

EAST GOSHEN MUNICIPAL AUTHORITY

September 10, 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. August 13, 2012
4. APPROVAL OF INVOICES

a. Pennoni #517331	\$	716.50
b. Pennoni #517332	\$	6,890.75
c. Pennoni #517333	\$	258.00
d. Pennoni #517334	\$	190.50
e. Pennoni #517336	\$	3,966.00
f. Pennoni #App. No. 3	\$	13,632.57
5. LIAISON REPORTS
6. FINANCIAL REPORTS
 - a. August 2012 Report
7. OLD BUSINESS
8. GOALS
 - a. August Goals
9. NEW BUSINESS
10. CAPACITY REQUESTS
11. SEWER REPORTS
 - a. Director of Public Works Report
 - b. Pennoni Engineer's Report
 - c. DEP Stream Report for Ridley Creek
 - d. Big Fish Environmental Inc Report with DMR's
 - e. East Goshen Township Flows for August 2012
12. ANY OTHER MATTER
13. CORRESPONDENCE AND REPORTS OF INTEREST

14. PUBLIC COMMENT

15. ADJOURNMENT

Reminder – NEWSLETTER ARTICLE SUBMISSION DUE DATES:

Article Due Date

Aug 1, 2012

Website Posting Date

Oct. 1, 2012

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draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
August 13, 2012

The East Goshen Township Municipal Authority held their regularly scheduled meeting on Monday, August 13, 2012 at 7:00pm at the East Goshen Township building. Members in attendance were: Chairman Dana Pizarro, Vice Chairman Fran Beck, Jack Yahraes and Kevin Cummings. Also in attendance were: Rick Smith (Township Manager), Dan Barbato (Pennoni), Bob Adams, Scott Towler (BFES), and Walter Wujick (Conservancy Board).

Call to Order & Pledge of Allegiance

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

Chairman's Report

Dana will attend the PMAA meeting this month.

Dana was at a meeting in Harrisburg and saw Lee McDonald who said there are no changes in SEPA for now.

Dana will submit an article for the Fall Newsletter.

Approval of Minutes

The Chairman noted that the minutes of the July 9, 2012 meeting were approved as corrected.

Approval of Invoices

Fran moved to approve payment of Pennoni invoices:

#514183	\$ 5,848.50
#514184	\$ 2,976.25
#514185	\$ 670.50
#514186	\$ 2,283.75
#514187	\$ 1,441.50

Jack seconded the motion. The motion passed unanimously.

Dan verified that the construction phase for Lockwood is done.

Fran moved to approve payment of Gawthrop Greenwood invoice:

#100917	\$ 475.00
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Rick verified that invoice #100326 for \$684 was already approved.

Jack seconded the motion. The motion passed unanimously.

Rick presented an invoice dated August 13, 2012 for reimbursement of the Township staff's time at Lockwood for \$43,397.75 for the time period 7/1/12 to 8/12/12. He pointed out that if the Public Works Dept. did not do this work, it would cost \$112,000. Fran moved to approve payment. Jack seconded the motion. The motion passed unanimously.

1 **Liaison Reports**

2 1. Conservancy Board – Walter reported that the Board has a new member, Bill
3 Coffey. The Board of Supervisors approved the name of Clymer’s Woods for the reforested area
4 in Applebrook. On July 31, 2012, the Board and some residents walked the Goshen Meadows
5 site. They met with the contractor who currently sprays for invasives to discuss expanding this
6 area.

7
8 **Financial Reports**

9 1. Jon Altshul, CFO, provided reports in a new format that the Authority members
10 found easier to understand.

11
12 **Old Business**

13 1. A letter from the DEP to Goshen Meadows listing the items the need to submit
14 was reviewed.

15 2. Saturday October 20, 2012 will be the tour of the Ridley Creek Sewer Treatment
16 Plant from 10:00 am to 12:00 noon. Jack suggested a handout be designed. Scott will make
17 posters. Rick suggested making a tape and put it on the website. Employees need to be there for
18 safety reasons.

19
20 **Goals**

- 21 1. Newsletter – Joe will do an article for the next Newsletter.
22 2. Dana will attend the September meeting at West Goshen.

23
24 **New Business**

25 None

26
27 **Capacity Requests**

28 None

29
30 **Sewer Reports**

31 1. Mark Miller, Director of Public Works, provided the following report for July:
32 Lockwood: About 90% of the closure of the Lockwood Plant is completed. They raked
33 and seeded and laid down straw on the disturbed areas. As a matter of fact, the grass has
34 started to come up. Mark is happy to report that the only hauling costs were for the fill
35 dirt they stack piled at the Milltown yard. He was able to contact several contractors
36 including Lyons & Hohl, Inc., who hauled in fill from two of the sites, approx. 25,000
37 yards. If the Township would have had to pay the trucking costs, it would have been
38 \$112,000.00. The Public Works employees did an excellent job as the bulk of the work
39 was done during those hot and humid days.

40 Meters: Have been read on a daily basis. The meter on Paoli Pike appears to have
41 been struck by lightning. Mark contacted the insurance company to see if a claim can be
42 filed.

43 C.C. Collection: Pumping Stations have been visited on a daily basis. They had to do
44 some repair work at the Barkway Pump Station because they received alarms for a pump
45 failure. They found that pump 2 sheared the impeller shaft. When they pulled the pump,
46 they also found problems with the new style elbow. It would not fit the connection.

1 They had to take the equipment back to the shop and fabricate a new elbow. They also
2 drilled and tapped the force main and installed pressure gauges. By doing so, it now
3 allows them to get an actual pressure reading on each pump. Mark met John Laidley at
4 the station to discuss the discharge pressure on the pumps. Because Mark didn't like the
5 pump down time after reviewing the pump curve, they decided to increase the impeller
6 size to 10". After doing so, they increased the gpm (gallons per minute). Pump 1 was
7 pulled and the impeller was changed. Also, the station was put back on line and is
8 working very well.

9 They located the utilities on Paoli Pike for the Marydell Pump Station abandonment.
10 Shainline Excavation used their Vac Truck to locate the lines rather than using a backhoe.
11 R.C. Collection: The pumping station was visited on a routine basis. They found the
12 automatic dialer died. John Laidly checked it out and recommended that the unit be
13 replaced as the original dialer had 30 years of service. A new unit was installed
14 August 8, 2012.

15 Ridley Creek Plant: The new flow meter was delivered last week. Once they complete the
16 Lockwood Closure, they will get it installed.

17 The Township was notified of six sewer lateral backups. They were able to clear all of
18 them.

19 PA-One Calls: 168 calls were made in July.

20
21
22 2. Dan Barbato, Pennoni, provided the engineer's report:

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

24 Ridley Creek Sewage Treatment Plant (RCSTP) – No activity this period. We will assist
25 with supporting and reviewing warranty claims, plant troubleshooting and operations
26 support as requested.

27 LCSTP Elimination

28 Existing sewers and manholes to be abandoned in-place were filled with flowable fill
29 material. The contractor's only remaining work at the time of this report is preparation of
30 as-built plans and to install lot pins at two property corners between 920 and 922 Dolphin
31 Drive.

32 We performed on-site, part-time construction inspection services during the flowable fill
33 work. We have also provided in-office construction support to coordinate completion of
34 the punchlist items.

35 We have requested the contractor complete the remaining work, submit a final payment
36 request, and submit contract closeout documents prior to the August 13th Authority
37 meeting.

38 Hershey's Mill PS Diversion and Reserve PS Elimination

39 We submitted the Reserve PS and the Hershey's Mill PS GP-5 "General Permit for
40 Utility Line Stream Crossing" application to DEP on June 27 and June 22 respectively,
41 and we are awaiting DEP's answer.

42 We made Erosion and Sedimentation Pollution Control Plan submissions for both
43 projects to the Chester Co Conservation District on Friday July 6th, and we are awaiting
44 CCCD's review.

1 We are finalizing the Closure Plan for the Reserve PS and the Part 2 WQM Permit
2 Amendment for the Hershey's Mill PS, and will make both submissions to DEP within
3 the next two weeks.

4 We have begun to prepare four (4) sanitary sewer easement legal descriptions and
5 exhibits for both diversions projects – one (1) for the Hershey's Mill PS and three (3) for
6 the Reserve PS.

7 Marydell PS Elimination

8 We observed the soft-dig exploratory test pits along the shoulder of Paoli Pike to
9 determine the exact location and depth of Verizon's communication ductbank and if a gas
10 anode line exists. The gas anode line was not found and the Verizon ductbank is in a
11 location that will allow for installation of the sanitary sewer along the shoulder, while
12 still maintaining four (4) feet between PECO's overhead utility poles and the edge of
13 trenches.

14 We revised the design plans to route the sanitary sewer under the shoulder of Paoli Pike.
15 It was previously designed in the lawn on the shopping center side of the utility poles.
16 A small additional easement will be required from the shopping center for this revised
17 sewer route, and we will prepare an easement legal description and exhibit if/when the
18 shopping center owner and Township work out terms of the easement.

19 We finalized and submitted the Pump Station Closure Plan to DEP on July 31 and are
20 awaiting DEP's answer.

21 We also prepared a Highway Occupancy Permit application for the sewer construction
22 and expect to submit it to PennDOT by August 7th. The application proposes a jack &
23 bore (trenchless) installation across Boot Road and open-cut trenching for the remainder
24 of the work. The Paoli Pike crossing at Saratoga Drive is proposed to occur at night with
25 a full road closure and detour, not to exceed three (3) consecutive nights.

