

**EAST GOSHEN MUNICIPAL AUTHORITY**

**March 11, 2013**

**Monday 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. APPROVAL OF MINUTES
  - a. February 11, 2013
4. APPROVAL OF INVOICES

a. Pennoni #537504	\$	5,033.00
b. Pennoni #537505	\$	2,167.75
c. Pennoni #537506	\$	570.00
d. Pennoni #537507	\$	2,494.00
e. Pennoni #537508	\$	2,496.75
5. LIAISON REPORTS
6. FINANCIAL REPORTS
  - a. February 2013 Report
7. OLD BUSINESS
8. GOALS
  - a. February Goals
9. NEW BUSINESS
  - a. Consider Potential Acceptance of Oil and Gas Waste
  - b. NPDES Compliance Inspection Report
  - c. Consider ROW Agreement From Willow Pond Homeowners Assoc.
10. CAPACITY REQUESTS
  - a.
11. SEWER REPORTS
  - a. Director of Public Works Report
  - b. Pennoni Engineer's Report
  - c. Big Fish Environmental Inc Report with DMR's
  - d. East Goshen Township Flows for January 2013
12. ANY OTHER MATTER

13. CORRESPONDENCE AND REPORTS OF INTEREST
14. PUBLIC COMMENT
15. ADJOURNMENT

*Reminder* – NEWSLETTER ARTICLE SUBMISSION DUE DATES:

Article Due Date

Website Posting Date

April 2, 2013

draft  
**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY**  
**MEETING MINUTES**  
**February 11, 2013**

The East Goshen Township Municipal Authority held their regularly scheduled meeting on Monday, February 11, 2013 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Fran Beck, Jack Yahraes, and Kevin Cummings. Also in attendance were: Rick Smith (Township Manager), Dan Barbato (Pennoni), Scott Towler (BFES), 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>PR – Park &amp; Recreation Board</i>
<i>EPA – Environmental protection Agency</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
<i>HC – Historical Commission</i>	<i>SBR – Sequencing Batch Reactor</i>
<i>I&amp;I – Inflow &amp; Infiltration</i>	<i>SSO – Sanitary System Overflow</i>
<i>LCSTP – Lochwood Chase Sewer Treatment Plant</i>	<i>WAS – Waste Activated Sludge</i>

**Call to Order & Pledge of Allegiance**

Fran 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. Fran asked if anyone would be recording the meeting and there was no response.

**Chairman’s Report**

None

**Approval of Minutes**

The Chairman noted that the minutes of the January 14, 2013 meeting were approved as corrected.

**Approval of Invoices**

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

#534558	\$5,865.25
#534559	\$5,988.75
#534560	\$1200.00
#534561	\$ 574.50
#534562	\$ 338.75

Kevin seconded the motion. The motion passed unanimously.

2. Kevin moved to approve payment of the Earthcore invoice #104980 for \$2,600.00. Jack seconded the motion. The motion passed unanimously.

3. Jack moved to approve payment of the Willow Pond Homeowners invoice for \$1,000 and John Schroder for \$1,000. Kevin seconded the motion. The motion passed unanimously.

4. Kevin moved to approve payment of the Gawthrop Greenwood invoice #106045 for \$1,406.80. Jack seconded the motion. The motion passed unanimously.

1 5. Jack moved to approve payment of the Membership fee to PA Municipal Auth. Assoc. of  
2 \$950.00. Kevin seconded the motion. The motion passed unanimously.  
3

#### 4 **Liaison Reports**

5 1. Conservancy Board – Walter reported the Board received a request from a resident to  
6 consider installing a walking path at the Reservoir Road Preserve. The Board will review plans  
7 for the E Boot Road planting and will start to develop definitions for specimen trees.  
8

#### 9 **Financial Reports**

10 1. Jon Altshul, CFO, provided reports with the following comment: The Municipal  
11 Authority recorded \$18,979.26 in expenses and \$4.71 in revenues in the month of January, a  
12 difference of 418,974.55. The Fund balance is now \$42,909.87.  
13

#### 14 **Old Business**

15 None  
16

#### 17 **Goals**

18 1. The members reviewed the goals for 2013. Jack will provide an article for the  
19 Newsletter and Ed will attend the 1<sup>st</sup> quarter meeting at West Goshen.

20 2. Rick reported that the Board of Supervisors reviewed the Goals for 2013 of all of the  
21 ABCs and feel that some of them are really tasks. The BOS has prioritized the goals, which Rick  
22 gave to Fran. Also, a copy of the “Action Plan” from the Comprehensive Plan was provided so  
23 the MA can locate their goals and prioritize them.  
24

#### 25 **New Business**

26 1. Bid award recommendations from Michael Ellis, Pennoni, (see attached) were  
27 reviewed by the Authority members with the following results:

28 a. The recommended bids are: Marydell Pump Station Diversion, Contract No.  
29 MPS-2013 with bid by Ply-Mar Construction Co, Inc. of \$229,835.00 and  
30 Hershey Mill Pump Station Force Main Diversion, Contract No. HMPS-2013  
31 with bid by Delaware Valley Utility Contractors, Inc. of \$171,440.00.

32 b. Jack moved to award the 2 bids based on the recommendation of the  
33 Township engineer. Fran seconded the motion. The motion passed unanimously.

34 c. Rick reported that funds for the exceedence of the budget for the Hershey’s  
35 Mill and Reserve PS bids of approximately \$9,000 will be transferred. Kevin  
36 moved to approve the transfer of \$9,000 from the Marydell to the Hershey’s Mill  
37 Project. Jack seconded the motion. The motion passed unanimously.  
38

39 2. Easements – Chairman Fran Beck and Secretary Kevin Cummings signed the  
40 documents for the easements at Willow Pond.  
41

42 3. Comprehensive Plan update – Rick reported that a Comprehensive Plan Task Force  
43 is being formed. It will consist of 1 regular member and 1 alternate from each ABC except the  
44 Planning Commission which will have 2 members and 2 alternates. The first meeting will be  
45 Monday, February 25, 2013 at 7:00 pm at the Township Building. The update is expected to  
46 take about 18 months. The Municipal Authority will be asked to attend on an “as needed” basis.

1  
2 **Capacity Requests**

3 None  
4

5 **Sewer Reports**

- 6 1. **Mark Miller, Director of Public Works**, provided the following report for January:  
7 Meters – The meters were read on a daily basis with no problems to report.  
8

9 CC Collection: All pump stations were visited on a daily basis. We experienced a  
10 problem at the Ashbridge pumping station due to a power outage. The transducer was  
11 knocked off line; however, the back-up float system took over the operation. Once the  
12 power was restored, we were able to bring the transducer back on line. We will be  
13 changing out the air release valve on the Ashbridge force main due to flows. This work  
14 will be done during off hours.

15 We received a call for a lateral blockage at 1560 Tanglewood Drive. The blockage was  
16 between the clean-out and the sewer main. Once the lateral was cleared, the line was  
17 televised and we were able to determine that the line had a sag 5 feet below the tee. A  
18 PA One Call was made for the repairs. When the line was excavated, we found a sag in  
19 the lateral 8 feet long. The pipe was removed and we over excavated the trench and  
20 installed a foot of stone to bed the pipe.

21 RC Collection: Hunt Country Pump station was visited on a daily basis. The wet well  
22 was scraped due to a buildup of grease.

23 RC Plant: The Public Works Dept. was notified of a freezing problem in the screen  
24 room. We found that both heaters were down due to a motor failure. Upon further  
25 investigation, we found the heaters to be totally rusted out. I contacted the manufacturer  
26 who advised me that the warranty was no longer available. I asked them to price out new  
27 parts and a replacement cost for new heaters as well. The cost to replace the units was  
28 \$6,860.00. (Keep in mind they are explosion proof). The cost to replace the motors was  
29 \$1,750.00. It was decided to repair the existing units. Both units will be pulled out over  
30 the summer months due to the high humidity. We incurred a power outage at the plant on  
31 January 31 for a total of 18 hours.

32 Alarms: Alarms for the month ranged from power outages to a high level at the  
33 Ashbridge pumping station. We received a total of 18 alarms.

34 PA One Calls: We received 63 PA One calls for the month of January.

35 Rick reported that PECO called and wanted to shut off the switch inside the gate. Since  
36 it is inside the gate, it is the responsibility of the Township. PECO doesn't want any  
37 liability for it. Going forward, we will need a certified electrician to turn it off and on.  
38 Mark will make some calls.  
39

- 40 2. **Pennoni**: Dan Barbato provided the following engineer's report:

41 Invoices: Invoices with summaries are provided under separate cover.

42 Ridley Creek Sewage Treatment Plant (RCSTP) – Pennoni continues to coordinate with  
43 the Plant Operator and will provide operations assistance as needed. No issues were  
44 brought to our attention in January.

45 Marydell PS Elimination - We provided bid assistance services including preparation of  
46 Addendum #4, responding to questions from prospective bidders, conducting bid

1 opening, preparing the bid tabulation, reviewing bid documents, checking contractor  
2 references, and preparing an award recommendation letter.

3 We continued to coordinate with the various affected utility providers. We met with  
4 PECO on-site and have coordinated with them to brace poles along the new sewer route  
5 during construction. We added notes to the plans as requested by Sunoco, and we are  
6 awaiting a determination from Sunoco regarding existing gas main depths. Verizon has  
7 not provided any comments on the plans.

8 Hershey's Mill PS Diversion – We provided bid assistance services including conducting  
9 a non-mandatory pre-bid meeting on January 23, 2013, preparation of Addenda #1 and  
10 #2, responding to questions from prospective bidders, reviewing a request for an  
11 alternative “equivalent” cured-in-place manhole lining product, conducting bid opening,  
12 preparing the bid tabulation, reviewing bid documents, checking contractor references,  
13 and preparing an award recommendation letter.

14 We staked out the property line (one side of easement) between the Shope and Shumaker  
15 properties at 25-foot intervals.

16 We observed six soil auger borings along the proposed sewer alignment and prepared  
17 boring logs. The logs were included in Addendum #2 for use by directional drillers in  
18 bidding.

19 Reserve PS Elimination – No activity since last report.

20 The GP-5 “Utility Line Stream Crossing” permit does not allow any construction  
21 between March 1 and June 15 because the Ridley Creek tributary that will be crossed is a  
22 protected water use for trout stocking. We tentatively propose to put the project out to  
23 bid in March, with bids due in early April and award on April 8, 2013. The contract  
24 duration will be 120 days with flexibility on the construction start date.

25 Hershey's Mill Muffin Monster

26 No activity since last report.

27 Semi-Annual I/I Analysis – We analyzed portable and permanent meter data from the 4<sup>th</sup>  
28 quarter of 2012, and we prepared a brief, interim meter analysis summary report. Meter  
29 data will be analyzed again in March, and the formal semi-annual I/I report will be  
30 submitted by March 31, 2013.

31 Chapter 94 Annual Reports – We began to collect data and information required to  
32 prepare the reports. We analyzed portable and permanent meter data from calendar year  
33 2012, and we began to prepare the reports for the Westtown and West Goshen Service  
34 Areas.

35 DEP informed us that a Chapter 94 Report will not be required for the Lockwood Chase  
36 Sewage Treatment Plant since it was decommissioned in 2012. We will submit a letter to  
37 DEP documenting the Plant closure, in lieu of a full report, per their request.

