

**EAST GOSHEN MUNICIPAL AUTHORITY**

**January 14, 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. January 14, 2013
4. APPROVAL OF INVOICES

|  |    |          |
|--|----|----------|
| a. Pennoni #534558                     | \$ | 5,865.25 |
| b. Pennoni #534559                     | \$ | 5,988.75 |
| c. Pennoni #534560                     | \$ | 1,200.00 |
| d. Pennoni #534561                     | \$ | 574.50   |
| e. Pennoni #534562                     | \$ | 338.75   |
| f. Earthcore Services #6415            | \$ | 1,800.00 |
| g. Willow Pond Homeowners              | \$ | 1,000.00 |
| h. John Schroder                       | \$ | 1,000.00 |
| i. Gawthrop Greenwood #106045          | \$ | 1,406.80 |
| j. Pennsylvania Municipal Auth. Assoc. | \$ | 950.00   |
5. LIAISON REPORTS
6. FINANCIAL REPORTS
  - a. January 2013 Report
7. OLD BUSINESS
8. GOALS
  - a. January Goals
9. NEW BUSINESS
  - a. Announce Bid Results and Award Bid for Marydell Pump Station Diversion
  - b. Hershey Mill & Reserve Pump Station Budget Transfer
  - c. Consider Engineering Adjustment for Hershey Mill Pump Station
  - d. Comprehensive Plan Task Force Update
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  
March 1, 2013

Website Posting Date  
April 2, 2013

draft  
**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY**  
**MEETING MINUTES**  
**January 14, 2013**

The East Goshen Township Municipal Authority held their regularly scheduled meeting on Monday, January 14, 2013 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Dana Pizarro, Vice Chairman Fran Beck, Jack Yahraes, Kevin Cummings and new member Ed McAssey. Also in attendance were: Rick Smith (Township Manager), Carmen Battavio (Supervisor), Bob Adams (MA Solicitor), Mike Ellis (Pennoni), Scott Towler (BFES), Walter Wujcik (Conservancy Board) and Erich Meyer (Park & Recreation Commission).

**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**

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

**Reorganization**

Dana made a motion to adjust the positions to following for 2013:

Fran Beck – Chairman  
Jack Yahraes – Vice Chairman  
Kevin Cummings – Secretary  
Dana Pizarro – Treasurer  
Ed McAssey – Asst. Sec/Treas

Jack seconded the motion. The motion passed unanimously.

**Chairman's Report**

1. Jack attended the West Goshen Sewer Authority meeting last week. They met with the Federal Court Judge who allowed everything they presented.

**Approval of Minutes**

The Chairman noted that the minutes of the December 10, 2012 meeting were approved as corrected.

1 **Approval of Invoices**

2 1. Kevin moved to approve payment of 4 Pennoni invoices:

|           |            |
|-----------|------------|
| 3 #530360 | \$4,094.25 |
| 4 #530361 | \$5,493.75 |
| 5 #530362 | \$3,264.75 |
| 6 #530363 | \$ 511.50  |

7 Jack seconded the motion. The motion passed unanimously.

8 2. Kevin moved to approve payment of the Gawthrop Greenwood invoice #104980 for  
9 \$3,289.10. Jack seconded the motion. The motion passed unanimously.

10 Kevin commented that all invoices were reviewed and initialed by the Township Manager. Jack  
11 appreciates the amount remaining on project invoices from Pennoni.

12  
13 **Liaison Reports**

14 1. Conservancy Board – Walter reported the Board has a new member Rachael Burgos. They  
15 are getting ready to plant the trees along E. Boot Road near the Plank House.

16  
17 **Financial Reports**

18 1. Jon Altshul, CFO, provided reports with the following comment: The Municipal  
19 Authority recorded \$50,003.96 in revenues and \$47,395.59 in expenses for the month of  
20 December, for a surplus of \$2,608.37. For the year, the Authority had \$527,133.12 in revenues  
21 and \$503,858.19 in expenses for a surplus of \$23,274.93. The preliminary, unaudited fund  
22 balance was \$61,884.42 as of December 31, 2012.

23 Note that in addition to the quarterly chargeback for administrative wages (\$8,391.94),  
24 we also charged back \$1,482.40 in December from the Township's General Fund to the  
25 Municipal Authority for labor and equipment costs related to the Lockwood elimination project.

26 Mark commented that the Lockwood closing costs were to take down the building.  
27 Fence removal and seeding still needs to be done. Jack moved to reimburse the Township  
28 \$1,482.40. Dana seconded the motion. The motion passed unanimously.

29  
30 **Old Business**

31 None

32  
33 **Goals**

34 The members reviewed the goals for 2013 and added #5 – Continue to operate Ridley  
35 within permit requirements. Jack will provide the first newsletter article by 2/8/13 and Ed  
36 will attend the first West Goshen quarterly meeting in March.

37  
38 **New Business**

39 1. Mark Miller requested approval to replace three of the flow meters; two on the C.C.  
40 Collection system and one on the C.C. Interceptor. These 3 in question have been in service for  
41 17 years. The problem they have is getting replacement parts. They have been taking parts from  
42 old meters for repairs. The meters have been fully depreciated in the sinking fund. The price for  
43 the meters includes an optional data logger to allow storage of flow trends which can be  
44 downloaded to a flash drive. The cost breakdown follows:

|                     |            |
|---------------------|------------|
| 45 Ellis Lane Meter | \$5,235.00 |
| 46 Hicks Meter      | \$5,265.00 |

1 (Interceptor Line)  
2 Paoli Pike \$5,135.00  
3 **Total Cost = \$15,635.00**

4 Jack made a motion to approve this request for 3 replacement meters at a cost of \$15,635.00.  
5 Kevin seconded the motion. The motion passed unanimously.  
6

7 2. Easements – Rick reported that there are three sewer easements for the Reserve Pump  
8 Station Project that need to be obtained:

9 a. The Reserve at Spring Meadows HOA – An appraisal was performed that  
10 indicated the 6,815 sq. ft. easement through their open space was valued at \$1,365  
11 or \$0.20 per sq. ft. The easement had to be moved slightly in order to ensure that  
12 it would not adversely affect some trees on the Schroder property. This increased  
13 the area of the easement to 7,235 sq. ft. The appraiser advised that the \$0.20 sq.  
14 ft. could be used for the larger area. Rick proposes to go back to the HOA with an  
15 offer of \$1,455.

16 b. Schroeder – An appraisal was performed that indicated that the easement is  
17 valued at \$1,000. Rick also indicated to the property owner that the Authority  
18 would provide him with a connection (lateral stub) and waive the tapping fee  
19 (\$2,000) if and when he connects. Since we are going above what the appraised  
20 value is by waiving the tapping fee (the connection would have to be provided in  
21 any event), Rick would like the concurrence of the Authority.

22 c. Willow Pond HOA – As appraisal was performed that indicated that the  
23 easement that goes through their open space is valued at \$150. The president of  
24 the HOA advised Rick that they would accept \$1,000 for the easement and that  
25 the HOA needed to be indemnified. Rick discussed the matter with Bob Adams  
26 who advised that it would cost a lot more the \$1,000 to condemn the easement.  
27 The indemnification is not a problem. Since we are going above what the  
28 appraised value is, Rick would like to have the concurrence of the Authority.

29 Dana made a motion to approve providing a connection to John Schroeder and waive the tapping  
30 fee and approve compensation in the amount of \$1,000 for the Willow Pond easement and that  
31 the Chairman is authorized to execute the easements for The Reserve, Schroder and Willow  
32 Pond. Jack seconded the motion. Carmen mentioned that there has been discussion about  
33 increasing tapping fees. Bob will make sure he knows it is the current tapping fee. The motion  
34 passed unanimously.  
35

36 3. Pennoni presented proposals for the construction phase services associated with the  
37 Marydell Pump Station Diversion and the Hershey's Mill Pump Station force main diversion at a  
38 cost of \$20,000.00 each. Kevin moved to approve both proposals at \$20,000 each. Dana  
39 seconded the motion. The motion passed unanimously.  
40

#### 41 Capacity Requests

42 None  
43  
44  
45  
46

1 **Sewer Reports**

- 2 1. **Mark Miller, Director of Public Works**, provided the following report for December:  
3 **Meters** – The meters were calibrated on January 3, 2012. No adjustments were needed.  
4 **CC Collection**: All pump stations were visited on a daily basis, bar screens were cleaned.  
5 We had some problems over the holiday with Ashbridge Pumping Station with the  
6 backup floats. We replaced the transducer and the station was put back in service. We  
7 had several alarms during the heavy rain event. The equipment has started to arrive for  
8 the Muffin Monster.  
9 **RC Collection**: The pumping station was visited on a routine basis. We were notified of  
10 a sewer problem at 928 Monte Vista Drive. When we arrived we found the cleanout by  
11 the house was overflowing. After making several attempts to clear the pipe we could not  
12 clear the blockage. An emergency PA One Call was made and once the utilities were  
13 cleared we began digging between the main and clean-out. We found the tee was all but  
14 gone. The stack pipe had a huge hole in it (see pictures). We replaced the tee and about  
15 20' of pipe.  
16 **RC Plant**: We had to make repairs to the utility water system. We also found the meter  
17 pit full of water which we pumped out. Mark is working with Lenni Electric to install an  
18 alarm in the pit when the pump fails.  
19 We are gathering data for the portable meters on a weekly basis  
20 **PA One Calls**: We received 68 PA One calls for the month of December.  
21 Mark has asked Allied Control to give him a price to replace the Paoli Pike and Ellis  
22 Lane meter. These 2 meters are the original ones and getting parts for them is very  
23 difficult. The monies would come from the Sinking Fund. We are currently gathering  
24 GPS information for the collection system.  
25  
26 2. **Pennoni**: Mike Ellis reviewed the engineer's report provided by Dan Barbato, Pennoni:  
27 **Invoices**: Invoices with summaries are provided under separate cover.  
28 **Ridley Creek Sewage Treatment Plant (RCSTP)** – Pennoni continues to coordinate with  
29 the Plant Operator and will provide operations assistance as needed. We provided  
30 specifications for a new Alum feed pump and the pump was ordered.  
31 **Marydell PS Elimination** - We conducted a non-mandatory pre-bid meeting on  
32 December 19, 2012. Six contractors attended. We prepared and issued Addenda #1, #2  
33 and #3 as follows:  
34 Addendum #1 provided prevailing wage rates and minor plan and specification  
35 revisions.  
36 Addendum #2 extended the bid deadline to February 5, 2013 at 10:00 am to  
37 provide time to respond to contractor's questions and requests for information.  
38 Addendum #3 provided responses to contractor's questions from the pre-bid  
39 meeting, a re-design of the proposed sewer adjacent to the pump station and a new Bid  
40 Form with revised quantities and bid items.  
41 Following the pre-bid meeting, we submitted a new PA One Call ticket and are  
42 coordinating with utility owners to verify any specific requirements they may have for  
43 the various proposed utility crossings.  
44 The intent is to award the project at the Authority meeting on February 11, 2013.  
45 Construction would likely begin in mid to late March, and the contract duration is 120  
46 days.

1 Hershey's Mill PS Diversion – We finalized the plans and specifications and solicited the  
2 project on PennBID on January 9, 2013. A non-mandatory pre-bid meeting is scheduled  
3 for January 23, 2013 at 10:00 am at the Township building. Bids are due February 5,  
4 2013 at 2:00 pm with the intent to award the project at the Authority meeting on February  
5 11, 2013. Construction would likely begin in mid to late March, and the contract  
6 duration is 120 days.

7 The Township has scheduled three soil borings to be performed along the proposed sewer  
8 alignment on January 28, 2013. A Pennoni geotechnical engineer will observe the  
9 borings, categorize soils, and prepare boring logs. We intend to issue the boring logs as  
10 an addendum by January 31, 2013 for use by directional drillers in bidding.

11 Reserve PS Elimination – We are coordinating with the Township to perform borings  
12 along the Reserve PS sewer alignment to identify any rock outcroppings. No boring logs  
13 or soil classifications are required for these borings. The bid documents will be finalized  
14 following the borings.

15 The GP-5"Utility Line Stream Crossing" permit does not allow any construction between  
16 March 1 and June 15 because the Ridley Creek tributary that will be crossed is a  
17 protected water use for trout stocking. We tentatively propose to put the project out to  
18 bid in March, with bids due in late April and early May, award on May 13, 2013, with  
19 construction to begin in early to mid-June. The contract duration will be 120 days. This  
20 schedule would comply with the permit restrictions and avoid conflicts with the other two  
21 projects.

#### 22 Hershey's Mill Muffin Monster

23 We received shop drawings from the Muffin Monster manufacturer and we provided  
24 marked-up shop drawings and comments to the township. The manufacturer has  
25 responded that they will comply with all comments. The supplier has projected 90 days  
26 to manufacture and deliver the equipment to the Township.

- 27  
28 3. Big Fish Environmental Services, Inc., Scott Towler presented a written report. The  
29 following is a summary:

#### 30 Treatment Process Operation

31 During November, there were no exceedances of the final effluent discharge limitations  
32 for outfall 001. There was no discharge from outfall 002. The monthly average total  
33 phosphorus concentration was reported as 0.42 mg/L as compared to the discharge  
34 limitation of 0.5 mg/L. During the month, the final effluent total phosphorus  
35 concentration discharged ranged from 0.16 mg/L to 0.93 mg/L.

36 During December, the anticipated monthly average total phosphorus concentration is 0.20  
37 mg/L. The total phosphorus concentration discharged ranged from <0.10 mg/L to 0.38  
38 mg/L.

39 SBRs #1, #3, and #4 were in service during the month of November. Process monitoring  
40 of each SBR included ammonia as N, nitrite as N, COD, SSV, MLSS and total  
41 phosphorus. Microscopic examinations and physical observation of the SBR MLSS and  
42 foam color is ongoing. Adjustments to increase the F:M ratio for each SBR was  
43 successful towards improving settleability, reduction in solids loss through the SBR  
44 effluent and reduction of foam.

1 Daily monitoring of the influent and final effluent 24-hour composites samples versus  
2 grab samples for total phosphorus is ongoing. Daily analysis of the sample for total  
3 phosphorus is continuing.

4 Addition of aluminum to the SBRs to assist with phosphorus removal continued. The  
5 volume of alum addition to the SBRs was gradually decreased during the month while  
6 maintaining compliance with the discharge limitation for total phosphorus.

7 SBR #2 remains out of service. Approximately 5 feet of clear water manually decanted  
8 from SBR #2. The contents are mixed and are aerated. Transfer of additional volume to  
9 the sludge holding tanks is planned for January and February.

10 Process Monitoring On-Line Instrumentation: Kershner Technologies was contacted to  
11 arrange for a pilot study utilizing the ChemScan phosphate analyzer. An onsite meeting  
12 to review the installation of the demo unit has been scheduled for January 16, 2013 at  
13 8:30 am.

