if required, shall be performed on a time and material basis and charged in addition to the proposal amount.
 - a. Work related to the removal of temporary erosion control measures, site stabilization, installation of matting and seeding.
 - b. Access agreements and property owner coordination.
 - c. Traffic control that goes beyond traffic cones and signage.
 - d. Chemical grout applied to stop infiltration within manhole structure or any infiltration that may be present between host pipe and any existing cured-in-place liner.
 - e. By-pass pumping that exceeds the capacity of standard flow-through equipment.
 - f. Any necessary site clearing, as required for access to the work area. Access must be suitable for 2-wheel drive box truck vehicles.
 - g. Testing other than Holiday Detection testing.
 - h. Safety orientation requirements that may be required by Owner and/or General Contractor.

GENERAL NOTES:

1. Damage caused by others, to an item constructed under this contract, will not be the responsibility of Abel Recon. In addition, when a given item of work is tested and inspected by the governing authority, that item becomes the responsibility of the Owner or General Contractor to protect and maintain.
2. Prices for this project shall remain firm through June 4, 2016. Abel Recon reserves the right to review all prices after that date.

3. Invoices shall be submitted twice monthly. Payment shall be due within thirty (30) days after completion of the work invoiced. Abel Recon reserves the option to charge interest on any monies owed after thirty (30) days. Interest, if assessed, will be at Fulton Bank prevailing prime plus 2%. Abel Recon will invoice for work completed only, **and will not be subject to any contract retainage.**
4. Any alteration is to be agreed upon in writing by the Owner or General Contractor and Abel Recon.
5. Proposal is based on PA Prevailing Wage Rates.
6. Abel Recon reserves the right to set schedules based on weather, temperature conditions and equipment availability. Abel Recon is currently experiencing a 1 month lead time with manhole lining projects.
7. This Proposal excludes any Bonds or Permits.
8. Any dispute under this contract shall be resolved in Lancaster County, Pennsylvania and will be interpreted under Pennsylvania law including, but not limited to, the Contractor Act and Subcontractor Payment Act.

PROPOSAL BREAKDOWN:

Manhole Rehabilitation - **\$70,160.00** = \$373.20 / VF

- (19) 4 Feet Diameter Manhole Structures= 188 Vertical Feet
- The per Vertical Feet unit measures invert to base of rim casting

EAST GOSHEN MUNICIPAL AUTHORITY
2016 MANHOLE LINING PROPOSAL- COSTARS

ABEL RECON
MAY 4, 2016

Page 4 of 4

Thank you for the opportunity to quote this project. Should you accept this proposal, please sign, date and return proposal along with a purchase order. The purchase order should include the COSTARS Contract Number and your COSTARS Member Name and Number.

Respectfully submitted,

ABEL RECON



SCOT W. SNYDER
Project Manager

HAP WITMER
General Manager

ACCEPTED:

East Goshen Municipal Authority

Date

(Print Name and Title)

Pennon

MEMORANDUM

TO: East Goshen Municipal Authority Board
Rick Smith, Township Manager

FROM: Michael Ellis, P.E.
Authority Engineer

DATE: May 5, 2016

SUBJECT: Project Budgets

Following is the budget status and/or projected budgets for ongoing projects, some of which may require Municipal Authority approval to proceed.

EGMA1504 – Reservoir Road Pump Station

Project was approximately at the estimated T&M budget as of the 4/17/16 invoices. We still need to complete NPDES plan and application revisions to address CCCD's comments and to assemble the full bid document once all permits have been issued. Although not a CCCD comment, we identified an error in the stormwater design calculations while addressing their other comments that necessitated a partial re-design of the stormwater facilities. We are not charging for this re-design effort, which was approximately 30 hours of time. Other CCCD comment revisions, responses to any minor comments from PADEP on the WQM Permit application, and future bid document assembly is projected to be an additional \$6,000-\$7,000.

EGMA1505 – O&M Plan

Well under budget at this time, but all budget is expected to be ultimately needed.

EGMA1601 – 2016 General Services

On budget for approved annual fee through first 4 months of year.

