

EAST GOSHEN MUNICIPAL AUTHORITY

February 20, 2012

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 9, 2012
4. APPROVAL OF INVOICES

| | | |
|------------------------------|----|----------|
| a. Pennoni #494474 | \$ | 220.00 |
| b. Pennoni #494475 | \$ | 4,315.00 |
| c. Pennoni #494477 | \$ | 682.50 |
| d. Lockwood Engineer # 6229 | \$ | 2,600.00 |
| e. Gawthrop Greenwood #95900 | \$ | 476.68 |
| f. Gawthrop Greenwood #96712 | \$ | 1,349.00 |
5. LIAISON REPORTS
6. FINANCIAL REPORTS
 - a. January Report - Pending
7. OLD BUSINESS
8. GOALS
 - a. January Goals
9. NEW BUSINESS
 - a. Representative from Miller Environmental to discuss plan
 - b. Proposal for Professional Services for Lockwood Chase STP
 - c. E-bid results - Lochwood Chase Sewer
10. CAPACITY REQUESTS - none
11. SEWER REPORTS
 - a. Director of Public Works Report
 - b. Pennoni Report
 - c. Miller Environmental Inc Report with DMR's
 - d. East Goshen Township Flows for January 2012 1st Quarter
12. ANY OTHER MATTER
13. CORRESPONDENCE AND REPORTS OF INTEREST
14. PUBLIC COMMENT
15. ADJOURNMENT

Meetings & Dates of Importance

February 21, 2012 Board of Supervisors 7:00 PM

| | | |
|-------------------|-----------------------|-----------|
| February 22, 2012 | Friends of EGT 501c3 | 7:00 PM |
| February 23, 2012 | Farmers Market | 3-5:00 PM |
| February 27, 2012 | Deer Management | 7:00 PM |
| March 6, 2012 | Board of Supervisors | 7:00 PM |
| March 7, 2012 | Pension Committee | 1:00 PM |
| March 7, 2012 | Planning Commission | 7:00 PM |
| March 8, 2012 | Farmers Market | 3-5:00 PM |
| March 8, 2012 | Historical Commission | 7:00 PM |
| March 12, 2012 | Municipal Authority | 7:00 PM |
| March 14, 2012 | CDC | 7:00 PM |
| March 14, 2012 | Conservancy Board | 7:00 PM |

Reminder – NEWSLETTER ARTICLE SUBMISSION DUE DATES:

| <u>Article Due Date</u> | <u>Delivery date</u> |
|-------------------------|----------------------|
| May 2, 2012 | July 1, 2012 |

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draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
January 9, 2012

The East Goshen Township Municipal Authority held their regularly scheduled meeting on Monday, January 9, 2012 at 7:00pm at the East Goshen Township building. Members in attendance were: Chairman Joe McCawley, Jack Yahraes, Fran Beck, Dana Pizarro and Kevin Cummings. Also in attendance were: Carmen Battavio (Township Supervisor), and Dan Barbato (Pennoni).

Call to Order & Pledge of Allegiance

Joe McCawley called the meeting to order at 7:00pm and led those present in the Pledge of Allegiance. There was a moment of silence to remember the troops. Joe asked if anyone would be recording the meeting and there was no response.

Chairman's Report/Other Members' Reports

Joe asked for nominations for new officers. Everyone agreed to continue the usual rotation. Fran moved to elect Dana as Chairman, Fran as Vice Chairman, Jack as Secretary, Kevin as Treasurer, and Joe as Assistant Secretary/Treasurer. Jack seconded the motion. The motion passed unanimously. Jack presented Joe with a golden plunger and Carmen thanked him for all of his time and effort as Chairman.

Approval of Minutes

The new Chairman noted that the minutes of the December 12, 2011 meeting were approved as corrected.

Approval of Invoices

Joe moved to approve payment of the following invoices:

- a. Pennoni #491508, \$907.50
- b. Pennoni #491509, \$1,510.00
- c. Pennoni #491510, \$1,210.00
- d. Pennoni #491512, \$810.00

Fran seconded the motion. Dana commented that he doesn't think the \$907.50 includes everything for December. Dan said a few hours for a meeting were not included. There was no further discussion. The motion passed unanimously.

The Clinger invoice was tabled until the next meeting.

Liaison Reports - None

Financial Reports – Were reviewed

Old Business

1. Dana mentioned the life cycle analysis which will show cost savings that the upgrade of the treatment plan will give to the Township. Dan has done the first analysis. Dana would like to have all of the analyses on one spreadsheet when they are done. He estimates the return will

1 be 5-8 years. The expense of keeping the plant running during the construction should be
2 included.

3 2. In future bid documents, Joe would like to see multiple primes, so, if one is extended, the
4 others will be too.

5 3. Lockwood Chase will be passive open space and turned over to the Home Owners
6 Association and will be put back to its original state.
7

8 **Goals**

- 9 1. Newsletter - Kevin will prepare the next newsletter article about grease. Dana will
10 provide some information to him. Kevin asked Dan for something about the bacteria
11 formed by the grease. Jack will do May's article about the life cycle analysis.
12 2. Jack will attend the March West Goshen meeting.
13

14 **New Business**

- 15 a. Pennoni presented a proposal for 2012 listing hourly rates, services that will be provided,
16 and allocation of the estimated \$37,000 fee for annual services. Fran moved to accept the
17 proposal. Joe seconded the motion. Dana commented that the allocation for monthly
18 meetings is down by \$2,500 for 2012. Dan confirmed that and mentioned that Chapter
19 94 reports will be slightly up and after March, Rick was to continue doing INI reports for
20 internal use only. There being no further discussion a vote was taken. The motion
21 passed unanimously.
22 b. There was discussion about concerns with the operation of the plant. It was decided to
23 ask Miller Environmental representatives to attend the next meeting.
24

25 **Capacity Requests**

26 None.
27

28 **Sewer Reports**

- 29 a. Director of Public Works Report:
30 • Meters – They were read on a daily basis as well as the portable meters.
31 • CC Collection – The main breaks that were located in Supplee Valley have been
32 repaired. We are in the process of televising some laterals that were active when they
33 were televising. The Public Works Department has to excavate Strasburg Road on
34 Thursday to replace a broken manhole cover. The pumping stations were visited on a
35 daily basis for routine maintenance. The number one pump at Ashbridge had to be
36 pulled and sent out for repair when the main seal went bad causing the motor to trip
37 out on overload. We were notified of a sewer lateral blockage on Barker Drive. The
38 Public Works Dept. was able to clear the blockage by using a plunge ring in the stack
39 pipe. We placed a dozen vent caps for the month
40 • Lockwood Plant – Routine maintenance was performed during the month.
41 • RC Collection – The pumping station was visited on a daily basis as part of our
42 routine maintenance.
43 • Ridley Plant: The Public Works Department performed routine maintenance during
44 the month of December. The trough was vacuumed out in the screen room. The parts
45 arrived for the UV chamber. We will schedule the bulb replacement later this month.

1 The burned out UV rack was delivered to Siemens for repairs. We hope to have it
2 back by the end of the month.

- 3 • Alarms – 34 alarms were received for December.
- 4 • PA One Calls – Public Works Dept. responded to 117 PA One Calls.

5
6 b. **Pennoni** – Dan gave the following report:

7 Invoices - with summaries were provided under separate cover.

8 Ridley Creek Sewage Treatment Plant –

- 9 • Tim Daily and Dan Barbato met with Mark Miller and Rick Smith to discuss the
10 current operation of the plant by Miller Environmental. We received plan operating
11 data and trends from Scott Towler. Further review, if necessary, will be complete
12 after Miller Environmental prepares their report to the Authority.

13
14 I/I Metering Project

- 15 • The Township continues to meter flows at selected locations. Temporary meters are
16 in operation at locations as recommended. Upon receipt of tributary connection data
17 from the Township, Pennoni will review permanent meter data (particularly in the
18 Chester Creek Service Area), make recommendations for 2012 temporary metering,
19 and identify potential I&I problem areas.

20
21 Ridley Creek Consent Order

- 22 • The final report is due in March of 2012. Reports after this date will continue but will
23 be for internal Authority use only.

24
25 LCSTP Elimination

- 26 • The Chester County Conservation District issued an E&SPC adequacy letter on
27 December 6, and the NPDES Permit was issued on December 29. DEP approved the
28 Plant Closure Plan on December 8. All permits and approvals have therefore been
29 obtained.
- 30 • We are finalizing the specifications, including revisions per comments from Rick
31 Smith. We are also finalizing the bid plans to include the sewer construction work
32 only (the permit plans included both the sewer construction and the Plant closure, but
33 the Township Public Works Dept. will be performing the Plant closure work).
- 34 • The sewer construction project will be solicited using PennBID's electronic
35 solicitation website. The proposed solicitation and construction schedule follows:
 - 36 ○ Finalize plans and specifications for final Township review = 1/13/12
 - 37 ○ Advertise = 1/19/12 and 1/23/12
 - 38 ○ Optional Pre-Bid Meeting = approx 1/26/12
 - 39 ○ Bids Due = approx 2/7/12
 - 40 ○ Award = 2/13/12
 - 41 ○ Notice to Proceed = approx 3/1/12
 - 42 ○ Construction (120 days) = approx 3/1/12 – 6/28/12

43
44 Hershey Mill PS Diversion, Reserve PS Elimination Planning

- 45 • In early November, survey stakeout was performed for preliminary sewer alignments,
46 followed by a field recon to evaluate the alignments. They forwarded recommended

1 adjustments to the Township. Upon receipt of comments and responses from the
2 Township, they will finalize plans and permitting applications.
3

4 Marydell PS Elimination Planning

- 5 • DEP approved the Planning Module on December 7, 2011.
- 6 • In early November, preliminary field stakeout of the sewer was completed and our
7 recommendations were sent to the Township for consideration. Upon receipt of
8 comments and responses from the Township we will prepare plans and permitting
9 applications.

10
11 Applebrook Spray Irrigation NPDES Permit Renewal

- 12 • The NPDES discharge permit was submitted to DEP on June 15. DEP sent a letter
13 confirming that the application is administratively complete and is undergoing
14 technical review. They called DEP several times over the past month for a status
15 update but have not received a return call.