26 Hershey's Mill PS Muffin Monster

27 We completed a draft design and conducted field meetings with the Muffin Monster
28 supplier and Public Works to review the concept, identify electrical needs and equipment
29 locations, and determine who will perform the construction. It was agreed that Pennoni
30 will prepare final mechanical and electrical plans (no specifications or Dib documents)
31 and coordinate with the supplier to obtain purchase order pricing. The
32 Township/Authority will then purchase the equipment directly from the supplier, and the
33 Public works Department will perform the installation.

34 We have since finalized the mechanical and electrical plans and are preparing a
35 submission to DEP to notify them of the Muffin Monster installation. DEP has
36 previously advised us that a formal pump station permit amendment is not required.

37 2011 Chapter 94 Reports

38 DEP provided review comments on the Westtown Chapter 94 Report requesting
39 additional information about the sewer system condition, maintenance, and rehabilitation.
40 We are preparing a brief response letter that we expect to submit to DEP by August 17th.
41 DEP previously provided a letter approving the Ridley Creek STP Chapter 94 Report.
42 They have not yet provided any comments on the West Goshen or Lockwood Chase STP
43 Chapter 94 Reports.

1 3. Big Fish Environmental Services, Inc., Scott Towler presented the following:

2 Treatment Process Operation

3 Sequencing batch reactors (SBRs) numbered 1, 3, & 4 were in service during the month
4 of July. SBR No. 2 remains out of service with approximately a mixture of 1 foot of
5 sludge and rainwater within the tank.

6 During the month of June, there was one exceedance of the permitted effluent
7 limitation for total phosphorus. Table 1 provides the June and July (partial) influent total
8 phosphorus mass loading data. On site analysis of split, samples with the certified
9 contract laboratory are on-going.

10 Adjustments to the SBR process during July include lowering the mixed liquor
11 concentration (MLSS), reduce the sludge age and increase the food to mass ration (F:M
12 ratio) to eliminate favorable conditions for the filamentous bacteria *Miclothrix parvicella*.
13 A noticeable reduction in the amount of foam covering the surface area of the SBRs was
14 observed in the React phase with aeration and mixing. Reduction of the MLSS and
15 sludge adversely affected biological phosphorous concentration. Final effluent
16 phosphorus concentrations in the SBR effluent ranged from 2 to 4 mg/L.

17 Process adjustments during the last week of July and early August resulted in Lowering
18 the SBR phosphorus concentrations, which resulted in lowering the alum feed rate. At
19 the time of this report, no phosphorus data for final effluent samples collected during
20 August are available.

21 Solids Dewatering and Disposal

22 The centrifuge dewatering system was placed in service during the month of July.

23 During the month, sludge wasting and decanting of the sludge holding tanks was
24 ongoing. A total volume of 265,650 gallons of supernatant was decanted from the sludge
25 holding tanks. pH and alkalinity were monitored on average twice per week and total
26 solids once per week.

27 Sludge holding tank No. 1 began the month as 0.93% total solids and ended the month at
28 0.94% total solids.

29 Sludge holding tank No.2 began the month as 0.87% total solids and ended the month at
30 1.08% total solids.

31 Maintenance, Repairs and Warranty

32 Outstanding: Centrifuge replacement parts Worth & Co to replace parts used for
33 warranty repair. ACTION: BFESI will provide Worth & Co a letter requesting
34 resolution of the matter on or before October 1, 2012.

35 Outstanding: SBR and Centrifuge MCC panel hour meters – Worth & Co. informed.
36 ACTION: Pennoni Associates/Township to provide Worth & Co. a copy of the short
37 circuit study completed by Clinger Corp.

38 Outstanding: SBR No. 4 Alum valve fails to open. ACTION: Found a loose relay and the
39 valve is functioning as intended.

40 Outstanding: Screen Building overhead door. ACTION: Worth & Co will be contacted
41 to investigate the malfunctioning door.

42 Scheduled Maintenance/Repairs

43 Greased the bearings for the sludge holding tank and final effluent EQ tank blowers.

44 Removed the alum chemical feed line from the static mixer for cleaning.

45 Generators were serviced on August 13th.

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Any Other Matter

1. Rick commented that the Township negotiated a contract with Scott Towler/Big Fish Environmental to continue operating the Ridley Creek Sewer Plant.

Correspondence and Reports of Interest – Dana acknowledged correspondence that was received.

Public Comment – None

Adjournment

There being no further business, Jack moved to adjourn the meeting. Fran seconded the motion. The motion passed unanimously. The meeting was adjourned at 7:45pm.

Respectfully submitted,

Ruth Kiefer
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 # : 517331
Invoice Date : 08/22/2012
Project : EGMA1107
Project Name : HersheyMill & Reserve PS Div Des
Per

For Services Rendered through: 08/12/2012

Review CCCD comments, begin preparation of easement documents, begin development of closure plan for The Reserves PS.

Phase : 1 -- Design

Total Phase : 1 -- Design

Labor :	69.75
Expense :	0.00
Phase Total :	69.75

Phase : 2 -- Sewer Stakeout and Easements

Total Phase : 2 -- Sewer Stakeout and Easements

Labor :	203.25
Expense :	0.00
Phase Total :	203.25

Phase : 5 -- Water Quality Mgmt Part 2 Permit

Total Phase : 5 -- Water Quality Mgmt Part 2 Permit

Labor :	443.50
Expense :	0.00
Phase Total :	443.50

Amount Due This Invoice

\$716.50

Fee :	60,200.00
Prior Billings :	22,659.50
Current Billings :	716.50
Total Billings :	23,376.00

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

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Phase : 1 -- Design

Labor Class	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Project Engineer	0.75	93.00	69.75
Labor Total:	0.75		69.75

Total Phase : 1 -- Design	Labor :	\$69.75
	Expense :	\$0.00

Phase : 2 -- Sewer Stakeout and Easements

Labor Class	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Project Engineer	1.25	93.00	116.25
Senior Surveyor	1.00	87.00	87.00
Labor Total:	2.25		203.25

Total Phase : 2 -- Sewer Stakeout and Easements	Labor :	\$203.25
	Expense :	\$0.00

Phase : 5 -- Water Quality Mgmt Part 2 Permit

Labor Class	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Project Engineer	0.75	93.00	69.75
Engineering Technician I	5.75	65.00	373.75
Labor Total:	6.50		443.50

Total Phase : 5 -- Water Quality Mgmt Part 2 Permit	Labor :	\$443.50
	Expense :	\$0.00

Total Project : EGMA1107 -- HersheyMill & Reserve PS Div Des Per	Labor :	\$716.50
	Expense :	\$0.00

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

East Goshen Municipal Authority

EGMA1107 Invoice Summary

Invoice Date 8/22/2012

Project: EGMA1107
Pennoni Job No.: Hershey Mill & Reserve PS Div Des Per
Invoice No: 517331
Invoice Period: 7/16/2012 to 8/12/2012
Initial Authorization: \$ 60,200.00 **Date:** 7/7/2011
Contract Amount: \$ 60,200.00
Previously Invoiced: \$ 22,659.50
Current Invoice: \$ 716.50
Invoiced to Date (\$): \$ 23,376.00
Invoiced to Date (%): 39%
Remaining Budget (\$): \$ 36,824.00
Remaining Budget (%): 61%

Budget by Phase:

Phase No. ****
Phase Name: Hershey Mill & Reserve
Phase Budget: \$ 60,200.00
Previously Invoiced: \$ 22,659.50
Current Invoice: \$ 716.50
Invoiced to Date (\$): \$ 23,376.00
Invoiced to Date (%): 39%
Remaining Budget (\$): \$ 36,824.00
Remaining Budget (%): 61%

Comments: Review CCCD comments, begin preparation of easement documents, begin development of closure plan for The Reserves PS.



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East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 517332
Invoice Date : 08/22/2012
Project : EGMA1109
Project Name : Marydell Pump Station Diversion

For Services Rendered through: 08/12/2012

Observation of test pits/soft dig on Paoli Pike, revise existing conditions plan and profiles to reflect new data. Completion and submission of DEP closure plan. Develop HOP paperwork and plans, prepare HOP application and submit for review. Developed detour sketch plans.