14 A LMI diaphragm pump was purchased for use to provide alum to the flocc tank prior to  
15 filtration. Installation of the pump is scheduled for the week of January 1<sup>st</sup>.

16 Solids Dewatering and Disposal: December 2012: During the month, the centrifuge  
17 dewatering system was placed in service. Sludge dewatered was 214,638 gallons.  
18 During the month, sludge wasting to the sludge holding tanks and decanting of the sludge  
19 holding tanks was ongoing. Process monitoring included pH, total alkalinity and total  
20 solids.

21 Sludge holding tank #1 was in service. The level at the beginning of the month was  
22 recorded as 13.50 feet and the level at the end of the month was 10.81 feet. The initial  
23 total solids concentration was 0.73% and ended the month as 1.18% total solids. A total  
24 of 118,125 gallons of supernatant was decanted during the month.

25 Sludge holding tank #2 was in service. The level at the beginning of the month was  
26 recorded at 7.87 feet and the level at the end of the month was 8.09 feet. The initial total  
27 solids concentration was 0.81% and ended the month as 0.69% total solids. No  
28 supernatant was decanted. Sludge was removed for dewatering through the centrifuge.

29 Significant Storm Events: During December there were 2 significant rainfall events  
30 contributing to excessive influent wastewater flows to the treatment facility. The events  
31 occurred on December 21 and 26. On December 21, the influent flow to the SBRs is  
32 estimated as greater than 100% of the daily average hydraulic design capacity from 4:03  
33 am through 11:20 am. On December 26, the influent flow to the SBRs is estimated as  
34 greater than 100% of the daily average hydraulic design capacity from 15:46 pm through  
35 11:50 pm. The treatment process experience filled settle and filled decants, however, the  
36 final effluent composite sample was satisfactory.

37 Minor Repairs and Preventative Maintenance:

38 The utility water 1-inch PVC valve to the fine screen failed and required replacement.  
39 Parts are on order and scheduled replacement is during the week of Jan 1<sup>st</sup>.

40 The influent composite sampler controller was returned to Hach Co. for repair. The price  
41 for the sample controller was received and a purchase order issued on Jan. 2, 2013.

42 The analog hour meter on the Siemens panel for SBR1 motive pump failed.

43 SBR1 and 2 1-inch PVC Hayward PVC ball valves are leaking alum. Tightening the  
44 valves has not solved the problem. It is recommended to replace the ball valves with an  
45 o-ring material compatible with the low pH/corrosive nature of alum.

46 Replacements of exterior wall mounted light ballast are planned.



1 ACS was contacted to schedule repair of the influent flow chart recorder.  
2 ACS was contacted to provide a flow meter signal cable to connect the new influent  
3 "field" flow meter to the influent sampler located at the doghouse manhole to provide for  
4 flow proportioned sample collection of the influent wastewater.  
5

6 Scott reported that as of today, they are still in compliance with Phosphorus. Also, Dave  
7 Wolfinger came to see the plant on January 4, 2013. He was pleased.

8 Dana asked about the SBR motive pumps. Scott commented that Flygt Co. wouldn't use  
9 the hoist we had available.

10 Scott mentioned that a ChemScan unit would cost about \$13,000.00.  
11

12 **Any Other Matter**

13 None  
14

15 **Correspondence**

16 None  
17

18 **Adjournment**

19 There being no further business, Jack moved to adjourn the meeting. Kevin seconded the  
20 motion. The motion passed unanimously. The meeting was adjourned at 8:30pm.  
21

22 Respectfully submitted,  
23

24  
25 Ruth Kiefer

26 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 # : 534558  
Invoice Date : 01/23/2013  
Project : EGMA1107  
Project Name : HersheyMill & Reserve PS Div Des Per

For Services Rendered through: 1/13/2013

Hershey's Mill PS Diversion - Coordinated with cured-in-place manhole liner installer on scope and specifications; coordinated with M. Miller to finalize HMPS scope regarding tracer wire vs. location posts and force main abandonment; performed follow-up PA One Call request; prepared and submitted near-final plans and specifications to Township and Solicitor for review; edited documents to address Township's comments; finalized and assembled bid document; set up and issued solicitation on PennBID website; coordinated scope and schedule for soil borings with Township.

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

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

|               |       |
|---------------|-------|
| Labor :       | 89.00 |
| Expense :     | 0.00  |
| Phase Total : | 89.00 |

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

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

|               |          |
|---------------|----------|
| Labor :       | 1,730.00 |
| Expense :     | 0.00     |
| Phase Total : | 1,730.00 |

**Phase : 7 -- Bid Assistance**

**Total Phase : 7 -- Bid Assistance**

|               |          |
|---------------|----------|
| Labor :       | 2,459.25 |
| Expense :     | 0.00     |
| Phase Total : | 2,459.25 |

**Phase : 8 -- Additional Meetings**

**Total Phase : 8 -- Additional Meetings**

|               |          |
|---------------|----------|
| Labor :       | 1,587.00 |
| Expense :     | 0.00     |
| Phase Total : | 1,587.00 |

Amount Due This Invoice

\$5,865.25

|                    |           |
|--------------------|-----------|
| Fee :              | 60,200.00 |
| Prior Billings :   | 50,682.50 |
| Current Billings : | 5,865.25  |
| Total Billings :   | 56,547.75 |

7426-1000 \$ 2,932.62  
7427-1000 \$ 2,932.63  
ok RS 1-28-13

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 : 2 -- Sewer Stakeout and Easements**

| <b>Labor Class</b>  | <b>Hours/Units</b> | <b>Rate</b> | <b>Amount</b> |
|---------------------|--------------------|-------------|---------------|
| Project Engineer    | 0.50               | 93.00       | 46.50         |
| Staff Engineer      | 0.50               | 85.00       | 42.50         |
| <b>Labor Total:</b> | <b>1.00</b>        |             | <b>89.00</b>  |

|  |                  |                |
|--|------------------|----------------|
| <b>Total Phase : 2 -- Sewer Stakeout and Easements</b> | <b>Labor :</b>   | <b>\$89.00</b> |
|  | <b>Expense :</b> | <b>\$0.00</b>  |

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

| <b>Labor Class</b>  | <b>Hours/Units</b> | <b>Rate</b> | <b>Amount</b>   |
|---------------------|--------------------|-------------|-----------------|
| Project Engineer    | 1.25               | 93.00       | 116.25          |
| Staff Engineer      | 17.75              | 85.00       | 1,508.75        |
| Graduate Engineer   | 1.50               | 70.00       | 105.00          |
| <b>Labor Total:</b> | <b>20.50</b>       |             | <b>1,730.00</b> |

|   |                  |                   |
|---|------------------|-------------------|
| <b>Total Phase : 3 -- Property Boundary Survey Allocation</b> | <b>Labor :</b>   | <b>\$1,730.00</b> |
|   | <b>Expense :</b> | <b>\$0.00</b>     |

**Phase : 7 -- Bid Assistance**

| <b>Labor Class</b>  | <b>Hours/Units</b> | <b>Rate</b> | <b>Amount</b>   |
|---------------------|--------------------|-------------|-----------------|
| Authority Engineer  | 0.75               | 110.00      | 82.50           |
| Project Engineer    | 12.50              | 95.00       | 1,187.50        |
| Staff Engineer      | 0.25               | 85.00       | 21.25           |
| Graduate Engineer   | 16.00              | 73.00       | 1,168.00        |
| <b>Labor Total:</b> | <b>29.50</b>       |             | <b>2,459.25</b> |

|  |                  |                   |
|--|------------------|-------------------|
| <b>Total Phase : 7 -- Bid Assistance</b> | <b>Labor :</b>   | <b>\$2,459.25</b> |
|  | <b>Expense :</b> | <b>\$0.00</b>     |

**Phase : 8 -- Additional Meetings**

| <b>Labor Class</b>  | <b>Hours/Units</b> | <b>Rate</b> | <b>Amount</b>   |
|---------------------|--------------------|-------------|-----------------|
| Project Engineer    | 3.00               | 95.00       | 285.00          |
| Project Engineer    | 14.00              | 93.00       | 1,302.00        |
| <b>Labor Total:</b> | <b>17.00</b>       |             | <b>1,587.00</b> |

|   |                  |                   |
|---|------------------|-------------------|
| <b>Total Phase : 8 -- Additional Meetings</b> | <b>Labor :</b>   | <b>\$1,587.00</b> |
|   | <b>Expense :</b> | <b>\$0.00</b>     |

|   |                  |                   |
|---|------------------|-------------------|
| <b>Total Project : EGMA1107 -- HersheyMill &amp; Reserve PS Div Des Per</b> | <b>Labor :</b>   | <b>\$5,865.25</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 01/23/2012

**Project:** EGMA1107  
**Pennoni Job No.:** Hershey Mill & Reserve PS Div Des Per  
**Invoice No:** 834558  
**Invoice Period:** 11/5/2012 to 1/13/2013  
**Initial Authorization:** \$ 60,200.00 **Date:** 7/7/2011  
**Contract Amount:** \$ 60,200.00  
**Previously Invoiced:** \$ 50,682.50  
**Current Invoice:** \$ 5,865.25  
**Invoiced to Date (\$):** \$ 56,547.75  
**Invoiced to Date (%):** 94%  
**Remaining Budget (\$):** \$ 3,652.25  
**Remaining Budget (%):** 6%

**Budget by Phase:**

**Phase No.** \*\*\*\*  
**Phase Name:** Hershey Mill & Reserve  
**Phase Budget:** \$ 60,200.00  
**Previously Invoiced:** \$ 50,682.50  
**Current Invoice:** \$ 5,865.25  
**Invoiced to Date (\$):** \$ 56,547.75  
**Invoiced to Date (%):** 94%  
**Remaining Budget (\$):** \$ 3,652.25  
**Remaining Budget (%):** 6%

**Comments:** Hershey's Mill PS Diversion - Coordinated with cured-in-place manhole liner installer on scope and specifications; coordinated with M. Miller to finalize HMPS scope regarding tracer wire vs. location posts and force main abandonment; performed follow-up PA One Call request; prepared and submitted near-final plans and specifications to Township and Solicitor for review; edited documents to address Township's comments; finalized and assembled bid document; set up and issued solicitation on PennBID website; coordinated scope and schedule for soil borings with Township.



# 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 # : 534559  
Invoice Date : 01/23/2013  
Project : EGMA1109  
Project Name : Marydell Pump Station Diversion

For Services Rendered through: 1/13/2013

Prepared for and attended pre-bid meeting and separate meeting with PennDOT's inspector; responded to prospective bidders' questions; follow-up to pre-bid meeting including updating PA One Call request, re-design of gravity sewer through pump station site due to previously unknown PECO gas line that was observed to conflict with proposed sewer during pre-bid site walk, revisions to Form of Bid and specifications, revisions to plans and profile, issuance of Addenda #1, #2, and #3, and coordination with affected utility providers to revisit specific construction requirements at proposed utility crossings.

**Phase : 1 -- Design**

**Total Phase : 1 -- Design**

|                      |               |
|----------------------|---------------|
| Labor :              | 232.50        |
| Expense :            | 0.00          |
| <b>Phase Total :</b> | <b>232.50</b> |

**Phase : 5 -- Bid Assistance**

**Total Phase : 5 -- Bid Assistance**

|                      |                 |
|----------------------|-----------------|
| Labor :              | 5,756.25        |
| Expense :            | 0.00            |
| <b>Phase Total :</b> | <b>5,756.25</b> |

**Amount Due This Invoice**

**\$5,988.75**

|                         |                  |
|-------------------------|------------------|
| Fee :                   | 45,100.00        |
| Prior Billings :        | 25,520.25        |
| Current Billings :      | 5,988.75         |
| <b>Total Billings :</b> | <b>31,509.00</b> |

OK RS 1-28-13

7425-1000

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 : 1 -- Design**

| <b>Labor Class</b>  | <i>Hours/Units</i> | <i>Rate</i> | <i>Amount</i> |
|---------------------|--------------------|-------------|---------------|
| Project Engineer    | 2.50               | 93.00       | 232.50        |
| <b>Labor Total:</b> | <b>2.50</b>        |             | <b>232.50</b> |

|                                  |                  |                 |
|----------------------------------|------------------|-----------------|
| <b>Total Phase : 1 -- Design</b> | <b>Labor :</b>   | <b>\$232.50</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>   |
|---------------------|--------------------|-------------|-----------------|
| Authority Engineer  | 1.00               | 110.00      | 110.00          |
| Project Engineer    | 6.00               | 95.00       | 570.00          |
| Project Engineer    | 25.00              | 93.00       | 2,325.00        |
| Staff Engineer      | 7.25               | 85.00       | 616.25          |
| Graduate Engineer   | 30.50              | 70.00       | 2,135.00        |
| <b>Labor Total:</b> | <b>69.75</b>       |             | <b>5,756.25</b> |

|  |                  |                   |
|--|------------------|-------------------|
| <b>Total Phase : 5 -- Bid Assistance</b> | <b>Labor :</b>   | <b>\$5,756.25</b> |
|  | <b>Expense :</b> | <b>\$0.00</b>     |

|  |                  |                   |
|--|------------------|-------------------|
| <b>Total Project : EGMA1109 -- Marydell Pump Station Diversion</b> | <b>Labor :</b>   | <b>\$5,988.75</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 01/23/2013

**Project:** EGMA1109  
**Pennoni Job No.:** Marydell Pump Station Diversion  
**Invoice No:** 534559  
**Invoice Period:** 11/5/2012 to 1/13/2013  
**Initial Authorization:** \$ 45,100.00 **Date:** 2/22/2012  
**Contract Amount:** \$ 45,100.00  
**Previously Invoiced:** \$ 25,520.25  
**Current Invoice:** \$ 5,988.75  
**Invoiced to Date (\$):** \$ 31,509.00  
**Invoiced to Date (%):** 70%  
**Remaining Budget (\$):** \$ 13,591.00  
**Remaining Budget (%):** 30%

**Budget by Phase:**

|                               |  |
|-------------------------------|--|
| <b>Phase No.</b>              | ****                                       |
| <b>Phase Name:</b>            | <b>Marydell Pump<br/>Station Diversion</b> |
| <b>Phase Budget:</b>          | \$ 45,100.00                               |
| <b>Previously Invoiced:</b>   | \$ 25,520.25                               |
| <b>Current Invoice:</b>       | \$ 5,988.75                                |
| <b>Invoiced to Date (\$):</b> | \$ 31,509.00                               |
| <b>Invoiced to Date (%):</b>  | 70%  |
| <b>Remaining Budget (\$):</b> | \$ 13,591.00                               |
| <b>Remaining Budget (%):</b>  | 30%  |

**Comments:** Prepared for and attended pre-bid meeting and separate meeting with PennDOT's inspector; responded to prospective bidders' questions; follow-up to pre-bid meeting including updating PA One Call request, re-design of gravity sewer through pump station site due to previously unknown PECO gas line that was observed to conflict with proposed sewer during pre-bid site walk, revisions to Form of Bid and specifications, revisions to plans and profile, issuance of Addenda #1, #2, and #3, and coordination with affected utility providers to revisit specific construction requirements at proposed utility crossings.