- 38  
39 3. Big Fish Environmental Services, Inc., Scott Towler presented a report for January  
40 2013. The following is a summary:

41 Treatment Process Operation

42 During January, there were no exceedances of the final effluent discharge limitations for  
43 outfall 001. There was no discharge from outfall 002. The monthly average total  
44 phosphorus concentration was 0.23 mg/L as compared to the discharge limitation of 0.5  
45 mg/L. During the month, the final effluent total phosphorus concentration discharged  
46 ranged from <0.10 mg/L to .041 mg/L.

1 As a comparison, the December 2012 monthly average total phosphorus concentration  
2 was 0.20 mg/L. The total phosphorus concentration discharged ranged from <0.10  
3 mg/L to 0.38 mg/L.

4 Sequencing batch reactors (SBRs) 1, 3 and 4 were in service during the month of  
5 January. Process monitoring of each SBR included ammonia as N, nitrite as N, COD  
6 SSV MLSS and total phosphorus. Microscopic examinations and physical observation of  
7 the SBR MLSS and foam color is ongoing.

8 Daily monitoring of the influent and final effluent 24-hour composites samples for total  
9 phosphorus is ongoing. Daily analysis of the final effluent flow equalization grab sample  
10 of total phosphorus is ongoing.

11 Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal  
12 continued. The volume of aluminum sulfate solution to the SBRs was largely consistent  
13 through January with increased volume addition towards the end of the month. The  
14 increase in alum use is largely the result of placing the LMI chemical fee pump online  
15 beginning January 23, 2013. This chemical feed pump provides aluminum sulfate  
16 solution prior to filtration to assist in total phosphorus removal.

17 SBR 2 remains out of service. Approximately 8 feet (154,500 gallons) of mixed liquor  
18 was transferred to the sludge holding tanks for dewatering. The remaining contents are  
19 mixed and are aerated (blower in hand mode at reduced speed). Transfer of the  
20 remaining mixed liquor will occur as freezing conditions are minimized.

21 Process Monitoring On-Line Instrumentation

22 Kershner Technologies installed a ChemScan phosphate analyzer on January 29, 2013.

23 Comparison testing for reactive (ortho) and total phosphorus is ongoing with a formalized  
24 plan beginning February 10<sup>th</sup>.

25 During the month, the centrifuge dewatering system was placed in service. Sludge  
26 wasting to the sludge holding tanks and decanting of the sludge holding tanks was  
27 ongoing. Process monitoring included pH, total alkalinity and total solids.

28 Sludge holding tank #1 was in service. The level at the beginning of the month was  
29 10.54 feet and the level at the end of the month was 4.96 feet. The initial total solids  
30 concentration was 1.31% and ended the month as 0.70% total solids. A total of 118,125  
31 gallons of supernatant was decanted during the month.

32 Sludge holding tank #2 was in service. The level at the beginning of the month was 8.77  
33 feet and the level at the end of the month was 13.66 feet. The initial total solids  
34 concentration was 0.70% and ended the month as 0.73% total solids. No supernatant was  
35 decanted. Sludge was dewatered using the centrifuge.

36 Significant Storm Events – During January there was 1 significant rainfall event  
37 contributing to excessive influent wastewater flows to the treatment facility. The event  
38 occurred on January 31<sup>st</sup>. On the 31<sup>st</sup>, the influent flow to the SBRs was greater than  
39 100% of the daily average hydraulic design capacity from 3:51 AM through 8:38 AM.  
40 The treatment process experienced 3 filled decants; however, the final effluent composite  
41 sample was satisfactory.

42 Minor Repairs & Preventative Maintenance

- 43 a. ACS was contacted to schedule repair of the influent flow chart recorder.
- 44 b. ACS was contacted to provide a flow meter signal cable to connect the new  
45 influent “field” flow meter to the influent sampler located at the doghouse manhole to  
46 provide for flow proportioned sample collection of the influent wastewater.

1 In answer to Kevin's question about filamentous, Scott responded that it was ok and they are still  
2 on track to being compliant.  
3

4 **Any Other Matter**

5 None  
6

7 **Correspondence**

8 None  
9

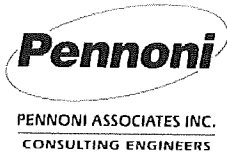
10 **Adjournment**

11 There being no further business, Jack moved to adjourn the meeting. Kevin seconded the  
12 motion. The motion passed unanimously. The meeting was adjourned at 7:40pm.  
13

14 Respectfully submitted,  
15

16  
17 Ruth Kiefer  
18 Recording Secretary





# INVOICE

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

Remit Payment To:  
Pennoni Associates Inc.  
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 # : 537504  
Invoice Date : 02/20/2013  
Project : EGMA1107  
Project Name : HersheyMill & Reserve PS Div Des  
Per

For Services Rendered through: 2/10/2013

Hershey's Mill PS Diversion - Observed soil borings and prepared boring logs; field stakeout of property line; conducted pre-bid meeting; responded to prospective bidders' questions; reviewed alternative manhole lining product submission; issued Addenda #1 and #2; conducted bid opening; checked low bidder's references; and prepared bid tabulation and award recommendation letter.

**Phase : 1 -- Design**

Total Phase : 1 -- Design

Labor :	1,123.50
Expense :	0.00
Phase Total :	1,123.50

**Phase : 3 -- Property Boundary Survey Allocation**

Total Phase : 3 -- Property Boundary Survey Allocation

Labor :	1,311.50
Expense :	0.00
Phase Total :	1,311.50

**Phase : 7 -- Bid Assistance**

Total Phase : 7 -- Bid Assistance

Labor :	2,598.00
Expense :	0.00
Phase Total :	2,598.00

**Amount Due This Invoice**

\$5,033.00

Fee :	69,200.00
Prior Billings :	56,547.75
Current Billings :	5,033.00
Total Billings :	61,580.75

OK RS 2-26

7426 - 1000 \$ 2516.50  
7427 - 1000 \$ 2516.50

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

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**Phase : 1 -- Design**

<b>Labor Class</b>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	2.25	110.00	247.50
Graduate Engineer	12.00	73.00	876.00
<b>Labor Total:</b>	<b>14.25</b>		<b>1,123.50</b>

<b>Total Phase : 1 -- Design</b>	<b>Labor :</b>	<b>\$1,123.50</b>
	<b>Expense :</b>	<b>\$0.00</b>

**Phase : 3 -- Property Boundary Survey Allocation**

<b>Labor Class</b>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Senior Surveyor	2.50	95.00	237.50
Senior Survey Technician	10.00	65.00	650.00
Survey Technician	8.00	53.00	424.00
<b>Labor Total:</b>	<b>20.50</b>		<b>1,311.50</b>

<b>Total Phase : 3 -- Property Boundary Survey Allocation</b>	<b>Labor :</b>	<b>\$1,311.50</b>
	<b>Expense :</b>	<b>\$0.00</b>

**Phase : 7 -- Bid Assistance**

<b>Labor Class</b>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Project Engineer	24.25	95.00	2,303.75
Graduate Engineer	2.25	73.00	164.25
Engineering Technician 1	2.00	65.00	130.00
<b>Labor Total:</b>	<b>28.50</b>		<b>2,598.00</b>

<b>Total Phase : 7 -- Bid Assistance</b>	<b>Labor :</b>	<b>\$2,598.00</b>
	<b>Expense :</b>	<b>\$0.00</b>

<b>Total Project : EGMA1107 -- HersheyMill &amp; Reserve PS Div Des Per</b>	<b>Labor :</b>	<b>\$5,033.00</b>
	<b>Expense :</b>	<b>\$0.00</b>

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

East Goshen Municipal Authority  
EGMA1107 Invoice Summary  
Invoice Date 02/20/2013

**Project:** EGMA1107  
**Pennoni Job No.:** Hershey Mill & Reserve PS Div Des Per  
**Invoice No:** 537504  
**Invoice Period:** 2/14/2013 to 2/10/2013  
**Initial Authorization:** \$ 60,200.00 **Date:** 7/7/2011  
**Contract Amount:** \$ 69,200.00  
**Previously Invoiced:** \$ 56,547.75  
**Current Invoice:** \$ 5,033.00  
**Invoiced to Date (\$):** \$ 61,580.75  
**Invoiced to Date (%):** 89%  
**Remaining Budget (\$):** \$ 7,619.25  
**Remaining Budget (%):** 11%

**Budget by Phase:**

**Phase No.** \*\*\*\*  
**Phase Name:** Hershey Mill & Reserve  
**Phase Budget:** \$ 69,200.00  
**Previously Invoiced:** \$ 56,547.75  
**Current Invoice:** \$ 5,033.00  
**Invoiced to Date (\$):** \$ 61,580.75  
**Invoiced to Date (%):** 89%  
**Remaining Budget (\$):** \$ 7,619.25  
**Remaining Budget (%):** 11%

**Comments:** Hershey's Mill PS Diversion - Observed soil borings and prepared boring logs; field stakeout of property line; conducted pre-bid meeting; responded to prospective bidders' questions; reviewed alternative manhole lining product submission; issued Addenda #1 and #2 ; conducted bid opening; checked low bidder's references; and prepared bid tabulation and award recommendation letter.



# INVOICE

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

Remit Payment To:  
Pennoni Associates Inc.  
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 # : 537505  
Invoice Date : 02/20/2013  
Project : EGMA1109  
Project Name : Marydell Pump Station Diversion

For Services Rendered through: 2/10/2013

Revised plans to address Sunoco's comments on Boot Rd utility crossings; responded to prospective bidders' questions; issued Addendum #4; field meeting on-site with PECO to resolve utility pole conflicts and bracing; conducted bid opening; checked low bidder's references; and prepared bid tabulation and award recommendation letter.