Phase : 1 -- Design

Total Phase : 1 -- Design

Labor :	2,322.75
Expense :	0.00
Phase Total :	2,322.75

Phase : 3 -- PaDEP Closure Plan

Total Phase : 3 -- PaDEP Closure Plan

Labor :	2,783.25
Expense :	0.00
Phase Total :	2,783.25

Phase : 4 -- PennDOT Highway Occupancy Permits

Total Phase : 4 -- PennDOT Highway Occupancy Permits

Labor :	1,784.75
Expense :	0.00
Phase Total :	1,784.75

Amount Due This Invoice

\$6,890.75

Fee :	45,100.00
Prior Billings :	9,500.25
Current Billings :	6,890.75
Total Billings :	16,391.00

ok MSA 9/7/2012

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

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Phase : 1 -- Design

Labor Class	<i>Hours/Units</i>	<i>Rate</i>	<i>Amount</i>
Project Engineer	10.25	93.00	953.25
Associate Engineer	16.50	83.00	1,369.50
Labor Total:	26.75		2,322.75

Total Phase : 1 -- Design	Labor :	\$2,322.75
	Expense :	\$0.00

Phase : 3 -- PaDEP Closure Plan

Labor Class	<i>Hours/Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	0.75	110.00	82.50
Project Engineer	13.75	93.00	1,278.75
Associate Engineer	14.00	83.00	1,162.00
Engineering Technician I	4.00	65.00	260.00
Labor Total:	32.50		2,783.25

Total Phase : 3 -- PaDEP Closure Plan	Labor :	\$2,783.25
	Expense :	\$0.00

Phase : 4 -- PennDOT Highway Occupancy Permits

Labor Class	<i>Hours/Units</i>	<i>Rate</i>	<i>Amount</i>
Project Engineer	6.25	93.00	581.25
Associate Engineer	14.50	83.00	1,203.50
Labor Total:	20.75		1,784.75

Total Phase : 4 -- PennDOT Highway Occupancy Permits	Labor :	\$1,784.75
	Expense :	\$0.00

Total Project : EGMA1109 -- Marydell Pump Station Diversion	Labor :	\$6,890.75
	Expense :	\$0.00

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

East Goshen Municipal Authority
 EGMA 1109 Invoice Summary
 Invoice Date 8/22/2012

Project: EGMA1109
Pennoni Job No.: Marydell Pump Station Diversion
Invoice No: 517332
Invoice Period: 7/16/2012 to 8/12/2012
Initial Authorization: \$ 45,100.00 **Date:** 2/22/2012
Contract Amount: \$ 45,100.00
Previously Invoiced: \$ 9,500.25
Current Invoice: \$ 6,890.75
Invoiced to Date (\$): \$ 16,391.00
Invoiced to Date (%): 36%
Remaining Budget (\$): \$ 28,709.00
Remaining Budget (%): 64%

Budget by Phase:
Phase No. ****
Phase Name: Marydell Pump Station Diversion
Phase Budget: \$ 45,100.00
Previously Invoiced: \$ 9,500.25
Current Invoice: \$ 6,890.75
Invoiced to Date (\$): \$ 16,391.00
Invoiced to Date (%): 36%
Remaining Budget (\$): \$ 28,709.00
Remaining Budget (%): 64%

Comments: Observation of test pits/soft dig on Paoli Pike, revise existing conditions plan and profiles to reflect new data. Completion and submission of DEP closure plan. Develop HOP paperwork and plans, prepare HOP application and submit for review. Developed detour sketch plans.



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East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199
Attention: Louis F. Smith, Twp Mgr.

Invoice #: 517333
Invoice Date: 08/22/2012
Project: EGMA1201
Project Name: 2012 General Services

For Services Rendered through: 08/12/2012

Engineer's report for August MA meeting, summarize diversion projects for Board.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 258.00
Expense : 0.00
Phase Total : 258.00

Amount Due This Invoice

\$258.00

Fee : 10,000.00
Prior Billings : 3,587.25
Current Billings : 258.00
Total Billings : 3,845.25

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Authority Engineer	1.50	110.00	165.00
Project Engineer	1.00	93.00	93.00
Labor Total:	2.50		258.00

Total Phase : **** -- Professional Services

Labor : \$258.00
Expense : \$0.00

Total Project : EGMA1201 - 2012 General Services

Labor : \$258.00
Expense : \$0.00

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MSM 9/7/2012

East Goshen Municipal Authority
EGMA1201 Invoice Summary
Invoice Date 8/22/2012

Project: EGMA1201
Pennoni Job No.: 2012 General Services
Invoice No: 517333
Invoice Period: 7/16/2012 to 8/12/2012
Initial Authorization: \$ 10,000.00 **Date:** 2/22/2012
Contract Amount: \$ 10,000.00
Previously Invoiced: \$ 3,587.25
Current Invoice: \$ 258.00
Invoiced to Date (\$): \$ 3,845.25
Invoiced to Date (%): 38%
Remaining Budget (\$): \$ 6,154.75
Remaining Budget (%): 62%

Budget by Phase:

Phase No. ****
Phase Name: 2012 General Services
Phase Budget: \$ 10,000.00
Previously Invoiced: \$ 3,587.25
Current Invoice: \$ 258.00
Invoiced to Date (\$): \$ 3,845.25
Invoiced to Date (%): 38%
Remaining Budget (\$): \$ 6,154.75
Remaining Budget (%): 62%

Comments: Engineer's report for August MA meeting, summarize diversion projects for Board.



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East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199
Attention: Louis F. Smith, Twp Mgr.

Invoice #: 517334
Invoice Date: 08/22/2012
Project: EGMA1203
Project Name: 2011 Chapter 94

For Services Rendered through: 08/12/2012

Review DEP comments on Westtown report, discuss comments with DEP, draft response letter.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 190.50
Expense : 0.00
Phase Total : 190.50

Amount Due This Invoice

Fee : 14,000.00
Prior Billings : 13,667.75
Current Billings : 190.50
Total Billings : 13,858.25

\$190.50

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Project Engineer	1.00	93.00	93.00
Engineering Technician I	1.50	65.00	97.50
Labor Total:	2.50		190.50

Total Phase : **** -- Professional Services

Labor : \$190.50
Expense : \$0.00

Total Project : EGMA1203 -- 2011 Chapter 94

Labor : \$190.50
Expense : \$0.00

Handwritten signature and date: MS 9/7/2012

East Goshen Municipal Authority
EGMA1203 Invoice Summary
Invoice Date 8/22/12

Project: EGMA1203
Pennoni Job No.: 2011 Chapter 94
Invoice No: 517334
Invoice Period: 4/16/2012 to 8/12/2012
Initial Authorization: \$ 14,000.00 **Date:** 2/22/2012
Contract Amount: \$ 14,000.00
Previously Invoiced: \$ 13,667.75
Current Invoice: \$ 190.50
Invoiced to Date (\$): \$ 13,858.25
Invoiced to Date (%): 99%
Remaining Budget (\$): \$ 141.75
Remaining Budget (%): 1%

Budget by Phase:

Phase No. ****

Phase Name: 2011 Chapter 94
Phase Budget: \$ 14,000.00
Previously Invoiced: \$ 13,667.75
Current Invoice: \$ 190.50
Invoiced to Date (\$): \$ 13,858.25
Invoiced to Date (%): 99%
Remaining Budget (\$): \$ 141.75
Remaining Budget (%): 1%

Comments: Review DEP comments on Westtown report,
discuss comments with DEP, draft response letter.



INVOICE

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

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 517336
Invoice Date : 08/22/2012
Project : EGMA1206
Project Name : Hershey Mill PS Muffin Monster
Desi

For Services Rendered through: 08/12/2012

Field meeting for design review with vendor and electrical designer. Electrical and mechanical design plans. Note sheets and details.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 3,966.00
Expense : 19.80
Phase Total : 3,985.80

Amount Due This Invoice

\$3,985.80

Fee : 12,000.00
Prior Billings : 1,441.50
Current Billings : 3,985.80
Total Billings : 5,427.30

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Project Engineer	38.00	93.00	3,534.00
Engineering Technician II	6.00	72.00	432.00
Labor Total:	44.00		3,966.00

Expenses

Description	Units	Rate	Amount
Travel			19.80
Expense Total:			\$19.80

Total Phase : **** -- Professional Services

Labor : \$3,966.00
Expense : \$19.80

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

Labor : \$3,966.00
Expense : \$19.80

Handwritten signature and date: 9/7/2012

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

East Goshen Municipal Authority
EGMA1206 Invoice Summary
Invoice Date 8/22/2012

Project: EGMA1206
Pennoni Job No.: Hershey Mill PS Muffin Monster Design
Invoice No: 517336
Invoice Period: 7/16/2012 to 8/12/2012
Initial Authorization: \$ 12,000.00 **Date:** 5/15/2012
Contract Amount: \$ 12,000.00
Previously Invoiced: \$ 1,441.50
Current Invoice: \$ 3,985.80
Invoiced to Date (\$): \$ 5,427.30
Invoiced to Date (%): 45%
Remaining Budget (\$): \$ 6,572.70
Remaining Budget (%): 55%

Budget by Phase:

Phase No.	****
Phase Name:	Muffin Monster Design
Phase Budget:	\$ 12,000.00
Previously Invoiced:	\$ 1,441.50
Current Invoice:	\$ 3,985.80
Invoiced to Date (\$):	\$ 5,427.30
Invoiced to Date (%):	45%
Remaining Budget (\$):	\$ 6,572.70
Remaining Budget (%):	55%

Comments: Field meeting for design review with vendor and electrical designer.
Electrical and mechanical design plans. Note sheets and details.

APPLICATION AND CERTIFICATE FOR PAYMENT

TO (OWNER):
 EAST GOSHEN MUNICIPAL AUTHORITY
 1580 PAOLI PIKE
 WEST CHESTER, PA. 19380
ATTENTION:
 MIKE ELLIS
 PENNONI ASSOCIATES

PROJECT:
 LOCKWOOD CHASE SAN SEWER
 EAST GOSHEN MUA

APPLICATION NO: 3 FINAL

CONTRACTOR: SJM Construction Co., Inc.
 PO Box 373
 Spring House, Pa. 19477

ARCHITECT: ARCHITECTS
 PROJECT NO:

DISTRIBUTION TO:
 OWNER
 ARCHITECT
 CONTRACTOR

21301

3/12/2012

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for Payment, as shown below, in connection with the Contract Continuation Sheet, AIA Document G703, is attached.