- 16
17 c. **Miller Environmental Inc.** provided the following report on Operation and
18 Maintenance activities for the month of December 2011:

19 Routine Operation and Maintenance Activities:

- 20 • Daily sampling, testing and inspections for permit compliance
- 21 • Routing daily testing for process optimization
- 22 • Microscopic exams indicate filaments may be reappearing.
- 23 • The Biomass is being watched closely due to excessive grease being introduced to the
24 treatment process.
- 25 • Wells to be sampled in December.
- 26 • Cleaned grease from influent wet well daily.
- 27 • Inspection of equipment in all phases of the treatment process
- 28 • Daily cleaning of muffin monster
- 29 • Clean out disc filters weekly
- 30 • Clean off DO probes and verify readings with hand held DO probe

31
32 Non-Routine Operations and Maintenance Activities

- 33 • UV Banks being modified
- 34 • Cleaned around bug light by effluent channel
- 35 • Throttled back #2 disc filter to even out flows between filters

36
37 Items of Concern

- 38 • Influent sampler is freezing up in cold weather
- 39 • Centrifuge parts have not been installed to date.
- 40 • UV parts have not been installed to date
- 41 • SBR blowers are not hitting the peak of 3ppm in SBR 4 and sometimes SBR 2
- 42 • Dialer is not calling out when the generator exercises or is called to run
- 43 • Ammonia exceeded the permit limits during the month of November. As of today
44 (1/6/12 date of report) ammonia is in compliance in SBR 2, 3, 4 and effluent.
- 45 • SBR 1 needs to be cleaned, DO probe needs to be taken off-line and stored

1
2 Items on Schedule for January

- 3 • Sludge dewatering
4 • Continued monitoring of filaments in reactors due to grease and possible solutions.
5 • Extensive attention to bringing ammonia back into compliance
6

7 Summary of December Influent Flow – Ridley Creek

- 8 • Average - .378 mgd
9 • Maximum - .533 mgd

10 Summary of December Discharge – Lockwood

- 11 • Average – 11,700 gpd
12

13 Permit Compliance

14 Ridley had a minor eDMR exceedence for DO related to a new operator taking a
15 dissolved oxygen reading during a non-decant cycle. The operator has been given the
16 proper instruction as to when the samples should be taken.
17

18 Any Other Matter - None
19

20 Correspondence and Reports of Interest

- 21 1. Ridley Creek NPDES – Tim and Dan are going through the permits and will provide any
22 comments.
23 2. Lockwood Chase Discharge for Stormwater Construction Activities – No Comments
24 3. Ridley Creek Audit – The audit provided by Maillie, Falconiero & Company LLP was
25 reviewed. It is regarding the H2O PA Grant from the Department of community and Economic
26 Development. Dana thanked Joe for his efforts in getting this grant.
27

28 Public Comment – None
29

30 Adjournment

31 There being no further business, Kevin moved to adjourn the meeting. Joe seconded the motion.
32 The motion passed unanimously. The meeting was adjourned at 7:50pm.
33

34 Respectfully submitted,
35

36
37 Ruth Kiefer

38 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 # : 494474
Invoice Date : 01/23/2012
Project : EGMA1100
Project Name : 2011 Annual Services

For Services Rendered through: 01/15/2012

December Authority meeting.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

| | |
|---------------|--------|
| Labor : | 220.00 |
| Expense : | 0.00 |
| Phase Total : | 220.00 |

Amount Due This Invoice

220.00

| | |
|--------------------|-----------|
| Fee : | 12,500.00 |
| Prior Billings : | 12,222.50 |
| Current Billings : | 220.00 |
| Total Billings : | 12,442.50 |

Phase : **** -- Professional Services

| Labor Class | Hours/Units | Rate | Amount |
|---------------------|-------------|--------|---------------|
| Authority Engineer | 2.00 | 110.00 | 220.00 |
| Labor Total: | 2.00 | | 220.00 |

Total Phase : **** -- Professional Services

| | |
|-----------|----------|
| Labor : | \$220.00 |
| Expense : | \$0.00 |

Total Project : EGMA1100 -- 2011 Annual Services

| | |
|-----------|----------|
| Labor : | \$220.00 |
| Expense : | \$0.00 |

01/23/12

East Goshen Municipal Authority
 EGMA1100 Invoice Summary
 Invoice Date 12-27-2011

| | | | |
|-------------------------------|----------------------|--------------|------------|
| Project: | 2011 Annual Services | | |
| Pennoni Job No.: | EGMA 1100 | | |
| Invoice No: | 494474 | | |
| Invoice Period: | 12/12/2011 | to | 1/15/2012 |
| Initial Authorization: | \$ 10,000.00 | Date: | 12/13/2010 |
| Changes: | \$2,500 | Date: | 10/10/2011 |
| Contract Amount: | \$ 12,500.00 | | |
| Previously Invoiced: | \$ 12,222.50 | | |
| Current Invoice: | \$ 220.00 | | |
| Invoiced to Date (\$): | \$ 12,442.50 | | |
| Invoiced to Date (%): | 100% | | |
| Remaining Budget (\$): | \$ 57.50 | | |
| Remaining Budget (%): | 0% | | |

Budget by Phase:

| | |
|-------------------------------|-----------------------------|
| Phase No. | **** |
| Phase Name: | 2011 Annual Services |
| Phase Budget: | \$ 12,500.00 |
| Previously Invoiced: | \$ 12,222.50 |
| Current Invoice: | \$ 220.00 |
| Invoiced to Date (\$): | \$ 12,442.50 |
| Invoiced to Date (%): | 100% |
| Remaining Budget (\$): | \$ 57.50 |
| Remaining Budget (%): | 0% |

Comments: December Authority meeting.



INVOICE

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

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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 # : 494475
Invoice Date : 01/23/2012
Project : EGMA1105
Project Name : LCSTP Final Design & Permitting

For Services Rendered through: 01/15/2012

Finalize alignments, prepare bid plan sets and specifications for client review.

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

Labor : 4,232.50
Expense : 0.00
Phase Total : 4,232.50

Phase : 4 -- NPDES (E&SPC) Permitting
Total Phase : 4 -- NPDES (E&SPC) Permitting

Labor : 82.50
Expense : 0.00
Phase Total : 82.50

Amount Due This Invoice

\$4,315.00

Fee : 77,800.00
Prior Billings : 47,437.38
Current Billings : 4,315.00
Total Billings : 51,752.38

OK 125

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

| Labor Class | Hours/Units | Rate | Amount |
|--------------------------|--------------|--------|-----------------|
| Authority Engineer | 7.00 | 110.00 | 770.00 |
| Project Engineer | 18.75 | 90.00 | 1,687.50 |
| Associate Engineer | 10.00 | 80.00 | 800.00 |
| Engineering Technician I | 15.00 | 65.00 | 975.00 |
| Labor Total: | 50.75 | | 4,232.50 |

| | | |
|--|------------------|-------------------|
| Total Phase : 2 -- Sewer Stakeout and Easements | Labor : | \$4,232.50 |
| | Expense : | \$0.00 |

Phase : 4 -- NPDES (E&SPC) Permitting

| Labor Class | Hours/Units | Rate | Amount |
|---------------------|-------------|--------|--------------|
| Authority Engineer | 0.75 | 110.00 | 82.50 |
| Labor Total: | 0.75 | | 82.50 |

| | | |
|--|------------------|----------------|
| Total Phase : 4 -- NPDES (E&SPC) Permitting | Labor : | \$82.50 |
| | Expense : | \$0.00 |

| | | |
|--|------------------|-------------------|
| Total Project : EGMA1105 -- LCSTP Final Design & Permitting | Labor : | \$4,315.00 |
| | Expense : | \$0.00 |

East Goshen Municipal Authority
EGMA1105 Invoice Summary
Invoice Date 12-27-2011

Project: EGMA1105
Pennoni Job No.: LCSTP Final Design & Permitting
Invoice No: 494475
Invoice Period: 12/12/2011 to 1/15/2012
Initial Authorization: \$ 77,800.00 **Date:** 5/5/2011
Contract Amount: \$ 77,800.00
Previously Invoiced: \$ 47,437.38
Current Invoice: \$ 4,315.00
Invoiced to Date (\$): \$ 51,752.38
Invoiced to Date (%): 67%
Remaining Budget (\$): \$ 26,047.62
Remaining Budget (%): 33%

Budget by Phase:

Phase No. *****
Phase Name: LCSTP Final
Design &
Permitting
Phase Budget: \$ 77,800.00
Previously Invoiced: \$ 47,437.38
Current Invoice: \$ 4,315.00
Invoiced to Date (\$): \$ 51,752.38
Invoiced to Date (%): 67%
Remaining Budget (\$): \$ 26,047.62
Remaining Budget (%): 33%

Comments: Finalize alignments, prepare bid plan sets and specifications for client review.



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 #: 494477
 Invoice Date: 01/23/2012
 Project: EGMA1108
 Project Name: Ridley Creek Operating

For Services Rendered through: 01/15/2012

Review STP operating data provided by S. Towler and the Authority, meeting with M. Miller and R. Smith to discuss plant operations.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

| | |
|---------------|--------|
| Labor : | 682.50 |
| Expense : | 0.00 |
| Phase Total : | 682.50 |

Amount Due This Invoice

| | |
|--------------------|----------|
| Fee : | 2,500.00 |
| Prior Billings : | 1,751.00 |
| Current Billings : | 682.50 |
| Total Billings : | 2,433.50 |

\$682.50

Phase : **** -- Professional Services

| Labor Class | Hours/Units | Rate | Amount |
|---------------------|-------------|--------|---------------|
| Senior Engineer | 6.50 | 105.00 | 682.50 |
| Labor Total: | 6.50 | | 682.50 |

Total Phase : **** -- Professional Services

| | |
|-----------|----------|
| Labor : | \$682.50 |
| Expense : | \$0.00 |

Total Project : EGMA1108 -- Ridley Creek Operating

| | |
|-----------|----------|
| Labor : | \$682.50 |
| Expense : | \$0.00 |

OK MAM
 2/17/2012

East Goshen Municipal Authority

EGMA1108 Invoice Summary

Invoice Date 12-27-2011

Project: EGMA1108
Pennoni Job No.: Ridley Creek Operating
Invoice No: 494477
Invoice Period: 12/12/2011 to 1/15/2012
Initial Authorization: \$ 2,500.00 **Date:** 10/4/2011
Contract Amount: \$ 2,500.00
Previously Invoiced: \$ 1,751.00
Current Invoice: \$ 682.50
Invoiced to Date (\$): \$ 2,433.50
Invoiced to Date (%): 97%
Remaining Budget (\$): \$ 66.50
Remaining Budget (%): 3%

Budget by Phase:

Phase No. ****
Phase Name: Hershey Mill & Reserve
Phase Budget: \$ 2,500.00
Previously Invoiced: \$ 1,751.00
Current Invoice: \$ 682.50
Invoiced to Date (\$): \$ 2,433.50
Invoiced to Date (%): 97%
Remaining Budget (\$): \$ 66.50
Remaining Budget (%): 3%

Comments: Review STP operating data provided by S. Towler and the Authority, meeting with M. Miller and R. Smith to discuss plant operations.



EARTH CORE
services

1458 Shaner Drive Pottstown, PA 19465
p (610) 404-2570 f (610) 404-2580
rick@earthcoreusa.com

2/8/2012

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

Invoice #: 6229

Job: Lockwood Chase

Completion Date: 2/8/2012

| | |
|-----------------------|----------|
| Mobilization | 800.00 |
| ATV Rig, auger probes | 1,800.00 |

ok RS
Lockwood ENGINEERING

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.