**Phase : 2 -- Sewer Stakeout and Easements**

Total Phase : 2 -- Sewer Stakeout and Easements

Labor :	308.75
Expense :	0.00
Phase Total :	308.75

**Phase : 3 -- PaDEP Closure Plan**

Total Phase : 3 -- PaDEP Closure Plan

Labor :	206.25
Expense :	0.00
Phase Total :	206.25

**Phase : 5 -- Bid Assistance**

Total Phase : 5 -- Bid Assistance

Labor :	235.25
Expense :	0.00
Phase Total :	235.25

**Phase : 6 -- Additional Meetings**

Total Phase : 6 -- Additional Meetings

Labor :	1,417.50
Expense :	0.00
Phase Total :	1,417.50

**Amount Due This Invoice**

\$2,167.75

Fee :	36,100.00
Prior Billings :	31,509.00
Current Billings :	2,167.75
Total Billings :	33,676.75

*ok RS 2/25*

*7425-1000*

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

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**Phase : 2 -- Sewer Stakeout and Easements**

<b>Labor Class</b>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Project Engineer	3.25	95.00	308.75
<b>Labor Total:</b>	<b>3.25</b>		<b>308.75</b>

<b>Total Phase : 2 -- Sewer Stakeout and Easements</b>	<b>Labor :</b>	<b>\$308.75</b>
	<b>Expense :</b>	<b>\$0.00</b>

**Phase : 3 -- PaDEP Closure Plan**

<b>Labor Class</b>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Project Engineer	0.25	95.00	23.75
Graduate Engineer	2.50	73.00	182.50
<b>Labor Total:</b>	<b>2.75</b>		<b>206.25</b>

<b>Total Phase : 3 -- PaDEP Closure Plan</b>	<b>Labor :</b>	<b>\$206.25</b>
	<b>Expense :</b>	<b>\$0.00</b>

**Phase : 5 -- Bid Assistance**

<b>Labor Class</b>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Project Engineer	0.75	95.00	71.25
Staff Engineer	1.50	85.00	127.50
Graduate Engineer	0.50	73.00	36.50
<b>Labor Total:</b>	<b>2.75</b>		<b>235.25</b>

<b>Total Phase : 5 -- Bid Assistance</b>	<b>Labor :</b>	<b>\$235.25</b>
	<b>Expense :</b>	<b>\$0.00</b>

**Phase : 6 -- Additional Meetings**

<b>Labor Class</b>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Project Engineer	14.25	95.00	1,353.75
Staff Engineer	0.75	85.00	63.75
<b>Labor Total:</b>	<b>15.00</b>		<b>1,417.50</b>

<b>Total Phase : 6 -- Additional Meetings</b>	<b>Labor :</b>	<b>\$1,417.50</b>
	<b>Expense :</b>	<b>\$0.00</b>

<b>Total Project : EGMA1109 -- Marydell Pump Station Diversion</b>	<b>Labor :</b>	<b>\$2,167.75</b>
	<b>Expense :</b>	<b>\$0.00</b>

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

East Goshen Municipal Authority  
EGMA 1109 Invoice Summary  
Invoice Date 02/20/2013

**Project:** EGMA1109  
**Pennoni Job No.:** Marydell Pump Station Diversion  
**Invoice No:** 537505  
**Invoice Period:** 1/14/2013 to 2/10/2013  
**Initial Authorization:** \$ 45,100.00 **Date:** 2/22/2012  
**Contract Amount:** \$ 36,100.00  
**Previously Invoiced:** \$ 31,509.00  
**Current Invoice:** \$ 2,167.75  
**Invoiced to Date (\$):** \$ 33,676.75  
**Invoiced to Date (%):** 93%  
**Remaining Budget (\$):** \$ 2,423.25  
**Remaining Budget (%):** 7%

**Budget by Phase:**

**Phase No.** \*\*\*\*\*  
**Phase Name:** Marydell Pump Station Diversion  
**Phase Budget:** \$ 36,100.00  
**Previously Invoiced:** \$ 31,509.00  
**Current Invoice:** \$ 2,167.75  
**Invoiced to Date (\$):** \$ 33,676.75  
**Invoiced to Date (%):** 93%  
**Remaining Budget (\$):** \$ 2,423.25  
**Remaining Budget (%):** 7%

**Comments:** Revised plans to address Sunoco's comments on Boot Rd utility crossings; responded to prospective bidders' questions; issued Addendum #4; field meeting on-site with PECO to resolve utility pole conflicts and bracing; conducted bid opening; checked low bidder's references; and prepared bid tabulation and award recommendation letter.



# INVOICE

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

Remit Payment To:  
Pennoni Associates Inc.  
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 #: 537506  
Invoice Date: 02/20/2013  
Project: EGMA1301  
Project Name: 2013 General Services

For Services Rendered through: 2/10/2013

Engineer's report and attendance at January MA Meeting.

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

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

Labor :	570.00
Expense :	0.00
Phase Total :	570.00

Amount Due This Invoice

\$570.00

Fee :	10,000.00
Prior Billings :	338.75
Current Billings :	570.00
Total Billings :	908.75

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

Labor

Class	Hours/ Units	Rate	Amount
Project Engineer	6.00	95.00	570.00
<b>Labor Total:</b>	<b>6.00</b>		<b>570.00</b>

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

Labor :	\$570.00
Expense :	\$0.00

Total Project : EGMA1301 -- 2013 General Services

Labor :	\$570.00
Expense :	\$0.00

o/c 2/25

7424 - 3130

East Goshen Municipal Authority  
EGMA1301 Invoice Summary  
Invoice Date 2/20/2013

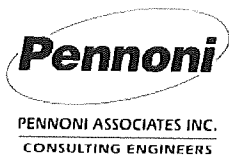
**Project:** EGMA1301  
**Pennoni Job No.:** 2013 General Services  
**Invoice No:** 537506  
**Invoice Period:** 1/14/2013 to 2/10/2013  
**Initial Authorization:** \$ 10,000.00 **Date:** 1/1/2013  
**Contract Amount:** \$ 10,000.00  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 570.00  
**Invoiced to Date (\$):** \$ 570.00  
**Invoiced to Date (%):** 6%  
**Remaining Budget (\$):** \$ 9,430.00  
**Remaining Budget (%):** 94%

**Budget by Phase:**

**Phase No.** \*\*\*\*  
**Phase Name:** 2013 General Services  
**Phase Budget:** \$ 10,000.00  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 570.00  
**Invoiced to Date (\$):** \$ 570.00  
**Invoiced to Date (%):** 6%  
**Remaining Budget (\$):** \$ 9,430.00  
**Remaining Budget (%):** 94%

**Comments:** Engineer's report and attendance at January MA Meeting.





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

**Remit Payment To:**  
**Pennoni Associates Inc.**  
**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 # : 537507**  
**Invoice Date : 02/20/2013**  
**Project : EGMA1302**  
**Project Name : 2013 Semi-Annual I&I Reports**

**For Services Rendered through: 2/10/2013**

Analyzed September thru December 2012 mid-period portable and permanent meter flow data; and prepared and issued interim flow meter summary report.

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

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

**Labor : 2,494.00**  
**Expense : 0.00**  
**Phase Total : 2,494.00**

**Amount Due This Invoice**

**\$2,494.00**

**Fee : 10,000.00**  
**Prior Billings : 0.00**  
**Current Billings : 2,494.00**  
**Total Billings : 2,494.00**

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

<b>Labor Class</b>	<b>Hours/Units</b>	<b>Rate</b>	<b>Amount</b>
Project Engineer	10.50	95.00	997.50
Graduate Engineer	20.50	73.00	1,496.50
<b>Labor Total:</b>	<b>31.00</b>		<b>2,494.00</b>

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

**Labor : \$2,494.00**  
**Expense : \$0.00**

**Total Project : EGMA1302 -- 2013 Semi-Annual I&I Reports**

**Labor : \$2,494.00**  
**Expense : \$0.00**

*OK RS 2/25*  
*7424 3130*

East Goshen Municipal Authority  
EGMA1302 Invoice Summary  
Invoice Date 2/20/2013

**Project:** EGMA1302  
**Pennoni Job No.:** 2013 Semi-Annual I&I Reports  
**Invoice No:** 537507  
**Invoice Period:** n/a to 2/10/2013  
**Initial Authorization:** \$ 10,000.00 **Date:** 1/1/2013  
**Contract Amount:** \$ 10,000.00  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 2,494.00  
**Invoiced to Date (\$):** \$ 2,494.00  
**Invoiced to Date (%):** 25%  
**Remaining Budget (\$):** \$ 7,506.00  
**Remaining Budget (%):** 75%

**Budget by Phase:**  
**Phase No.** \*\*\*\*  
**Phase Name:** 2013 Semi-Annual I&I Reports  
**Phase Budget:** \$ 10,000.00  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 2,494.00  
**Invoiced to Date (\$):** \$ 2,494.00  
**Invoiced to Date (%):** 25%  
**Remaining Budget (\$):** \$ 7,506.00  
**Remaining Budget (%):** 75%

**Comments:** Analyzed September thru December 2012 mid-period portable and permanent meter flow data; and prepared and issued interim flow meter summary report.



# INVOICE

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

Remit Payment To:  
Pennoni Associates Inc.  
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 # : 537508  
Invoice Date : 02/20/2013  
Project : EGMA1303  
Project Name : 2012 Chapter 94 Report

For Services Rendered through: 2/10/2013

Began preparation, analyses, and obtaining information for Chapter 94 Report; coordination with DEP to determine reporting requirements for Lockwood Chase STP.

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

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

Labor : 2,496.75  
Expense : 0.00  
Phase Total : 2,496.75

Amount Due This Invoice

\$2,496.75

Fee : 14,000.00  
Prior Billings : 0.00  
Current Billings : 2,496.75  
Total Billings : 2,496.75

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

Labor

Class	Hours/ Units	Rate	Amount
Project Engineer	1.50	95.00	142.50
Graduate Engineer	32.25	73.00	2,354.25
<b>Labor Total:</b>	<b>33.75</b>		<b>2,496.75</b>

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

Labor : \$2,496.75  
Expense : \$0.00

Total Project : EGMA1303 -- 2012 Chapter 94 Report

Labor : \$2,496.75  
Expense : \$0.00

ok RS 2/25

7424 3130

East Goshen Municipal Authority  
EGMA1303 Invoice Summary  
Invoice Date 2/20/2013

**Project:** EGMA1303  
**Pennoni Job No.:** 2012 Chapter 94 Report  
**Invoice No:** 537508  
**Invoice Period:** 1/14/2013 to 2/10/2013  
**Initial Authorization:** \$ 14,000.00 **Date:** 1/1/2013  
**Contract Amount:** \$ 14,000.00  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 2,496.75  
**Invoiced to Date (\$):** \$ 2,496.75  
**Invoiced to Date (%):** 18%  
**Remaining Budget (\$):** \$ 11,503.25  
**Remaining Budget (%):** 82%

**Budget by Phase:**

**Phase No.** \*\*\*\*  
**Phase Name:** 2012 Chapter 94 Report  
**Phase Budget:** \$ 14,000.00  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 2,496.75  
**Invoiced to Date (\$):** \$ 2,496.75  
**Invoiced to Date (%):** 18%  
**Remaining Budget (\$):** \$ 11,503.25  
**Remaining Budget (%):** 82%

**Comments:** Began preparation, analyses, and obtaining information for Chapter 94 Report; coordination with DEP to determine reporting requirements for Lockwood Chase STP.

# Memo

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To: Municipal Authority  
From: Jon Altshul  
Re: MA February Financial Report  
Date: March 7, 2013

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The Municipal Authority recorded \$19,794.15 in expenses and \$32,118.39 in revenues (primarily from a \$30,000 transfer from the sewer capital reserve fund, but also from the repayment of the Pine Rock loan) in the month of February, a difference of \$12,324.24. The fund balance is now \$55,234.11.

I am also attaching a worksheet for the 2013 quarterly administrative charge back. We plan to charge this amount in March (and June, September and December) to the Municipal Authority for overhead costs.