CHANGE ORDER SUMMARY			
Change Orders approved in previous months by Owner	ADDITIONS	DEDUCTIONS	
TOTAL	\$ -	\$ -	\$ -
Approved this Month			
Number	Date Approved		

The present status of the account for this Contract is as follows:

ORIGINAL CONTRACT SUM	\$ 178,179.20
Net change by Change Order	\$ -
CONTRACT SUM TO DATE	\$ 178,179.20

TOTAL COMPLETED & STORED TO DATE	\$ 161,193.48
(Column G on G703)	
RETAINAGE	\$ -
or total in Column I on G703	0%
TOTAL EARNED LESS RETAINAGE	\$ 161,193.48

LESS PREVIOUS CERTIFICATES FOR PAYMENT	\$ 147,560.91
CURRENT PAYMENT DUE	\$ 13,632.57

State of: Pennsylvania County of: Montgomery

Subscribed and sworn to before me this 22 day of APRIL, 2012
 Notary Public: Tamie H. Ladley
 My Commission expires: March 26, 2014

COMMONWEALTH OF PENNSYLVANIA
 Tammie H. Ladley, Notary Public
 Whitmarsh Twp, Montgomery County
 My commission expires March 26, 2014

AMOUNT CERTIFIED \$ 13,632.57

(Attach explanation if amount certified differs from the amount applied for.)

ARCHITECT: ENGINEER

By: Mike Ellis, P.E. Date: 8/22/12

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, Payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

OK RS 9-6-12

The undersigned Contractor certifies that to the best of his knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract documents, that all amounts have been paid by him for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payments shown herein is now due.

CONTRACTOR:
 By: [Signature] 8/22/2012

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-the-site observations and the data comprising the above application, the Architect certifies to the Owner that the Work has progressed to the point indicated; that to the best of his knowledge, information and belief, the quality of the work is in accordance with the Contract Documents; and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed Certification is attached.

DATE: 8/22/2012

INVOICE # 3 FINAL

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

ITEM No.	DESCRIPTION OF WORK	C SCHEDULED VALUE	D Previous Application	E WORK COMPLETED		F Stored Materials (not in D or E)	G TOTAL COMPLETED AND STORED TO DATE (D+E+F)	H BALANCE TO FINISH (C-G)	I RETAINAGE
				Work in Place	% (G/C)				
1	Installation, Maintenance, and Ren	\$ 21,900.00	\$ 21,900.00	\$ -	\$ -	\$ 21,900.00	100%	\$ -	\$ -
2	8 Sanitary Sewer Main in Paved Ar	\$ 34,364.00	\$ 25,851.10	\$ -	\$ -	\$ 25,851.10	75%	\$ 8,512.90	\$ -
3	8 Sanitary Sewer Main in Non-Pavr	\$ 29,181.90	\$ 33,871.08	\$ -	\$ -	\$ 33,871.08	116%	\$ (4,689.18)	\$ -
4	Manholes. Price complete, in plac	\$ 20,728.00	\$ 20,728.00	\$ -	\$ -	\$ 20,728.00	100%	\$ -	\$ -
5	Drop Connection to Existing Manho	\$ 5,448.00	\$ 5,448.00	\$ -	\$ -	\$ 5,448.00	100%	\$ -	\$ -
6	4 Laterals. Price complete, in plac	\$ 4,286.70	\$ 4,633.10	\$ 1,169.10	\$ -	\$ 5,802.20	135%	\$ (1,515.50)	\$ -
7	Cleanouts. Price complete, in plac	\$ 6,348.00	\$ 6,348.00	\$ -	\$ -	\$ 6,348.00	100%	\$ -	\$ -
8	8 Superpave 25 mm Base Course	\$ 15,120.00	\$ 16,443.00	\$ -	\$ -	\$ 16,443.00	109%	\$ (1,323.00)	\$ -
9	In-Kind Concrete Curb Replaceme	\$ 4,900.00	\$ 5,670.00	\$ -	\$ -	\$ 5,670.00	116%	\$ (770.00)	\$ -
10	Abandon Existing 8 Sewer Main.	\$ 3,140.60	\$ -	\$ 3,612.10	\$ -	\$ 3,612.10	115%	\$ (471.50)	\$ -
11	Abandon Existing Manholes. Pric	\$ 2,170.00	\$ 1,085.00	\$ 1,085.00	\$ -	\$ 2,170.00	100%	\$ -	\$ -
12	Miscellaneous Excavation and Bac	\$ 4,050.00	\$ -	\$ -	\$ -	\$ -	0%	\$ 4,050.00	\$ -
13	Miscellaneous Excavation and Bac	\$ 2,375.00	\$ -	\$ -	\$ -	\$ -	0%	\$ 2,375.00	\$ -
14	Concrete Encasement. Price com	\$ 3,367.00	\$ -	\$ -	\$ -	\$ -	0%	\$ 3,367.00	\$ -
15	Clearing. Price complete, in place	\$ 8,000.00	\$ 8,000.00	\$ -	\$ -	\$ 8,000.00	100%	\$ -	\$ -
16	Rock Removal. Price complete, in	\$ 7,500.00	\$ 5,350.00	\$ -	\$ -	\$ 5,350.00	71%	\$ 2,150.00	\$ -
17	Demolish and Re-Build Exist Drop	\$ 5,300.00	\$ -	\$ -	\$ -	\$ -	0%	\$ 5,300.00	\$ -
18		\$ -	\$ -	\$ -	\$ -	\$ -	#DIV/0!	\$ -	\$ -
19		\$ -	\$ -	\$ -	\$ -	\$ -	#DIV/0!	\$ -	\$ -
TOTAL CHANGE ORDERS		\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
TOTALS		\$ 178,179.20	\$ 155,327.28	\$ 5,866.20	\$ -	\$ 161,193.48	90%	\$ 16,985.72	\$ -

AIA DOCUMENT G703 CONTINUATION SHEET APRIL 1978 EDITION AIA 1978
 THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVENUE, N.W., WASHINGTON, D.C. 20006
 G703---1978

SJM CONSTRUCTION COMPANY, INC.

PO Box 373
Spring House, Pa. 19477-0373

Phone 215-628-3905

Fax 215-628-3922

INVOICE NO.
DATE SUBMITTED:
PERIOD ENDING:
COMPLETION:

3 FINAL
8/22/2012

WORK COMPLETED:
TOTAL DAYS ALLOWED:
DAYS USED:
NOTICE TO PROCEED:

90.47%

ITEM NUMBER	ITEM DESCRIPTION	BID QUANTITY	BID UNIT PRICE	BID AMOUNT	COMPLETED QUANTITY	COMPLETED PRIOR AMOUNT	INCREASE THIS PERIOD QUANTITY	AMOUNT	TOTALS TO DATE QUANTITY	AMOUNT	RETAINAGE 0%	QUANTITY REMAINING
1	Installation, Maintenance, and Removal of E	1 LS	\$21,900.00	\$21,900.00	100%	\$21,900.00		\$0.00	1.00	\$21,900.00	\$0.00	0.00
2	8 Sanitary Sewer Main in Paved Areas. Pric	484 LF	\$71.00	\$34,364.00	364.1	\$25,851.10		\$0.00	364.10	\$25,851.10	\$0.00	119.90
3	8 Sanitary Sewer Main in Non-Paved Areas	814 LF	\$35.85	\$29,181.90	944.8	\$33,871.08		\$0.00	944.80	\$33,871.08	\$0.00	-130.80
4	Manholes. Price complete, in place	8 EA	\$2,591.00	\$20,728.00	8	\$20,728.00		\$0.00	8.00	\$20,728.00	\$0.00	0.00
5	Drop Connection to Existing Manhole EXMT-	1 LS	\$5,448.00	\$5,448.00	1	\$5,448.00		\$0.00	1.00	\$5,448.00	\$0.00	0.00
6	4 Laterals. Price complete, in place	99 LF	\$43.30	\$4,286.70	107	\$4,633.10	27	\$1,169.10	134.00	\$5,802.20	\$0.00	-35.00
7	Cleanouts. Price complete, in place	6 EA	\$1,058.00	\$6,348.00	6	\$6,348.00		\$0.00	6.00	\$6,348.00	\$0.00	0.00
8	8 Superpave 25 mm Base Course Paving.	240 SY	\$63.00	\$15,120.00	261	\$16,443.00		\$0.00	261.00	\$16,443.00	\$0.00	-21.00
9	In-Kind Concrete Curb Replacement. Price	140 LF	\$35.00	\$4,900.00	162	\$5,670.00		\$0.00	162.00	\$5,670.00	\$0.00	-22.00
10	Abandon Existing 8 Sewer Main. Price con	766 LF	\$4.10	\$3,140.60	0	\$0.00	881	\$3,612.10	881.00	\$3,612.10	\$0.00	-115.00
11	Abandon Existing Manholes. Price comple	2 EA	\$1,085.00	\$2,170.00	1	\$1,085.00	1	\$1,085.00	2.00	\$2,170.00	\$0.00	0.00
12	Miscellaneous Excavation and Backfill with	50 CY	\$81.00	\$4,050.00	0	\$0.00		\$0.00	0.00	\$0.00	\$0.00	50.00
13	Miscellaneous Excavation and Backfill with	50 CY	\$47.50	\$2,375.00	0	\$0.00		\$0.00	0.00	\$0.00	\$0.00	50.00
14	Concrete Encasement. Price complete, in p	100 LF	\$33.67	\$3,367.00	0	\$0.00		\$0.00	0.00	\$0.00	\$0.00	100.00
15	Clearing. Price complete, in place	1 LS	\$8,000.00	\$8,000.00	100%	\$8,000.00		\$0.00	1.00	\$8,000.00	\$0.00	0.00
16	Rock Removal. Price complete, in place	75 CY	\$100.00	\$7,500.00	53.5	\$5,350.00		\$0.00	53.50	\$5,350.00	\$0.00	21.50
17	Demolish and Re-Build Exist Drop Connecti	1 LS	\$5,300.00	\$5,300.00	0	\$0.00		\$0.00	0.00	\$0.00	\$0.00	1.00
18			\$0.00	\$0.00	0	\$0.00		\$0.00	0.00	\$0.00	\$0.00	0.00
19			\$0.00	\$0.00	0	\$0.00		\$0.00	0.00	\$0.00	\$0.00	0.00
Total Amount of Items 1 through 19				\$178,179.20	\$155,327.28	\$5,866.20	\$161,195.48					

APPROVED BY:  M. J. Elie, P.E.
APPROVED BY: SIM CONSTRUCTION CO., INC.
APPROVED BY: PENNSYLVANIA ASSOCIATES INC.