East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
12/31/2011
Client No: 6604-01M
Invoice No. 95900

General Authority Services

Fees

| | | Hours | |
|------------|---|-------|--------|
| 12/12/2011 | RFA | | |
| | Review packet for Authority meeting on 12/12/11; attend regular meeting of Municipal Authority. | 2.50 | |
| | For Current Services Rendered | 2.50 | 475.00 |

Recapitulation

| <u>Timekeeper</u> | <u>Hours</u> | <u>Hourly Rate</u> | <u>Total</u> |
|-------------------|--------------|--------------------|--------------|
| Robert F. Adams | 2.50 | \$190.00 | \$475.00 |

Expenses

| | | |
|------------|--------------------------------|-----------------|
| | Postage | 1.68 |
| | Total Expenses Thru 12/31/2011 | 1.68 |
| | Previous Balance | \$680.48 |
| | Total Current Charges | 476.68 |
| 01/05/2012 | Cost Advance Payment | -168.00 |
| 01/05/2012 | Cost Expense Payment | -5.48 |
| 01/05/2012 | Fee Payment | -507.00 |
| | Total Payments | -680.48 |
| | Balance Due | <u>\$476.68</u> |

OK TRS
1-10

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



Gawthrop Greenwood, PC
Attorneys at Law

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
12/31/2011
Client No: 6604-01M
Invoice No. 95900

General Authority Services

Fees

| | | Hours | |
|------------|---|-------------|---------------|
| 12/12/2011 | RFA | | |
| | Review packet for Authority meeting on 12/12/11; attend regular meeting of Municipal Authority. | 2.50 | |
| | For Current Services Rendered | <u>2.50</u> | <u>475.00</u> |

Recapitulation

| <u>Timekeeper</u> | <u>Hours</u> | <u>Hourly Rate</u> | <u>Total</u> |
|-------------------|--------------|--------------------|--------------|
| Robert F. Adams | 2.50 | \$190.00 | \$475.00 |

Expenses

| | | |
|------------|--------------------------------|------------------------|
| | Postage | 1.68 |
| | Total Expenses Thru 12/31/2011 | <u>1.68</u> |
| | Previous Balance | \$680.48 |
| | Total Current Charges | 476.68 |
| 01/05/2012 | Cost Advance Payment | -168.00 |
| 01/05/2012 | Cost Expense Payment | -5.48 |
| 01/05/2012 | Fee Payment | <u>-507.00</u> |
| | Total Payments | -680.48 |
| | Balance Due | <u><u>\$476.68</u></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.



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
01/31/2012
Client No: 6604-01M
Invoice No. 96712

General Authority Services

Fees

| | | Hours | |
|------------|---|-------|----------|
| 01/09/2012 | RFA | | |
| | Review packet for meeting of Municipal Authority of 1/9/12. | 0.50 | |
| 01/25/2012 | SRM | | |
| | Review contract for Lockwood; memo regarding changes to contract. | 3.00 | |
| 01/26/2012 | RFA | | |
| | Review messages from Rick Smith regarding release of bid documents; review Steve McDonnell memos regarding Lockwood contract revisions; Message to Rick Smith regarding suggested revisions; review message from Smith regarding incorporation of revisions in Lockwood contract; Message to Rick Smith and Michael Ellis regarding document revisions. | 1.80 | |
| 01/30/2012 | RFA | | |
| | Review revised agreement incorporating recommended changes in language; Message to Michael Ellis commenting on revised contract language for Lockwood project. | 0.80 | |
| | SRM | | |
| | Review of edits. | 1.00 | |
| | For Current Services Rendered | 7.10 | 1,349.00 |

Recapitulation

| <u>Timekeeper</u> | <u>Hours</u> | <u>Hourly Rate</u> | <u>Total</u> |
|----------------------|--------------|--------------------|--------------|
| Robert F. Adams | 3.10 | \$190.00 | \$589.00 |
| Stephen R. McDonnell | 4.00 | 190.00 | 760.00 |

| | | |
|-----------------------|---------|------------|
| Previous Balance | | \$476.68 |
| Total Current Charges | OIC TRS | 1,349.00 |
| Balance Due | | \$1,825.68 |

East Goshen Municipal Authority

General Authority Services

Page: 2

01/31/2012

Client No: 6604-01M

Invoice No. 96712

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.

2012
EAST GOSHEN MUNICIPAL AUTHORITY GOALS
JANUARY REPORT

ON-GOING

1. Submit an article for each newsletter.
 - a. Need by 2/8/12 - Kevin
 - b. Need by 5/9/12
 - c. Need by 8/8/12
 - d. Need by 11/14/12
 - e. February 2013
2. Attend West Goshen Meetings quarterly – more often if needed.
 - a. 1st Quarter (March)
 - b. 2nd Quarter (June)
 - c. 3rd Quarter (September)
 - d. 4th Quarter (December)
3. Respond to capacity requests in 45 days or less.
4. Implement I & I Plan
5. Conduct a sewer facilities tour after RCSTP construction is complete

PROJECTS

1. Lockwood
 - a. Bid
 - b. Pipe Installation
 - c. Abandon Plant
2. Marydell Pump Station
 - a. Design/Permit
 - b. Bid
 - c. Pipe Installation
 - d. Abandon Pump Station
3. Hershey Mill Pump station
 - a. Design/Permit
 - b. Bid
 - c. Pipe Installation
4. Reserve Pump station
 - a. Design/Permit
 - b. Bid
 - c. Pipe Installation
 - d. Abandon Pump Station
5. Open House at the RCSTP 2012 after grass is fully established



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

February 15, 2012

Rick Smith, Township Manager
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Re: Proposal for Professional Services
Lockwood Chase Sewage Treatment Plant Elimination Construction Phase Services

Dear Mr. Smith:

Pennoni Associates Inc. is pleased to submit the following proposal for the construction phase services associated with the decommissioning of the Lockwood Chase Sewage Treatment Plant (LCSTP).

BACKGROUND

This project has been initiated as a result of the Draft Water Quality Management (WQM) Permit for the LCSTP issued by the Pennsylvania Department of Environmental Protection (PADEP) on February 23, 2007. The Draft Permit requires the Township to: (1) install an influent flow meter to the treatment plant; (2) drill monitoring wells MW-1 and MW-5 deeper; (3) increase the chemical and physical characteristics that the groundwater wells are monitored for; (4) provide a method of measuring the spray volume applied to each spray field/zone; (5) control spray application rates to the rates specified in the permit; (6) verify that the volume of storage in the polishing pond is at least 1.4 million gallons; and (7) improve treated effluent quality.

Pennoni and the Township met with the PADEP following issuance of the Draft Permit to discuss the approach to addressing the new permit requirements. Pennoni prepared the *Township Wastewater Needs Evaluation*, dated April 16, 2007, and the *Lockwood Chase Sewage Treatment Plant Study*, dated February 22, 2008. These studies ultimately recommended abandoning the LCSTP and diverting wastewater flows to the West Goshen Service Area via decommissioning of the LCSTP and a gravity sewer extension. Pennoni prepared the *Act 537 Plan Update Revision for the Lockwood Chase Sewage Treatment Plant Elimination*, last revised June 2010 with a partial supplemental submission to the PADEP on February 17, 2011, which was ultimately approved by the PADEP on March 29, 2011.

Contractor bidding for the project closed on February 15, 2012 at 10:00 am, and a recommendation for award is pending at the time of this proposal.

SCOPE OF WORK

The scope of work for this phase of the project includes construction inspection and office support with specific details as follows.

Construction Inspection: Part-time construction inspection for critical construction activities including:

- Preconstruction meeting
- Site clearing
- Stakeout
- E&S installation
- Flow diversions
- Sewer connections
- Plant demolition
- Bypass pumping
- Meeting with Chester County Conservation District
- Restoration
- Final inspection

We have included a total of 120 hours of inspection time over the four-month project duration.

Office Support: Pennoni's design engineer will provide support on the project with responses to contractor requests for information (RFIs), questions or requests for clarification from the Authority, support of the construction inspector, review of contractor requests for payment and change order requests, and project closeout documentation. We will also prepare survey control data, coordinates, and limited CAD files for contractor use in stakeout of key features.

FEE

Our estimated fee, to be billed on a time and material basis, is **Sixteen Thousand Dollars** (\$16,000).

Work will be done on an hourly basis, billed at the Authority's approved rates for Pennoni for 2012.

Extraordinary expenses, authorized in advance and identifiable to the specific project will be billed in addition to the above stated fees. These expenses include, but are not limited to: permit application fees, Federal Express and delivery charges, and the reproduction of plans and specifications by outside services. We do not bill for such items as relatively small amounts of in-house printing, mailing expenses, reasonable telephone calls, and travel expenses.

BILLING AND PAYMENT

Fees will be billed monthly based on actual services completed. Payment is due upon receipt of invoice. Billing and Payment shall be in accordance with Item three (3) of the attached General Terms and Conditions.

The client acknowledges that the method of Billing and Payment has been discussed in detail; that the terms agreed upon can only be changed by a written addendum agreed to by both parties; and work may be stopped until payment is made in accordance with the agreement.

TERMS AND CONDITIONSGeneral

Pennoni Associates Inc. General Terms and Conditions (Form No. LE01, Rev. 09/2002) as approved with our contract with the Authority are considered as part of this proposal.

Special

- a. Revisions to the plans or documents as a result of personal preferences of contractors; reviewing agencies, agency consultants, and the client will be performed as additional work on an hourly basis.
- b. We assume that a reasonable and customary number of contractor RFIs will be processed, and that submittals will be generally accurate and complete, with relatively minimal revisions required by the design engineer. Processing of excessive RFIs and repetitive markups of submittals will be billed on a time and materials basis as additional work.
- c. Inspection time is limited to 120 hours in aggregate between the field inspector and the design engineer. Additional time, if requested, will be billed on a time and materials basis.
- d. This proposal is limited strictly to those items quoted above.

We appreciate this opportunity to submit our proposal to the Authority. Should you have any questions or need additional information, please do not hesitate to call. Please sign and return one (1) copy of this proposal as our Notice to Proceed.

Sincerely,

PENNONI ASSOCIATES INC.