# 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 #: 534560  
Invoice Date: 01/23/2013  
Project: EGMA1201  
Project Name: 2012 General Services

For Services Rendered through: 1/13/2013

Alum metering pump selection. Dan Barbato and Tim Daily attendance at December MA meeting. Review compliance reports from plant operator. Research sewer metering guidance for pool houses. Final invoice for 2012 General Services.

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

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

Labor : 1,200.00  
Expense : 0.00  
Phase Total : 1,200.00

Amount Due This Invoice

\$1,200.00

Fee : 15,000.00  
Prior Billings : 12,702.50  
Current Billings : 1,200.00  
Total Billings : 13,902.50

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

| Labor Class         | Hours/Units  | Rate   | Amount          |
|---------------------|--------------|--------|-----------------|
| Authority Engineer  | 5.75         | 110.00 | 632.50          |
| Senior Engineer     | 4.50         | 105.00 | 472.50          |
| Project Engineer    | 1.00         | 95.00  | 95.00           |
| <b>Labor Total:</b> | <b>11.25</b> |        | <b>1,200.00</b> |

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

Labor : \$1,200.00  
Expense : \$0.00

Total Project : EGMA1201 -- 2012 General Services

Labor : \$1,200.00  
Expense : \$0.00

OK RS 1-28-13

7424-3130



East Goshen Municipal Authority  
 EGMA1201 Invoice Summary  
 Invoice Date 01/23/2013

|                               |                       |              |            |
|-------------------------------|-----------------------|--------------|------------|
| <b>Project:</b>               | EGMA1201              |              |            |
| <b>Pennoni Job No.:</b>       | 2012 General Services |              |            |
| <b>Invoice No:</b>            | 534560                |              |            |
| <b>Invoice Period:</b>        | 11/5/2012             | to           | 12/31/2012 |
| <b>Initial Authorization:</b> | \$ 10,000.00          | <b>Date:</b> | 2/22/2012  |
| <b>Contract Amount:</b>       | \$ 15,000.00          |              |            |
| <b>Previously Invoiced:</b>   | \$ 12,702.50          |              |            |
| <b>Current Invoice:</b>       | \$ 1,200.00           |              |            |
| <b>Invoiced to Date (\$):</b> | \$ 13,902.50          |              |            |
| <b>Invoiced to Date (%):</b>  | 93%                   |              |            |
| <b>Remaining Budget (\$):</b> | \$ 1,097.50           |              |            |
| <b>Remaining Budget (%):</b>  | 7%                    |              |            |

**Budget by Phase:**

|                               |                              |
|-------------------------------|------------------------------|
| <b>Phase No.</b>              | ****                         |
| <b>Phase Name:</b>            | <b>2012 General Services</b> |
| <b>Phase Budget:</b>          | \$ 15,000.00                 |
| <b>Previously Invoiced:</b>   | \$ 12,702.50                 |
| <b>Current Invoice:</b>       | \$ 1,200.00                  |
| <b>Invoiced to Date (\$):</b> | \$ 13,902.50                 |
| <b>Invoiced to Date (%):</b>  | 93%                          |
| <b>Remaining Budget (\$):</b> | \$ 1,097.50                  |
| <b>Remaining Budget (%):</b>  | 7%                           |

**Comments:** Alum metering pump selection. Dan Barbato and Tim Daily attendance at December MA meeting.  
 Review compliance reports from plant operator. Research sewer metering guidance for pool houses.  
 Final invoice for 2012 General Services.



# 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 #: 534561  
Invoice Date: 01/23/2013  
Project: EGMA1206  
Project Name: Hershey Mill PS Muffin Monster  
Desi

For Services Rendered through: 1/13/2013

Reviewed submittal book from manufacturer; marked-up submittals, and forwarded to Township for signature and ultimate return to manufacturer.

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

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

|               |        |
|---------------|--------|
| Labor :       | 574.50 |
| Expense :     | 0.00   |
| Phase Total : | 574.50 |

Amount Due This Invoice

\$574.50

|                    |           |
|--------------------|-----------|
| Fee :              | 12,000.00 |
| Prior Billings :   | 7,956.80  |
| Current Billings : | 574.50    |
| Total Billings :   | 8,531.30  |

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

| Labor Class         | Hours/Units | Rate  | Amount        |
|---------------------|-------------|-------|---------------|
| Project Engineer    | 2.75        | 93.00 | 255.75        |
| Staff Engineer      | 3.75        | 85.00 | 318.75        |
| <b>Labor Total:</b> | <b>6.50</b> |       | <b>574.50</b> |

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

|           |          |
|-----------|----------|
| Labor :   | \$574.50 |
| Expense : | \$0.00   |

Total Project : EGMA1206 -- Hershey Mill PS Muffin Monster Desi

|           |          |
|-----------|----------|
| Labor :   | \$574.50 |
| Expense : | \$0.00   |

OK RS

7424 - 7475

East Goshen Municipal Authority  
 EGMA1206 Invoice Summary  
 Invoice Date 1/23/2013

|                               |                                       |              |           |
|-------------------------------|---------------------------------------|--------------|-----------|
| <b>Project:</b>               | EGMA1206                              |              |           |
| <b>Pennoni Job No.:</b>       | Hershey Mill PS Muffin Monster Design |              |           |
| <b>Invoice No:</b>            | 534561                                |              |           |
| <b>Invoice Period:</b>        | 10/15/2012                            | to           | 1/13/2013 |
| <b>Initial Authorization:</b> | \$ 12,000.00                          | <b>Date:</b> | 5/15/2012 |
| <b>Contract Amount:</b>       | \$ 12,000.00                          |              |           |
| <b>Previously Invoiced:</b>   | \$ 7,956.80                           |              |           |
| <b>Current Invoice:</b>       | \$ 574.50                             |              |           |
| <b>Invoiced to Date (\$):</b> | \$ 8,531.30                           |              |           |
| <b>Invoiced to Date (%):</b>  | 71%                                   |              |           |
| <b>Remaining Budget (\$):</b> | \$ 3,468.70                           |              |           |
| <b>Remaining Budget (%):</b>  | 29%                                   |              |           |

**Budget by Phase:**

|                               |                          |
|-------------------------------|--------------------------|
| <b>Phase No.</b>              | ****                     |
| <b>Phase Name:</b>            | Muffin Monster<br>Design |
| <b>Phase Budget:</b>          | \$ 12,000.00             |
| <b>Previously Invoiced:</b>   | \$ 7,956.80              |
| <b>Current Invoice:</b>       | \$ 574.50                |
| <b>Invoiced to Date (\$):</b> | \$ 8,531.30              |
| <b>Invoiced to Date (%):</b>  | 71%                      |
| <b>Remalning Budget (\$):</b> | \$ 3,468.70              |
| <b>Remaining Budget (%):</b>  | 29%                      |

**Comments:** Reviewed submittal book from manufacturer; marked-up submittals, and forwarded to Township for signature and ultimate return to manufacturer.



# 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 #: 534562  
Invoice Date: 01/23/2013  
Project: EGMA1301  
Project Name: 2013 General Services

For Services Rendered through: 1/13/2013

Engineers report and M. Ellis attendance at January MA meeting.

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

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

Labor : 338.75  
Expense : 0.00  
Phase Total : 338.75

Amount Due This Invoice

\$338.75

Fee : 10,000.00  
Prior Billings : 0.00  
Current Billings : 338.75  
Total Billings : 338.75

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

| Labor Class         | Hours/Units | Rate   | Amount        |
|---------------------|-------------|--------|---------------|
| Authority Engineer  | 2.00        | 110.00 | 220.00        |
| Project Engineer    | 1.25        | 95.00  | 118.75        |
| <b>Labor Total:</b> | <b>3.25</b> |        | <b>338.75</b> |

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

Labor : \$338.75  
Expense : \$0.00

Total Project : EGMA1301 -- 2013 General Services

Labor : \$338.75  
Expense : \$0.00

OK RS 1-28-17

7424-3130  
3130

East Goshen Municipal Authority  
 EGMA1206 Invoice Summary  
 Invoice Date 1/23/2013

|                               |                       |              |           |
|-------------------------------|-----------------------|--------------|-----------|
| <b>Project:</b>               | EGMA1301              |              |           |
| <b>Pennoni Job No.:</b>       | 2013 General Services |              |           |
| <b>Invoice No:</b>            | 534562                |              |           |
| <b>Invoice Period:</b>        | n/a                   | to           | 1/13/2013 |
| <b>Initial Authorization:</b> | \$ 10,000.00          | <b>Date:</b> | 1/1/2013  |
| <b>Contract Amount:</b>       | \$ 10,000.00          |              |           |
| <b>Previously Invoiced:</b>   | \$ -                  |              |           |
| <b>Current Invoice:</b>       | \$ 338.75             |              |           |
| <b>Invoiced to Date (\$):</b> | \$ 338.75             |              |           |
| <b>Invoiced to Date (%):</b>  | 3%                    |              |           |
| <b>Remaining Budget (\$):</b> | \$ 9,661.25           |              |           |
| <b>Remaining Budget (%):</b>  | 97%                   |              |           |

|                               |                          |
|-------------------------------|--------------------------|
| <b>Budget by Phase:</b>       |                          |
| <b>Phase No.</b>              | ****                     |
| <b>Phase Name:</b>            | Muffin Monster<br>Design |
| <b>Phase Budget:</b>          | \$ 10,000.00             |
| <b>Previously Invoiced:</b>   | \$ -                     |
| <b>Current Invoice:</b>       | \$ 338.75                |
| <b>Invoiced to Date (\$):</b> | \$ 338.75                |
| <b>Invoiced to Date (%):</b>  | 3%                       |
| <b>Remaining Budget (\$):</b> | \$ 9,661.25              |
| <b>Remaining Budget (%):</b>  | 97%                      |

**Comments:** Engineers report and M. Ellis attendance at January MA meeting.



**EARTH CORE**  
services

1458 Shaner Drive Pottstown, PA 19465

P (610) 404-2570 F (610) 404-2580

rick@earthcoreusa.com

APPROVED BY: MS  
DATE PAID: \_\_\_\_\_  
CHECK #: \_\_\_\_\_  
CHARGED TO: \_\_\_\_\_

1/30/2013

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380  
Attn: Rick Smith

**Invoice #:** 6415

Job: HMPS Diversion

Completion Date: 1/30/2013

---

|                                       |          |
|---------------------------------------|----------|
| Mobilization                          | 800.00   |
| ATV rig, borings - 1 day @ \$1800/day | 1,800.00 |

OK TRS 2/8/13

7426-1000

**Total:** \$2,600.00

Thank you for your business. Prompt payment is appreciated and will result in the best rates on future projects. If full payment is not received within agreed upon terms, interest shall be charged at the legal rate allowed. The customer is responsible for all reasonable attorney fees and collection costs incurred.

**Memo**  
**East Goshen Township**  
**1580 Paoli Pike**  
**West Chester, PA 19380**

Voice (610) 692-7171  
Fax (610) 425-8950  
E-mail [rsmith@eastgoshen.org](mailto:rsmith@eastgoshen.org)

Date: February 8, 2013  
To: Municipal Authority  
From: Rick Smith, Township Manager  
Re: Invoices

Willow Pond Homeowners Association \$1,000 for sewer right of way  
14 Pond View Lane, Malvern PA 19355

John Schroder \$1,000 for sewer right of way  
929 Forest Lane, Malvern PA 19355

Document3

OK RS 2-8-13  
7427-1000



Gawthrop Greenwood, PC  
Attorneys at Law

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

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester PA 19380

Page: 1  
01/31/2013  
Client No: 6604-01M  
Invoice No. 106045

General Authority Services

Fees

|            |  | Hours |          |
|------------|--|-------|----------|
| 01/04/2013 | RFA  |       |          |
|            | Review message from M Ellis regarding Hershey's Mill pump station diversion bid document; Message to M Ellis regarding review of bid document; review message from M Ellis forwarding identify plans for Hershey's Mill diversion project. | 0.90  |          |
| 01/07/2013 | RFA  |       |          |
|            | Review Hershey's Mill diversion project bid documents; review message from R Smith regarding bid document comments; Message to M Ellis and R Smith regarding bid document approval.  | 1.60  |          |
| 01/09/2013 | RFA  |       |          |
|            | Draft revisions to right-of-way agreements for Schroeder, Spring Meadows and Willow Pond for Hershey's Mill pump station diversion project.  | 1.50  |          |
| 01/10/2013 | RFA  |       |          |
|            | Message to R Smith regarding revised ROW agreements for Reserve, Schroeder and Willow Pond properties; review message from R Smith approving revised documents for Reserve pump station project and assemble agreements for execution.     | 0.70  |          |
| 01/14/2013 | RFA  |       |          |
|            | Review packet for Authority meeting of 1/14; attend regular meeting of Municipal Authority.  | 2.00  |          |
|            | RFA  |       |          |
|            | Letter to R Smith enclosing revised right-of-way documents.  | 0.30  |          |
|            | For Current Services Rendered  | 7.00  | 1,400.00 |

Recapitulation

| <u>Timekeeper</u> | <u>Hours</u> | <u>Hourly Rate</u> | <u>Total</u> |
|-------------------|--------------|--------------------|--------------|
| Robert F. Adams   | 7.00         | \$200.00           | \$1,400.00   |



General Authority Services

Expenses

|            |                                |                   |
|------------|--------------------------------|-------------------|
|            | Photocopies                    | <u>6.80</u>       |
|            | Total Expenses Thru 01/31/2013 | 6.80              |
|            | Previous Balance               | \$3,289.10        |
|            | Total Current Charges          | 1,406.80          |
| 01/17/2013 | Cost Advance Payment           | -118.00           |
| 01/17/2013 | Fee Payment                    | <u>-3,171.10</u>  |
|            | Total Payments                 | -3,289.10         |
|            | Balance Due                    | <u>\$1,406.80</u> |

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

**Pennsylvania Municipal Authorities Association  
1000 North Front Street, Suite 401  
Wormleysburg, PA 17043**

**Phone: 717-737-7655 \* Fax: 717-737-8431  
E-mail: info@municipalauthorities.org  
Website: www.municipalauthorities.org**

RECEIVED  
BY: \_\_\_\_\_

DEC 17 2012

GLC To Pay

RS 1-15-13

December 15, 2012  
ID: 212

**East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380**

**INVOICE**

|                                    | <u>Current Bal.</u> | <u>Adjustments</u> | <u>Balance Due</u> |
|------------------------------------|---------------------|--------------------|--------------------|
| <b>2013 ACTIVE MEMBERSHIP DUES</b> | <b>\$950.00</b>     | <b>\$0.0</b>       | <b>\$950.00</b>    |

We would appreciate payment within 60 days. If you pay by check, please remit a copy of invoice with payment. We accept Visa, Master Card, and Discover. If you DO NOT wish to renew your membership, please send something in writing to our office. Thank you for your prompt response.