EGMA1602 – Semi-Annual I&I Reports

On budget for approved annual fee through first 4 months of year

EGMA1603 – 2015 Chapter 94 Reports

Completed for half of approved annual fee with \$7,538 unused. Recommend holding approx \$400 of that unused budget in case PADEP has any review comments.

EGMA1604 – White Chimneys & Cornwallis Drive Manhole Lining

- The supplemental budget approved by the MA in April is projected to be adequate to complete the bid document and bid assistance work through construction contract award.
- Our scope does not include construction inspection or construction phase office support. The contractor is projecting 10-12 work days for construction. Half-time inspection plus 6-8 hours of engineering office support would be approximately \$5,000.

EGMA 1601

EGMA1605 – White Chimneys Manhole Replacement

The field survey and plan preparation is projected to be \$5,000-6,000. Add an additional \$1,000-\$2,000 for construction phase services and inspection/oversight. May require approval by MA.

EGMA1606 – RCSTP NPDES Permit Renewal Application

The application is projected to be \$4,500-6,000. May require approval by MA.



COMMONWEALTH ENGINEERS, INC.

114 East Lancaster Avenue ~ Second Floor ~ Downingtown, PA 19335
Telephone: (610) 518-9003 ~ Fax: (610) 518-9004 ~ comeng@cei-1.com

April 29, 2016

Mr. Mark Miller
Director of Public Works
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Re: Sewer Availability Letter for Brakman Property, East Goshen Township

Dear Mr. Miller,

Commonwealth Engineers, Inc., hereby requests a standard *Sewer Availability Letter* for the project detailed below. A location map and Project Narrative have been enclosed for your use.

Project Name: Brakman Property

Project Location: 1420 East Strasburg Road, West Chester (Parcel No. 5306 0089 0000)
5.079 Acres

Project Description: Subdivision of one (1) parcel into three (3) lots. Lot 1 contains one existing single-family dwelling (to remain) served by public water and on-site sewer. Lots 2 & 3 will each contain one single-family dwelling to be served by public water and sewer.

Lot 1 - 1 Proposed EDU for Existing Single Family Dwelling (currently utilizing on-site sewer)	211.5	gpd
Lot 2 - 1 Proposed EDU for 1 Single-Family Dwelling	211.5	gpd
Lot 3 - 1 Proposed EDU for 1 Single-Family Dwelling	<u>211.5</u>	<u>gpd</u>
Total of 3 Requested EDU's	<u>634.5</u>	<u>gpd</u>

Also, please provide us with any existing plans (if available), a Sewage Flow Map (for use with the Component 3 Sewage Facilities Planning Module) and the manhole number for discharge.

Please call if you have any questions or require additional information. My email is ttran@cei-1.com.