**EAST GOSHEN TOWNSHIP  
1580 PAOLI PIKE  
WEST CHESTER, PA 19380  
(610) 692-7171**

March 1, 2013

**MUNICIPAL AUTHORITY EXPENSES:  
1st QTR 2013**

	<b>AMOUNT</b>	<b>NOTES</b>
<b>ABC Secretarial Services (Preparing &amp; distributing packets):</b>	<b>\$1,758.12</b>	15% of salary & benefits
<b>Secretarial Services (Taking &amp; Preparing Minutes):</b>		
<b>Director of Finance/Treasurer</b>	<b>\$210.00</b>	6 hours @ \$35 hours/hour
<b>Staff Accountant:</b>		
<b>Director of Public Works:</b>	<b>\$1,109.68</b>	5% of salary & benefits
<b>Manager:</b>	<b>\$970.58</b>	5% of salary & benefits
	<b>\$1,869.66</b>	5% of salary & benefits
	<b><u>\$2,062.32</u></b>	5% of salary & benefits
	<b>\$7,980.36</b>	
	07424-1400	

Tia Piccolo  
Staff Accountant

EAST GOSHEN TOWNSHIP  
 1580 PAOLI PIKE  
 WEST CHESTER, PA  
 Municipal Authority  
 February 2013

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
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MUNICIPAL AUTHORITY BEGINNING FUND BALANCE 42,909.87

RCSTP BUDGET

REVENUE				
INTEREST EARNED - RCSTP EXPANSION	07341 1020	50.00	4.91	8.88
GRANT REVENUE	07392 0800	0.00	0.00	0.00
TOTAL REVENUE		50.00	4.91	8.88

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 AUTHORITY CAP FUND	07492 0990	992,470.00	0.00	0.00
TOTAL EXPENSES		992,470.00	0.00	0.00

RCSTP NET RESULT		(992,420.00)	4.91	8.88
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**EAST GOSHEN TOWNSHIP**  
**1580 PAOLI PIKE**  
**WEST CHESTER, PA**  
**Municipal Authority**  
**February 2013**

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
<b>OPERATING BUDGET</b>				
<b>REVENUE</b>				
INTEREST EARNINGS	07341 1000	50.00	0.48	1.22
C.C. TAPPING FEES	07364 1100	128,000.00	0.00	0.00
R.C. TAPPING FEES	07364 1110	2,000.00	0.00	0.00
CONNECTION FEES - SEWER	07364 1130	0.00	1,689.64	1,689.64
MISCELLANEOUS REVENUE	07380 1000	1,000.00	423.36	423.36
TRANSFER FROM SEWER OPERATING	07392 0500	121,696.00	0.00	0.00
<b>TOTAL REVENUE</b>		<b>252,746.00</b>	<b>2,113.48</b>	<b>2,114.22</b>
<b>EXPENSES</b>				
ADMINISTRATIVE WAGES	07424 1400	33,547.00	0.00	0.00
MISCELLANEOUS EXPENSE	07424 3000	5,000.00	0.00	1,450.00
MUNIC.AUTH.-AUDITING	07424 3110	8,843.00	0.00	0.00
ENGINEERING SERVICES	07424 3130	35,000.00	1,538.75	4,803.50
LEGAL SERVICES	07424 3140	7,000.00	1,406.80	4,695.90
M.C.-DVRFA-DEBT SERVICE	07471 1000	20,720.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1000	6,003.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1010	5,583.00	0.00	0.00
<b>TOTAL EXPENSES</b>		<b>121,696.00</b>	<b>2,945.55</b>	<b>10,949.40</b>
<b>OPERATING NET RESULT</b>		<b>131,050.00</b>	<b>(832.07)</b>	<b>(8,835.18)</b>



**EAST GOSHEN TOWNSHIP**  
 1580 PAOLI PIKE  
 WEST CHESTER, PA  
 Municipal Authority  
 February 2013

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
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**CAPITAL BUDGET**

**REVENUE**

LOAN PROCEEDS-SEWER PROJECT	07392 0804	992,470.00	0.00	0.00
TRANSFER FROM SEWER CAP RESERVE	07392 0900	556,769.00	30,000.00	30,000.00
<b>TOTAL REVENUE</b>		<b>1,549,239.00</b>	<b>30,000.00</b>	<b>30,000.00</b>

**EXPENSES**

MARYDELL PUMP STATION - ENGINEER	07425 1000	25,000.00	5,988.75	11,482.50
MARYDELL PUMP STATION -CONSTRUCTION	07425 2000	170,000.00	0.00	0.00
LOCHWOOD ABANDONMENT ENGINEER	07424 7475	0.00	574.50	1,086.00
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7476	55,769.00	0.00	246.01
LOCHWOOD ELIMINATION PHASE 2	07424 7477	0.00	(179.90)	200.00
HERSHEY MILL STATION - ENGINEER	07426 1000	25,000.00	5,532.62	7,829.74
HERSHEY MILL STATION - CONSTRUCTION	07426 2000	46,000.00	0.00	0.00
RESERVE PUMP STATION - ENGINEER	07427 1000	25,000.00	4,932.63	6,979.76
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	93,000.00	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0.00	0.00	0.00
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
<b>TOTAL EXPENSES</b>		<b>439,769.00</b>	<b>16,848.60</b>	<b>27,824.01</b>

**CAPITAL NET RESULT**

	1,109,470.00	13,151.40	2,175.99
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**MUNICIPAL AUTHORITY ENDING FUND BALANCE**

55,234.11

**MARCH 2013**  
**EAST GOSHEN MUNICIPAL AUTHORITY GOALS**

ON-GOING

1. Submit an article for each newsletter.
  - a. Need by 3/1/13 - Jack
  - b. Need by 6/1/13
  - c. Need by 9/1/13
  - d. Need by 12/1/13
  
2. Attend West Goshen Meetings quarterly – more often if needed.
  - a. 1<sup>st</sup> Quarter (March) - Ed
  - b. 2<sup>nd</sup> Quarter (June)
  - c. 3<sup>rd</sup> Quarter (September)
  - d. 4<sup>th</sup> Quarter (December)
  
3. Respond to capacity requests in 45 days or less.
  
4. Continue to implement I & I Plan
  
5. Operate RCSTP in compliance with NPDES Permit

PROJECTS

1. Lockwood – Final Restoration
  
2. Marydell Pump Station – Construction – **Bid awarded**
  
3. Hershey Mill Pump Station – Construction - **Bid awarded**
  
4. Reserve Pump Station – Construction -
  
5. Borrowing – Reimburse Capital Reserve for design and construction funds.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

February 7, 2013



Louis Smith Jr. Twp Manager  
Ridley Creek WWTP  
1580 Paoli Pike  
West Chester, PA 19380-6107

Re: Potential Acceptance of Oil and Gas Waste  
NPDES Permit No - PA0050504

Dear Louis Smith Jr., Twp Manager

The purpose of this letter is to clarify the procedures that a publicly-owned treatment works (POTW) in Pennsylvania must follow and approvals that must be obtained prior to a POTW accepting a new waste, including any waste that is significantly different than a previously accepted waste, for disposal or treatment. In the Commonwealth of Pennsylvania, the Pennsylvania Department of Environmental Protection (PADEP) is authorized to implement the National Pollutant Discharge Elimination System (NPDES) Permit Program under U.S. Environmental Protection Agency (EPA) oversight, with the exception of the Pretreatment Program which the EPA implements. Your facility has been identified as one which is covered by an NPDES permit issued by PADEP, but not currently covered under a Pretreatment Program approved by EPA.

Issuance of an NPDES permit authorizes a facility to discharge waste in accordance with the permit and consistent with the quantity and characteristics of the waste identified in the NPDES permit application submitted by the permittee. Where the quantity or characteristics of the waste change, the discharger is required to notify the permitting authority, obtain a revised NPDES permit, and obtain approval of revisions to its approved pretreatment program as necessary to prevent pass through and interference with operations at the POTW. For POTWs, 40 CFR Part 122.42(b) requires that the POTW provide adequate notification of:

- (1) any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging those pollutants; and
- (2) any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of permit issuance.

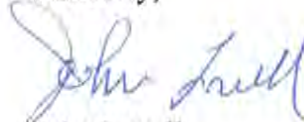


In addition, EPA also evaluates the notification to determine if the POTW will be required to develop and implement an approved pretreatment program. As an alternative, EPA may require that the POTW develop and enforce local limits to control the waste without development and implementation of a full pretreatment program in accordance with 40 CFR 403.5(c)(2). Note that all industrial user discharges to the POTW must comply with the specific prohibitions of 40 CFR 403.5(b), any applicable categorical standards, and any state and local limits.

Additional information on natural gas extraction can be found on EPA's website at the following address: <http://www.epa.gov/hydraulicfracture/>. Guidance on the basic requirements of the pretreatment program can be found on EPA's website at: [http://www.epa.gov/npdes/pubs/pretreatment\\_program\\_intro\\_2011.pdf](http://www.epa.gov/npdes/pubs/pretreatment_program_intro_2011.pdf). Information on development of local limits including EPA's *Local Limits Development Guidance* and a spreadsheet for calculation of local limits can be found at this web address: <http://www.epa.gov/reg3wapd/npdes/?tab1=3>.

If you have any questions regarding this matter, please do not hesitate to contact me at 215-814-5790 or via email at [lovell.john@epa.gov](mailto:lovell.john@epa.gov).

Sincerely,



John Lovell  
Pretreatment Program Coordinator  
NPDES Permits Branch (3WP41)  
Water Protection Division

cc: Jenifer Fields, PADEP Southeast Region  
Ron Furlan, PADEP Central Office  
Kelly Heffner, PADEP Central Office




COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

RECEIVED

MAR - 6 2013

**NPDES COMPLIANCE INSPECTION REPORT** BY \_\_\_\_\_  
**Section A: National Data System Coding**

NPDES				Mo. / Day / Yr.				Inspection Type				Inspection ID No.												
P	A	0	0	5	0	5	0	4	0	2	2	1	1	3	R	T	N	C						
Primary Facility Name East Goshen Municipal Authority								Municipal Authority or Operating Authority East Goshen																
Location of Facility 1751 Towne Drive										Permit Expiration Date 2/28/2017														
Municipality East Goshen						County Chester						Permit Renewal Application Due 9/1/2016												
Primary Facility Kind <input checked="" type="checkbox"/> Sewage <input type="checkbox"/> Industrial Waste <input type="checkbox"/> Stormwater <input type="checkbox"/> Other																								
Responsible Person Mr. Louis F. Smith, Jr							Operator in Responsible Charge Scott Towler																	
Title Township Manager							Certificate Number T0390			Class & Subclasses A, E 1,2,3,4			Client ID Number 196196											
Address 1580 Paoli Pike							Address																	
West Chester, PA 19380																								
Business Phone Number 610-692-7171				FAX Number				Business Phone Number 484-401-4198				Cell Phone Number												
E-mail Address							E-mail Address scott@bfesi.com																	
<b>VIOLATIONS:</b>		<input type="checkbox"/> Yes <input type="checkbox"/> Samples have been collected by the Department, violations may be revealed upon receipt of the analysis.																						
No violations noted. See Page 2 for additional information.																								
Name of Person Interviewed Scott Towler						Date 2/21/13		Name of Inspector Michael Brenner						Date 2/21/13										
Signature of Person Interviewed						Phone Number 484-401-4198		Signature of Inspector 						Phone Number 484-250-5154										
Title Operator						Title Water Quality Specialist																		
This document is official notification that a representative of the Department of Environmental Protection inspected the above facility or site. The findings of this inspection are shown above and on any attached pages. Any violations which were uncovered during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses of the discharge and review of Department records. Notification will be forthcoming, if such violations are noted.																								