Name on Card: \_\_\_\_\_ . Type of Credit Card: \_\_\_\_\_ .  
Credit Card No.: \_\_\_\_\_ . Exp.: \_\_\_\_\_ .  
3 Digit Security Code on reverse side of credit card: \_\_\_\_\_ .

# Memo

---

To: Municipal Authority  
From: Jon Altshul  
Re: MA January 2013 Financial Report  
Date: February 5, 2013

---

The Municipal Authority recorded \$18,979.26 in expenses and \$4.71 in revenues in the month of January, a difference of \$18,974.55. The fund balance is now \$42,909.87.

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

| Account Title                                     | Acct #     | Annual Budget     | Month To Date Actual | Year To Date Actual |
|---|------------|-------------------|----------------------|---------------------|
| <b>MUNICIPAL AUTHORITY BEGINNING FUND BALANCE</b> |            |                   | <b>61,884.42</b>     |                     |
| <b>RCSTP BUDGET</b>                               |            |                   |                      |                     |
| <b>REVENUE</b>                                    |            |                   |                      |                     |
| INTEREST EARNED - RCSTP EXPANSION                 | 07341 1020 | 50.00             | 3.97                 | 3.97                |
| GRANT REVENUE                                     | 07392 0800 | 0.00              | 0.00                 | 0.00                |
| <b>TOTAL REVENUE</b>                              |            | <b>50.00</b>      | <b>3.97</b>          | <b>3.97</b>         |
| <b>EXPENSES</b>                                   |            |                   |                      |                     |
| 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                |
| <b>TOTAL EXPENSES</b>                             |            | <b>992,470.00</b> | <b>0.00</b>          | <b>0.00</b>         |
| <b>RCSTP NET RESULT</b>                           |            |                   | <b>(992,420.00)</b>  | <b>3.97</b>         |

**EAST GOSHEN TOWNSHIP**  
**1580 PAOLI PIKE**  
**WEST CHESTER, PA**  
**Municipal Authority**  
**JANUARY 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             | 0.74                 | 0.74                |
| 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              | 0.00                 | 0.00                |
| MISCELLANEOUS REVENUE         | 07380 1000 | 1,000.00          | 0.00                 | 0.00                |
| TRANSFER FROM SEWER OPERATING | 07392 0500 | 121,696.00        | 0.00                 | 0.00                |
| <b>TOTAL REVENUE</b>          |            | <b>252,746.00</b> | <b>0.74</b>          | <b>0.74</b>         |
| <b>EXPENSES</b>               |            |                   |                      |                     |
| ADMINISTRATIVE WAGES          | 07424 1400 | 33,547.00         | 0.00                 | 0.00                |
| MISCELLANEOUS EXPENSE         | 07424 3000 | 5,000.00          | 1,450.00             | 1,450.00            |
| MUNIC.AUTH.-AUDITING          | 07424 3110 | 8,843.00          | 0.00                 | 0.00                |
| ENGINEERING SERVICES          | 07424 3130 | 35,000.00         | 3,264.75             | 3,264.75            |
| LEGAL SERVICES                | 07424 3140 | 7,000.00          | 3,289.10             | 3,289.10            |
| 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>8,003.85</b>      | <b>8,003.85</b>     |
| <b>OPERATING NET RESULT</b>   |            | <b>131,050.00</b> | <b>(8,003.11)</b>    | <b>(8,003.11)</b>   |

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

| Account Title                                  | Acct #     | Annual Budget       | Month To Date Actual | Year To Date Actual |
|--|------------|---------------------|----------------------|---------------------|
| <b>CAPITAL BUDGET</b>                          |            |                     |                      |                     |
| <b>REVENUE</b>                                 |            |                     |                      |                     |
| LOAN PROCEEDS-SEWER PROJECT                    | 07392 0804 | 992,470.00          | 0.00                 | 0.00                |
| TRANSFER FROM SEWER CAP RESERVE                | 07392 0900 | 556,769.00          | 0.00                 | 0.00                |
| <b>TOTAL REVENUE</b>                           |            | <b>1,549,239.00</b> | <b>0.00</b>          | <b>0.00</b>         |
| <b>EXPENSES</b>                                |            |                     |                      |                     |
| MARYDELL PUMP STATION - ENGINEER               | 07425 1000 | 25,000.00           | 5,493.75             | 5,493.75            |
| MARYDELL PUMP STATION -CONSTRUCTION            | 07425 2000 | 170,000.00          | 0.00                 | 0.00                |
| LOCHWOOD ABANDONMENT ENGINEER                  | 07424 7475 | 0.00                | 511.50               | 511.50              |
| LOCHWOOD ABANDONMENT CONSTRUCTION              | 07424 7476 | 55,769.00           | 246.01               | 246.01              |
| LOCHWOOD ELIMINATION PHASE 2                   | 07424 7477 | 0.00                | 379.90               | 379.90              |
| HERSHEY MILL STATION - ENGINEER                | 07426 1000 | 25,000.00           | 2,297.12             | 2,297.12            |
| HERSHEY MILL STATION - CONSTRUCTION            | 07426 2000 | 46,000.00           | 0.00                 | 0.00                |
| RESERVE PUMP STATION - ENGINEER                | 07427 1000 | 25,000.00           | 2,047.13             | 2,047.13            |
| 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>10,975.41</b>     | <b>10,975.41</b>    |
| <b>CAPITAL NET RESULT</b>                      |            | <b>1,109,470.00</b> | <b>(10,975.41)</b>   | <b>(10,975.41)</b>  |
| <b>MUNICIPAL AUTHORITY ENDING FUND BALANCE</b> |            |                     | <b>42,909.87</b>     |                     |

MGRP18 run by BRIAN 12 : 54 PM

| Acct #     | Per                               | Src Trx # | Debits   | Credits  | Beg/End Bal | Date     | Check/Ref # | ID # | Name/Description  |
|------------|-----------------------------------|-----------|----------|----------|-------------|----------|-------------|------|---|
| 07341-1000 | INTEREST EARNINGS                 |           |          |          | 0.00        |          |             |      |   |
|            | 1301 JE                           | 36010     |          | 0.74     |             | 02/05/13 | INTEREST    |      | INTEREST EARNED JANUARY 2013<br>07 FUND   |
|            |                                   |           | 0.00     | 0.74     | -0.74       |          |             |      |   |
| 07341-1020 | INTEREST EARNED - RCSTP EXPANSION |           |          |          | 0.00        |          |             |      |   |
|            |                                   | 36011     |          | 3.97     |             | 02/05/13 | INTEREST    |      | INTEREST EARNED JANUARY 2013<br>07 CONSTRUCTION FUND                                      |
|            |                                   |           | 0.00     | 3.97     | -3.97       |          |             |      |   |
| 07364-1110 | R.C.TAPPING FEES                  |           |          |          | 0.00        |          |             |      |   |
|            |                                   | 35931     | 2,000.00 |          |             | 01/30/13 | REV TRX     |      | REVERSE TRX #32779 TAP IN FEE<br>FOR 913 SORRELL HILL                                     |
|            |                                   | 35934     |          | 2,000.00 |             | 01/30/13 | REV TRX     |      | RE-REVERSE TRX 35931 FOR 913<br>SORRELL HILL TAP IN FEES                                  |
|            |                                   |           | 2,000.00 | 2,000.00 | 0.00        |          |             |      |   |
| 07424-3000 | MISCELLANEOUS EXPENSE             |           |          |          | 0.00        |          |             |      |   |
|            | CD                                | 35598     | 500.00   |          |             | 01/03/13 | 2153        | 2737 | DEP - COMMONWEALTH OF PA<br>NPDES PERMIT - 2013 MINOR SEWAGE<br>FACILITY                  |
|            |                                   | 35783     | 950.00   |          |             | 01/18/13 | 2158        | 2132 | PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC<br>2013 ACTIVE MEMBERSHIP DUES                   |
|            |                                   |           | 1,450.00 | 0.00     | 1,450.00    |          |             |      |   |
| 07424-3130 | ENGINEERING SERVICES              |           |          |          | 0.00        |          |             |      |   |
|            |                                   | 35695     | 3,264.75 |          |             | 01/15/13 | 2156        | 1052 | PENNONI ASSOCIATES INC.<br>SERV.THRU 12/9/12 2012 GEN.SERV                                |
|            |                                   |           | 3,264.75 | 0.00     | 3,264.75    |          |             |      |   |
| 07424-3140 | LEGAL SERVICES                    |           |          |          | 0.00        |          |             |      |   |
|            |                                   |           | 3,289.10 |          |             | 01/15/13 | 2155        | 528  | GAWTHROP GREENWOOD & HALSTED<br>LEGAL SERV. 11/9-11/30/12 GEN.AU                          |
|            |                                   |           | 3,289.10 | 0.00     | 3,289.10    |          |             |      |   |
| 07424-7475 | LOCHWOOD ABANDONMENT ENGINEER     |           |          |          | 0.00        |          |             |      |   |
|            |                                   |           | 511.50   |          |             | 01/15/13 | 2156        | 1052 | PENNONI ASSOCIATES INC.<br>SERVICES THRU 12/9/12 HERSHEY M<br>PUMP STATION MUFFIN MONSTER |
|            |                                   |           | 511.50   | 0.00     | 511.50      |          |             |      |   |
| 07424-7476 | LOCHWOOD ABANDONMENT CONSTRUCTION |           |          |          | 0.00        |          |             |      |   |
|            |                                   | 35598     | 246.01   |          |             | 01/03/13 | 2152        | 317  | CONTRACTOR'S CHOICE<br>ORANGE SAFETY FENCE, STAKES & PA                                   |

East Goshen Township General Ledger

Report Date 02/05/13

GL Transaction Details

PAGE 2

MGRP18 run by BRIAN 12 : 54 PM

| Acct #     | Per  | Src | Trx #                                       | Debits    | Credits  | Beg/End Bal | Date     | Check/Ref # | ID # | Name/Description  |
|------------|------|-----|---|-----------|----------|-------------|----------|-------------|------|---|
| 07424-7476 | 1301 | CD  | 35695                                       | 1,482.40  |          |             | 01/15/13 | 2154        | 425  | EAST GOSHEN TOWNSHIP<br>LOCHWOOD PLANT CLOSING COSTS-LAB              |
|            |      |     | 35698                                       | -1,482.40 |          |             | 01/15/13 | 2154        | 425  | EAST GOSHEN TOWNSHIP<br>VOID CK. 2154 - DUPLICATE PAYMEN              |
|            |      |     |   | 246.01    | 0.00     | 246.01      |          |             |      |   |
| 07424-7477 |      |     | LOCHWOOD ELIMINATION PHASE 2<br>35872       | 379.90    |          | 0.00        | 01/24/13 | 2159        | 2762 | A.J. BLOSENSKI INC.<br>30 YDS. ROLLOFF HAULING & LANDFI<br>FEE        |
|            |      |     |   | 379.90    | 0.00     | 379.90      |          |             |      |   |
| 07425-1000 |      |     | MARYDELL PUMP STATION - ENGINEER<br>35695   | 5,493.75  |          | 0.00        | 01/15/13 | 2156        | 1052 | PENNONI ASSOCIATES INC.<br>SERVICES THRU 12/9/12 MARYDELL             |
|            |      |     |   | 5,493.75  | 0.00     | 5,493.75    |          |             |      |   |
| 07426-1000 |      |     | HERSHEY MILL STATION - ENGINEER<br>2,047.12 |           |          | 0.00        | 01/15/13 | 2156        | 1052 | PENNONI ASSOCIATES INC.<br>SERV. THRU 12/9/12 HERSHEY MILL            |
|            |      |     | 35783                                       | 250.00    |          |             | 01/18/13 | 2157        | 263  | CHESTER COUNTY CONSERVATION DISTRICT<br>PERMIT FEE - HERSHEY MILL DAM |
|            |      |     |   | 2,297.12  | 0.00     | 2,297.12    |          |             |      |   |
| 07427-1000 |      |     | RESERVE PUMP STATION - ENGINEER<br>35695    | 2,047.13  |          | 0.00        | 01/15/13 | 2156        | 1052 | PENNONI ASSOCIATES INC.<br>SERV. THRU 12/9/12 RESERVE PS              |
|            |      |     |   | 2,047.13  | 0.00     | 2,047.13    |          |             |      |   |
| Beg Bal    |      |     | 0.00  | 20,979.26 | 2,004.71 | 18974.55    |          |             |      |   |