This Period
Total to Date
TOTAL AMOUNT DUE: \$5,866.20
LESS RETAINAGE \$0.00
NET AMOUNT DUE: \$5,866.20
LESS PREVIOUS PAYMENTS: \$0.00
TOTAL AMOUNT PAYABLE: \$5,866.20

SJM CONSTRUCTION COMPANY, INC.

INVOICE #	CHECK DATE	CHECK NUMBER	CHECK AMOUNT
1	6/7/2012	2093	\$105,473.97
2	7/9/2012	2105	\$ 42,086.94

TOTAL PAID **\$147,560.91**

Lockwood Chase Sanitary Sewer Diversion
Contract No. SS-2012-1

Sheet 1 of 2

(TO BE COMPLETED AFTER CONSTRUCTION)
CONTRACTOR'S RELEASE

KNOW ALL MEN BY THESE PRESENTS THAT: _____

_____ SJM Construction Company Inc.

_____ (Contractor)

of Montgomery County and State of Pennsylvania

does hereby acknowledge that he has received this day of and from the

_____ East Goshen Municipal Authority

_____ (Owner)

the sum of ONE DOLLAR (\$1.00) and other valuable consideration in full satisfaction
Balance owed to SJM Construction Company Inc. as of 8/16/12 is \$13,632.57
and payment of all sums of money owing payable and belonging to _____

_____ SJM Construction Company Inc.

_____ (Contractor)

by any means whatsoever, for on account of a certain agreement hereinafter called

the CONTRACT, between the said _____ East Goshen Municipal Authority
_____ (Owner)

_____ and _____ SJM Construction Company Inc.
_____ (Contractor)

dated March 12, 2012

NOW THEREFORE, the said _____ SJM Construction Company Inc.
_____ (Contractor)

(for myself, my heirs, executors and administrators) (for itself, its successors and assigns) do by these presents remise, release, quit-claim and forever discharge the

said _____ East Goshen Municipal Authority
_____ (Owner)

its successors and assigns, of and from all claims and demands arising from or in connection with the said CONTRACT dated March 12, 2012 and of and from all, and all manner of

Lockwood Chase Sanitary Sewer Diversion
Contract No. SS-2012-1

Sheet 2 of 2

action and actions, cause and causes of action and actions, suits, debts, dues, duties, sum and sums of money, accounts, reckonings, bonds, bills, specialties, covenants, contracts, agreements, promises, variances, damages, judgments, extents executions, claims and demand, whatsoever, in law or equity, or otherwise which against the said East Goshen Municipal Authority (Owner) its successors and assigns, ever had, now have, or which (I, my heirs, executors, or administrators) (it, its successors and assigns) hereafter can, shall or may have, for upon or by reason of any matter, cause or thing whatsoever, from the beginning of the work to the date of these presents.

IN WITNESS WHEREOF SJM Construction Company Inc.
(Contractor)

has caused these presents to be duly executed the 16 day of August, 2012.

Signed, Sealed and Delivered
in the presence of:

(Individual) (SEAL)

(Partnership Contractor) (SEAL)

By _____ (SEAL)
(Partner)

Attest:

(SEAL)

Tamie H Ladley
(Secretary)
Tamie H Ladley, Admin Assistant

By Stephen J. McGlynn
(President or Vice-President)
Stephen J. McGlynn, PResident

(CORPORATE SEAL)

Lockwood Chase Sanitary Sewer Diversion
Contract No. SS-2012-1

(TO BE COMPLETED AFTER CONSTRUCTION)
STATEMENT OF SURETY COMPANY

IN ACCORDANCE with the provisions of the CONTRACT dated _____

_____ between the _____

_____ East Goshen Municipal Authority
(Owner)

_____ and SJM Construction Company, Inc.
(Contractor)

_____, the Liberty Mutual Insurance Company
(Surety)

_____, SURETY on the Material and Labor

Payment BOND of SJM Construction Company, Inc. _____

(Contractor)

after a careful examination of the books and records of said CONTRACTOR or after receipt of an affidavit from CONTRACTOR, which examination of affidavit satisfies SURETY that all claims for labor and materials have been satisfactorily settled, hereby approved of the final payment to the said _____,

CONTRACTOR and by these presents witnesseth that payment to the CONTRACTOR of the final estimates shall not relieve SURETY of any of its obligations to _____

_____ East Goshen Municipal Authority _____, as
(Owner)

set forth in the said SURETY COMPANY'S BOND.

IN WITNESS WHEREOF, said SURETY has hereunto set its hand and seal this

_____ 9 _____ day of August _____, 2012.

ATTEST:

(SEAL) Sina Pepe BY Richard G. Anderson

President Richard G. Anderson, Attorney-in-Fact

NOTE: This statement, if executed by any person other than the President or Vice President of the Company, must be accompanied by a certificate of even date showing authority conferred upon the person so signing to execute such instruments on behalf of the Company represented.

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

4985271

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

**LIBERTY MUTUAL INSURANCE COMPANY
BOSTON, MASSACHUSETTS
POWER OF ATTORNEY**

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts stock insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint **ANNA EVERLY, RICHARD G. ANDERSON, JOSEPH T. CATANIA, GINA M. PEPE, ALL OF THE CITY OF WILMINGTON, STATE OF DELAWARE**

....., each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding **FIFTY MILLION AND 00/100**..... **DOLLARS (\$ 50,000,000.00**.....) each, and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XIII, Section 5 of the By-Laws, David M. Carey, Assistant Secretary of Liberty Mutual Insurance Company, is hereby authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization set forth above are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this day of 14th day of November, 2011.



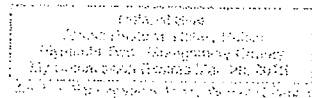
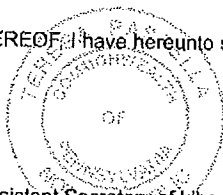
LIBERTY MUTUAL INSURANCE COMPANY

By David M. Carey
David M. Carey, Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 14th day of November, 2011, before me, a Notary Public, personally came David M. Carey, to me known, and acknowledged that he is an Assistant Secretary of Liberty Mutual Insurance Company; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of Liberty Mutual Insurance Company thereto with the authority and at the direction of said corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



By Teresa Pastella
Teresa Pastella, Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the officer or official who executed the said power of attorney is an Assistant Secretary specially authorized by the chairman or the president to appoint attorneys-in-fact as provided in Article XIII, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate and the above power of attorney may be signed by facsimile or mechanically reproduced signatures under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980.

VOTED that the facsimile or mechanically reproduced signature of any assistant secretary of the company, wherever appearing upon a certified copy of any power of attorney issued by the company in connection with surety bonds, shall be valid and binding upon the company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this 9 day of August 2011.



By Gregory W. Davenport
Gregory W. Davenport, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

Memo

To: Municipal Authority
From: Jon Altshul
Re: August 2012 Financial Report
Date: September 7, 2012

Attached please find the August Financial Report for the Municipal Authority. Total expenses were 66,584.27 compared with total revenue of \$100,010.99 (primarily due to a \$100,000 transfer from the sewer capital reserve fund), for a net change in fund balance of 33,426.72.

EAST GOSHEN TOWNSHIP
 1580 PAOLI PIKE
 WEST CHESTER, PA
 Municipal Authority
 August 2012

Account Title	Acct #	Annual Budget	Month To Date		Year To Date	
			Actual		Actual	
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE				52,283.93		
RCSTP BUDGET						
REVENUE						
INTEREST EARNED - RCSTP EXPANSION	07341 1020	0.00	2.91		63.95	
GRANT REVENUE	07392 0800	0.00	0.00		0.00	
TOTAL REVENUE		0.00	2.91		63.95	
EXPENSES						
R.C.-CAP. PROJ.-ENGINEER	07424 7451	0.00	0.00		0.00	
R.C. CAP EXPANSION GEN'L CONTRACTOR	07424 7452	0.00	0.00		0.00	
R.C. CAP EXPANSION - ELECTRICAL	07424 7453	0.00	0.00		1,228.08	
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	0.00	0.00		0.00	
TOTAL EXPENSES		0.00	0.00		1,228.08	
RCSTP NET RESULT		0.00	2.91		(1,164.13)	

EAST GOSHEN TOWNSHIP
 1580 PAOLI PIKE
 WEST CHESTER, PA
 Municipal Authority
 August 2012