## NPDES COMPLIANCE INSPECTION REPORT

Treatment Process				
Treatment Units	Total	On-Line	Inoperable	Comments
Muffin Monster	1	1	0	
Auger Monster	1	1	0	
Sequencing batch reactor	4	3	0	Only need three due to low flows
Disc filter	2	2	0	
Ultraviolet disinfection	2	1	0	Alternate active bank
Sludge holding tank	2	2	0	
Post-EQ tank	2	2	0	
Chemical Additions: Alum, magnesium hydroxide (intermittent)				
Process Control				
<input checked="" type="checkbox"/> Color and <input checked="" type="checkbox"/> Odor		Inspector Comments/Observations/Results Good color, no odor		
<input checked="" type="checkbox"/> Settleability (ml/L)		~150-180		
<input type="checkbox"/> Dissolved Oxygen (mg/L)				
<input type="checkbox"/> Sludge Blanket (ft.)				
<input type="checkbox"/> Mixed Liquor Suspended Solids (mg/L) <input type="checkbox"/> MLVSS				
<input type="checkbox"/> Microscopic Examination of MLSS				
<input type="checkbox"/> Others				
Page 2 of 4		Date: 2/21/2013		Permit No.: PA0050504

**NPDES COMPLIANCE INSPECTION REPORT****Additional Comments**

On this date, I conducted a routine inspection of the Ridley Creek STP in East Goshen Township. I was accompanied by Scott Towler of Big Fish Environmental Services, the certified operator, and Rob Sieve of Aqua, who performs routine operations. I made the following observations:

1. Influent flows are around 280,000-300,000. The plant is rated for 750,000 gpd. With average flows and loading being so far below design, the plant has had some operational and compliance challenges since its upgrade. Construction on the new plant began in 2008, and it was fully online in May 2010. The plant has been in compliance since October 2012. Scott said that a large volume of flow is expected to be routed to the plant beginning this summer, which will put the plant at around 85% of its design volume.
2. Influent passes through a Muffin Monster and an Auger Monster. Both units appeared to be working properly. The auger was not running when I checked it. Rob said that it activates automatically based on time, or on the height of water flowing into it (i.e. an accumulation of solids will cause it to run). Magnesium hydroxide slurry is sometimes used for pH adjustments. Rob said that soda ash seems to work better, so the magnesium hydroxide isn't used as often.
3. There are four sequencing batch reactors (SBRs). One of these units, SBR #2, is offline. That tank isn't needed because influent flows are so low. The tank can be used for storage during a major storm, as it was during Hurricane Sandy. A small amount of mixed liquor is kept in the tank to protect the treatment equipment. That tank was being aerated when I inspected it. I detected no foul odors around the SBRs.
4. The online SBRs appeared to be working properly. Each unit goes through a six-hour treatment cycle. The first two hours are the "fill" phases, which include anoxic static fill, mix static fill, and aerated fill. A total of 220 minutes of the 360 minute cycle is used for aeration (including aerated fill). One hour is used for settling. During "storm mode", only about 90 minutes are used for aeration. The settle time is also slightly decreased. Decanted water is sent to the disc filters. There are about 25-50 minutes of idle time in each SBR per cycle. I observed significant foam on the aerated SBRs. Scott and Rob said that there is a bit of a problem with filamentous bacteria, which is a symptom of the insufficient loading to the plant (i.e. low F/M ratio). The hope is that this problem will be alleviated this summer when flow and loading are increased.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

## NPDES COMPLIANCE INSPECTION REPORT

### Additional Comments

5. Effluent from the SBRs goes to the two post-EQ tanks, which aerates the SBR effluent. Water from these tanks goes to a floc tank mixer, where alum is added. From there, it's split between the two disc filters. Both filters were online and appeared to be functioning properly. The backwash from the filters goes to the influent wet well. Filter #2 is expected to be taken offline soon for cleaning.
6. The ultraviolet disinfection system appeared to be working properly. There are two banks of bulbs. Usually, only one bank is on at a time. The active bank is alternated every three weeks. During periods of high flow (i.e. over 300,000 gpd), both banks are used. The final effluent was very clear.
7. Scott reported a problem with grease in the influent. He said that grease is skimmed from the influent wet well about three times per week. He said that the Township has an active program aimed at reducing grease loading to the sewer system. The Township handles all aspects of collection system maintenance, including infiltration and inflow mitigation.
8. Rob informed me about a problem with the inflow flow meter, which has apparently been reporting inaccurately high numbers. Lenny Electric has been called to service the meter.
9. Influent and effluent samples are flow-proportioned.
10. There are two sludge holding tanks. Generally, under current flow conditions, only one SHT is needed. However, both were in use during the inspection. Sludge is aerated at all times, except prior to a decant. The plant had produced almost 273,000 gallons of sludge to date in February.





WILLOW POND HOMEOWNERS ASSOCIATION  
P.O. BOX 1176  
FRAZER, PA 19355

---

March 4, 2013

Louis F. Smith, Jr.  
Township Manager  
East Goshen Municipal Authority  
East Goshen Township  
1580 Paoli Pike  
West Chester, PA 19380-6199

**Re: ROW Agreement WPHA**

Dear Rick:

Enclosed is the executed ROW agreement with the correct acknowledgement pursuant to your instructions. You indicated you would provide a copy of the recorded document when it is available.

I have received the check. Thank you.

Any further follow up to my attention.

Very truly yours,

Joseph Zulli  
President  
Willow Pond Homeowners Association

Respond to 14 Pond View Lane, Malvern, PA 19355 or [jdzulli@comcast.net](mailto:jdzulli@comcast.net)

Prepared by/Return to:

Robert F. Adams, Esquire  
P. O. Box 562  
West Chester, PA 19381-0562

UPI # 53-2F-76.1

**RIGHT-OF-WAY AGREEMENT**

THIS AGREEMENT, made this \_\_\_\_\_ day of \_\_\_\_\_, 2013, between **EAST GOSHEN MUNICIPAL AUTHORITY** ("Authority"), a body corporate and politic organized and existing under and by virtue of the laws of the Commonwealth of Pennsylvania, in East Goshen Township, Chester County, Pennsylvania, and **WILLOW POND HOMEOWNERS ASSOCIATION** ("Owner"), also of East Goshen Township, Chester County, Pennsylvania,

WITNESSETH:

WHEREAS, the Owner owns a tract of land situate in East Goshen Township ("Township"), Chester County, Pennsylvania, located on the north side of Forest Lane, recorded in Book 2199, page 0291, in the office of the Recorder of Deeds of Chester County, Pennsylvania; and

WHEREAS, the Authority is now constructing modifications to the sewer system for the Township, as part of the project to eliminate the pump station at the Reserve at Spring Meadows, to serve certain areas of the Township for which the Authority must obtain a certain right-of-way and easement upon, over and under the aforesaid tract of land of the Owner.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, and in consideration of the payment to the Owner of the sum of One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged by the Owner, the Authority and the Owner, each intending to be legally bound hereby, do hereby agree as follows:

1. DEFINITIONS: The term "sewer lines" when used in this instrument shall refer to a sanitary sewer pipe, conduit, manhole, drain, marker, service connection and other appurtenances to be constructed by the Authority, meeting the specifications of the consulting engineers of the Authority, as approved by the Authority for use in the aforesaid sewer system within the sanitary sewer easement on Owner's property, as shown on the plan of "Proposed Easement for Proposed Sanitary Sewer Main" (Sketch No. 0076.01) prepared by Pennoni Associates, Inc., marked Exhibit "A," attached hereto and made a part hereof.

2. GRANT TO AUTHORITY: The Owner hereby gives and grants to the Authority the free and uninterrupted right, liberty and privilege:

- A. To install, construct, reconstruct, replace, remove, enlarge, inspect, operate, repair, make connections with and maintain perpetually such sewer lines, their accessories and appurtenances, as the Authority may from time to time require, consisting of underground pipes, conduits, manholes, drains, markers, mains, service connections and other appurtenances upon, over and under a strip of land of variable width, between 10.31 and 11.04 feet wide, more or less, across the aforesaid tract of land belonging to Owner as shown on Exhibit "A," and as more particularly described by metes and bounds on Exhibit "B," together with a temporary construction easement, as shown on Exhibit "A," during the period of construction.
- B. To carry away and dispose of sewage through said sewer lines, regardless of the source of such sewage.

TO HAVE AND TO HOLD the same perpetually to the Authority and its successors or assigns, together with the right and privilege at any and all times to enter the said premises, or any part thereof, provided that the Authority gives to the Owner reasonable advance notification of the nature of any intended work on the premises and the expected duration of such work, for the purpose of installing, constructing, reconstructing, replacing, removing, enlarging, inspecting, operating, repairing, maintaining, and/or making connections with the sewer lines or other appropriate means of access to the sewer lines; all upon the condition that the Authority will at all times during the construction, reconstruction, replacement, removal, repair or maintenance of the sewer lines cause every reasonable means to be used to protect from injury or damage all property, including lawns, trees, shrubbery, fences, buildings, walls, roads, water courses, natural features, or any existing improvement thereto, and will at all times after doing any work in connection with the construction, reconstruction, replacement, removal, repair or maintenance of the sewer lines, cause the said premises to be restored to the condition in which the same were found before such work was undertaken, including replacement and/or repair of damaged property, to the extent reasonably possible under the circumstances and consistent with the rights and privileges herein granted.

AND, the Authority hereby agrees to indemnify, hold harmless and defend the Owner from any loss, damage or liability incurred by Owner and caused by the acts, omissions, negligence or willful misconduct of the Authority, its agents, employees, contractors and other permitted users in connection with the exercise of its rights hereunder.

3. COVENANTS OF THE OWNER:

- A. The Owner does hereby release, remise, quitclaim and discharge the Authority, the Township and their several agents, servants, contractors and employees from any claim or right to damages or other emolument of value for the rights, liberties and privileges given and granted to the Authority under this Indenture.
- B. The Owner does hereby covenant that it is lawfully seized and possessed of a good and marketable title in fee simple to the aforesaid tract of land and that it has a good and lawful right to grant the rights and privileges herein granted to the Authority, and it further covenants that it will execute or procure any additional necessary assurances of the rights and privileges herein granted.
- C. The Owner does hereby expressly consent to any transfer, conveyance, pledge, lease or mortgage by the Authority of the said sewer lines, including, but not limited to, the leasing thereof by the Authority, as lessor, to the Township, as lessee.
- D. The Owner does hereby covenant that no structure or other obstruction shall be erected or permitted on the aforesaid strip of land.
- E. The provisions of this Indenture shall be binding upon and inure to the benefit of the Authority, its successors and assigns, and the Owner, its successors and assigns.

IN WITNESS WHEREOF, the parties hereto have caused this Indenture to be duly executed on the day and year first above written.