**FEBRUARY 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
  
3. Hershey Mill Pump Station – Construction
  
4. Reserve Pump Station – Construction
  
5. Borrowing – Reimburse Capital Reserve for design and construction funds.

# UNOFFICIAL

eBid exchange Export  
Solicitation: Marydell Pump Station Diversion  
Generated 2/05/2013 10:06:27 AM Eastern

| Number                                 | Type | Description   | Unit Of Measure | Quantity | Construction Co.    |                     |
|--|------|---|-----------------|----------|---------------------|---------------------|
|  |      |   |                 |          | Ply-Mar Inc.        | Ron Smith Inc.      |
| 1                                      | BASE | Site Preparation and Restoration. Price complete, in place            | LS              | 1        | \$44,000.00         | \$2,000.00          |
| 2                                      | BASE | Installation, Maintenance, and Removal of Erosion and Sediment Co     | LS              | 1        | \$3,000.00          | \$600.00            |
| 3                                      | BASE | 8" Sanitary Sewer Main in Paved Areas, 0-10 ft. deep, between EXM     | LF              | 296      | \$31,080.00         | \$47,940.16         |
| 4                                      | BASE | 8" Sanitary Sewer Main in Paved Areas, 10-15 ft. deep, between EX     | LF              | 88       | \$11,440.00         | \$14,098.48         |
| 5                                      | BASE | 8" Sanitary Sewer Main in Non-Paved Areas, 0-10 ft. deep, between     | LF              | 114      | \$5,130.00          | \$17,071.50         |
| 6                                      | BASE | 8" Sanitary Sewer Main in Non-Paved Areas, 10-15 ft. deep, betwe      | LF              | 255      | \$11,475.00         | \$39,239.40         |
| 7                                      | BASE | 8" Sanitary Sewer Main between MH-6 and EXMH-201 via Open Cut         | LF              | 82       | \$24,600.00         | \$14,498.42         |
| 8                                      | BASE | Jack and Bore 8" Sanitary Sewer Main Under Boot Road. Price comp      | LF              | 118      | \$27,140.00         | \$31,832.86         |
| 9                                      | BASE | Manholes, 0-10 ft. deep. Price complete, in place                     | EA              | 3        | \$9,000.00          | \$7,106.40          |
| 10                                     | BASE | Manholes, 10-15 ft. deep. Price complete, in place                    | EA              | 2        | \$7,000.00          | \$5,142.40          |
| 11                                     | BASE | 4" Lateral Services. Price complete, in place                         | EA              | 1        | \$1,000.00          | \$3,800.00          |
| 12                                     | BASE | Low Pressure Sewer Lateral Diversion. Price complete, in place        | LS              | 1        | \$1,000.00          | \$3,000.00          |
| 13                                     | BASE | Full Depth Pavement Restoration (10" thick pavement section). Pric    | SY              | 275      | \$22,000.00         | \$39,325.00         |
| 14                                     | BASE | Demolition of Existing Pump Station and Abandonment of Existing F     | LS              | 1        | \$6,500.00          | \$4,000.00          |
| 15                                     | BASE | Paoli Pike Road Closure Detour and/or Maintenance of Traffic Durin    | LS              | 1        | \$2,000.00          | \$3,500.00          |
| 16                                     | BASE | 1.5" Mill and Overlay Remaining Width of Paoli Pike Shoulder. Price   | SY              | 75       | \$2,250.00          | \$3,630.00          |
| <b>TOTAL BASE BID</b>                  |      |   |                 |          | <b>\$208,615.00</b> | <b>\$236,784.62</b> |
| 17                                     | ADD  | In-Kind Concrete Curb Replacement. Price complete, in place           | LF              | 30       | \$1,500.00          | \$660.00            |
| 18                                     | ADD  | Miscellaneous Excavation and Backfill with 2A Modified Stone. Price   | CY              | 20       | \$1,200.00          | \$480.00            |
| 19                                     | ADD  | Miscellaneous Excavation and Backfill with Excavated Soils. Price co  | CY              | 20       | \$600.00            | \$480.00            |
| 20                                     | ADD  | Typical Concrete Encasement (does not include encasement of telec     | LF              | 20       | \$1,000.00          | \$2,000.00          |
| 21                                     | ADD  | 1.5" Mill and Overlay Paoli Pike Travel Lane. Price complete, in plac | SY              | 455      | \$10,920.00         | \$15,915.90         |
| 22                                     | ADD  | Soft Dig Test Pit for Utility Locating. Price complete, in place      | EA              | 3        | \$6,000.00          | \$2,898.00          |
| <b>TOTAL AMOUNT BID WITH ADD ITEMS</b> |      |   |                 |          | <b>\$229,835.00</b> | <b>\$259,218.52</b> |

# UNOFFICIAL

eBid eXc  
Solicitati  
Generatr

| Number | A. Gargiule         |                            | SJM                        |                     | Brightline          |  | BP Paterson Inc. |
|--------|---------------------|----------------------------|----------------------------|---------------------|---------------------|--|------------------|
|        | Sons Inc            | Construction Company, Inc. | Out of Site Infrastructure | Construction        | Construction        |  |                  |
| 1      | \$5,000.00          | \$10,960.00                | \$26,514.00                | \$23,500.00         | \$8,000.00          |  |                  |
| 2      | \$2,500.00          | \$7,250.00                 | \$14,580.00                | \$8,500.00          | \$2,500.00          |  |                  |
| 3      | \$37,000.00         | \$24,864.00                | \$37,296.00                | \$44,400.00         | \$76,072.00         |  |                  |
| 4      | \$13,200.00         | \$11,880.00                | \$13,024.00                | \$16,192.00         | \$23,672.00         |  |                  |
| 5      | \$11,400.00         | \$6,270.00                 | \$10,830.00                | \$10,488.00         | \$25,308.00         |  |                  |
| 6      | \$31,875.00         | \$18,360.00                | \$29,325.00                | \$24,225.00         | \$59,670.00         |  |                  |
| 7      | \$12,300.00         | \$32,800.00                | \$28,126.00                | \$61,500.00         | \$22,550.00         |  |                  |
| 8      | \$89,680.00         | \$109,740.00               | \$92,630.00                | \$79,650.00         | \$150,214.00        |  |                  |
| 9      | \$16,500.00         | \$9,570.00                 | \$13,716.00                | \$13,800.00         | \$14,400.00         |  |                  |
| 10     | \$14,000.00         | \$8,960.00                 | \$10,240.00                | \$14,000.00         | \$15,500.00         |  |                  |
| 11     | \$1,000.00          | \$1,160.00                 | \$1,672.00                 | \$1,100.00          | \$800.00            |  |                  |
| 12     | \$3,500.00          | \$3,590.00                 | \$3,413.00                 | \$2,545.00          | \$800.00            |  |                  |
| 13     | \$23,375.00         | \$21,450.00                | \$31,075.00                | \$24,475.00         | \$22,000.00         |  |                  |
| 14     | \$6,000.00          | \$5,440.00                 | \$7,591.00                 | \$24,000.00         | \$6,000.00          |  |                  |
| 15     | \$5,000.00          | \$5,620.00                 | \$19,593.00                | \$11,800.00         | \$3,500.00          |  |                  |
| 16     | \$1,500.00          | \$1,462.50                 | \$4,725.00                 | \$4,500.00          | \$3,000.00          |  |                  |
|        | <b>\$273,830.00</b> | <b>\$279,376.50</b>        | <b>\$344,350.00</b>        | <b>\$364,675.00</b> | <b>\$433,986.00</b> |  |                  |
| 17     | \$1,500.00          | \$2,370.00                 | \$862.50                   | \$1,650.00          | \$1,050.00          |  |                  |
| 18     | \$1,500.00          | \$1,740.00                 | \$790.00                   | \$1,800.00          | \$1,600.00          |  |                  |
| 19     | \$1,000.00          | \$1,740.00                 | \$580.00                   | \$1,100.00          | \$1,400.00          |  |                  |
| 20     | \$3,000.00          | \$2,280.00                 | \$560.00                   | \$2,800.00          | \$2,000.00          |  |                  |
| 21     | \$11,830.00         | \$9,327.50                 | \$12,740.00                | \$18,200.00         | \$10,920.00         |  |                  |
| 22     | \$3,600.00          | \$2,880.00                 | \$2,940.00                 | \$8,175.00          | \$4,500.00          |  |                  |
|        | <b>\$296,260.00</b> | <b>\$299,714.00</b>        | <b>\$362,822.50</b>        | <b>\$398,400.00</b> | <b>\$455,456.00</b> |  |                  |

**UNOFFICIAL**

eBid Exchange Export

Solicitation: Hershey Mill Pump Station Force Main Diversion

Generated 2/06/2013 2:05:42 PM Eastern

| Number | Type | Description   | Unit Of Measure | Quantity | Delaware Valley          |                            |                                 |                                |
|--------|------|---|-----------------|----------|--------------------------|----------------------------|---------------------------------|--------------------------------|
|        |      |   |                 |          | Utility Contractors, Inc | Brubacher Excavating, Inc. | Botella Construction Excavation | SIM Construction Company, Inc. |
| 1      | BASE | Site Preparation, Erosion and Sediment Controls, and Restoration.   | L.S.            | 1        | \$35,500.00              | \$31,000.00                | \$5,500.00                      | \$17,470.00                    |
| 2      | BASE | 6" HDPE SDR11 Force Main. Price complete, in place                  | L.F.            | 975      | \$66,300.00              | \$88,237.50                | \$92,625.00                     | \$162,825.00                   |
| 3      | BASE | 10" HDPE SDR11 Force Main. Price complete, in place                 | L.F.            | 15       | \$12,000.00              | \$15,375.00                | \$15,000.00                     | \$4,350.00                     |
| 4      | BASE | 6" Gate Valve. Price complete, in place                             | EA              | 1        | \$3,200.00               | \$2,550.00                 | \$6,500.00                      | \$1,790.00                     |
| 5      | BASE | Superpave 25mm Base Course, 8" Depth. Price complete in place       | S.Y.            | 70       | \$4,760.00               | \$7,000.00                 | \$3,850.00                      | \$8,540.00                     |
| 6      | BASE | Superpave 25mm Base Course, 5" Depth. Price complete in place       | S.Y.            | 35       | \$2,030.00               | \$2,975.00                 | \$1,225.00                      | \$3,780.00                     |
| 7      | BASE | Cured-in-Place Manhole Liner for MH-114. Price complete, in place   | L.S.            | 1        | \$5,200.00               | \$6,000.00                 | \$9,000.00                      | \$6,300.00                     |
| 8      | BASE | Cured-in-Place Manhole Liner for MH-115. Price complete, in place   | L.S.            | 1        | \$7,000.00               | \$8,000.00                 | \$9,000.00                      | \$8,210.00                     |
| 9      | BASE | Abandonment of Existing 6" Force Main. Price complete, in place     | L.S.            | 1        | \$24,000.00              | \$16,400.00                | \$7,000.00                      | \$21,180.00                    |
| 10     | BASE | Flowable Fill. Price complete, in place                             | C.Y.            | 25       | \$6,000.00               | \$4,000.00                 | \$75,000.00                     | \$8,750.00                     |
| 11     | BASE | Pump Haul Wastewater from Hershey Mill Pump Station. Price cc       | L.S.            | 1        | \$3,200.00               | \$5,100.00                 | \$10,000.00                     | \$14,910.00                    |
|        |      | <b>TOTAL BASE BID</b>   |                 |          | <b>\$169,190.00</b>      | <b>\$186,637.50</b>        | <b>\$234,700.00</b>             | <b>\$258,105.00</b>            |
| 12     | ADD  | Miscellaneous Excavation and Backfill with 2A Modified Stone. Pri   | C.Y.            | 10       | \$600.00                 | \$920.00                   | \$1,000.00                      | \$920.00                       |
| 13     | ADD  | Miscellaneous Excavation and Backfill with Excavated Soils. Price c | C.Y.            | 10       | \$350.00                 | \$420.00                   | \$1,000.00                      | \$920.00                       |
| 14     | ADD  | Typical Concrete Encasement. Price complete, in place               | L.F.            | 20       | \$1,300.00               | \$1,840.00                 | \$5,000.00                      | \$2,920.00                     |
|        |      | <b>TOTAL AMOUNT BID WITH ADD ITEMS</b>                              |                 |          | <b>\$171,440.00</b>      | <b>\$189,817.50</b>        | <b>\$241,700.00</b>             | <b>\$262,865.00</b>            |

## Rick Smith

---

**From:** Barbato, Daniel <DBarbato@Pennoni.com>  
**Sent:** Thursday, February 07, 2013 9:38 AM  
**To:** Rick Smith; Mark Miller  
**Cc:** ssmith@eastgoshen.org; Ellis, Michael  
**Subject:** FW: Hersheys Mill & Reserve PS budget - updated 2/7/13

Rick,

Following is an update to the budget status of the Hershey's Mill PS (HMPS) and Reserve PS (RPS) contract now that the Marydell and Hershey's Mill design services are nearly complete.

As of today (Feb 7), the budget for the Hershey's Mill and Reserves PS contract has been exceeded by approximately \$800. We anticipate an additional \$500 will be needed to complete the Hershey's Mill bid review, reference checks, and award recommendation. We anticipate the cost to complete the Reserve PS bid document and perform bid assistance services will be an additional \$6,000-\$8,000. The overall contract will therefore be exceeded by \$7,000-\$9,000.

There have been numerous scope additions and alterations to this task order beyond that which was included in our proposal as noted below. We have worked carefully in an attempt to provide the additional services within the original fee, but now that the projects are nearly complete, the additional scope has caused the original fee to be insufficient.

### Scope additions/alterations:

- Two separate bid packages are being prepared (one for each project). The original scope was based upon bidding the projects together in one package. In addition to separate bid packages, the bid assistance phase requires nearly twice as much time since there will be two separate construction contracts to provide assistance for.
- A second survey stakeout of the RPS sewer alignment was performed, as requested by the Township to address concerns from Mr. Schroeder. Only one stakeout of each diversion was included in the original scope.
- A second field survey was also performed for the HMPS project to install stakes along the Shope-Shumaker property line, which demarcates one side of the sewer easement. The stakeout was requested by the Township to mark-out the easement prior to the soil borings and to determine the extent of tree clearing that contractors will need to include in their bids.
- Following final design and receipt of all DEP permits and CCCD approvals for the RPS Diversion, the Township requested the sewer alignment be revised to the opposite side of the pump station building and 10 feet further from the Schroeder property to accommodate Schroeder's concerns. The full plan set (sewer alignment, lengths, elevations, profiles, E&S design, etc.) was revised thereafter. The revised plan set was also re-submitted to CCCD for a re-review with a detailed explanation/highlighting of changes from the previously approved plan; CCCD agreed that a formal resubmission and re-review process would not be necessary following this informal resubmission.
- Plans of the existing RPS force main indicated a possible conflict with the aforementioned re-alignment of the sewer around the pump station building. In order to identify any such conflicts, a staff engineer was on-site for approximately ½ day to observe exploratory excavations by the PW Dept to locate and document the force main. The force main was found in a completely different location, and we revised our existing conditions plans accordingly.

- We had previously submitted easement legal descriptions and exhibits for the RPS Diversion to the Township prior to the requested re-alignment. The descriptions and exhibits were revised and resubmitted based upon the requested re-alignment.
- DCNR provided unforeseen comments during the General Permit for Stream Crossings application PNDI search process for the HMPS Diversion that serpentine soils were present on-site and that further field soils studies and possible design alterations to avoid disturbance of such soils would be required. We coordinated with DCNR and assembled justification and supporting documentation to demonstrate that no such soils exist on the site without the need for site visits, soils studies, design alterations, or project delays. Our scope explicitly did not include addressing any PNDI conflicts.
- DEP required that we apply directly to the Army Corps of Engineers (ACOE) to perform a bog turtle habitat screening during the General Permit for Stream Crossings application process for the RPS Diversion. We prepared a habitat screening application to ACOE and attended the on-site screening with ACOE. Our proposal assumed that a screening would be required; however, the proposal was based upon very limited coordination with DEP (not ACOE) since DEP's application instructions state that they will perform all screening work themselves.
- We performed on-site observation of the soil borings, classified the soils, and prepared boring logs for the HMPS project. The proposal did not include any on-site geotechnical soil classifications or preparation of boring logs.