Daniel P. Barbato, P.E.
Authority Engineer

ACCEPTED BY: _____

(Print Name and Title)

DATE: _____

eBid eXchange Export

Solicitation Chester County LOCKWOOD CHASE SANITARY SEWER DIVERSION No. SS-2012-1

Generated 2/15/2012 10:02 AM Eastern

| Number | Type | Description | Unit Of Measure | Quantity | SJM | | B Excavating, Inc. |
|---------------------------------------|------|---|-----------------|----------|----------------------------|---------------------|---------------------|
| | | | | | Construction Company, Inc. | Anrich, Inc. | |
| 1 | BASE | Installation, Maintenance, and Removal o | LS | 1 | \$21,900.00 | \$10,000.00 | \$17,758.85 |
| 2 | BASE | 8 Sanitary Sewer Main in Paved Areas. Pri | LF | 484 | \$34,364.00 | \$48,400.00 | \$50,432.80 |
| 3 | BASE | 8 Sanitary Sewer Main in Non-Paved Area | LF | 814 | \$29,181.90 | \$61,050.00 | \$37,362.60 |
| 4 | BASE | Manholes. Price complete, in place | EA | 8 | \$20,728.00 | \$19,200.00 | \$21,560.00 |
| 5 | BASE | Drop Connection to Existing Manhole EXN | LS | 1 | \$5,448.00 | \$500.00 | \$2,445.00 |
| 6 | BASE | 4 Laterals. Price complete, in place | LF | 99 | \$4,286.70 | \$3,465.00 | \$13,634.28 |
| 7 | BASE | Cleanouts. Price complete, in place | EA | 6 | \$6,348.00 | \$1,500.00 | \$2,040.00 |
| 8 | BASE | 8 Superpave 25 mm Base Course Paving. | SY | 240 | \$15,120.00 | \$13,200.00 | \$12,972.00 |
| 9 | BASE | In-Kind Concrete Curb Replacement. Pric | LF | 140 | \$4,900.00 | \$4,900.00 | \$3,990.00 |
| 10 | BASE | Abandon Existing 8 Sewer Main. Price co | LF | 766 | \$3,140.60 | \$2,298.00 | \$6,825.06 |
| 11 | BASE | Abandon Existing Manholes. Price compl | EA | 2 | \$2,170.00 | \$600.00 | \$4,074.42 |
| 12 | BASE | Miscellaneous Excavation and Backfill witi | CY | 50 | \$4,050.00 | \$1,250.00 | \$1,750.00 |
| 13 | BASE | Miscellaneous Excavation and Backfill witi | CY | 50 | \$2,375.00 | \$1,250.00 | \$1,000.00 |
| 14 | BASE | Concrete Encasement. Price complete, in | LF | 100 | \$3,367.00 | \$4,000.00 | \$4,655.00 |
| 15 | BASE | Clearing. Price complete, in place | LS | 1 | \$8,000.00 | \$16,500.00 | \$4,000.00 |
| 16 | BASE | Rock Removal. Price complete, in place | CY | 75 | \$7,500.00 | \$75.00 | \$2,982.75 |
| TOTAL BASE BID | | | | | \$172,879.20 | \$188,188.00 | \$191,580.86 |
| 17 | ADD | Demolish and Re-build Existing Drop Conr LS | | 1 | \$5,300.00 | \$1,500.00 | \$4,672.95 |
| TOTAL AMOUNT BID WITH ADD ITEM | | | | | \$178,179.20 | \$189,688.00 | \$196,253.81 |

10% BID BOND SUBMITTED?

Yes

Yes

Yes

Yes

eBid eXchange Export

Solicitation Chester County LOCKWOOD CHASE SANITARY SEWER DIVERSION No. SS-201

Generated 2/15/2012 10:02 AM Eastern

| Number | Type | Description | Unit Of Measure | Quantity | Land Tech Enterprises | Joao Bradley Construction Co., Inc. | Trinity Excavating, Inc. solutions | Dirt work |
|--------|------|--|-----------------|----------|-----------------------|-------------------------------------|------------------------------------|---------------------|
| 1 | BASE | Installation, Maintenance, and Removal o | LS | 1 | \$23,000.00 | \$16,000.00 | \$32,446.00 | \$18,520.00 |
| 2 | BASE | 8 Sanitary Sewer Main in Paved Areas. Pri | LF | 484 | \$43,560.00 | \$41,624.00 | \$40,472.08 | \$61,226.00 |
| 3 | BASE | 8 Sanitary Sewer Main in Non-Paved Area | LF | 814 | \$40,700.00 | \$45,584.00 | \$50,598.24 | \$50,671.50 |
| 4 | BASE | Manholes. Price complete, in place | EA | 8 | \$26,800.00 | \$30,400.00 | \$30,000.00 | \$13,200.00 |
| 5 | BASE | Drop Connection to Existing Manhole EXN | LS | 1 | \$2,900.00 | \$3,900.00 | \$2,800.00 | \$5,080.00 |
| 6 | BASE | 4 Laterals. Price complete, in place | LF | 99 | \$4,455.00 | \$6,336.00 | \$5,416.29 | \$15,048.00 |
| 7 | BASE | Cleanouts. Price complete, in place | EA | 6 | \$2,400.00 | \$3,000.00 | \$3,900.00 | \$1,200.00 |
| 8 | BASE | 8 Superpave 25 mm Base Course Paving. | SY | 240 | \$17,520.00 | \$12,000.00 | \$18,453.60 | \$18,513.60 |
| 9 | BASE | In-Kind Concrete Curb Replacement. Pric | LF | 140 | \$5,600.00 | \$9,800.00 | \$6,720.00 | \$4,536.00 |
| 10 | BASE | Abandon Existing 8 Sewer Main. Price co | LF | 766 | \$3,830.00 | \$3,064.00 | \$6,748.46 | \$3,140.60 |
| 11 | BASE | Abandon Existing Manholes. Price compl | EA | 2 | \$1,940.00 | \$1,440.00 | \$1,250.00 | \$1,100.00 |
| 12 | BASE | Miscellaneous Excavation and Backfill witi | CY | 50 | \$2,500.00 | \$2,600.00 | \$1,500.00 | \$1,324.00 |
| 13 | BASE | Miscellaneous Excavation and Backfill witi | CY | 50 | \$1,250.00 | \$1,300.00 | \$1,100.00 | \$360.00 |
| 14 | BASE | Concrete Encasement. Price complete, in | LF | 100 | \$7,000.00 | \$6,200.00 | \$5,250.00 | \$1,540.00 |
| 15 | BASE | Clearing. Price complete, in place | LS | 1 | \$5,400.00 | \$5,000.00 | \$3,000.00 | \$5,750.00 |
| 16 | BASE | Rock Removal. Price complete, in place | CY | 75 | \$7,500.00 | \$16,125.00 | \$5,625.00 | \$13,275.00 |
| | | TOTAL BASE BID | | | \$196,355.00 | \$204,373.00 | \$215,279.67 | \$214,484.70 |
| 17 | ADD | Demolish and Re-build Existing Drop Conr | LS | 1 | \$1,150.00 | \$4,600.00 | \$1,700.00 | \$5,080.00 |
| | | TOTAL AMOUNT BID WITH ADD ITEM | | | \$197,505.00 | \$208,973.00 | \$216,979.67 | \$219,564.70 |

10% BID BOND SUBMITTED?

Yes

Yes

Yes

NO

eBid eXchange Export

Solicitation Chester County LOCKWOOD CHASE SANITARY SEWER DIVERSION No. SS-201

Generated 2/15/2012 10:02 AM Eastern

| Number | Type | Description | Unit Of Measure | Quantity | Beta | | JFC | | Barwis | |
|--------|------|---|-----------------|----------|-----------------------|---------------------|---------------------|---------------------|--------------|------------------|
| | | | | | Construction Co., LLC | Construction | Construction | Inc. | Construction | Construction LLC |
| 1 | BASE | Installation, Maintenance, and Removal o | LS | 1 | \$5,000.00 | \$17,699.00 | \$4,000.00 | \$19,970.03 | | |
| 2 | BASE | 8 Sanitary Sewer Main in Paved Areas. Pri | LF | 484 | \$62,678.00 | \$79,192.08 | \$67,760.00 | \$60,500.00 | | |
| 3 | BASE | 8 Sanitary Sewer Main in Non-Paved Area | LF | 814 | \$60,643.00 | \$34,595.00 | \$81,400.00 | \$50,500.56 | | |
| 4 | BASE | Manholes. Price complete, in place | EA | 8 | \$21,600.00 | \$31,200.00 | \$32,000.00 | \$25,046.48 | | |
| 5 | BASE | Drop Connection to Existing Manhole EXN | LS | 1 | \$6,750.00 | \$4,000.00 | \$11,000.00 | \$11,589.35 | | |
| 6 | BASE | 4 Laterals. Price complete, in place | LF | 99 | \$5,544.00 | \$2,400.75 | \$9,900.00 | \$9,766.35 | | |
| 7 | BASE | Cleanouts. Price complete, in place | EA | 6 | \$1,200.00 | \$1,350.00 | \$1,800.00 | \$1,162.44 | | |
| 8 | BASE | 8 Superpave 25 mm Base Course Paving. | SY | 240 | \$15,720.00 | \$25,200.00 | \$12,000.00 | \$19,348.80 | | |
| 9 | BASE | In-Kind Concrete Curb Replacement. Prici | LF | 140 | \$5,600.00 | \$5,460.00 | \$7,000.00 | \$7,813.40 | | |
| 10 | BASE | Abandon Existing 8 Sewer Main. Price co | LF | 766 | \$5,362.00 | \$4,021.50 | \$3,830.00 | \$16,269.84 | | |
| 11 | BASE | Abandon Existing Manholes. Price compl | EA | 2 | \$2,000.00 | \$2,800.00 | \$3,000.00 | \$1,613.52 | | |
| 12 | BASE | Miscellaneous Excavation and Backfill witl | CY | 50 | \$2,500.00 | \$2,900.00 | \$1,750.00 | \$2,222.00 | | |
| 13 | BASE | Miscellaneous Excavation and Backfill witl | CY | 50 | \$2,500.00 | \$1,850.00 | \$1,250.00 | \$847.00 | | |
| 14 | BASE | Concrete Encasement. Price complete, in | LF | 100 | \$1,000.00 | \$3,600.00 | \$4,500.00 | \$5,200.00 | | |
| 15 | BASE | Clearing. Price complete, in place | LS | 1 | \$5,000.00 | \$8,800.00 | \$7,000.00 | \$17,952.21 | | |
| 16 | BASE | Rock Removal. Price complete, in place | CY | 75 | \$11,250.00 | \$8,625.00 | \$13,125.00 | \$8,250.00 | | |
| | | TOTAL BASE BID | | | \$214,347.00 | \$233,693.33 | \$261,315.00 | \$258,051.98 | | |
| 17 | ADD | Demolish and Re-build Existing Drop Conr LS | | 1 | \$10,000.00 | \$5,800.00 | \$3,000.00 | \$11,553.15 | | |
| | | TOTAL AMOUNT BID WITH ADD ITEM | | | \$224,347.00 | \$239,493.33 | \$264,315.00 | \$269,605.13 | | |

10% BID BOND SUBMITTED?