Attest: EAST GOSHEN MUNICIPAL AUTHORITY

\_\_\_\_\_  
Secretary

By: \_\_\_\_\_  
Chairman

Attest: WILLOW POND HOMEOWNERS ASSOCIATION

*Marianne McGill*  
\_\_\_\_\_

By: *Joyce McGill*  
\_\_\_\_\_  
Title  
President

COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF CHESTER

ON THIS, the \_\_\_\_\_ day of \_\_\_\_\_, 2013, before me, a notary public in and for said County and Commonwealth, personally appeared \_\_\_\_\_, who acknowledged himself to be the Chairman of **EAST GOSHEN MUNICIPAL AUTHORITY**, and that he, as such, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

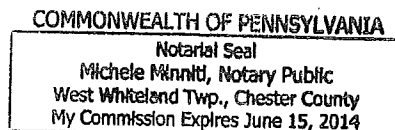
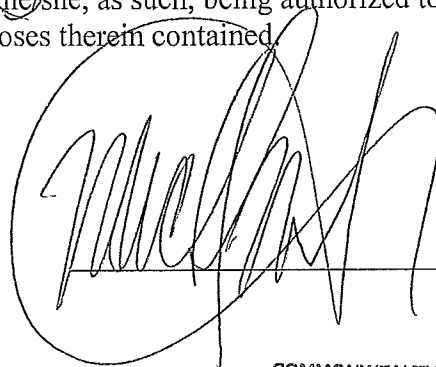
WITNESS my hand and official seal.

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COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF CHESTER

ON THIS, the 20<sup>th</sup> day of Feb, 2013, before me, a notary public, in and for the aforesaid County and Commonwealth, personally appeared Joseph Dennis Zulu, who acknowledged himself/herself to be the Pres. of **WILLOW POND HOMEOWNERS ASSOCIATION**, and that he/she, as such, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

WITNESS my hand and notarial seal.



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

March 8, 2013

To: Municipal Authority  
From: Mark Miller  
Re: February 2013 Monthly Report

- Meters:** The meters have been installed and working well. We had a problem with the portable meter at Reservoir and Strasburg Road, Allied Control found the main board had failed meter was pulled and sent out for repair.
- Pump Stations:** Were visited on a daily basis bar screens were cleaned and the walls were cleaned. The Mary Dell pump station called in several alarms last Sunday. We found a bad float which was replaced. We contacted Aqua Wastewater to vac the wet well due to heavy grease build up.
- C.C. Collection:** We were notified of a lateral backup at 1448 Linden Lane. We made several attempts to clear the clog unfortunately the clog was in the trap. We utilized the jetter to clean the main, once that was done we dropped the camera in the main and televised the 8" line which was clear; however when we looked at the lateral connection we could see a heavy root buildup. We made several more attempts to clear the roots to no avail. We excavated the lateral (see attached photos) and found the trap completely blocked. We installed a new trap and clean out. We televised the lateral prior to backfilling and everything is ok.  
We were notified of a manhole over flowing on Paoli Pike; it turned out to be a Verizon manhole.
- R.C. Collection:** We did televising of some lines at Pulte homes to investigate for sump pump tie-ins; we found no evidence of sump pumps.
- R.C. Plant:** The plant operator notified us of heavy grit build up in front of the muffin monster. I contacted Aqua Wastewater for a vac truck, the line was completely cleaned. Lenni Electric was utilized to install four – 220

outlets for the pressure washer at various locations at the plant. We are in the process of fabricating three pipe stands for the filtration pumps; this will allow us to remove pumps for servicing.

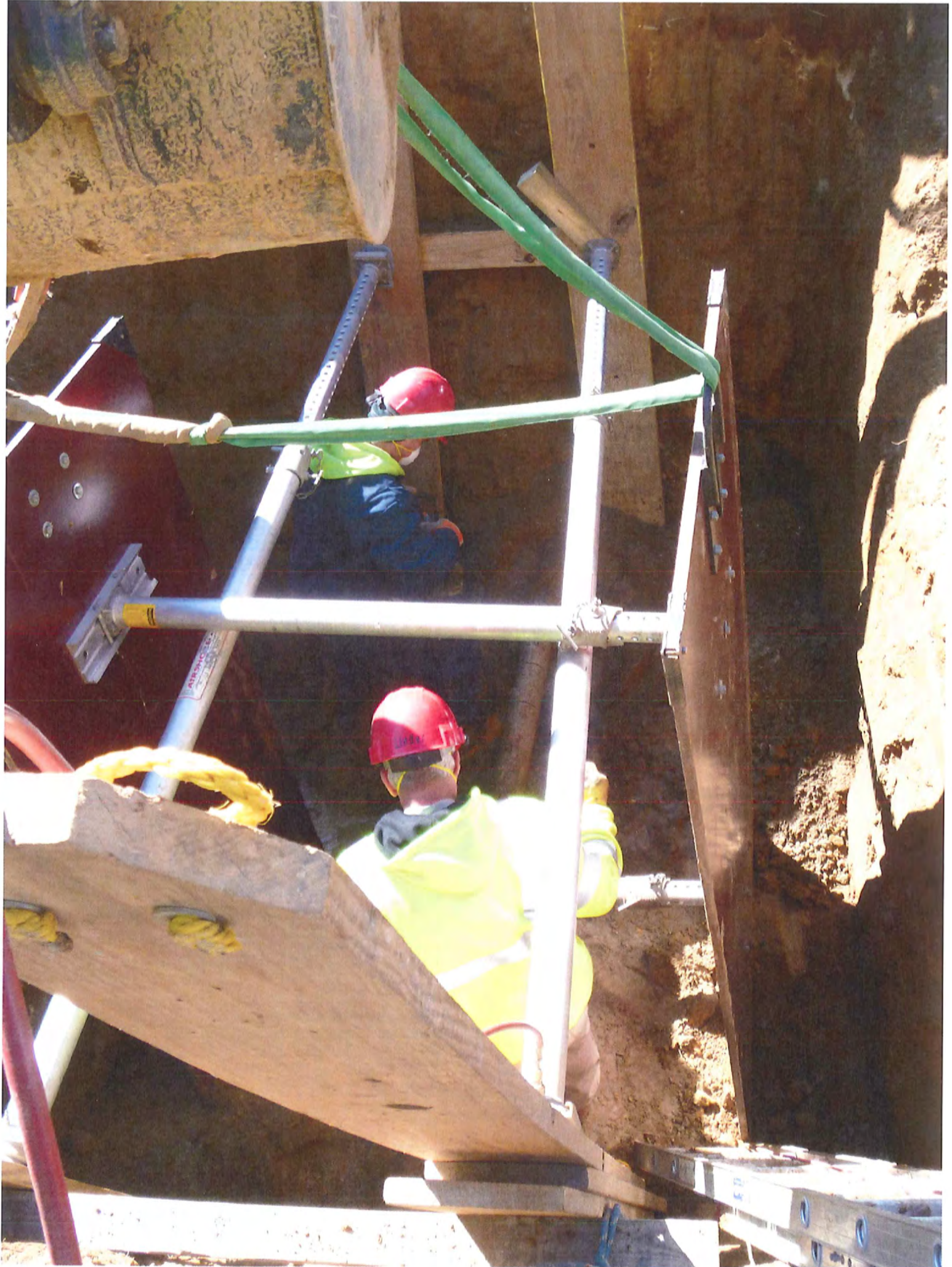
Pipe Data View cleaned and televised 20,000 feet of pipe between both systems during the month. No pipe problems to report; however we needed to replace several manhole castings.

**Alarms:**

We received a total of 26 alarms.

**PA One Calls:**

We received 58 PA One calls for the month of February.













**MEMORANDUM**

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

**FROM:** Daniel Barbato, P.E.  
Authority Engineer

**DATE:** March 7, 2013

**SUBJECT:** Engineer's Report

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**Invoices**

- Invoices with summaries are provided under separate cover.

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

- Pennoni continues to coordinate with the Plant Operator and will provide operations assistance as needed. No issues were brought to our attention in February. Our review of the monthly operations report does not indicate any concerns.

**Marydell PS Elimination**

- We attended a pre-construction meeting with the Township and Ply-Mar Construction (Contractor) and a follow-up pre-construction meeting with the Township, Ply-Mar, PennDOT, and PECO.
- We issued a contract award letter to Ply-Mar. We have also reviewed Ply-Mar's contract documents and have coordinated with them to have their insurance coverages revised to comply with contract requirements. They informed us they are in the process of having their insurance revised, but they do not yet have a revised insurance certificate to submit for review and approval.
- Pending approval of the insurance, we intend to issue the Notice to Proceed with Construction on March 18. Ply-Mar intends to mobilize later that week and begin construction on March 25. They estimate 6-8 weeks to complete the project.
- We continued attempts to coordinate with the various affected utility providers. PECO will brace utility poles during the work, but we are awaiting a determination from them as to how exactly they will brace them. We have submitted plans to Sunoco and Verizon, and we are still awaiting feedback from them.
- We prepared a Construction Issue set of plans and specifications incorporating changes from the four addenda, and the documents were issued to Ply-Mar and the Township. We also prepared a CAD file and plan with critical survey information for the

Contractor's use in construction layout. Additionally, we reviewed a partial submission of shop drawings from the Contractor.

### **Hershey's Mill PS Diversion**

- We issued a contract award letter to the Contractor, Delaware Valley Utility Contractors (DVUC). We have also reviewed DVUC's contract documents and have coordinated with them to have their insurance coverages revised to comply with contract requirements.
- DVUC proposes to begin work on May 6. We intend to issue the Notice to Proceed with Construction by early April. They estimate approximately one month to complete the project.
- We prepared a Construction Issue set of plans and specifications incorporating changes from the two addenda, and the documents were issued to the Township. We are also in the process of reviewing shop drawings from the Contractor.

### **Reserve PS Elimination**

- We completed near-final Bid Plans and submitted them to the Township for review. The specifications will be completed and submitted for Township review by March 15.
- The project will be put out to bid after the Reserve at Spring Meadows HOA has granted the easement and rock borings are performed.

### **Chapter 94 Annual Reports**

- We have continued to collect data and information required to prepare the reports. We analyzed portable and permanent meter data from calendar year 2012, and we are in the process of preparing the reports for the Ridley Creek, West Goshen, and Westtown Service Areas. DEP previously informed us that a full report is not required for the Lockwood Chase STP.



## Monthly Operations Report: February 2013

### Treatment Process Operation

During February, there were no exceedances of the final effluent discharge limitations for outfall 001. There was no discharge from outfall 002. The monthly average total phosphorus concentration was 0.20 mg/L as compared to the discharge limitation of 0.5 mg/L. During the month, the final effluent total phosphorus concentration discharged ranged from 0.14 mg/L to 0.26 mg/L.

Table 1 provides the details of the final effluent total phosphorus concentrations during February.