Account Title	Acct #	Annual Budget	Month To Date		Year To Date	
			Actual		Actual	
OPERATING BUDGET						
REVENUE						
INTEREST EARNINGS	07341 1000	0.00	8.08		34.25	
C.C. TAPPING FEES	07364 1100	2,000.00	0.00		0.00	
R.C. TAPPING FEES	07364 1110	2,000.00	0.00		4,000.00	
CONNECTION FEES - SEWER	07364 1130	0.00	0.00		845.64	
MISCELLANEOUS REVENUE	07380 1000	1,000.00	0.00		423.36	
TRANSFER FROM SEWER OPERATING	07392 0500	125,000.00	0.00		30,700.00	
TOTAL REVENUE		130,000.00	8.08		36,003.25	
EXPENSES						
ADMINISTRATIVE WAGES	07424 1400	37,669.00	0.00		16,783.88	
MISCELLANEOUS EXPENSE	07424 3000	4,162.00	0.00		950.00	
MUNIC.AUTH.-AUDITING	07424 3110	8,843.00	0.00		7,900.00	
ENGINEERING SERVICES	07424 3130	37,066.00	670.50		22,977.50	
LEGAL SERVICES	07424 3140	12,485.00	475.00		4,770.68	
M.C.-DVRFA-DEBT SERVICE	07471 1000	19,600.00	0.00		0.00	
M.C.-DVRFA-INTEREST PAYMN	07472 1000	6,981.00	0.00		0.00	
TOTAL EXPENSES		126,806.00	1,145.50		53,382.06	
OPERATING NET RESULT		3,194.00	(1,137.42)		(17,378.81)	

EAST GOSHEN TOWNSHIP
 1580 PAOLI PIKE
 WEST CHESTER, PA
 Municipal Authority
 August 2012

Account Title	Acct #	Annual Budget	Month To Date		Year To Date	
			Actual		Actual	
CAPITAL BUDGET						
REVENUE						
LOAN PROCEEDS-SEWER PROJECT	07392 0804	0.00	0.00	0.00	0.00	0.00
TRANSFER FROM SEWER CAP RESERVE	07392 0900	828,000.00	100,000.00	100,000.00	400,000.00	400,000.00
TOTAL REVENUE		828,000.00	100,000.00	100,000.00	400,000.00	400,000.00
EXPENSES						
MARYDELL PUMP STATION - ENGINEER	07425 1000	51,764.00	4,076.25	4,076.25	7,336.00	7,336.00
MARYDELL PUMP STATION - CONSTRUCTION	07425 2000	170,000.00	0.00	0.00	0.00	0.00
LOCHWOOD ABANDONMENT ENGINEER	07424 7475	37,553.00	3,725.25	3,725.25	38,107.50	38,107.50
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7476	411,000.00	0.00	0.00	163,235.91	163,235.91
LOCHWOOD ELIMINATION PHASE 2	07424 7477	0.00	51,788.77	51,788.77	104,404.99	104,404.99
HERSHEY MILL STATION - ENGINEER	07426 1000	29,069.00	2,924.25	2,924.25	13,039.75	13,039.75
HERSHEY MILL STATION - CONSTRUCTION	07426 2000	46,000.00	0.00	0.00	0.00	0.00
RESERVE PUMP STATION - ENGINEER	07427 1000	29,069.00	2,924.25	2,924.25	8,231.75	8,231.75
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	93,000.00	0.00	0.00	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0.00	0.00	0.00	0.00	0.00
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00	0.00	0.00
TOTAL EXPENSES		867,455.00	65,438.77	65,438.77	334,355.90	334,355.90
CAPITAL NET RESULT		(39,455.00)	34,561.23	34,561.23	65,644.10	65,644.10
MUNICIPAL AUTHORITY ENDING FUND BALANCE			85,710.65	85,710.65		

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000						0.00				
			INTEREST EARNINGS							
			1201 JE 31221		0.62		02/07/12	INTEREST		INTEREST EARNED JAN. 2012 7100.1000
				0.00	0.62	-0.62				
			1202 31655		0.25		03/14/12	INTEREST		INTEREST EARNED FEB. 2012 7100.1000
				0.00	0.25	-0.87				
			1203 31930		0.56		04/04/12	INTEREST		INTEREST EARNED MARCH 2012 7100.1000
				0.00	0.56	-1.43				
			1204 32293		4.97		05/02/12	INTEREST		INTEREST EARNED APRIL 2012 7100.1000
				0.00	4.97	-6.40				
			1205 32709		6.93		06/05/12	INTEREST		INTEREST EARNED MAY 2012 7100.1000
				0.00	6.93	-13.33				
			1206 33106		7.04		07/03/12	INTEREST		INTEREST EARNED JUNE 2012 7100.1000
				0.00	7.04	-20.37				
			1207 33554		5.80		08/06/12	INTEREST		INTEREST EARNED JULY 2012 7100.1000
				0.00	5.80	-26.17				
			1208 33969		4.04		09/04/12	INTEREST		INTEREST EARNED AUGUST 2012 7100.1000
					4.04		09/06/12	INTEREST		INTEREST EARNED AUGUST 2012 07 FUND
				0.00	8.08	-34.25				
				0.00	34.25	-34.25				
07341-1020			INTEREST EARNED - RCSTP EXPANSION			0.00				
			1201 31222		0.40		02/07/12	INTEREST		INTEREST EARNED JAN. 2012 7105.1000
					7.80		02/07/12	INTEREST		INTEREST EARNED JAN. 2012 7109.2000
					0.05		02/09/12	INTEREST		INTEREST EARNED JAN.2012 7105.1500
				0.00	8.25	-8.25				
			1202 31656		0.30		03/14/12	INTEREST		INTEREST EARNED FEB. 2012 7105.1000
					7.30		03/14/12	INTEREST		INTEREST EARNED FEB. 2012 7109.2000

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
			0.00	7.60	-15.85				
1203		31931		0.15		04/04/12	INTEREST		INTEREST EARNED MARCH 2012 7105.1000
		31932		9.54		04/04/12	INTEREST		INTEREST EARNED MARCH 2012 7109.2000
			0.00	9.69	-25.54				
1204		32294		0.14		05/02/12	INTEREST		INTEREST EARNED APRIL 2012 7105.1000
		32295		9.52		05/02/12	INTEREST		INTEREST EARNED APRIL 2012 7109.2000
			0.00	9.66	-35.20				
1205		32710		0.14		06/05/12	INTEREST		INTEREST EARNED MAY 2012 7105.1000
		32711		9.55		06/05/12	INTEREST		INTEREST EARNED MAY 2012 7109.2000
			0.00	9.69	-44.89				
1206		33107		0.15		07/03/12	INTEREST		INTEREST EARNED JUNE 2012 7105.1000
		33108		9.52		07/03/12	INTEREST		INTEREST EARNED JUNE 2012 7109.2000
			0.00	9.67	-54.56				
1207		33555		0.14		08/06/12	INTEREST		INTEREST EARNED JULY 2012 7105.1000
		33556		6.34		08/06/12	INTEREST		INTEREST EARNED JULY 2012 7109.2000
			0.00	6.48	-61.04				
1208		33970		0.15		09/04/12	INTEREST		INTEREST EARNED AUGUST 2012 7105.1000
		34005		2.76		09/06/12	INTEREST		INTEREST EARNED AUGUST 2012 07 FUND - CONSTRUCTION ACCTS.
			0.00	2.91	-63.95				
			0.00	63.95	-63.95				
07364-1110		R.C.TAPPING FEES			0.00				
	1205 RE	32596		2,000.00		05/25/12	32596 1		TAP IN FEE FOR 1636 MANLEY RD
			0.00	2,000.00	-2,000.00				
1206		32779		2,000.00		06/11/12	32779 1		TAP IN FEE FOR 913 SORRELL HIL R.C.TAPPING FEES
			0.00	2,000.00	-4,000.00				
			0.00	4,000.00	-4,000.00				

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07364-1130					0.00				
	1202	CR 31243		423.00		02/08/12	197	6576	1 JACOBS, ROBERT & CHERYL
		31437		423.00		02/27/12	2103	6575	1 STOFFLET, MICHAEL
		JE 31244	141.12			02/08/12	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		31438	141.12			02/27/12	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			282.24	846.00	-563.76				
	1203	CR 31489		423.00		03/01/12	730	6574	1 GEORGE SMITH & CHRISTINA CONLE
		JE 31490	141.12			03/01/12	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			141.12	423.00	-845.64				
			423.36	1,269.00	-845.64				
07380-1000					0.00				
	1202	31244		141.12		02/08/12	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		31438		141.12		02/27/12	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			0.00	282.24	-282.24				
	1203	31490		141.12		03/01/12	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			0.00	141.12	-423.36				
			0.00	423.36	-423.36				
07392-0500					0.00				
	1202	31428		15,000.00		02/24/12	XFER		XFER FROM 5100.1000 TO 7100.1000
			0.00	15,000.00	-15,000.00				
	1203	31612		15,700.00		03/13/12	XFER		XFER FROM 5100.1000 TO 7100.1000 TO COVER MA EXP.
			0.00	15,700.00	-30,700.00				
			0.00	30,700.00	-30,700.00				
07392-0900					0.00				
	1204	32045		100,000.00		04/12/12	XFER		XFER \$ FROM SEWER CAP.RESERVE TO MUN.AUTHORITY GEN.ACCT.
			0.00	100,000.00	-100,000.00				
	1206	32839		100,000.00		06/15/12	XFER		XFER FUNDS TO MA FROM SEWER CAPITAL RES. 5/14/12
			0.00	100,000.00	-200,000.00				
	1207	33176		100,000.00		07/11/12	XFER		XFER \$ FROM SEWER CAPITAL RESERVE TO MA OPERATING
			0.00	100,000.00	-300,000.00				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07392-0900	1208	JE	33682		100,000.00		08/14/12	XFER		XFER \$ TO MA FROM SEWER CAP. RESERVE
				0.00	100,000.00	-400,000.00				
				0.00	400,000.00	-400,000.00				
07424-1400						0.00				
	1203	CD	31601	8,391.94			03/13/12	2085		425 EAST GOSHEN TOWNSHIP 1ST QTR.2012 MUNICIPAL AUTHORITY EXPENSES
				8,391.94	0.00	8,391.94				
	1206		32849	8,391.94			06/15/12	2094		425 EAST GOSHEN TOWNSHIP 2ND QTR 2012 MUNICIPAL AUTHORITY EXPENSES
				8,391.94	0.00	16,783.88				
				16,783.88	0.00	16,783.88				
07424-3000						0.00				
	1201		30772	950.00			01/06/12	2081		2132 PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2012 ACTIVE MEMBERSHIP DUES
				950.00	0.00	950.00				
				950.00	0.00	950.00				
07424-3110						0.00				
	1207		33171	7,900.00			07/11/12	2103		808 MAILLIE FALCONIERO & CO. EXAMINATION OF FINANCIAL STATEME DECEMBER 31, 2011
				7,900.00	0.00	7,900.00				
				7,900.00	0.00	7,900.00				
07424-3130						0.00				
	1202		31393	220.00			02/22/12	2084		1052 PENNONI ASSOCIATES INC. SERV.THURU 1/15/12 2011 ANNUAL SE
				220.00	0.00	220.00				
	1203		31608	1,182.50			03/13/12	2086		1052 PENNONI ASSOCIATES INC. SERVICES THRU 12/11/12 2011 ANN SERVICES
				1,182.50	0.00	1,402.50				
	1204		32043	4,971.75			04/12/12	2088		1052 PENNONI ASSOCIATES INC. SERVICES THRU 3/18/12 2012 GEN.S