Yes

Yes

Yes

Yes

eBid eXchange Export

Solicitation Chester County LOCKWOOD CHASE SANITARY SEWER DIVERSIOI No. SS-201

Generated 2/15/2012 10:02 AM Eastern

| Number | Type | Description | Unit Of Measure | Quantity | Delaware | | Bulldog | | Chester County | |
|--------|------|---|-----------------|----------|---------------------------------|---------------------|---------------------|---------------------|---------------------------------|-----------------|
| | | | | | Valley Utility Contractors, Inc | Technivate Inc. | Construction | Site Contractors | Valley Utility Contractors, Inc | Technivate Inc. |
| 1 | BASE | Installation, Maintenance, and Removal o | LS | 1 | \$45,200.00 | \$35,362.00 | \$18,500.00 | \$29,704.38 | | |
| 2 | BASE | 8 Sanitary Sewer Main in Paved Areas. Pri | LF | 484 | \$44,528.00 | \$64,372.00 | \$65,340.00 | \$92,182.64 | | |
| 3 | BASE | 8 Sanitary Sewer Main in Non-Paved Area | LF | 814 | \$39,886.00 | \$40,700.00 | \$73,260.00 | \$34,407.78 | | |
| 4 | BASE | Manholes. Price complete, in place | EA | 8 | \$54,240.00 | \$27,392.00 | \$28,000.00 | \$19,945.84 | | |
| 5 | BASE | Drop Connection to Existing Manhole EXN | LS | 1 | \$7,960.00 | \$7,439.00 | \$8,500.00 | \$27,283.46 | | |
| 6 | BASE | 4 Laterals. Price complete, in place | LF | 99 | \$9,504.00 | \$5,247.00 | \$16,335.00 | \$16,272.63 | | |
| 7 | BASE | Cleanouts. Price complete, in place | EA | 6 | \$3,360.00 | \$3,174.00 | \$3,600.00 | \$1,227.30 | | |
| 8 | BASE | 8 Superpave 25 mm Base Course Paving. | SY | 240 | \$15,840.00 | \$25,440.00 | \$18,000.00 | \$9,511.20 | | |
| 9 | BASE | In-Kind Concrete Curb Replacement. Prici | LF | 140 | \$8,120.00 | \$5,040.00 | \$5,880.00 | \$4,543.00 | | |
| 10 | BASE | Abandon Existing 8 Sewer Main. Price co | LF | 766 | \$11,490.00 | \$5,515.20 | \$4,596.00 | \$3,109.96 | | |
| 11 | BASE | Abandon Existing Manholes. Price compl | EA | 2 | \$3,400.00 | \$3,988.00 | \$2,800.00 | \$2,054.78 | | |
| 12 | BASE | Miscellaneous Excavation and Backfill witi | CY | 50 | \$3,125.00 | \$3,900.00 | \$2,500.00 | \$3,982.00 | | |
| 13 | BASE | Miscellaneous Excavation and Backfill witi | CY | 50 | \$2,050.00 | \$2,250.00 | \$1,500.00 | \$2,999.00 | | |
| 14 | BASE | Concrete Encasement. Price complete, in | LF | 100 | \$5,700.00 | \$5,350.00 | \$4,000.00 | \$3,450.00 | | |
| 15 | BASE | Clearing. Price complete, in place | LS | 1 | \$7,200.00 | \$6,663.00 | \$7,500.00 | \$8,873.88 | | |
| 16 | BASE | Rock Removal. Price complete, in place | CY | 75 | \$9,375.00 | \$27,525.00 | \$15,000.00 | \$32,892.00 | | |
| | | TOTAL BASE BID | | | \$270,978.00 | \$269,357.20 | \$275,311.00 | \$292,439.85 | | |
| 17 | ADD | Demolish and Re-build Existing Drop Conr LS | | 1 | \$8,000.00 | \$11,639.00 | \$7,500.00 | \$7,613.00 | | |
| | | TOTAL AMOUNT BID WITH ADD ITEM | | | \$278,978.00 | \$280,996.20 | \$282,811.00 | \$300,052.85 | | |

10% BID BOND SUBMITTED?

Yes

NO

Yes

Yes

eBid eXchange Export

Solicitation Chester County LOCKWOOD CHASE SANITARY SEWER DIVERSIOI No. SS-201
Generated 2/15/2012 10:02 AM Eastern

| Number | Type | Description | Unit Of Measure | Quantity | Joseph Hardy and Son Inc |
|--------|------|--|-----------------|----------|--------------------------|
| 1 | BASE | Installation, Maintenance, and Removal o | LS | 1 | \$21,810.00 |
| 2 | BASE | 8 Sanitary Sewer Main in Paved Areas. Pri | LF | 484 | \$96,800.00 |
| 3 | BASE | 8 Sanitary Sewer Main in Non-Paved Area | LF | 814 | \$65,120.00 |
| 4 | BASE | Manholes. Price complete, in place | EA | 8 | \$56,000.00 |
| 5 | BASE | Drop Connection to Existing Manhole EXH | LS | 1 | \$24,390.00 |
| 6 | BASE | 4 Laterals. Price complete, in place | LF | 99 | \$11,880.00 |
| 7 | BASE | Cleanouts. Price complete, in place | EA | 6 | \$600.00 |
| 8 | BASE | 8 Superpave 25 mm Base Course Paving. | SY | 240 | \$15,000.00 |
| 9 | BASE | In-Kind Concrete Curb Replacement. Pric | LF | 140 | \$4,200.00 |
| 10 | BASE | Abandon Existing 8 Sewer Main. Price co | LF | 766 | \$2,298.00 |
| 11 | BASE | Abandon Existing Manholes. Price compl | EA | 2 | \$600.00 |
| 12 | BASE | Miscellaneous Excavation and Backfill witi | CY | 50 | \$50.00 |
| 13 | BASE | Miscellaneous Excavation and Backfill witi | CY | 50 | \$50.00 |
| 14 | BASE | Concrete Encasement. Price complete, in | LF | 100 | \$100.00 |
| 15 | BASE | Clearing. Price complete, in place | LS | 1 | \$5,000.00 |
| 16 | BASE | Rock Removal. Price complete, in place | CY | 75 | \$7,500.00 |
| | | TOTAL BASE BID | | | \$311,398.00 |
| 17 | ADD | Demolish and Re-build Existing Drop Conr | LS | 1 | \$3,500.00 |
| | | TOTAL AMOUNT BID WITH ADD ITEM | | | \$314,898.00 |

10% BID BOND SUBMITTED?

Yes

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

February 15, 2012

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

Meters: Meters have been re-calibrated due to some problems we had with the transducer brackets. The meter at Reservoir Road was reading high, upon further investigation we found that the bracket bolts had broken. Repairs were made and the meter was put back into operation.

C.C. Collection: The pumping stations were visited on a daily basis, baskets were cleaned, and pumps were checked. Aqua was utilized to clean the wet wells at the beginning of the month. The dialers at Ashbridge and Barkway Stations were replaced. We were notified of four sewer lateral blockages during the month; two required us to dig. We found that both were full of tree roots. The trees were also removed due to the over excavation making the trees unsafe. Pictures attached.

R.C. Collection: The pumping station was visited on a daily basis. We are currently doing a demonstration on grease removal at the Hunt Country pumping station. The Prodex Company offered a 30 day demonstration, I asked for a 60 day demonstration. Attached to your packet is an information sheet on the product.

Plants: Ridley Creek is still struggling with the effluent quality. Attached is a violation notice from the DEP. The grinder at the Lochwood Plant dropped a bearing on the shaft unit; the unit was pulled and taken to Deckmens Electric.

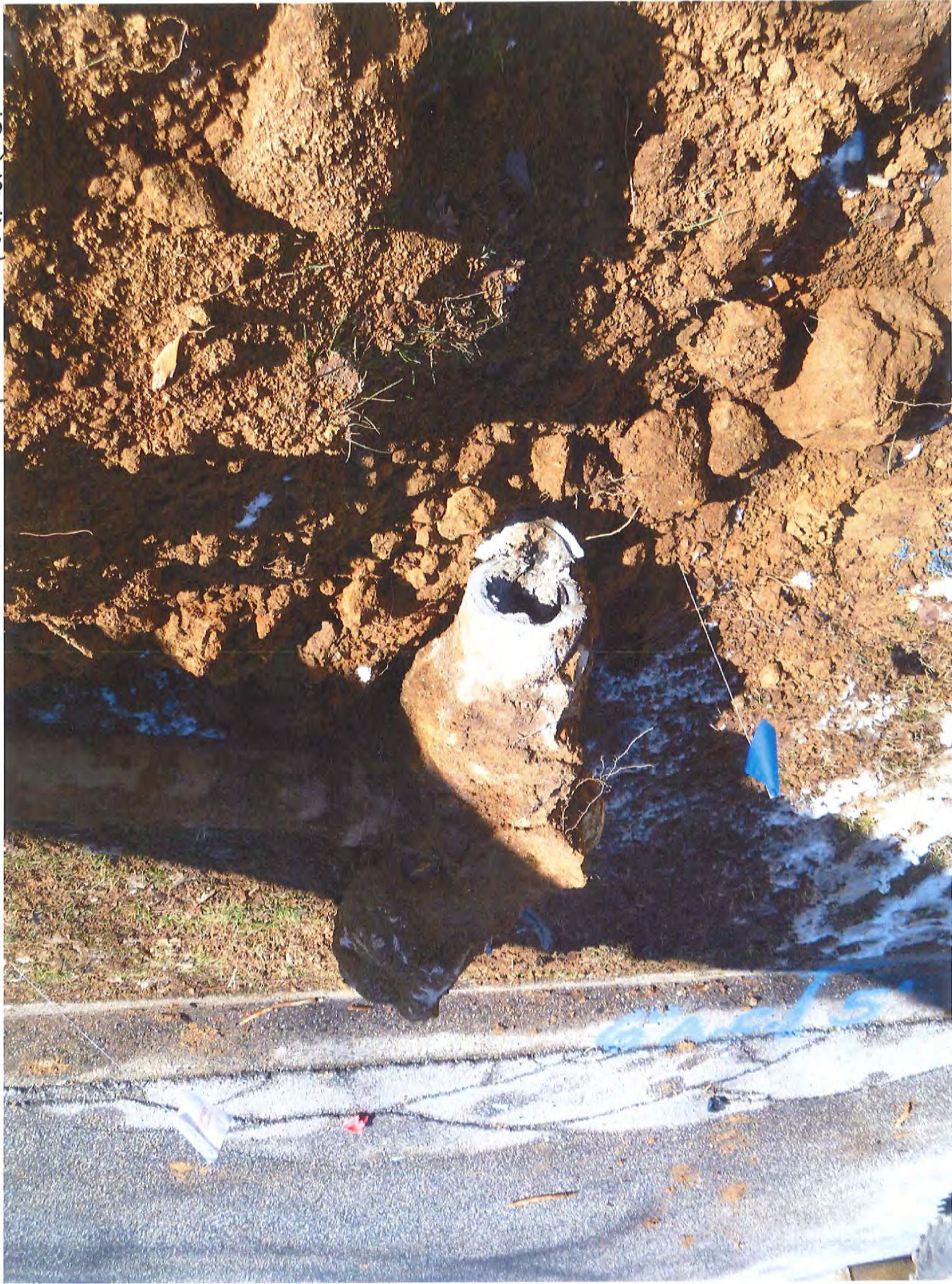
Alarms: We received 20 alarms for the month of January.

PA One Calls: The Public Works Dept. responded to 75 PA One Calls.