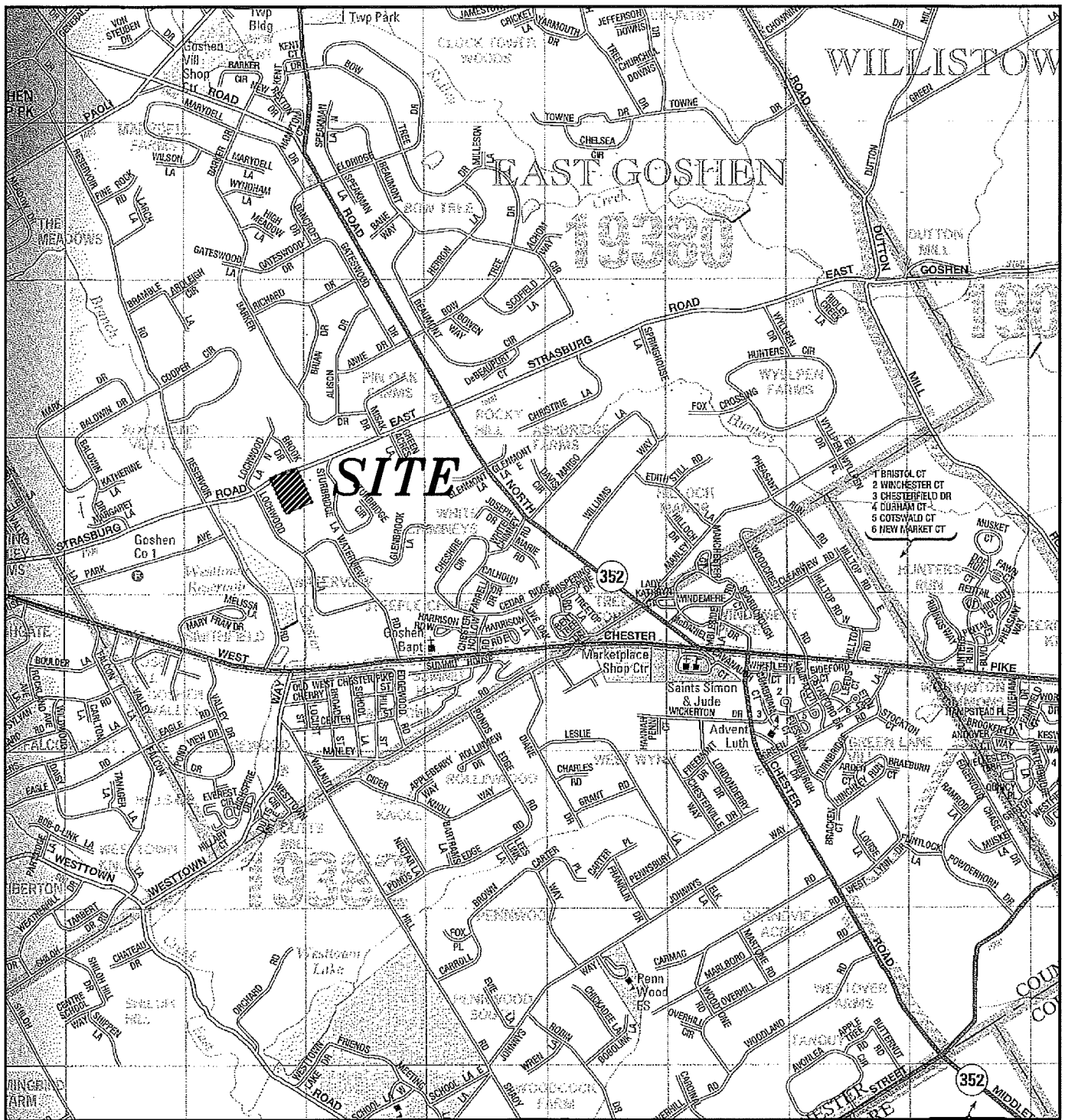
Sincerely,

Thomas Tran, P.E.
Project Engineer

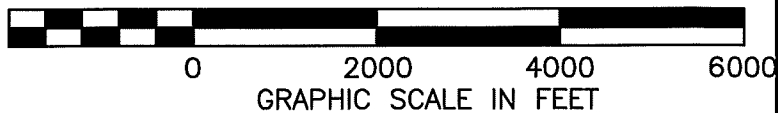
Enclosures:

G:\ACTIVE JOBS\2015\201541 Brakman Property\01 Administrative Files\03 Sewer & Water\201541 Sewer Will Serve Request_2016-04-29.doc

PROFESSIONAL CIVIL ENGINEERING



GRAPHIC SCALE 1" = 2000'



**LOCATION MAP
FOR
BRAKMAN PROPERTY**

EAST GOSHEN TOWNSHIP

CHESTER COUNTY, PA



COMMONWEALTH ENGINEERS, INC.

114 EAST LANCASTER AVENUE ~ SECOND FLOOR
DOWNTOWN, PA 19335
TELEPHONE: (610) 518-9003 ~ FAX: (610) 518-9004
COMENG@CEI-1.COM

DATE:	NA
SCALE:	AS SHOWN
SURVEY:	NA
DRAWN:	NA
CHECKED:	NA
DRAWING NO.	NA

SHEET:

1