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
			4,971.75	0.00	6,374.25				
1205		32450	14,501.00			05/15/12	2090	1052	PENNONI ASSOCIATES INC. SERVICE THRU 4/15/12 2011 CHAP.9
			14,501.00	0.00	20,875.25				
1206		32809	289.75			06/14/12	2092	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/13/12 GENERAL SE
			289.75	0.00	21,165.00				
1207		33171	1,142.00			07/11/12	2104	1052	PENNONI ASSOCIATES INC. SERVICE THRU 6/17/12 -GENERAL SE
			1,142.00	0.00	22,307.00				
1208		33676	670.50			08/14/12	2131	1052	PENNONI ASSOCIATES INC. SERVICES THRU 7/15/12 -2012 GENE SERVICES
			670.50	0.00	22,977.50				
			22,977.50	0.00	22,977.50				
07424-3140		LEGAL SERVICES			0.00				
1202		31393	1,825.68			02/22/12	2083	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. 12/12/11 - GEN.AUTH.
			1,825.68	0.00	1,825.68				
1204		32043	1,083.00			04/12/12	2087	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 2/7-2/29/12 GEN.AU
			1,083.00	0.00	2,908.68				
1205		32450	703.00			05/15/12	2089	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. 3/12-3/21/12 GEN.AUT
			703.00	0.00	3,611.68				
1207		33171	684.00			07/11/12	2102	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. 5/14/12 - GENERAL AU
			684.00	0.00	4,295.68				
1208		33676	475.00			08/14/12	2130	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. 7/9/12 - GEN.AUTHORI
			475.00	0.00	4,770.68				
			4,770.68	0.00	4,770.68				
07424-7453		R.C. CAP EXPANSION - ELECTRICAL			0.00				
1206		32809	1,228.08			06/14/12	2091	2696	CLINGER CORP., WM. H. REPAIR TANK MIXER CONTROL CIRCUIT FAULT

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
				1,228.08	0.00	1,228.08				
				1,228.08	0.00	1,228.08				
07424-7475	LOCHWOOD	ABANDONMENT	ENGINEER			0.00				
1202		31393		2,600.00			02/22/12	2082	2911	EARTHCORE SERVICES LLC MOBILIZATION, ATV RIG, AUGER PRO LOCKWOOD ENGINEERING
				4,315.00			02/22/12	2084	1052	PENNONI ASSOCIATES INC. SERV.THRU 1/15/12 LCSTP FINAL D
		***		6,915.00	0.00	***				
				6,915.00	0.00	6,915.00				
1203		31608		7,440.50			03/13/12	2086	1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/11/12 LCSTP FI DESIGN
				7,440.50	0.00	14,355.50				
1204		32043		1,366.00			04/12/12	2088	1052	PENNONI ASSOCIATES INC. SERVICES THRU 3/18/12 LOCHWOOD
				1,366.00	0.00	15,721.50				
1205		32450		4,124.25			05/15/12	2090	1052	PENNONI ASSOCIATES INC. SERVICES THRU 4/15/12 LCSTP
				4,124.25	0.00	19,845.75				
1206		32809		7,527.25			06/14/12	2092	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/31/12 TO ACCOMADATE INCREASE IN FLOW TO P
				7,527.25	0.00	27,373.00				
1207		33171		7,009.25			07/11/12	2104	1052	PENNONI ASSOCIATES INC. SERVICE THRU 6/17/12 - LOCHWOOD CHASE PHASE S
				7,009.25	0.00	34,382.25				
1208		33676		3,725.25			08/14/12	2131	1052	PENNONI ASSOCIATES INC. SERVICES THRU 7/15/12 -LOCHWOOD CONSTRUCTION PHASE S
				3,725.25	0.00	38,107.50				
				38,107.50	0.00	38,107.50				
07424-7476	LOCHWOOD	ABANDONMENT	CONSTRUCTION			0.00				
1206		32809		105,473.97			06/14/12	2093	2947	SJM CONSTRUCTION CO. INC. APPLICATION 1 OF CONTRACT
				105,473.97	0.00	105,473.97				

MGRP18 run by BRIAN 8 : 23 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-7476	1207	CD	33171	3,826.04			07/11/12	2101	425	EAST GOSHEN TOWNSHIP REIMBURSE GEN.FUND RE: LOCHWOOD PLANT CLOSING - LABOR COSTS AS O 6/30/12
				42,086.94			07/11/12	2105	2947	SJM CONSTRUCTION CO. INC. APPLICATION #2 - LOCHWOOD CONTRA
			***	45,912.98	0.00	***				
			33173	3,954.36			07/11/12	2106	425	EAST GOSHEN TOWNSHIP REIMBURSE GEN.FUND RE: LOCHWOOD PLANT CLOSING - REGULAR TIME LAB
			33327	15,120.00			07/23/12	2113	800	MACANGA INC. HAUL FILL OUT OF WESTTOWN WAY 18 TONS
			33415	432.00			07/27/12	2116	489	FISHER & SON COMPANY INC 6 BAGS COMMERCIAL SEED MIX
				123.00			07/27/12	2117	61396	HAULER, JACK L. REIMBURSE -1/2 DOG FENCE REPAIR
			***	555.00	0.00	***				
	JE		33635		3,826.04		08/13/12	RECLASS		RECLASS CR.#'S 2101 & 2106 TO LOCHWOOD ELIMINATION PHASE 2
					3,954.36		08/13/12	RECLASS		RECLASS CR.#'S 2101 & 2106 TO LOCHWOOD ELIMINATION PHASE 2
			***	0.00	7,780.40	***				
				65,542.34	7,780.40	163,235.91				
				171,016.31	7,780.40	163,235.91				
07424-7477	LOCHWOOD	ELIMINATION PHASE 2				0.00				
	1206	CD	33040	352.68			06/29/12	2095	765	LENNI ELECTRIC CORPORATION SET UP TEMPORARY PUMP - LOCHWOOD
				450.00			06/29/12	2096	2342	POWERPRO EQUIPMENT 50 HYDRATED WHITE - LOCHWOOD PLA CLOSURE
				4,780.00			06/29/12	2097	550	XYLEM DEWATERING SOLUTIONS INC. (GODWIN) GODWIN SUBMERSIBLE PUMP & CONTRO PANEL, HEAVY DUTY LAYFLAT HOSE
			***	5,582.68	0.00	***				
				5,582.68	0.00	5,582.68				
	1207		33128	42.50			07/05/12	2100	1065	PETTY CASH TOLLS - TO AND FROM GODWIN PUMPS LOCHWOOD ELIMINATION
			33209	123.87			07/13/12	2107	2936	A ANCHOR TOILETS PORTABLE PORTABLE TOILET RENTAL 6/25-7/24
				4,640.85			07/13/12	2108	827	MARTIN LIMESTONE INC. 95.91 TONS MAG LIMESTONE
				390.00			07/13/12	2109	2342	POWERPRO EQUIPMENT 20 2200 M 95 DUST MA, 40 HYDRATE WHITE LI