With all of this in mind, I need to request from you a supplement for this project in the amount of \$9,000 to cover the additional services. As always, we will only bill for what is actually used. The Marydell design task order will be completed approximately \$11,000 under budget. Maybe this can be a transfer from that project. (Please note that the requested supplement was \$7,000 in our January email, but the second survey stakeout of the HMPS was not envisioned at that time).

Dan

2-8-13

TO MA

I WOULD SUGGEST MOVING \$ 9,000  
 FROM THE MARYDELL PROJECT TO THE  
 HERSHEY MILL / RESERVE PROJECT

Rick



**MEMORANDUM**

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

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

**DATE:** February 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 January.

**Marydell PS Elimination**

- We provided bid assistance services including preparation of Addendum #4, responding to questions from prospective bidders, conducting bid opening, preparing the bid tabulation, reviewing bid documents, checking contractor references, and preparing an award recommendation letter.
- We continued to coordinate with the various affected utility providers. We met with PECO on-site and have coordinated with them to brace poles along the new sewer route during construction. We added notes to the plans as requested by Sunoco, and we are awaiting a determination from Sunoco regarding existing gas main depths. Verizon has not provided any comments on the plans.

**Hershey's Mill PS Diversion**

- We provided bid assistance services including conducting a non-mandatory pre-bid meeting on January 23, 2013, preparation of Addenda #1 and #2, responding to questions from prospective bidders, reviewing a request for an alternative "equivalent" cured-in-place manhole lining product, conducting bid opening, preparing the bid tabulation, reviewing bid documents, checking contractor references, and preparing an award recommendation letter.
- We staked out the property line (one side of easement) between the Shope and Shumaker properties at 25-foot intervals.

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

### **Reserve PS Elimination**

- No activity since last report.
- The GP-5 "Utility Line Stream Crossing" permit does not allow any construction between March 1 and June 15 because the Ridley Creek tributary that will be crossed is a protected water use for trout stocking. We tentatively propose to put the project out to bid in March, with bids due in early April and award on April 8, 2013. The contract duration will be 120 days with flexibility on the construction start date.

### **Hershey's Mill Muffin Monster**

- No activity since last report.

### **Semi-Annual I/I Analysis**

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

### **Chapter 94 Annual Reports**

- We began to collect data and information required to prepare the reports. We analyzed portable and permanent meter data from calendar year 2012, and we began to prepare the reports for the Westtown and West Goshen Service Areas.
- DEP informed us that a Chapter 94 Report will not be required for the Lockwood Chase Sewage Treatment Plant since it was decommissioned in 2012. We will submit a letter to DEP documenting the Plant closure, in lieu of a full report, per their request.



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

February 6, 2013

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

**Meters:** Have been read on a daily basis with no problems to report.

**C.C. Collection:** All pump stations were visited on a daily basis; we experienced a problem at the Ash Bridge pumping station due to a power outage. The transducer was knocked off line; however the back-up float system took over the operation. Once the power was restored we were able to bring the transducer back on line. We will be changing out the air release valve on the Ash Bridge force main due to flows this work will be done I the off hours.

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

**R.C. Collection:** Hunt Country Pump Station was visited on a daily basis. The wet well was scraped due to a buildup of grease.

**R.C. Plant:** The Public Works Dept. was notified of a freezing problem in the screen room. We found that both heaters were down due to a motor failure . Upon further investigation we found the heaters to be totally rusted out. I contacted the manufacture who advised me that the warranty was no longer available. I asked the manufacture to price out new parts and a replacement cost for new heaters as well. The cost to replace the units was \$6860.00, keep in mind that they are explosion proof. The cost to

replace the motors and fans was \$1,750.00. It was decided to repair the existing units; both units will be pulled out over the summer months due to the high humidity. We incurred a power outage at the plant on January 31 for a total of 18 hours.

**Alarms:**

Alarms for the month ranged from power outages to a high level at the Ash Bridge pumping station. We received a total of 18 alarms.

**PA One Calls:**

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



Locating Connection to  
Sewer Main  
1560 Tanglewood 1-30-13





Hand digging Under  
Storm drain.  
1560 Tanglewood 1-30-13



Tee is pulled apart  
on main side  
1560 Tanglewood 1-30-13







Crew installing New Pipe  
Under 24" Storm Sewer  
1560 Tanglewood 1-30-13





Televising Pipe.  
1560 Tanglewood 1-30-13





## Monthly Operations Report: January 2013

### Treatment Process Operation

During January, 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 0.23 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 <0.10 mg/L to 0.41 mg/L.

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

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

| Table 1                     |                        |
|-----------------------------|------------------------|
| Final Effluent: Outfall 001 |                        |
| Sample Date                 | Total Phosphorus, mg/L |
| 1/1/2013                    | <0.10                  |
| 1/2/2013                    | <0.10                  |
| 1/5/2013                    | 0.15                   |
| 1/8/2013                    | 0.31                   |
| 1/10/2013                   | 0.28                   |
| 1/15/2013                   | 0.22                   |
| 1/16/2013                   | 0.23                   |
| 1/23/13                     | 0.41                   |
| 1/29/2013                   | 0.23                   |
| <b>Monthly Average</b>      | <b>0.23</b>            |

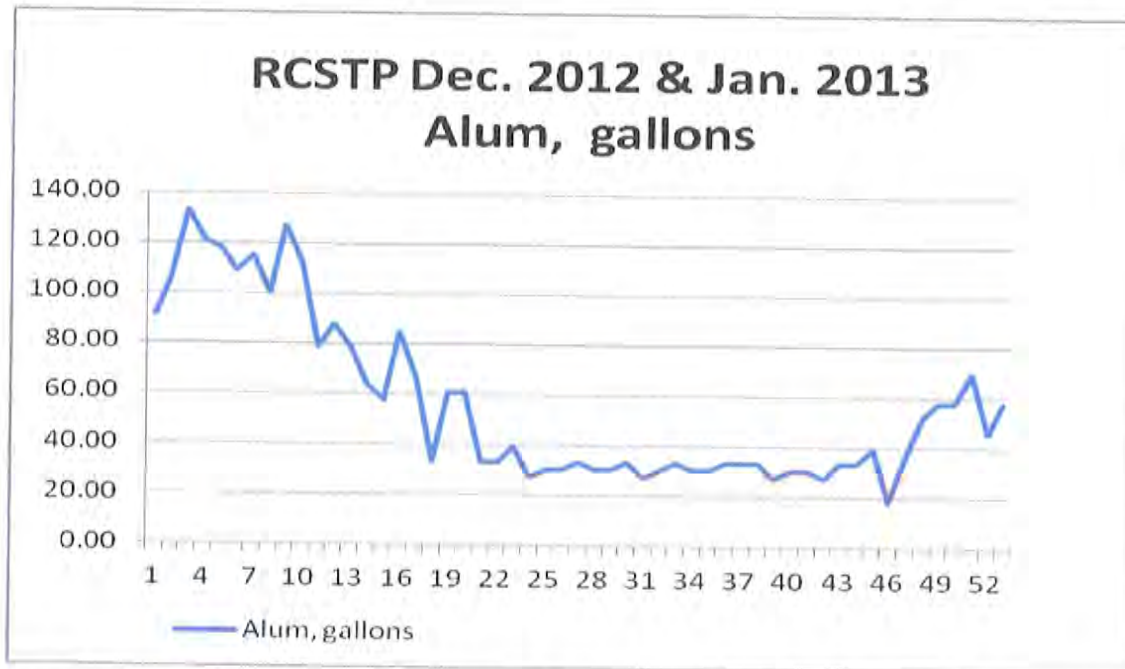
Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during the month of January. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Microscopic examinations and physical observation of the SBR MLSS and foam color is 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 January with increased volume addition towards the end of the month. The increase in alum use is largely the result of placing the LMI chemical feed pump online beginning January 23, 2013. This chemical feed pump provides aluminum sulfate solution prior to filtration to assist in total phosphorus removal.



SBR No. 2 remains out of service. Approximately 8 feet (154,500 gallons) of mixed liquor was transferred to the sludge holding tanks for dewatering. The remaining contents are mixed and are aerated (blower in hand mode at reduced speed). 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 testing for reactive (ortho) and total phosphorus is ongoing with a formalized plan beginning February 10<sup>th</sup>.



Presented below is a summary of the flow data for January 2013:

**Flow data:**

| January 2013                              |                             |                         |
|---|-----------------------------|-------------------------|
| Flow Meter Location                       | Total Volume for Month, MGD | Average Daily Flow, gpd |
| Influent Wastewater to Screening Building | 10.730                      | 346,118                 |
| Influent Wastewater to SBRs               | 10.747                      | 346,661                 |
| Internal Recycle                          | 0.429                       | 13,823                  |
| Treated Effluent to Disc Filters          | 10.450                      | 337,110                 |
| Final Effluent Discharge                  | 8.224                       | 265,290                 |
| Applebrook Golf Course                    | 0                           | 0                       |

**Chemical Usage:**

| January 2013                   |               |               |
|--------------------------------|---------------|---------------|
| Chemical                       | Daily Average | Total Monthly |
| Soda Ash                       | 400 lbs./day  | 12,400 pounds |
| Magnesium Hydroxide            | 0 gpd         | 0 gallons     |
| Polyaluminum chloride solution | 0 gpd         | 0 gallons     |
| Polymer (centrifuge)           | 4.5*          | 63 gallons    |

\*Fourteen (14) days of centrifuge operation

**Solids Dewatering and Disposal: January 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       | 273,369 gallons                      |
| Average Dewatered Total Solids, % | 17.8%* (estimated on-site data)      |
| Wet Tons                          | 67.25                                |
| Dry Tons                          | 12.0* (estimated based on-site data) |
| Number of dumpsters               | 6                                    |

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 10.54 feet and the level at the end of the month was 4.96 feet. The initial total solids concentration was 1.31% and ended the month as 0.70% total solids. A total of 118,125 gallons of supernatant was decanted during the month.

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

### **Significant Storm Events**

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

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

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

**Influent Wastewater**

| Design Basis     | Flow   |         | BOD <sub>5</sub> |         | TSS  |         | NH <sub>4</sub> -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 | mg/L                    | lbs/day |
| Sample Date      |        |         |                  |         |      |         |                    |         |           |         |                         |         |
| January 2, 2013  | 0.3496 | 290     | 846              | 322     | 939  | 43.3    | 126                | 49.4    | 144       | 4.8     | 14                      |         |
| January 8, 2013  | 0.2889 | 126     | 304              | 272     | 655  | 38.9    | 94                 | 52.1    | 126       | 6.9     | 17                      |         |
| January 15, 2013 | 0.4199 | 162     | 567              | 60      | 210  | 28.1    | 98                 | 45.5    | 159       | 4.9     | 17                      |         |
| January 23, 2013 | 0.3340 | 188     | 524              | 82      | 228  | 29.5    | 82                 |         |           | 3.8     | 11                      |         |
| January 29, 2013 |        | 191     |                  | 250     |      |         |                    |         |           | 5.9     |                         |         |
| Average          | 0.3481 | 191     | 560              | 197     | 508  | 35      | 100                | 49      | 143       | 5       | 15                      |         |
| Minimum          | 0.2889 | 126     | 304              | 60      | 210  | 28      | 82                 | 46      | 126       | 4       | 11                      |         |
| Maximum          | 0.4199 | 290     | 846              | 322     | 939  | 43      | 126                | 52      | 159       | 7       | 17                      |         |

**Final Effluent - Out Fall 001**

| NPDES Permit Discharge Limitations | Flow        |      | CBOD <sub>5</sub> |      | TSS       |       | NH <sub>4</sub> -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       |  |
| Sample Date                        |             |      |                   |      |           |       |                    |      |                         |          |                |  |
| January 2, 2013                    | 0.275       | 2.0  | 4.6               | 5    | 11        | 0.42  | 0.95               | 0.10 | 0.23                    | 1        | 0.0000         |  |
| January 8, 2013                    | 0.224       | 2.4  | 4.5               | 9    | 17        | 0.26  | 0.49               | 0.31 | 0.58                    | 1        | 0.0000         |  |
| January 15, 2013                   | 0.290       | 2.1  | 5.1               | 5    | 12        | 0.15  | 0.37               | 0.22 | 0.53                    | 1        | 0.0000         |  |
| January 23, 2013                   | 0.293       |      |                   |      |           |       |                    |      |                         | 1        | 0.0000         |  |
| January 29, 2013                   |             | 2.7  |                   | 5    |           |       |                    |      |                         | 1        | 0.0000         |  |
| Average                            | 0.2705      | 2.3  | 5                 | 6    | 13        | 0.275 | 0.60               | 0.22 | 0.45                    | 1        | 0.0000         |  |
| Minimum                            | 0.2240      | 2.0  | 4                 | 5    | 11        | 0.151 | 0.37               | 0.10 | 0.23                    | 1        | 0.0000         |  |
| Maximum                            | 0.2930      | 2.7  | 5                 | 9    | 17        | 0.415 | 0.95               | 0.31 | 0.58                    | 1        | 0.0000         |  |
| Instantaneous Maximum              |             | 40   |                   | 42   |           |       |                    |      |                         | 200      | 1,000          |  |

**Influent Wastewater**

| Design Basis      | Flow<br>MGD Average | BOD <sub>5</sub> |         | TSS  |         | NH <sub>4</sub> -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 |
| Sample Date       |                     |                  |         |      |         |                    |         |           |         |                         |         |
| December 4, 2012  | 0.2421              | 183              | 369     | 210  | 424     | 21.4               | 43      | 42.7      | 86      | 7                       | 14      |
| December 10, 2012 | 0.2688              | 233              | 522     | 130  | 291     | 42.1               | 94      | 44.7      | 100     | 5.5                     | 12      |
| December 18, 2012 | 0.2808              | 310              | 726     | 430  | 1,007   | 39.6               | 93      | 61.5      | 144     | 8.8                     | 21      |
| December 26, 2012 | 0.5438              | 200              | 907     | 156  | 708     | 28.6               | 130     | 40        | 181     | 4.7                     | 21      |
| Average           | 0.3339              | 232              | 631     | 232  | 607     | 33                 | 90      | 47        | 128     | 7                       | 17      |
| Minimum           | 0.2421              | 183              | 369     | 130  | 291     | 21                 | 43      | 40        | 86      | 5                       | 12      |
| Maximum           | 0.5438              | 310              | 907     | 430  | 1007    | 42                 | 130     | 62        | 181     | 9                       | 21      |