709 Sycamore Dr



old Trap 709 Sycamore Dr



709 Sycamore



706 Red Maple Dr



706 Red Wasp Nest



706 Red Maple



706 Red Maple



706 Red Wiper





MEMORANDUM

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

FROM: Daniel Barbato, P.E.
Authority Engineer

DATE: February 16, 2012

SUBJECT: Engineer's Report

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- Dan Barbato met with Mark Miller, Rick Smith, and Scott Towler to examine solids deposits at the plant outfall and to discuss the current operation of the plant by Miller Environmental. We reviewed the brief report by Miller dated February 3 and provided comments to Rick Smith. We also reviewed the NOV regarding the solids deposition and provided our opinion.

I/I Metering Project

- No change in status since the last report. The Township continues to meter flows at selected locations. Temporary meters are in operation at locations as recommended. Upon receipt of tributary connection data from the Township, Pennoni will review permanent meter data (particularly in the Chester Creek Service Area), make recommendations for 2012 temporary metering, and identify potential I&I problem areas.

Ridley Creek Consent Order

- The final report is due in March of 2012. Reports after this date will continue but will be for internal Authority use only. Work on the report will proceed in late February with receipt of meter and rainfall data from the Authority.

LCSTP Elimination

- We have provided bid assistance throughout the solicitation period including conducting a pre-bid meeting with prospective bidders, responding to bidders' questions, analysis of rock drilling data and estimation of rock quantity, preparation of three addenda, assistance with bid opening on the PennBID website, preparation of a bid tabulation and award recommendation, and review of low bidder qualifications/references.

- Bids were received on February 15, 2012. The apparent low bidder is SJM Construction Company, Inc. of Spring House, PA with a total bid (including the Add Item) of \$178,179.20.
- Based upon an award by the Authority on February 20, 2012, we estimate the construction schedule as follows:

Award = 2/20/12

Receipt of Contractor Bonding and Insurance (10 days) = 3/1/12

Notice to Proceed = approx 3/5/12

Construction (120 days) = approx 3/5/12 – 7/2/12

Hershey Mill PS Diversion, Reserve PS Elimination Planning

- In early November, survey stakeout was performed for preliminary sewer alignments, followed by a field recon to evaluate the alignments. We forwarded recommended adjustments to the Township. We have received comments and responses from the Township, and we have begun to finalize plans and assemble permitting applications.

Marydell PS Elimination Planning

- In early November, preliminary field stakeout of the sewer was completed, and we forwarded recommendations for adjustments to the Township for consideration. We have received comments and responses from the Township, and we have begun to finalize plans and assemble permitting applications.

Applebrook Spray Irrigation NPDES Permit Renewal

- The NPDES discharge permit was submitted to DEP on June 15. DEP sent a letter confirming that the application is administratively complete and is undergoing technical review. We have called DEP several times over the past several months for a status update but have not received a return call.

Annual Chapter 94 Reports

- The annual updates to the Chapter 94 report are in progress. Reports are due by the end of March. Similar to last year, we will schedule a meeting with the Township to review developments and changes over the past year.



320 S. 17th Street
Reading, PA 19602-2209
Telephone: (610) 376-9162
Facsimilie: (610) 376-9164
Email: info@miller-env.com
www.miller-env.com

02/09/2012
Mr. Rick Smith
Township Manager
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380-6199

02/09/2012

Re: East Goshen Wastewater Treatment Plants- Lochwood & Ridley Creek
December, 2012 - Monthly Operation and Maintenance Report

Dear Mr. Smith:

Operations and Maintenance activities for the month of December, 2012

Routine Operation and Maintenance Activities

- Daily sampling, testing, and inspections for permit compliance.
- Routine daily testing for process optimization.
- Microscopic exams indicate filaments are reappearing.
- The Biomass is being watched closely due to excessive grease being introduced to the treatment process
- Cleaned grease from influent wet well daily
- Inspection of equipment in all phases of the treatment process
- Daily cleaning of muffin monster
- Clean out disc filters weekly
- Clean off DO probes and verify readings with hand held DO probe
- Wells at Lochwood were sampled for December
- Condensation blown out of air compressor
- Fire extinguishers were serviced/recharged

Non-Routine Operations and Maintenance Activities

- UV Banks being modified.
- Alum addition was ceased
- MLSS was transferred to equalize reactors
- DO probe #1 was taken off line and stored
- Auto dialer was changed for faster response time
- Influent sampler had heat blanket placed around tubing
- Centrifuge parts were installed
- Re-torqued auger bolts as per preventive maint. Schedule
- Worth repaired SBR blower #3

Items of concern

- UV parts have not been installed to date

- On December 28th a storm surge had the process up to 226% of design with an average of 189%
- SBR blowers are not hitting the peak of 3ppm in SBR 4 and sometimes SBR 2
- Dialer is not calling out when the generator exercises or is called to run
- Polymer mixing chamber leaking unable to press
- There were 5 Ridley Creek violations on the DMR for December : TSS weekly avg. loading and concentration, Ammonia-Nitrogen monthly avg. loading and concentration and one instantaneous maximum fecal overage
- There was 1 Lochwood/Chase violation on the DMR for December : fecal coliform geometric mean

Items on schedule for January

- Sludge dewatering
- Continued monitoring of filaments in reactors due to grease and possible solutions
- Extensive attention to bringing ammonia, suspended solids and fecal back into compliance
- Meeting with township and its consultants to improve effluent quality
- Influent flow meter installation

Summary of November Influent Flow- Ridley

- Average flow .453 MGD
- Maximum daily flow 0.694 MGD

Summary of November Discharge- LOCHWOOD

- AVERAGE: .000151

Thank you,
MILLER ENVIRONMENTAL INC.
[SENT VIA EMAIL]

Richard S. Harp Sr.
Operations Manager

CC: Mark Miller, Director of Public Works
Dean Miller, MEI
File

Pennsylvania Department of Environment Protection Discharge Monitoring Report (DMR)

FACILITY: LOCHWOOD CHASE STP & SPRAY SYS **PERMIT NUMBER:** 1580430 **REGION:** EP SE Rgnl Off
PERMITTEE: EAST GOSHEN TWP MUNI AUTH CHESTER CNTY **OUTFALL:** 001 **COUNTY:** Chester
 1580 PAOLI PIKE **CITY:** WEST CHESTER
ADDRESS: WEST CHESTER, PA **NO DISCHARGE FROM SITE:** ()
 19380-6107 **MONITORING PERIOD:** From: 2011-12-01 To: 2011-12-31

| Parameter | | Quantity or Loading | | Units | Quality or Concentration | | | Units | No. Ex. | Frequency of Analysis | Sample Type |
|--|---|------------------------|-------|-------|--------------------------|------------------------|---|---------------------|-------------|-----------------------|-------------|
| | | Value | Value | | Value | Value | Value | | | | |
| pH Parameter Code: 00400 Stage Code: 1 | Sample Measurement | **** | **** | | 7.48 | **** | 7.48 | S.U. | 0 | 1/month | Grab |
| | Permit Requirement | **** | **** | | 6.0 Minimum | **** | 9.0 Maximum | | | | 1/month |
| Total Suspended Solids Parameter Code: 00530 Stage Code: 1 | Sample Measurement | **** | **** | | **** | 12 | 12 | mg/L | 0 | 1/month | Grab |
| | Permit Requirement | **** | **** | | **** | 30 Average Monthly | 45 Weekly Average | | | | 1/month |
| Total Nitrogen Parameter Code: 00600 Stage Code: 1 | Sample Measurement | **** | **** | | **** | 16.4 | 16.4 | mg/L | 0 | 1/month | Grab |
| | Permit Requirement | **** | **** | | **** | Report Average Monthly | Report Instantaneous Maximum | | | | 1/month |
| Flow (mgd) Parameter Code: 50050 Stage Code: G | Sample Measurement | 0.000151 | **** | MGD | **** | **** | **** | | 0 | Continuous | Recorded |
| | Permit Requirement | 0.0252 Average Monthly | **** | | **** | **** | **** | | | | Continuous |
| Fecal Coliform Parameter Code: 74055 Stage Code: 1 | Sample Measurement | **** | **** | | **** | 400 | **** | CFU/100 mL | 1 | 1/month | Grab |
| | Permit Requirement | **** | **** | | **** | 200 Geometric Mean | **** | | | | 1/month |
| CBOD5 Parameter Code: 80082 Stage Code: 1 | Sample Measurement | **** | **** | | **** | 24 | 24 | mg/L | 0 | 1/month | Grab |
| | Permit Requirement | **** | **** | | **** | 25 Average Monthly | 40 Weekly Average | | | | 1/month |
| Name/Title of Principal Executive Officer Or Authorized Agent | I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | | | | | | Signature of Principal Executive Officer Or Authorized Agent | Telephone No | Date | | |
| | | | | | | | | | | | |

Report all violations during the reporting period on a Non-Compliance Reporting Form, as an attachment to your eDMR submission.

Pennsylvania Department of Environment Protection Discharge Monitoring Report (DMR)

FACILITY: RIDLEY CREEK STP **PERMIT NUMBER:** PA0050504 **REGION:** EP SE Rgnl Off
 EAST GOSHEN TWP
PERMITTEE: MUNIAUTH CHESTER **OUTFALL:** 001 **COUNTY:** Chester
 CNTY **CITY:** WEST CHESTER
 1751 TOWNE DR **NO DISCHARGE FROM**
 WEST CHESTER, PA **From: 2011-12-01** **SITE:** (
ADDRESS: 19380 **MONITORING PERIOD:** To: 2011-12-31

| Parameter | | Quantity or Loading | | Units | Quality or Concentration | | | Units | No. Ex. | Frequency of Analysis | Sample Type |
|--|---|------------------------|----------------------|---------|--------------------------|---|----------------------------|---------------------|-------------|-----------------------|-----------------|
| | | Value | Value | | Value | Value | Value | | | | |
| Dissolved Oxygen Parameter Code: 00300 Stage Code: 1 | Sample Measurement | **** | **** | | 6.8 | 8.7 | **** | mg/L | 0 | 1/day | Grab |
| | Permit Requirement | **** | **** | | Instantaneous Minimum | Report Average Monthly | **** | | | 1/day | Grab |
| pH Parameter Code: 00400 Stage Code: 1 | Sample Measurement | **** | **** | | 6.6 | **** | 8.3 | S.U. | 0 | 1/day | Grab |
| | Permit Requirement | **** | **** | | Instantaneous Minimum | **** | Instantaneous Maximum | | | 1/day | Grab |
| Total Suspended Solids Parameter Code: 00530 Stage Code: 1 | Sample Measurement | 67 | 211 | lbs/day | **** | 16 | 53 | mg/L | 2 | 1/week | 24-Hr Composite |
| | Permit Requirement | 100 Average Monthly | 150 Weekly Average | | **** | 30 Average Monthly | 45 Weekly Average | | | 1/week | 24-Hr Composite |
| Ammonia-Nitrogen Parameter Code: 00610 Stage Code: 1 | Sample Measurement | 61 | **** | lbs/day | **** | 15 | **** | mg/L | 2 | 1/week | 24-Hr Composite |
| | Permit Requirement | 40 Average Monthly | **** | | **** | 12 Average Monthly | **** | | | 1/week | 24-Hr Composite |
| Flow (mgd) Parameter Code: 50050 Stage Code: 1 | Sample Measurement | 0.453 | 0.694 | MGD | **** | **** | **** | | 0 | Continuous | Metered |
| | Permit Requirement | Report Average Monthly | Report Daily Maximum | | **** | **** | **** | | | Continuous | Metered |
| Fecal Coliform Parameter Code: 74055 Stage Code: 1 | Sample Measurement | **** | **** | | **** | <37 | 1900 | CFU/100 mL | 1 | 1/week | Grab |
| | Permit Requirement | **** | **** | | **** | 200 Geometric Mean | 1000 Instantaneous Maximum | | | 1/week | Grab |
| CBOD5 Parameter Code: 80082 Stage Code: 1 | Sample Measurement | 23 | 48 | lbs/day | **** | 6 | 12 | mg/L | 0 | 1/week | 24-Hr Composite |
| | Permit Requirement | 67 Average Monthly | 100 Weekly Average | | **** | 20 Average Monthly | 30 Weekly Average | | | 1/week | 24-Hr Composite |
| Name/Title of Principal Executive Officer Or Authorized Agent | I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | | | | | Signature of Principal Executive Officer Or Authorized Agent | | Telephone No | Date | | |
| | | | | | | | | | | | |