Table 1	
Final Effluent: Outfall 001	
Sample Date	Total Phosphorus, mg/L
2/5/2013	0.14
2/14/2013	0.26
2/19/2013	0.19
2/26/2013	0.21
Monthly Average	0.20

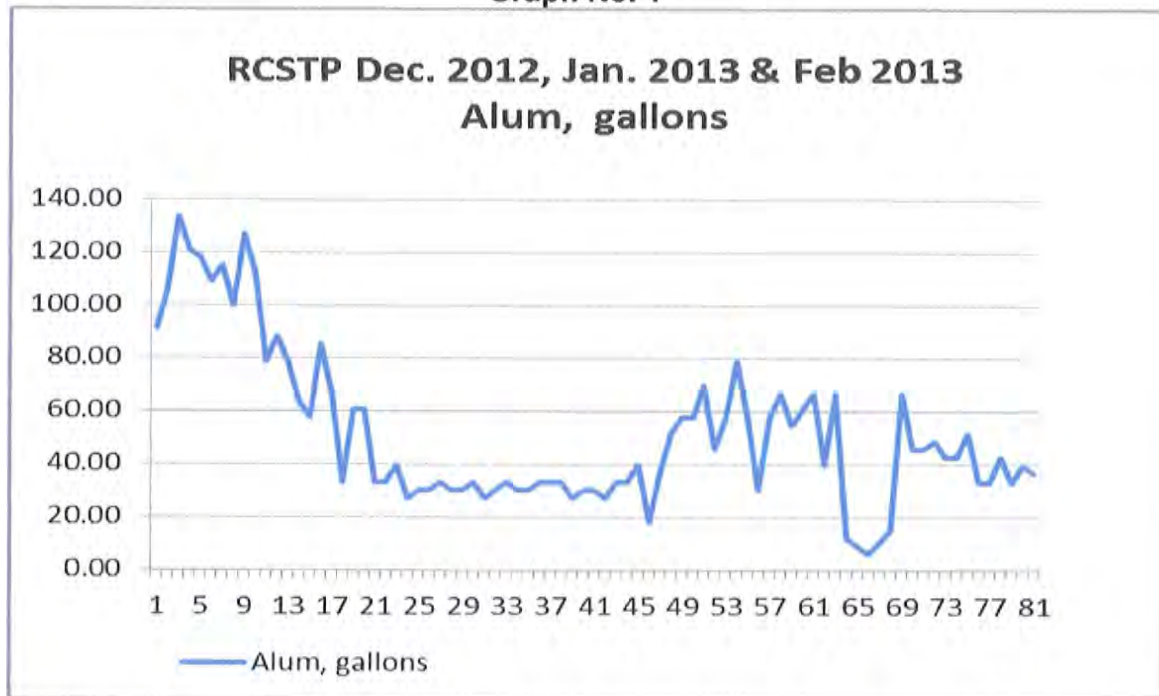
Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during the month of February. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Microscopic examinations and physical observation of the SBR MLSS and foam color is ongoing.

Daily monitoring of the influent and final effluent 24-hour composites samples for total phosphorus is ongoing. Daily analysis of the final effluent flow equalization grab sample is total phosphorus 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 was largely consistent through February with increasing uniformity during the month. The addition of aluminum sulfate solution, using the LMI chemical feed pump, prior to the disc filters has assisted with improving total phosphorus from the final effluent outfall. Graph NO. 1 illustrates the aluminum sulfate solution daily volume usage from December 2012 through February 2013.



Graph No. 1



SBR No. 2 remains out of service. The remaining contents are continuously mixed and are aerated (blower in hand mode at reduced speed) to prevent odors. Transfer of the remaining mixed liquor will occur as freezing conditions are minimized.

**Process Monitoring On-Line Instrumentation:**

Kershner Technologies installed a ChemScan phosphate analyzer on January 29, 2013. Comparison data from the online analyzer and on site testing is ongoing.

Representatives from the Hach Chemical Company has requested an opportunity to conduct a pilot study demonstrating their online phosphorus monitoring system. Coordination of a pilot study is planned to begin late March or April



Presented below is a summary of the flow data for February 2013. The influent flow meter located prior to the Screening building not reported. The flow meter appears to have malfunctioned as observed through recording significantly higher flow volumes than the influent flow meter to the SBR. Allied Control Services (ACS) was contacted to address the malfunction.

**Flow data:**

February 2013		
Flow Meter Location	Total Volume for Month, MGD	Average Daily Flow, gpd
Influent Wastewater to Screening Building	NA	NA
Influent Wastewater to SBRs	9.578	342,073
Internal Recycle	NA	NA
Treated Effluent to Disc Filters	9.251	330,410
Final Effluent Discharge	7.069	252,449
Applebrook Golf Course	0	0

**Chemical Usage:**

February 2013		
Chemical	Daily Average	Total Monthly
Soda Ash	375 lbs./day	10,500 pounds
Magnesium Hydroxide	0 gpd	0 gallons
Aluminum sulfate solution	42.6 gpd	1,192 gallons
Polymer (centrifuge)	4.5*	63 gallons

\*Fourteen (14) days of centrifuge operation

**Solids Dewatering and Disposal: February 2013**

During the month, the centrifuge dewatering system was placed in service. Presented below is a summary of the solids processing activity:

Sludge Dewatering Summary	
Gallons of sludge dewatered	331,802 gallons
Average Dewatered Total Solids, %	18.2%* (estimated on-site data)
Wet Tons	NA data was not available during report preparation
Dry Tons	NA data was not available during report preparation
Number of dumpsters	5





During the month, 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 4.93 feet and the level at the end of the month was 12.28 feet. The initial total solids concentration was 0.66% and ended the month as 0.80% total solids. Zero (0) gallons of supernatant were decanted during the month.

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 14.48 feet and the level at the end of the month was 2.53 feet. The initial total solids concentration was 0.87% and ended the month as 0.70% total solids. 27,475 gallons of supernatant were decanted. Sludge was dewatered using the centrifuge.

### **Significant Storm Events**

During February there were no significant precipitation events impacting the treatment process.

### **Minor Repairs and Preventative Maintenance**

- ACS repaired influent flow chart recorder.
- ACS provided a flow meter signal cable and connected the new influent "field" flow meter to allow for flow proportioned composite sampling.
- Centrifuge gear box was inspected for routine O&M. No metal filings were observed.
- Centrifuge rear bearing is operating at a higher temperature than the front bearing. The bearing temperature is generally around 150°F. Emergency shutdown is 212°F. Centrifuge operators recommend corrective actions should the temperature rise above 180°F.
- Filed influent composite sampler controller failed. The controller from another sampler was temporarily installed until the repaired unit is returned. A spare unit is planned for purchase.

2008 FLOWMETERS

2013 FEBRUARY 1ST QUARTER- METERS FROM WEST GOSHEN - CC COLLECTION																
Precip	WESTTOWN WAY			ELLIS LANE			PAOLI PIKE			WILSON DRIVE			SUMMIT			
	DATE	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING
0.00	02/01/13	156,065	1,528,000	27,648,377	168,530	13,766,799	65,820	15,757,352	83,170	20,400	1,210,480	-	-	-	-	
0.20	02/02/13															
0.00	02/03/13															
0.00	02/04/13	159,966	1,300,333	27,686,344	126,557	13,782,858	53,530	15,774,711	57,863	20,400	1,062,383	-	-	-	-	
0.02	02/05/13	161,117	1,151,000	27,696,633	102,890	13,787,107	42,490	15,781,453	67,420	20,400	938,200	-	-	-	-	
0.00	02/06/13	162,514	1,397,000	27,709,162	125,290	13,792,602	54,950	15,790,232	87,790	20,400	1,128,970	-	-	-	-	
0.00	02/07/13	163,773	1,259,000	27,720,537	113,750	13,797,883	52,810	15,798,076	78,440	20,400	1,014,000	-	-	-	-	
0.25	02/08/13	165,014	1,241,000	27,731,807	112,700	13,802,549	46,660	15,805,060	69,840	20,400	1,011,800	-	-	-	-	
0.50	02/09/13															
0.00	02/10/13															
0.38	02/11/13	168,850	1,278,667	27,769,231	124,747	13,818,505	53,187	15,823,332	60,907	20,400	1,039,827	-	-	-	-	
0.00	02/12/13	170,266	1,416,000	27,784,314	150,830	13,825,604	70,990	15,831,612	82,800	20,400	1,111,380	-	-	-	-	
0.23	02/13/13	171,563	1,297,000	8,726	8,728	4,147	4,147	15,839,468	78,560	20,400	1,205,567	-	-	-	-	
0.00	02/14/13	172,838	1,275,000	18,729	18,729	10,990	10,990	15,847,167	76,990	20,400	1,166,291	-	-	-	-	
0.00	02/15/13	174,161	1,323,000	28,846	101,170	17,934	69,440	15,855,652	84,850	20,400	1,067,540	-	-	-	-	
0.00	02/16/13															
0.00	02/17/13															
0.00	02/18/13															
0.37	02/19/13															
0.00	02/20/13	180,474	1,262,600	78,441	99,190	51,235	66,602	15,888,409	65,514	20,400	1,031,294	-	-	-	-	
0.00	02/21/13	181,738	1,264,000	87,336	88,950	58,334	70,990	15,897,322	89,130	20,400	1,014,930	-	-	-	-	
0.00	02/22/13	182,983	1,245,000	96,539	92,030	64,948	66,140	15,905,636	83,140	20,400	1,003,690	-	-	-	-	
0.00	02/23/13															
0.00	02/24/13															
0.00	02/25/13	186,733	1,250,000	123,977	91,460	85,025	66,923	15,926,572	69,787	20,400	1,021,830	-	-	-	-	
0.38	02/26/13	187,962	1,229,000	132,575	85,980	91,703	66,780	15,934,929	83,570	20,400	992,670	-	-	-	-	
0.08	02/27/13	189,275	1,313,000	143,393	108,180	99,183	74,800	15,943,948	90,190	20,400	1,039,830	-	-	-	-	
0.00	02/28/13	190,604	1,329,000	154,942	115,490	106,647	74,640	15,953,012	90,640	20,400	1,048,230	-	-	-	-	
2.68			1,297,700		101,955		56,216		77,811	20,400	1,061,717					
					EG TWP											
		MONTH TO DATE			2.68											
		NORMAL MONTH TO DATE														
		YEAR TO DATE			10											
		NORMAL YEAR TO DATE														