**Final Effluent - Out Fall 001**

| NPDES Permit<br>Discharge Limitations | Flow<br>MGD Average<br>0.75<br>Instantaneous<br>Maximum | CBOD <sub>5</sub> |           | TSS  |           | NH <sub>4</sub> -N |           | Phosphorus, Total, mg/L |           | Fecal Coliform |          |
|---------------------------------------|---|-------------------|-----------|------|-----------|--------------------|-----------|-------------------------|-----------|----------------|----------|
|                                       |   | mg/L              | lbs/month | mg/L | lbs/month | mg/L               | lbs/month | mg/L                    | lbs/month | Geo Mean       | Geo Mean |
| Sample Date                           |   |                   |           |      |           |                    |           |                         |           |                |          |
| December 4, 2012                      | 0.210   | 2.0               | 3.5       | 11   | 19        | 0.10               | 0.18      | 0.38                    | 0.67      | 1              | 0.0000   |
| December 5, 2012                      | 0.230   |                   |           |      |           |                    |           | 0.27                    | 0.52      |                |          |
| December 9, 2012                      | 0.211   |                   |           |      |           | 0.10               | 0.18      | 0.27                    | 0.48      |                |          |
| December 10, 2012                     | 0.213   | 2.0               | 3.6       | 5    | 9         |                    |           | 0.15                    | 0.27      | 1              | 0.0000   |
| December 13, 2012                     | 0.239   |                   |           |      |           |                    |           | 0.10                    | 0.20      |                |          |
| December 18, 2012                     | 0.250   | 2.0               | 4.2       | 5    | 10        | 0.48               | 1.01      | 0.10                    | 0.21      | 1              | 0.0000   |
| December 26, 2012                     | 0.370   | 2.0               | 6.2       | 5    | 15        | 1.91               | 5.89      | 0.14                    | 0.43      | 1              | 0.0000   |
| Average                               | 0.2461  | 2.0               | 4         | 7    | 14        | 0.649              | 1.81      | 0.20                    | 0.39      | 1              | 0.0000   |
| Minimum                               | 0.2100  | 2.0               | 4         | 5    | 9         | 0.100              | 0.18      | 0.10                    | 0.20      | 1              | 0.0000   |
| Maximum                               | 0.3700  | 2.0               | 6         | 11   | 19        | 1.910              | 5.89      | 0.38                    | 0.67      | 1              | 0.0000   |



2013 FLOWMETERS

| 2013 DECEMBER 4TH QUARTER- METERS FROM WEST GOSHEN - CC COLLECTION |                      |                         |           |                       |         |                       |        |                         |        |               |            |              |  |
|--|----------------------|-------------------------|-----------|-----------------------|---------|-----------------------|--------|-------------------------|--------|---------------|------------|--------------|--|
| Precip<br>Inches   | DATE                 | WESTTOWN WAY<br>READING | GPD       | ELLIS LANE<br>READING | GPD     | PAOLI PIKE<br>READING | GPD    | WILSON DRIVE<br>READING | GPD    | SUMMIT<br>GPD | NET<br>GPD | NET<br>FLOWS |  |
| 0.00   | 12/01/13             | 117,699                 | 1,264,500 | 27,279,944            | 108,135 | 13,588,349            | 65,340 | 15,568,834              | 46,715 | 20,400        | 20,400     | 1,044,310    |  |
| 0.00   | 12/03/13             | 119,025                 | 1,326,000 | 27,291,708            | 117,640 | 13,595,591            | 72,420 | 15,576,498              | 76,640 | 20,400        | 20,400     | 1,059,300    |  |
| 0.00   | 12/04/13             | 120,230                 | 1,205,000 | 27,301,286            | 95,780  | 13,601,082            | 54,910 | 15,581,600              | 51,020 | 20,400        | 20,400     | 1,003,290    |  |
| 0.00   | 12/05/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.00   | 12/06/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.00   | 12/07/13             | 123,913                 | 1,227,667 | 27,334,384            | 110,327 | 13,619,959            | 62,923 | 15,594,072              | 41,573 | 20,400        | 20,400     | 1,012,843    |  |
| 0.00   | 12/08/13             | 125,130                 | 1,217,000 | 27,345,052            | 106,680 | 13,626,293            | 63,340 | 15,600,160              | 60,880 | 20,400        | 20,400     | 986,100      |  |
| 0.00   | 12/09/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.00   | 12/10/13             | 127,537                 | 1,203,500 | 27,366,586            | 107,670 | 13,638,480            | 60,935 | 15,612,732              | 62,860 | 20,400        | 20,400     | 972,035      |  |
| 0.00   | 12/11/13             | 128,736                 | 1,199,000 | 27,377,128            | 105,420 | 13,644,714            | 62,340 | 15,619,000              | 62,680 | 20,400        | 20,400     | 968,560      |  |
| 0.45   | 12/13/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.47   | 12/14/13             | 132,414                 | 1,226,000 | 27,413,029            | 119,670 | 13,662,856            | 60,940 | 15,634,002              | 50,007 | 20,400        | 20,400     | 995,383      |  |
| 0.88   | 12/15/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.00   | 12/16/13             | 135,226                 | 1,406,000 | 27,443,468            | 152,195 | 13,674,477            | 58,105 | 15,649,680              | 78,390 | 20,400        | 20,400     | 1,117,310    |  |
| 0.00   | 12/17/13             | 136,737                 | 1,511,000 | 27,460,551            | 170,830 | 13,681,786            | 73,090 | 15,658,002              | 83,220 | 20,400        | 20,400     | 1,183,860    |  |
| 0.00   | 12/18/13             | 138,063                 | 1,326,000 | 27,473,629            | 130,780 | 13,688,386            | 66,000 | 15,665,961              | 79,580 | 20,400        | 20,400     | 1,049,630    |  |
| 0.00   | 12/19/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.00   | 12/20/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.05   | 12/21/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.00   | 12/22/13             | 143,093                 | 1,257,500 | 27,522,609            | 122,450 | 13,713,084            | 61,745 | 15,688,055              | 55,235 | 20,400        | 20,400     | 1,018,070    |  |
| 0.00   | 12/23/13             | 144,305                 | 1,212,000 | 27,533,841            | 112,320 | 13,718,044            | 49,600 | 15,695,159              | 71,040 | 20,400        | 20,400     | 979,040      |  |
| 0.00   | 12/24/13             | 145,523                 | 1,218,000 | 27,545,152            | 113,110 | 13,722,911            | 48,670 | 15,702,441              | 72,820 | 20,400        | 20,400     | 983,400      |  |
| 0.17   | 12/25/13             | 146,757                 | 1,234,000 | 27,556,189            | 110,370 | 13,727,706            | 47,950 | 15,709,196              | 67,550 | 20,400        | 20,400     | 1,008,130    |  |
| 0.00   | 12/26/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.00   | 12/27/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.15   | 12/28/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.00   | 12/29/13             | 151,609                 | 1,213,000 | 27,600,941            | 111,880 | 13,746,932            | 48,065 | 15,732,603              | 58,518 | 20,400        | 20,400     | 994,538      |  |
| 1.50   | 12/30/13             |                         |           |                       |         |                       |        |                         |        | 20,400        | 20,400     | 0            |  |
| 0.00   | 12/30/13             | 154,537                 | 1,464,000 | 27,631,524            | 152,915 | 13,750,217            | 66,425 | 15,749,035              | 82,160 | 20,400        | 20,400     | 1,162,500    |  |
| 4.12   |                      |                         | 1,277,069 |                       | 120,481 |                       | 60,165 |                         | 63,671 |               |            | 1,031,665    |  |
|  |                      |                         |           |                       | EG TWP  |                       |        |                         |        |               |            |              |  |
|  | MONTH TO DATE        |                         |           |                       | 4.12    |                       |        |                         |        |               |            |              |  |
|  | NORMAL MONTH TO DATE |                         |           |                       | 4.12    |                       |        |                         |        |               |            |              |  |
|  | YEAR TO DATE         |                         |           |                       | 4.12    |                       |        |                         |        |               |            |              |  |
|  | NORMAL YEAR TO DATE  |                         |           |                       |         |                       |        |                         |        |               |            |              |  |

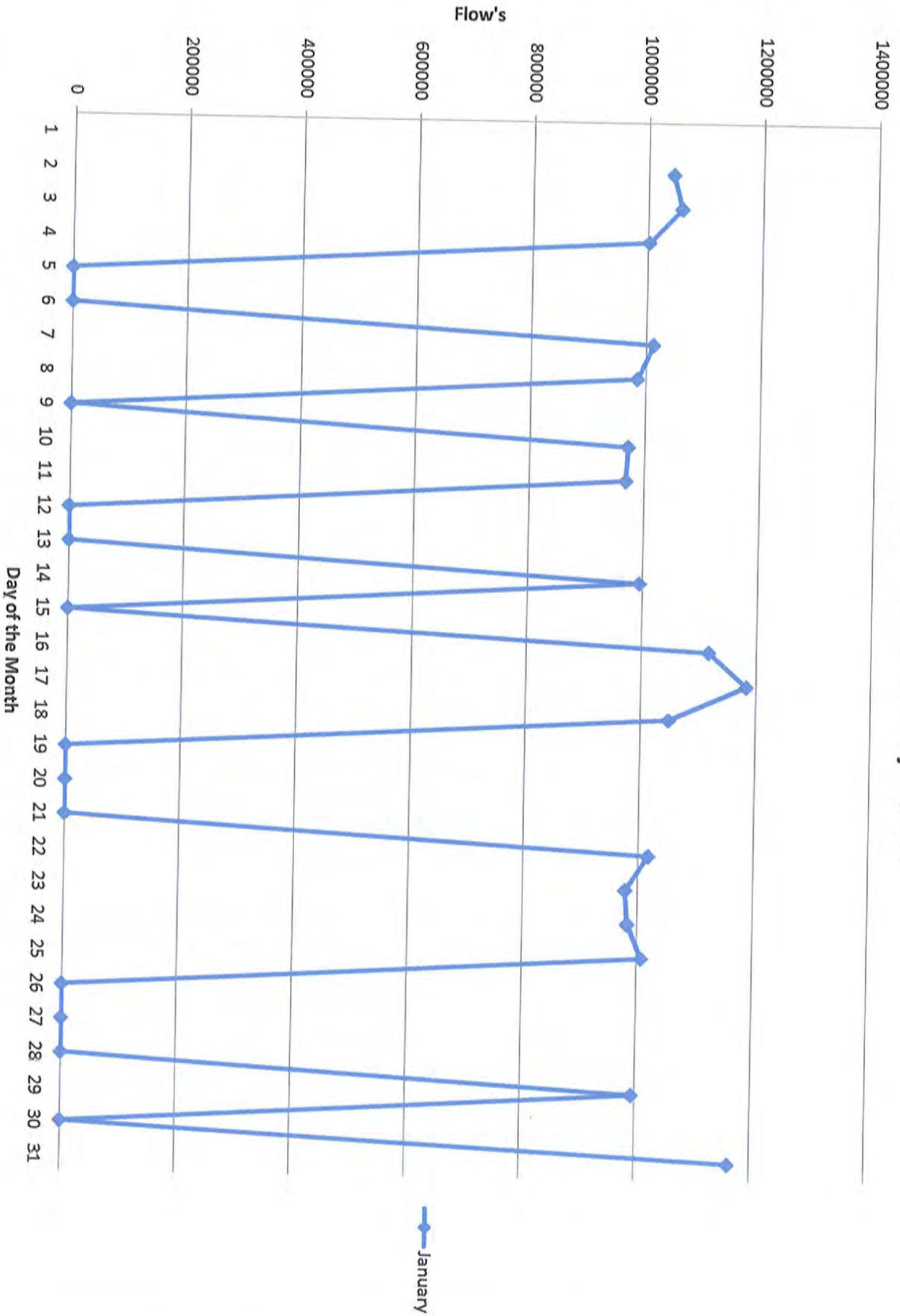
2013 FLOWMETERS

2013 DECEMBER 4TH QUARTER- METERS FROM WEST GOSHEN - CC COLLECTION

| DATE       | HERSHEY'S MILL |        | ASHERBRIDGE |        | HICKS METER |           | RESERVOIR  |           | SHERMAN |       | BARKWAY   |        |
|------------|----------------|--------|-------------|--------|-------------|-----------|------------|-----------|---------|-------|-----------|--------|
|            | READING        | GPD    | READING     | GPD    | READING     | GPD       | READING    | GPD       | READING | GPD   | READING   | GPD    |
| 12/1/2013  |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/2/2013  |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/3/2013  | 25,115,426     | 98,769 | 1,575,429   | 68,371 | 8,561,773   | 896,300   | 8,660,918  | 991,450   | 962,873 | 7,149 | 2,647,677 | 11,740 |
| 12/4/2013  |                |        |             |        | 8,746,496   | 855,780   |            |           |         |       |           |        |
| 12/5/2013  |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/6/2013  |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/7/2013  |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/8/2013  |                |        |             |        | 9,004,399   | 859,677   | 9,093,389  | 889,900   |         |       |           |        |
| 12/9/2013  |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/10/2013 | 25,177,259     | 88,333 | 1,579,859   | 63,286 | 9,269,363   | 879,870   | 9,269,363  | 879,870   | 967,845 | 7,103 | 2,655,574 | 11,281 |
| 12/11/2013 |                |        |             |        | 9,356,450   | 870,870   |            |           |         |       |           |        |
| 12/12/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/13/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/14/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/15/2013 | 25,220,209     | 85,900 | 1,583,064   | 64,100 | 9,617,963   | 871,710   |            |           |         |       |           |        |
| 12/16/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/17/2013 | 25,238,220     | 90,055 | 1,584,637   | 78,650 | 9,821,591   | 1,018,140 | 9,831,288  | 1,096,970 | 972,900 | 7,685 | 2,663,308 | 10,880 |
| 12/18/2013 |                |        |             |        | 10,028,899  | 976,110   |            |           |         |       |           |        |
| 12/19/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/20/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/21/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/22/2013 | 25,283,818     | 91,196 | 1,587,937   | 66,000 |             |           |            |           |         |       |           |        |
| 12/23/2013 |                |        |             |        | 10,386,537  | 894,095   | 10,475,820 | 892,830   | 976,740 | 7,680 | 2,669,069 | 11,522 |
| 12/24/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/25/2013 |                |        |             |        | 10,565,692  | 898,720   | 10,656,301 | 906,090   |         |       |           |        |
| 12/26/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/27/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/28/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/29/2013 | 25,344,623     | 86,864 | 1,592,318   | 62,586 | 10,998,317  | 855,040   | 11,203,688 | 1,026,855 | 981,676 | 7,051 | 2,676,494 | 10,607 |
| 12/30/2013 |                |        |             |        |             |           |            |           |         |       |           |        |
| 12/31/13   | 25,362,388     | 88,825 | 1,594,073   | 87,750 |             |           |            |           | 983,244 | 7,840 | 2,678,671 | 10,885 |
|            |                | 89,992 |             | 70,106 | 0           | 922,377   |            |           |         | 7,363 |           | 11,147 |