Report all violations during the reporting period on a Non-Compliance Reporting Form, as an attachment to your eDMR submission.

Pennsylvania Department of Environment Protection Discharge Monitoring Report (DMR)

FACILITY: RIDLEY CREEK STP **PERMIT NUMBER:** PA0050504 **REGION:** EP SE Rgnl Off
 EAST GOSHEN TWP
PERMITTEE: MUNI AUTH CHESTER **OUTFALL:** 002 **COUNTY:** Chester
 CNTY
 1751 TOWNE DR **CITY:** WEST CHESTER
 WEST CHESTER, PA **NO DISCHARGE FROM**
ADDRESS: 19380 **MONITORING PERIOD:** From: 2011-12-01 To: 2011-12-31 **SITE:** (X)

| Parameter | | Quantity or Loading | | Units | Quality or Concentration | | | Units | No. Ex. | Frequency of Analysis | Sample Type |
|--|---|------------------------|----------------------|-------|---------------------------|------------------------|---|---------------------|-------------|-----------------------|-----------------|
| | | Value | Value | | Value | Value | Value | | | | |
| Dissolved Oxygen | Sample Measurement | ***** | ***** | | ***** | ***** | ***** | mg/L | | | |
| Parameter Code: 00300 | Permit Requirement | ***** | ***** | | 5.0 Instantaneous Minimum | Report Average Monthly | ***** | | | 1/day | Grab |
| pH | Sample Measurement | ***** | ***** | | ***** | ***** | ***** | S.U. | | | |
| Parameter Code: 00400 | Permit Requirement | ***** | ***** | | 6.0 Instantaneous Minimum | ***** | 9.0 Instantaneous Maximum | | | 1/day | Grab |
| Total Suspended Solids | Sample Measurement | ***** | ***** | | ***** | ***** | ***** | mg/L | | | |
| Parameter Code: 00530 | Permit Requirement | ***** | ***** | | ***** | 30 Average Monthly | 45 Weekly Average | | | 1/week | Composite |
| Ammonia-Nitrogen | Sample Measurement | ***** | ***** | | ***** | ***** | ***** | mg/L | | | |
| Parameter Code: 00610 | Permit Requirement | ***** | ***** | | ***** | 12.0 Average Monthly | ***** | | | 1/week | 24-Hr Composite |
| Flow (mgd) | Sample Measurement | ***** | ***** | | ***** | ***** | ***** | | | | |
| Parameter Code: 50050 | Permit Requirement | Report Average Monthly | Report Daily Maximum | MGD | ***** | ***** | ***** | | | Continuous | Metered |
| Fecal Coliform | Sample Measurement | ***** | ***** | | ***** | ***** | ***** | CFU/100 mL | | | |
| Parameter Code: 74055 | Permit Requirement | ***** | ***** | | ***** | 200 Geometric Mean | ***** | | | 1/week | Grab |
| CBOD5 | Sample Measurement | ***** | ***** | | ***** | ***** | ***** | mg/L | | | |
| Parameter Code: 80082 | Permit Requirement | ***** | ***** | | ***** | 20 Average Monthly | 30 Weekly Average | | | 1/week | 24-Hr Composite |
| Name/Title of Principal Executive Officer Or Authorized Agent | I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | | | | | | Signature of Principal Executive Officer Or Authorized Agent | Telephone No | Date | | |

Report all violations during the reporting period on a Non-Compliance Reporting Form, as an attachment to your eDMR submission.

Page 2

**SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING**

3110-014MERSBRES 7/20/09

Facility Name: Redley Creek STP Month: 12 Year: 2011
 Municipality: East Goshen Township Permit No.: PA 0009604 Cutoff: 021
 Watershed: 36 County: Chester Renewal application due 180 DAYS prior to expiration.
 Laboratories: Atlantic Coast Labor, Inc. (88-335) This permit will expire on: _____

| Week | Day | Date | Fecal Coliform | | pH | TSS | MHI-N | CBOD5 | Total Phosphorus | Total Nitrogen |
|------|-----|----------|----------------|------------|------|-----|-------|-------|------------------|----------------|
| | | | g | CFU/100 ml | | | | | | |
| 1 | Thu | 12/1/11 | 100 | 7.76 | 7.51 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Fri | 12/2/11 | 0.38 | 6.23 | 7.4 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Sat | 12/3/11 | 0.405 | 6.08 | 7.3 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Sun | 12/4/11 | 0.501 | 6.6 | 7.31 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Mon | 12/5/11 | 0.54 | 7.28 | 7.28 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Tue | 12/6/11 | 0.624 | 6.88 | 7.28 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Wed | 12/7/11 | 0.684 | 7.07 | 7.28 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| 2 | Thu | 12/8/11 | 0.591 | 6.89 | 7.43 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Fri | 12/9/11 | 0.469 | 6.58 | 7.38 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Sat | 12/10/11 | 0.46 | 6.89 | 7.43 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Sun | 12/11/11 | 0.492 | 6.13 | 7.51 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Mon | 12/12/11 | 0.385 | 6.89 | 7.53 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Tue | 12/13/11 | 0.428 | 6.14 | 7.57 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Wed | 12/14/11 | 0.41 | 6.50 | 7.56 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| 3 | Thu | 12/15/11 | 0.308 | 6.33 | 7.63 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Fri | 12/16/11 | 0.428 | 6.6 | 7.62 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Sat | 12/17/11 | 0.447 | 6.91 | 7.77 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Sun | 12/18/11 | 0.48 | 7.25 | 7.75 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Mon | 12/19/11 | 0.424 | 6.6 | 7.52 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Tue | 12/20/11 | 0.814 | 6.6 | 7.52 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Wed | 12/21/11 | 0.451 | 6.42 | 8.25 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| 4 | Thu | 12/22/11 | 0.413 | 6.31 | 7.65 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Fri | 12/23/11 | 0.5 | 6.41 | 7.72 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Sat | 12/24/11 | 0.545 | 6.3 | 7.63 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Sun | 12/25/11 | 0.654 | 6.4 | 7.38 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Mon | 12/26/11 | 0.457 | 6.16 | 7.67 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Tue | 12/27/11 | 0.579 | 7.47 | 7.63 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Wed | 12/28/11 | 0.478 | 6.38 | 7.35 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| 5 | Thu | 12/29/11 | 0.448 | 6.67 | 7.54 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Fri | 12/30/11 | 0.468 | 6.92 | 7.63 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Sat | 12/31/11 | 0.463 | 6.77 | 7.55 | 4 | 16.1 | 3.0 | 0.15 | 0 |
| | Sun | 12/31/11 | 0.463 | 6.77 | 7.55 | 4 | 16.1 | 3.0 | 0.15 | 0 |

Daily Minimum (Cont.): 10
 Daily Maximum (Cont.): 1000
 1st Avg Monthly (Cont.): 0.507
 2nd Avg Monthly (Cont.): 0.463
 3rd Avg Monthly (Cont.): 0.463
 Max Avg Monthly (Cont.): 0.814
 Total Monthly (Cont.): 14.028
 Daily Minimum Load: 0.29
 Daily Maximum Load: 0.394

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my knowledge and belief, the information submitted is true and accurate and I am aware that there are significant penalties for submitting false information, including the possibility of imprisonment for intentional falsification.

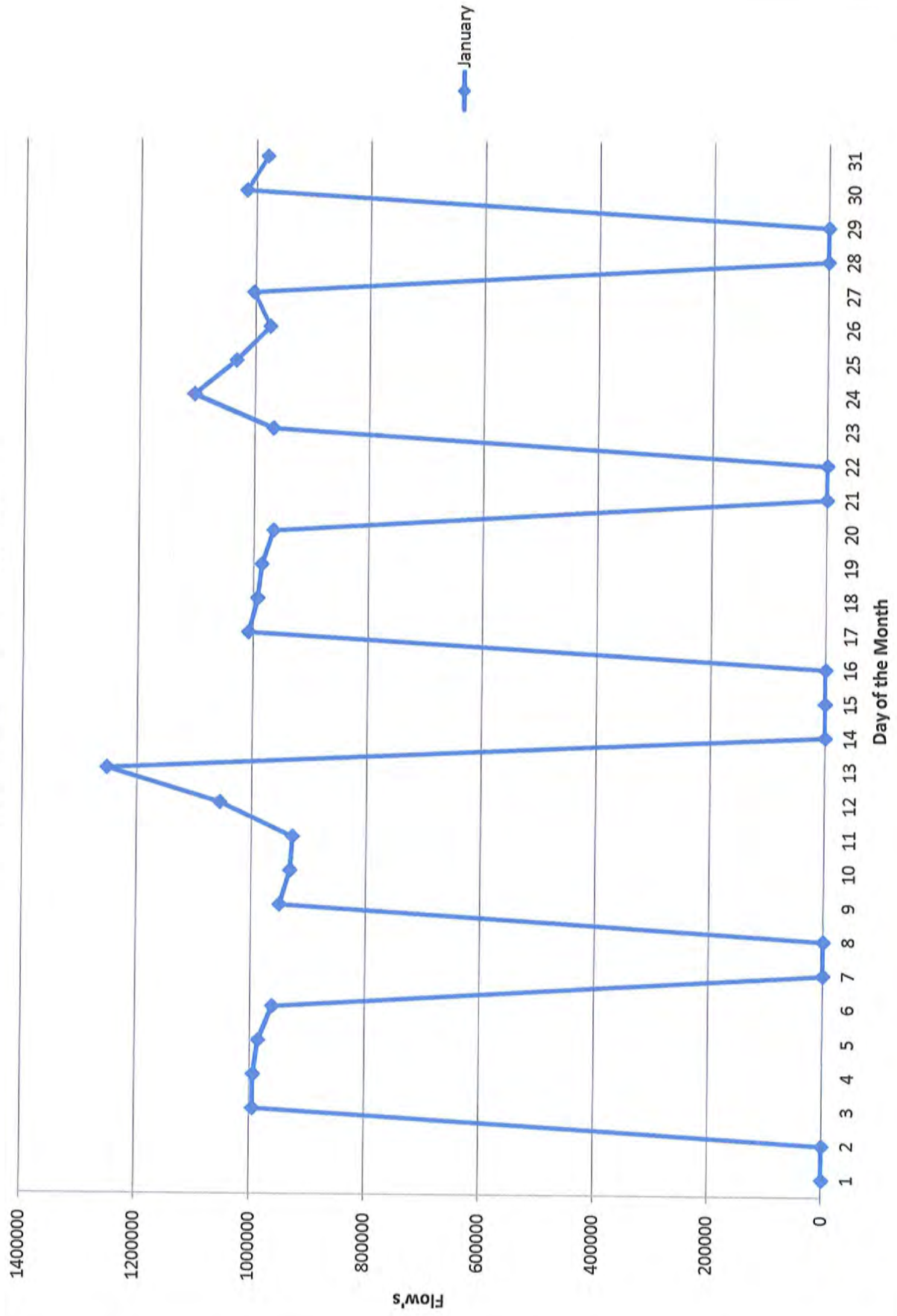
Prepared By: Rick Harp License No.: 12555
 Title: Operations Manager Date: 27-Dec-11