## 2013 SUMMARY OF METER READINGS

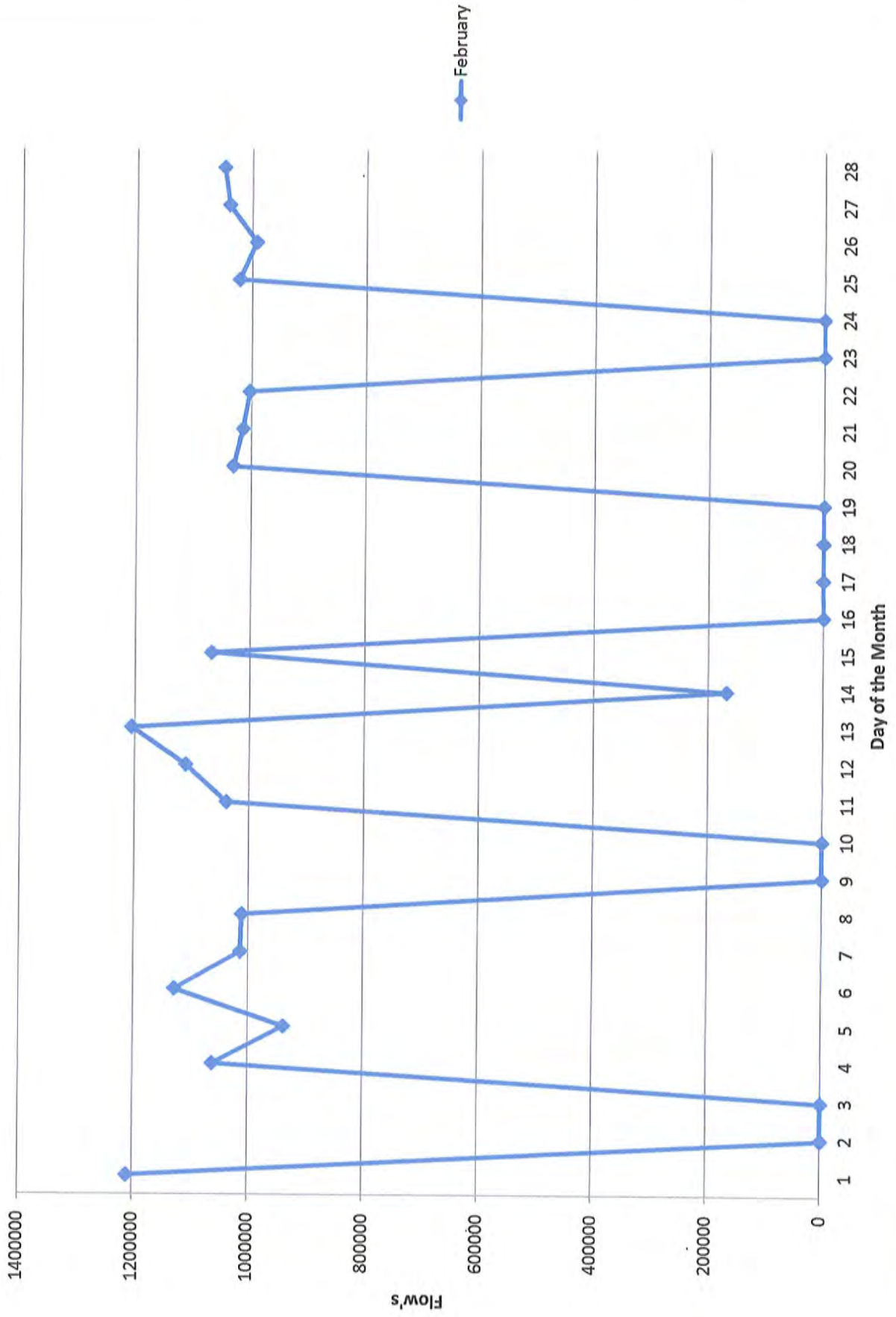
	WESTTOWN WAY	ELLIS LANE	PAOLI PIKE	WILSON DRIVE	SUMMIT	HERSHEY MILL	ASHBRIDGE	HICKS	RESERVOIR	SHERMAN	BARKWAY
JANUARY	1,277,069	120,481	60,165	63,671	20,400	89,992	70,106		922,377	7,363	11,147
FEBRUARY	1,297,700	101,955	56,216	77,811	20,400	89,500	64,950		936,368	7,669	10,544
MARCH											
APRIL											
MAY											
JUNE											
JULY											
AUGUST											
SEPTEMBER											
OCTOBER											
NOVEMBER											
DECEMBER											
<b>Total Flows</b>											
<b>Monthly Ave</b>	<b>1,287,385</b>	<b>111,218</b>	<b>58,191</b>	<b>70,741</b>	<b>20,400</b>	<b>89,746</b>	<b>67,528</b>	<b>0</b>	<b>929,373</b>	<b>7,516</b>	<b>10,846</b>

To  
West Goshen 1,047,235

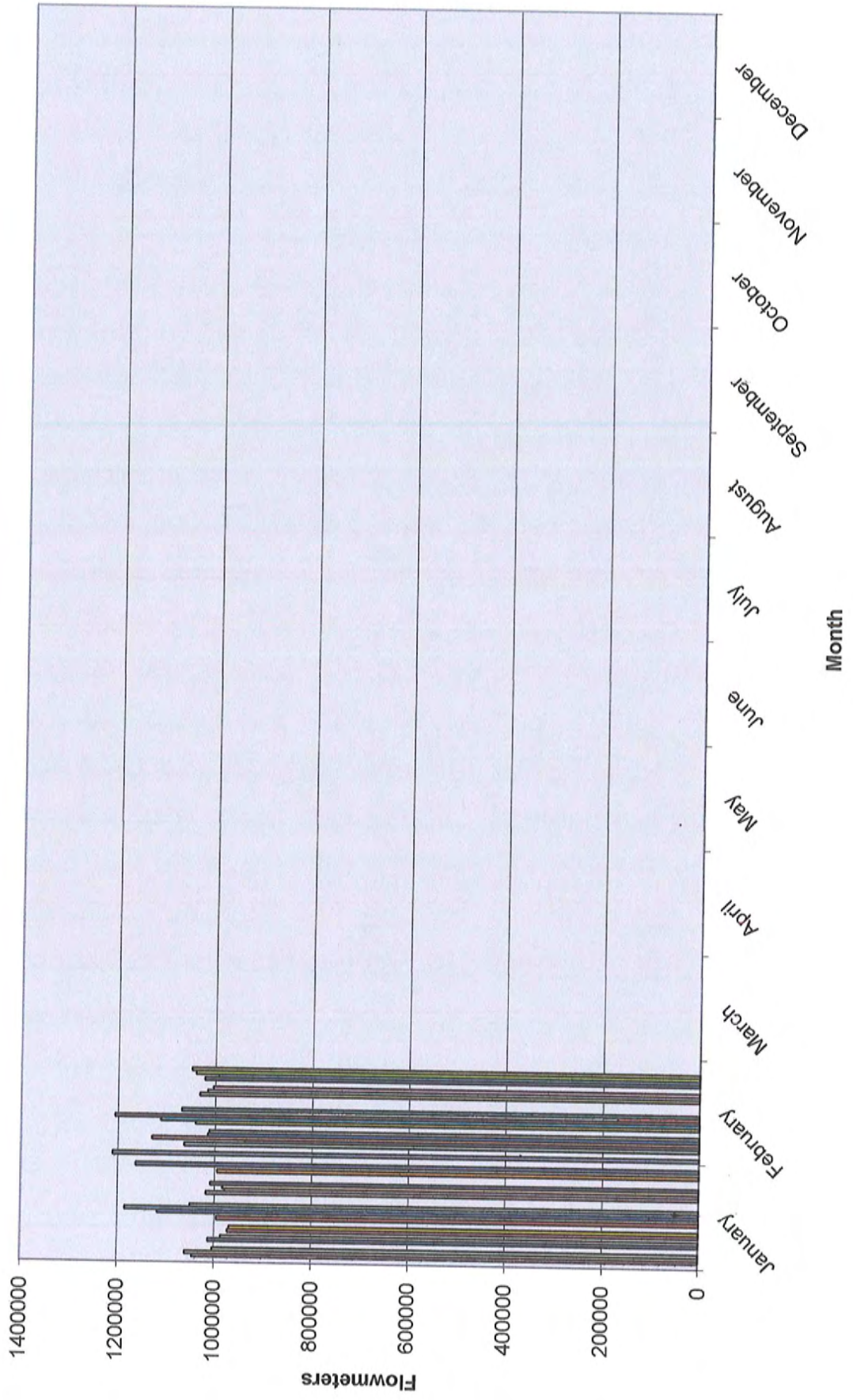
## 2013 SUMMARY OF METER READINGS

	WESTTOWN WAY	ELLIS LANE	PAOLI PIKE	WILSON DRIVE	SUMMIT
JANUARY	1,277,069	120,481	60,165	63,671	20,400
FEBRUARY	1,297,700	101,955	56,216	77,811	20,400
MARCH					
APRIL					
MAY					
JUNE					
JULY					
AUGUST					
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER					
<b>Total Flows</b>					
Monthly Ave	1,287,385	111,218	58,191	70,741	20,400

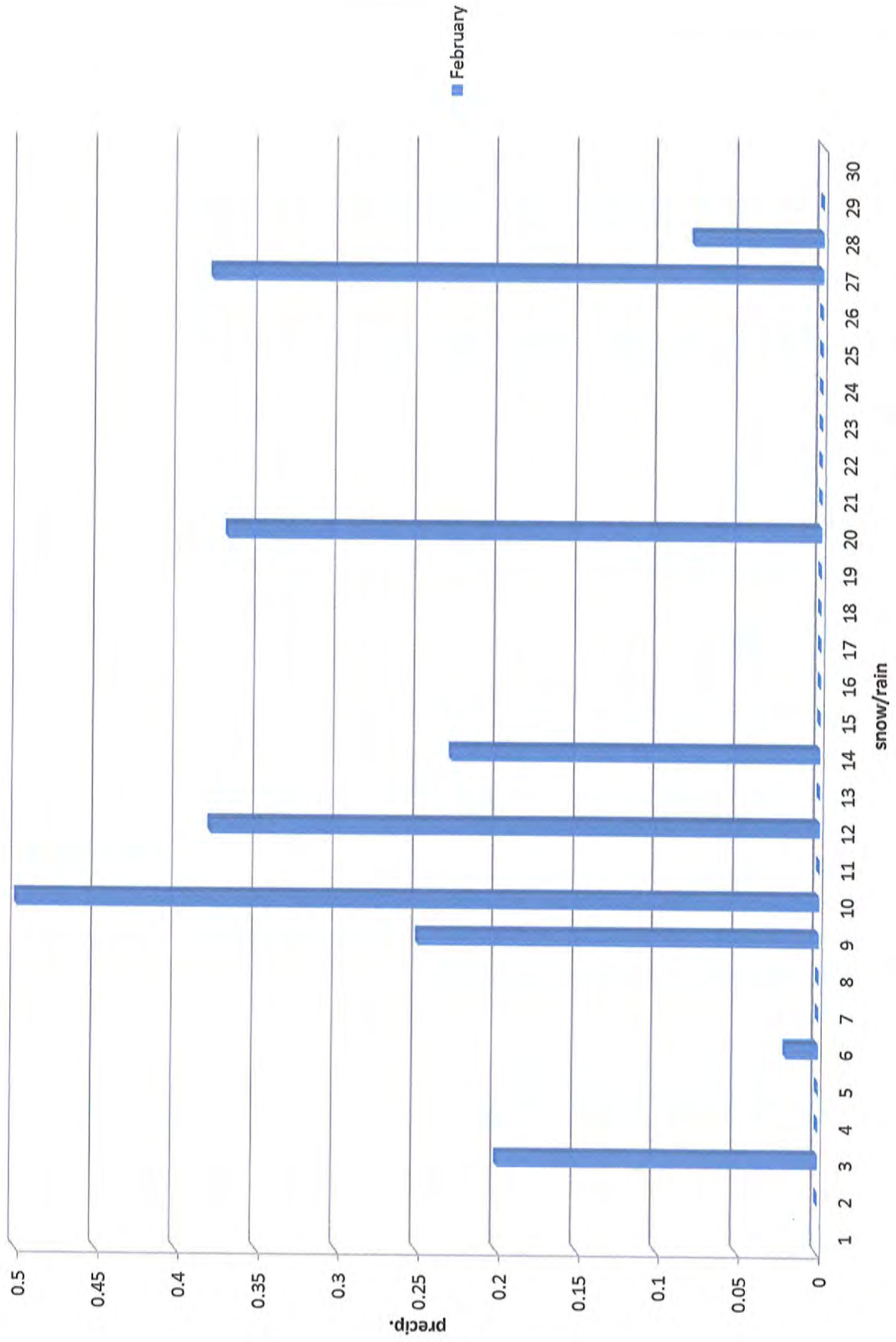
# Flowmeters February 2013



# Monthly Totals 2012 Jan-Dec



# February Precip. 2.68 - 2013





# 2013 Monthly Precipitation