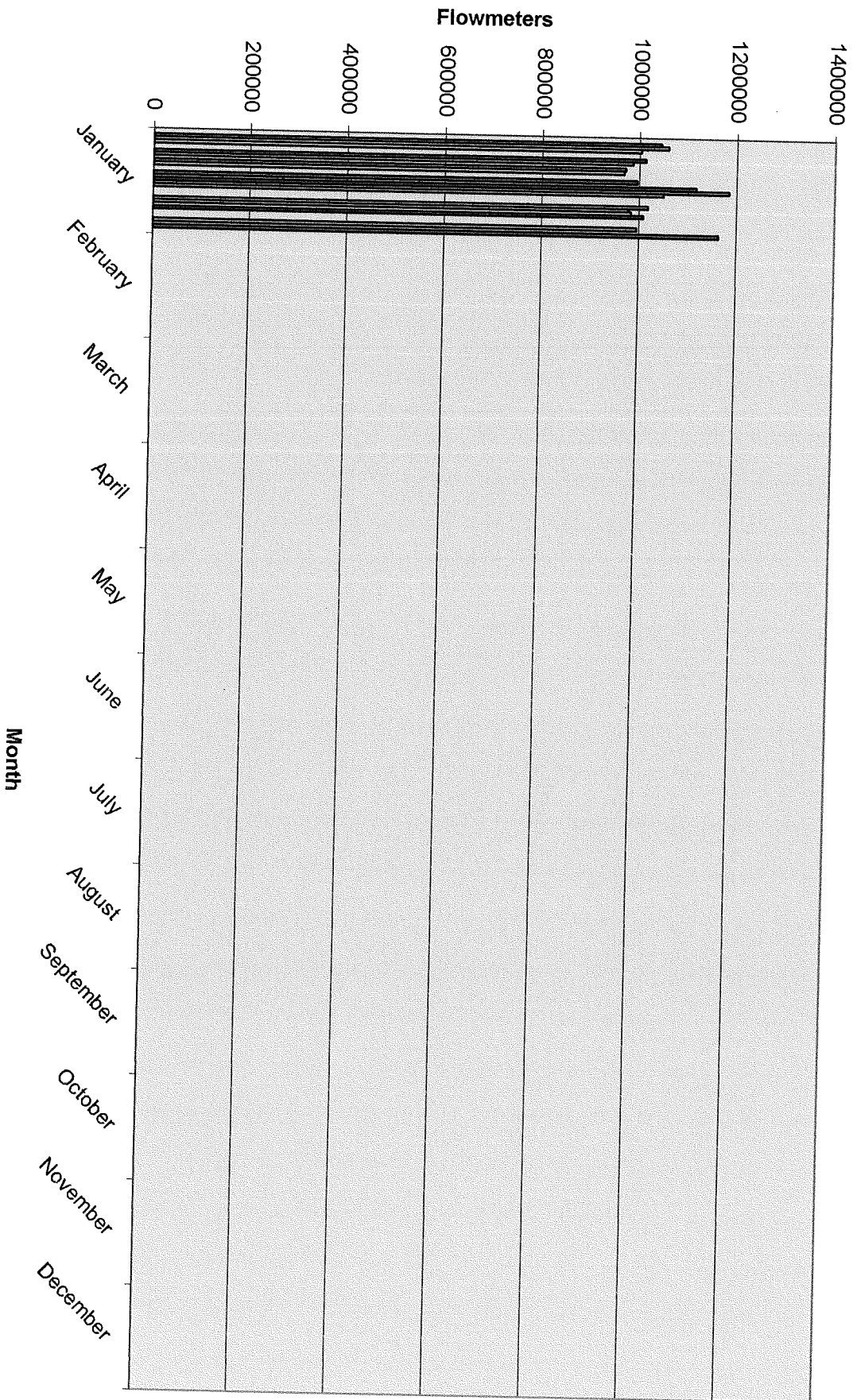


# Flowmeters January 2013

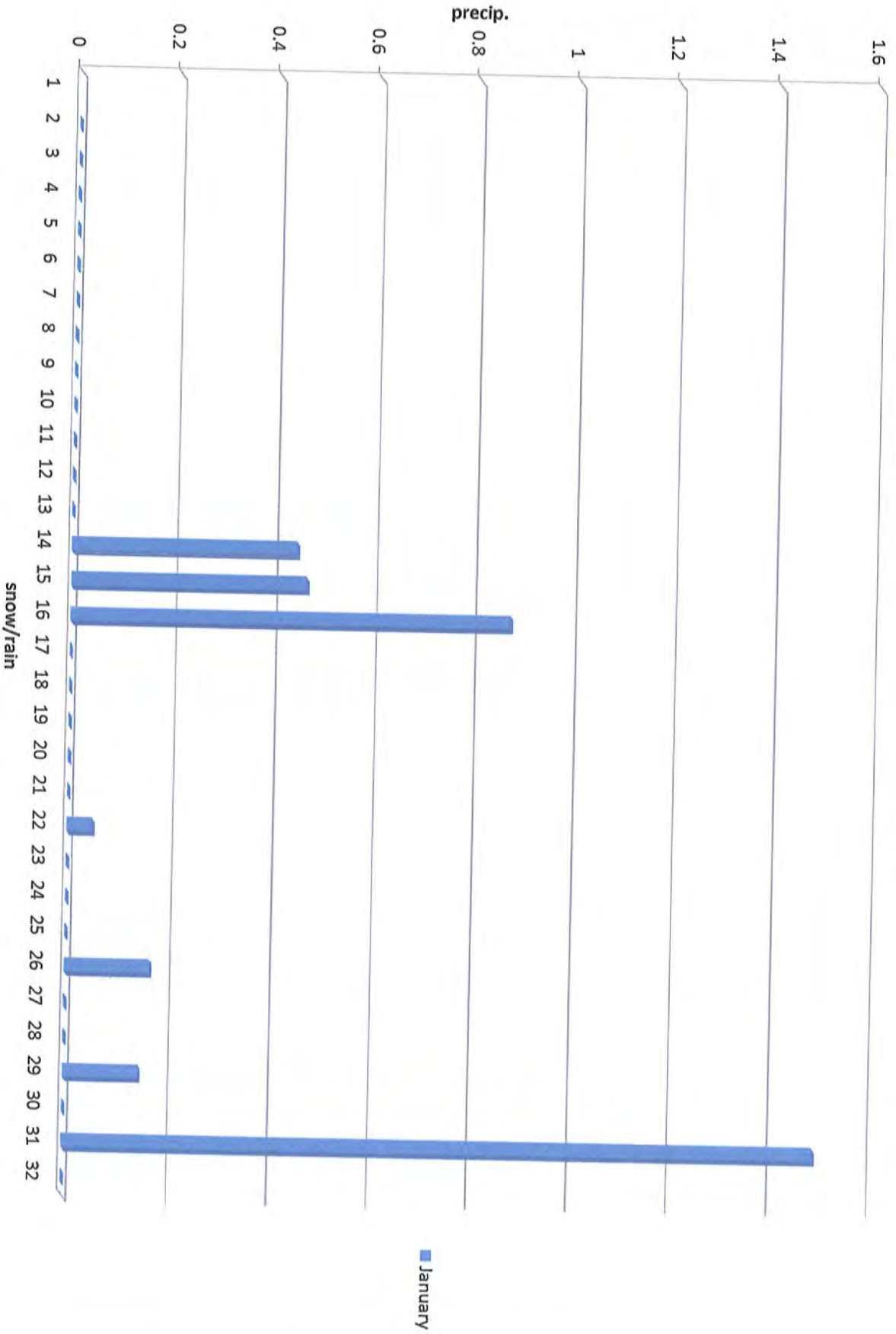




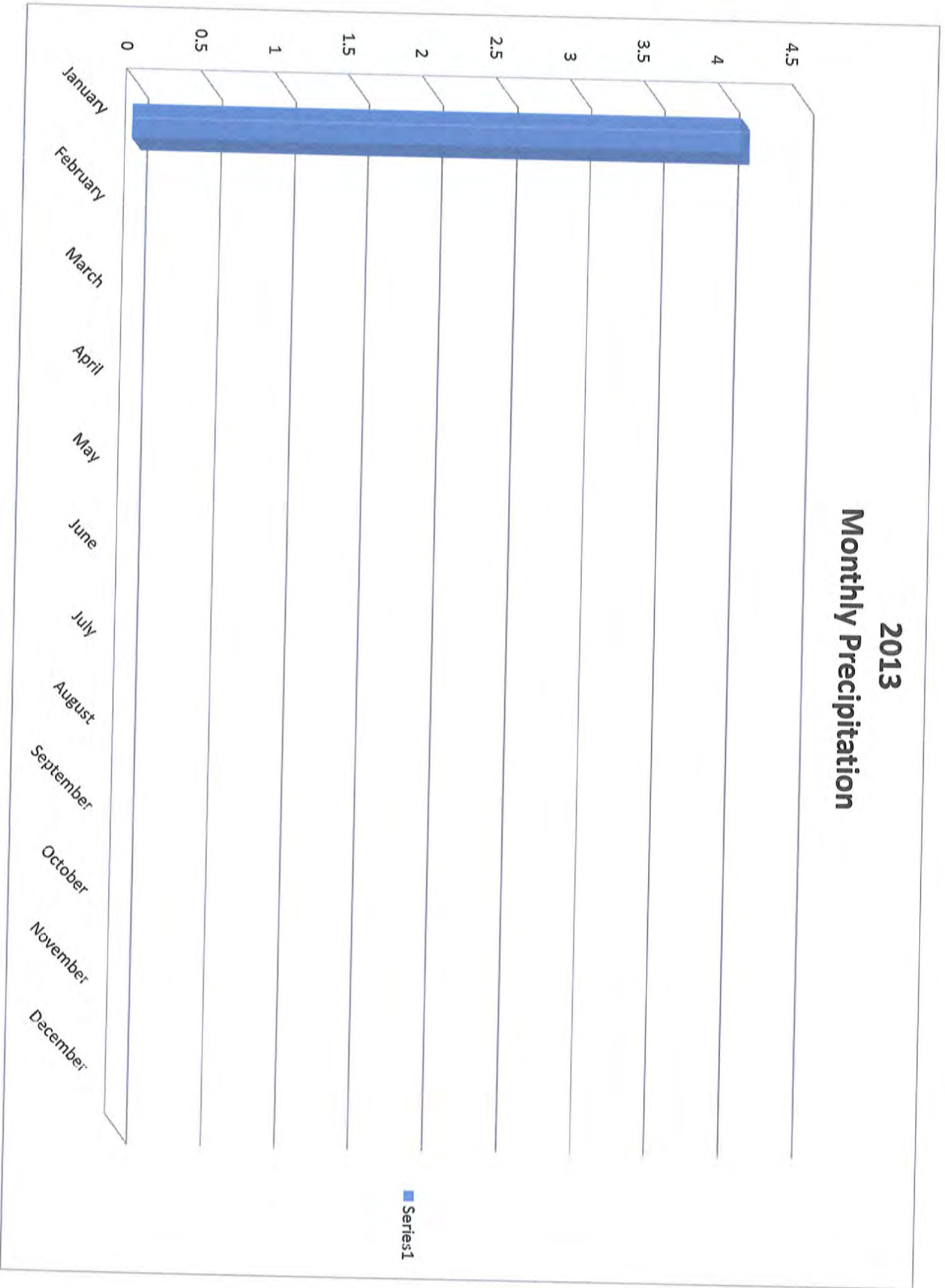
# Monthly Totals 2012 Jan-Dec



# January Precip. 4.12 - 2013



# 2013 Monthly Precipitation



**BOARD OF SUPERVISORS**  
EAST GOSHEN TOWNSHIP  
CHESTER COUNTY  
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199



January 18, 2013

East Goshen Township  
Authority, Boards and Commissions  
1580 Paoli Pike  
West Chester, Pa. 19380

Re: Comprehensive Plan task Force  
2015 Comprehensive Plan Update

Dear ABC Members:

At their meeting on January 15, 2013 the Board of Supervisors approved the composition and schedule for the Comprehensive Plan Task Force (CPTF). The Task Force will meet monthly over the next eighteen months or so with our planning consultant, John Thielacker from the Brandywine Conservancy, to develop an update to the Township Comprehensive Plan. The Municipal Planning Code (MPC) mandates that the Township update the Comprehensive Plan every 10 years. We have received Vision Partnership Program grant from Chester County for \$28,050 which is equal to 40% of the cost of the project.

**East Goshen Comprehensive Plan Task Force (CPTF) composition:**

|  |          |
|--|----------|
| Board of Supervisor Member             | 1        |
| Planning Commission Members            | 2        |
| Park Board member                      | 1        |
| Conservancy Board Member               | 1        |
| Historical Commission Member           | 1        |
| Commerce Development Commission Member | 1        |
| Brandywine Conservancy                 | 2        |
| <u>Zoning Officer</u>                  | <u>1</u> |
| Total                                  | 10       |

**Additional Stakeholders:**

- The Municipal Authority will be consulted on as needed basis.
- The Chester County Planning Commission (CCPC) will have a representative attend as needed to monitor the project and provide assistance.
- A recording secretary will be provided to keep an official record of each meeting.
- **East Goshen Township residents and property owners. The public is welcome to attend all the CPTF meetings.**

**BOARD OF SUPERVISORS  
EAST GOSHEN TOWNSHIP**

**Actions for Each ABC:**

- Each Board and Commission shall identify a primary and an alternate task force member to serve on the CPTF during their February 2013 Meeting. Only the primary task force members need to attend the CPTF meetings, however in the event of a conflict there is an identified alternate who can fill in.
- Additional ABC members are welcome to attend the CPTF meetings.
- Each ABC shall add a line item to their agenda titled "Comprehensive Plan Update". This is where the respective CPTF member will update their ABC members on the progress of the project and solicit feedback to bring back to the CPTF for consideration.

**Administrative Actions:**

- The meetings will be open to the public and advertised as required by the Sunshine Act.

**Schedule:**

- The Comp Plan Update should take approximately 18 months to complete.
- **The meetings will be held on the 4<sup>th</sup> Monday of the month at 7:00 PM at the Township Building in the rear conference room.**
- **The Comp Plan Kick-Off Meeting will be February 25, 2013 at 7:00 PM; All Primary and Alternate Task Force designees should attend the Comp Plan Update Kick Off meeting.**

Please designate a primary and alternate member for the task force during your February 2013 meeting and forward the names of your designees to me. The 2005 Comprehensive Plan is available on our website for your information and use. I will have hard copies of the Comprehensive Plan for each of the designated Task Force Members at your next Meeting.

Sincerely,



Mark A. Gordon  
Zoning Officer

Cc: John Theilacker, Brandywine Conservancy (via email)  
Jeannine Speirs, Chester County Planning Commission