2012 SUMMARY OF METER READINGS

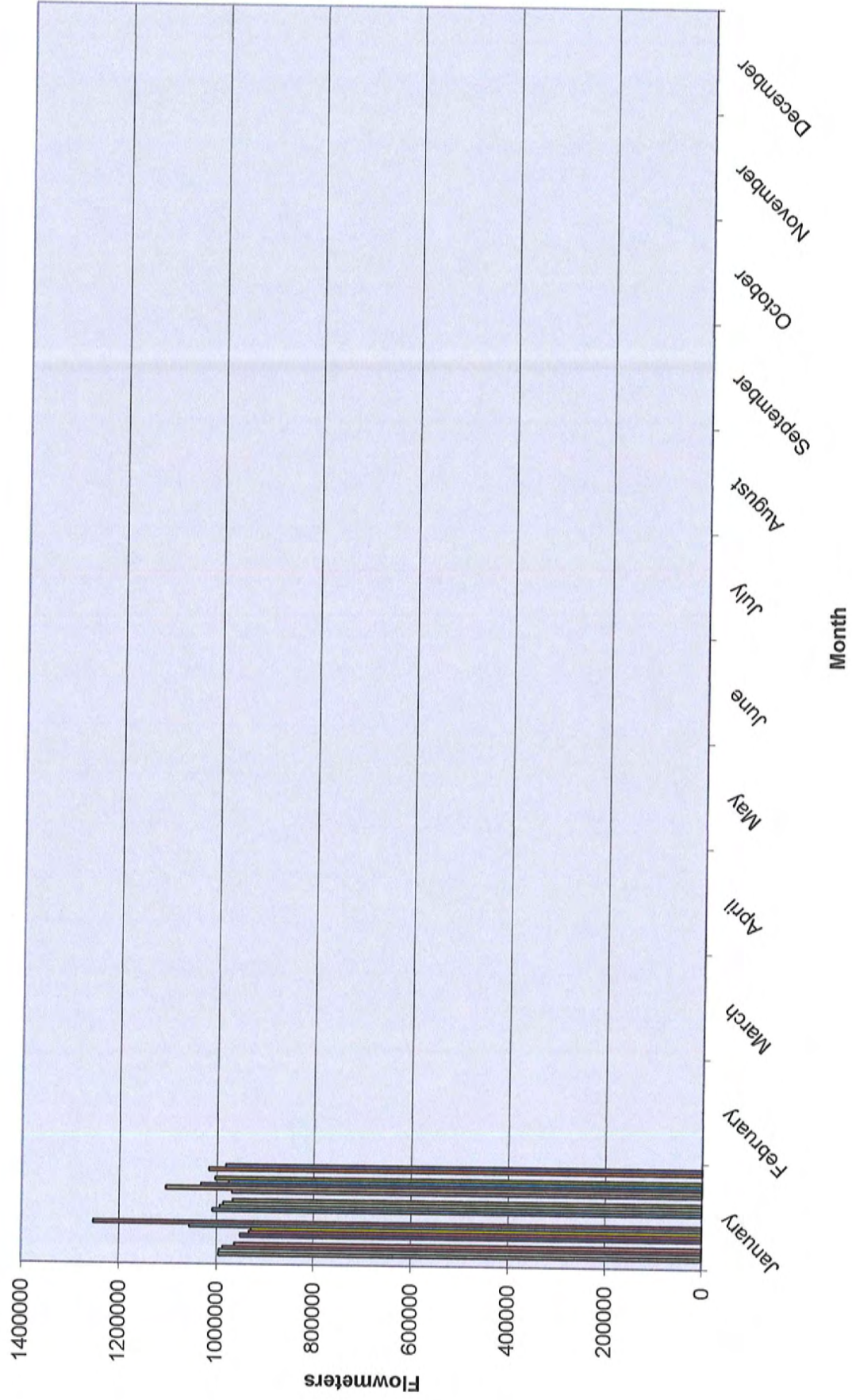
| | WESTTOWN WAY | ELLIS LANE | PAOLI PIKE | WILSON DRIVE | SUMMIT | HERSHEY MILL | ASHBRIDGE | HICKS | RESERVOIR | SHERMAN | BARKWAY |
|--------------------|------------------|----------------|---------------|-----------------|---------------|-----------------|---------------|---------------|----------------|--------------|---------------|
| JANUARY | 1,296,433 | 152,585 | 69,729 | 69,440 | 20,400 | 73,086 | 90,225 | 67,846 | 909,322 | 6,922 | 12,327 |
| FEBRUARY | | | | | | | | | | | |
| MARCH | | | | | | | | | | | |
| APRIL | | | | | | | | | | | |
| MAY | | | | | | | | | | | |
| JUNE | | | | | | | | | | | |
| JULY | | | | | | | | | | | |
| AUGUST | | | | | | | | | | | |
| SEPTEMBER | | | | | | | | | | | |
| OCTOBER | | | | | | | | | | | |
| NOVEMBER | | | | | | | | | | | |
| DECEMBER | | | | | | | | | | | |
| Total Flows | | | | | | | | | | | |
| Monthly Ave | 1,296,433 | 152,585 | 69,729 | 69,440 | 20,400 | 73,086 | 90,225 | 67,846 | 909,322 | 6,922 | 12,327 |

To
West Goshen 1,004,679

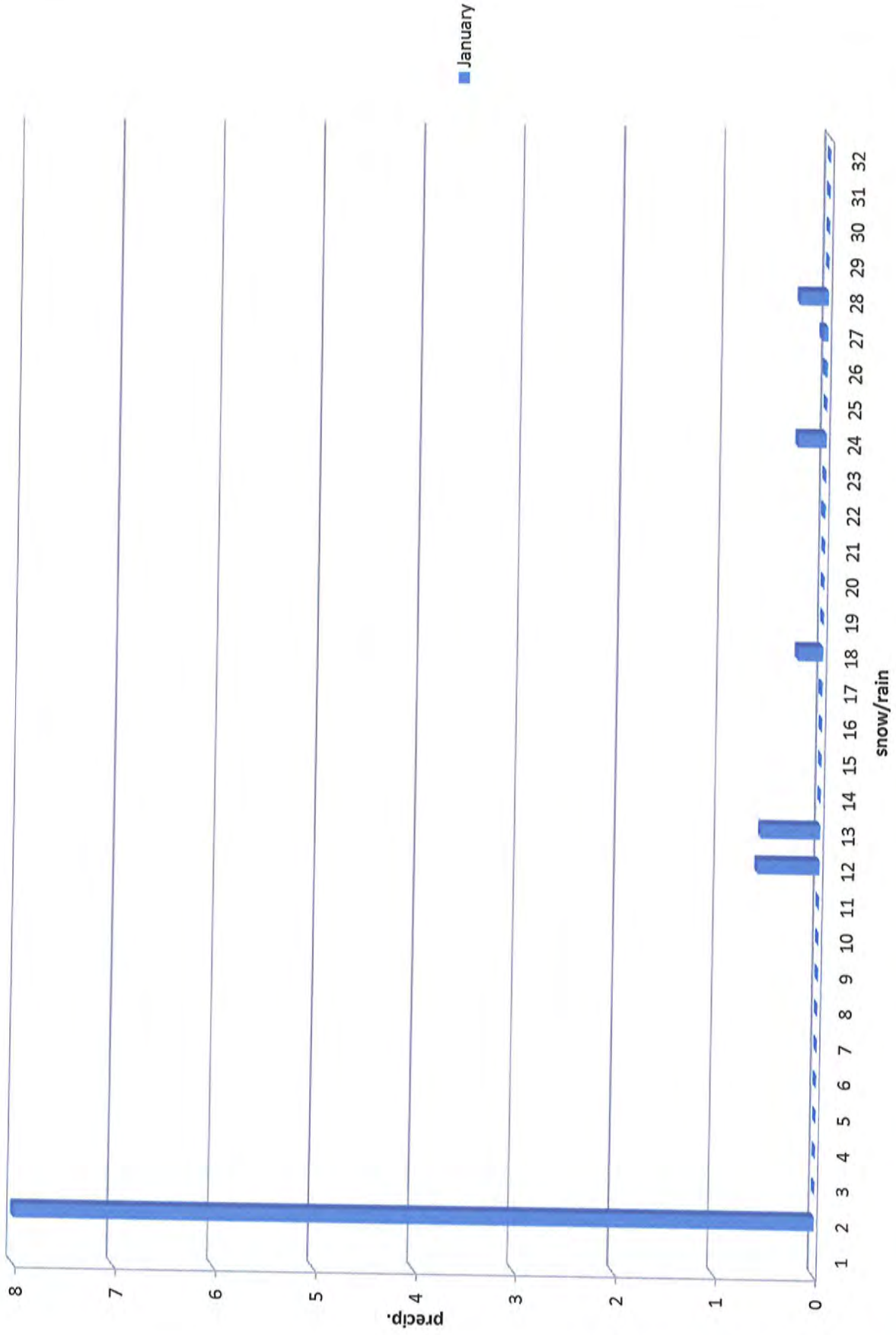
Flowmeters January 2012



Monthly Totals 2012 Jan-Dec



January Precip. 2.37 - 2012



2012 Monthly Precipitation