MGRP18 run by BRIAN 8 : 23 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-7477	1207	CD	33209	1,265.00			07/13/12	2110	1876	RANSOME RENTAL COMPANY LP RENTAL - STANDARD TRACK - 6/20/1 6/25/12
				1,574.61			07/13/12	2111	1161	REILLY & SONS INC 259.4 GALLONS DIESEL - LOCHWOOD
				256.80			07/13/12	2112	550	XYLEM DEWATERING SOLUTIONS INC. (GODWIN) MALE AND FEMALE ADAPTORS, FEMALE CAM & GROOVE & MALE ADAPTOR
			***	8,251.13	0.00	***				
			33327	3,638.00			07/23/12	2114	1876	RANSOME RENTAL COMPANY LP ARTICULATED TRUCK RENTAL 6/26-6/ 6/25/12
				5,941.45			07/23/12	2115	550	XYLEM DEWATERING SOLUTIONS INC. (GODWIN) 3" X 50' HEAVY DUTY LAYFLAT HOSE
			***	9,579.45	0.00	***				
			33415	174.82			07/27/12	2118	638	HOME DEPOT CREDIT SERVICES TARP & SIGNS - LOCHWOOD
				1,985.24			07/27/12	2119	827	MARTIN LIMESTONE INC. 72.56 TONS MAG LIMESTONE BULK
				423.00			07/27/12	2120	1087	PIPE XPRESS INC. 12X20 PE DBL WALL PIPE
				18,797.00			07/27/12	2121	1876	RANSOME RENTAL COMPANY LP D5 STANDARD TRUCK RENTAL 6/25/12 7/23/12
			***	21,380.06	0.00	***				
		JE	33635	3,826.04			08/13/12	RECLASS		RECLASS CR.#'S 2101 & 2106 TO LOCHWOOD ELIMINATION PHASE 2
				3,954.36			08/13/12	RECLASS		RECLASS CR.#'S 2101 & 2106 TO LOCHWOOD ELIMINATION PHASE 2
			***	7,780.40	0.00	***				
				47,033.54	0.00	52,616.22				
1208	CD	33513		384.00			08/03/12	2122	489	FISHER & SON COMPANY INC 8 BAGS BUILDERS MIX/THROW & GROW GRASS SEED
				661.50			08/03/12	2123	1849	HICKS BROTHERS LLC 147 SMALL BALES OF STRAW
				271.15			08/03/12	2124	739	KNOX EQUIPMENT COMPANY TOWABLE STRAW MULCHER RENT 7/23/ 7/23/12
				3,378.00			08/03/12	2125	1876	RANSOME RENTAL COMPANY LP STANDARD TRACK RENTAL 7/2-7/30/1 7/23/12
				1,368.05			08/03/12	2126	1161	REILLY & SONS INC 186.8 GALLONS DIESEL
			***	6,062.70	0.00	***				
			33667	675.00			08/14/12	2127	827	MARTIN LIMESTONE INC. 48.18 TONS AASHTO #1
			33676	43,397.75			08/14/12	2129	425	EAST GOSHEN TOWNSHIP REIMBURSE GEN.FUND RE: LOCHWOOD PLANT CLOSING - LABOR COSTS AS O 8/12/12
			33827	381.82			08/22/12	2132	598	HANSON AGGREGATES PENNSYLVANIA LLC 34.87 TONS STONE

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-7477	1208	CD 33827	123.50			08/22/12	2133	765	LENNI ELECTRIC CORPORATION DISCONNECT FRO STATION SHUTDOWN
		***	505.32	0.00	***				
		33946	1,148.00			08/31/12	2134	1876	RANSOME RENTAL COMPANY LP BULL DOZER RENTAL 7/18-7/30/12
			51,788.77	0.00	104,404.99				
			104,404.99	0.00	104,404.99				
07425-1000		MARYDELL PUMP STATION - ENGINEER			0.00				
1203		31608	810.00			03/13/12	2086	1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/11/12 MARYDELL
			810.00	0.00	810.00				
1204		32043	1,422.00			04/12/12	2088	1052	PENNONI ASSOCIATES INC. SERVICES THRU 3/18/12 MARYDELL P
			1,422.00	0.00	2,232.00				
1206		32809	320.50			06/14/12	2092	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/13/12 MARYDELL
			320.50	0.00	2,552.50				
1207		33171	707.25			07/11/12	2104	1052	PENNONI ASSOCIATES INC. SERVICE THRU 6/17/12 - MARYDELL
			707.25	0.00	3,259.75				
1208		33667	1,100.00			08/14/12	2128	1248	SHAINLINE EXCAVATING INC HYDRO EXCAVATOR RENTAL 7/18/12
		33676	2,976.25			08/14/12	2131	1052	PENNONI ASSOCIATES INC. SERVICES THRU 7/15/12 - MARYDELL
			4,076.25	0.00	7,336.00				
			7,336.00	0.00	7,336.00				
07426-1000		HERSHEY MILL STATION - ENGINEER			0.00				
1203		31608	2,336.75			03/13/12	2086	1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/11/12 HERSHEY
			2,336.75	0.00	2,336.75				
1205		32450	2,917.50			05/15/12	2090	1052	PENNONI ASSOCIATES INC. SERVICE THRU 4/15/12 HERSHEY MIL
			2,917.50	0.00	5,254.25				
1206		32809	498.50			06/14/12	2092	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/13/12 HERSHEY MI
		33047	250.00			06/29/12	2099	263	CHESTER COUNTY CONSERVATION DISTRICT PERMIT FEE HM PS PROJECT
			748.50	0.00	6,002.75				

MGRP18 run by BRIAN 8 : 23 AM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07426-1000	1207	CD 33171	4,112.75			07/11/12	2104	1052	PENNONI ASSOCIATES INC. SERVICE THRU 6/17/12 - HERSHEY M
			4,112.75	0.00	10,115.50				
	1208	33676	2,924.25			08/14/12	2131	1052	PENNONI ASSOCIATES INC. SERVICES THRU 7/15/12 - H.MILL
			2,924.25	0.00	13,039.75				
			13,039.75	0.00	13,039.75				
07427-1000		RESERVE PUMP STATION - ENGINEER			0.00				
	1203	31608	605.00			03/13/12	2086	1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/11/12 RESERVE
			605.00	0.00	605.00				
	1204	32043	472.50			04/12/12	2088	1052	PENNONI ASSOCIATES INC. SERVICES THRU 3/18/12 RESERVE PU
			472.50	0.00	1,077.50				
	1205	32450	2,917.50			05/15/12	2090	1052	PENNONI ASSOCIATES INC. SERVICE THRU 4/15/12 RESERVE PS
			2,917.50	0.00	3,995.00				
	1206	33047	250.00			06/29/12	2098	263	CHESTER COUNTY CONSERVATION DISTRICT PERMIT FEE RESERVE PS PROJECT
			250.00	0.00	4,245.00				
	1207	33171	1,062.50			07/11/12	2104	1052	PENNONI ASSOCIATES INC. SERVICE THRU 6/17/12 - RESERVE P STATION
			1,062.50	0.00	5,307.50				
	1208	33676	2,924.25			08/14/12	2131	1052	PENNONI ASSOCIATES INC. SERVICES THRU 7/15/12 - RESERVE
			2,924.25	0.00	8,231.75				
			8,231.75	0.00	8,231.75				
Beg Bal		0.00	397,169.80	444,270.96	-47,101.16				

SEPTEMBER 2012
EAST GOSHEN MUNICIPAL AUTHORITY GOALS

ON-GOING

1. Submit an article for each newsletter.
 - a. Need by 2/8/12 - Kevin - **Completed**
 - b. Need by 5/2/12 –Jack - **Completed**
 - c. Need by 8/1/12 – Dana -**Completed**
 - d. Need by 11/7/12
 - e. February 2013
2. Attend West Goshen Meetings quarterly – more often if needed.
 - a. 1st Quarter (March) – Jack - **Completed**
 - b. 2nd Quarter (June) – Joe – Not completed
 - c. 3rd Quarter (September) – **Dana Completed- Went to August Mtg**
 - d. 4th Quarter (December) - Kevin
3. Respond to capacity requests in 45 days or less.
Goshen Meadows
4. Implement I & I Plan
5. Conduct a sewer facilities tour after RCSTP construction is complete – Have tour in October (need to select a date) **October 20**

PROJECTS

1. Lockwood
 - a. Bid – Bid awarded 2/20 – Contract executed 3/12
 - b. Pipe Installation - Notice to proceed issued 3/20, Pipe work completed. Restoration work in progress. **Pipe Project Closed out 9/5/12**
2. **Abandon Plant** – Treatment pond filled in. Currently pumping down the and filling in the storage lagoon. **Still need to finish filling in ponds and remove structure.**
3. Marydell Pump Station
 - a. Design/Permit – In Progress Submitted HOP to Penn DOT. **HOP Received.**
 - b. Bid
 - c. Pipe Installation
 - d. Abandon Pump Station
4. Hershey Mill Pump Station
 - a. Design/Permit – In Progress **GP5 and CCCD approval letter issued**
 - b. Bid
 - c. Pipe Installation
5. Reserve Pump Station - In Progress
 - a. Design/Permit
 - b. Bid
 - c. Pipe Installation
 - d. Abandon Pump Station

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

September 7, 2012

To: Municipal Authority
From: Mark Miller
Re: August 2012 Monthly Report

Meters: Have been read on a daily basis. The meter for Westtown Way stopped operating; Allied Control was called to make repairs. Allied Control said that the unit was not worth fixing and gave us a quote for a new meter (\$3,460.00). I contacted John Scott from West Goshen who agreed with replacing the meter.

Pumping Stations: Were visited on a routine basis, no problems to report.

C.C. Collection: We did replace several sewer caps during the month and we were notified of one lateral clog which was cleared. The sewer right of ways were mowed and the manholes were inspected between Wilson Drive and Strasburg Road.

R.C. Collection: No problems to report.

R.C. Plant: Routine maintenance was performed during the month.

Lockwood Plant: We are waiting on PECO to turn off power and remove the transformers.

Alarms:

We responded to 17 alarms during the month ranging from generators running to a high level alarm; all alarms were cleared and all stations put back in service.

PA One Calls:

We received 133 PA One calls for the month of August.



MEMORANDUM

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

FROM: Daniel Barbato, P.E.
Authority Engineer

DATE: September 6, 2012

SUBJECT: Engineer's Report

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- No activity this period. We will assist with supporting and reviewing warranty claims, plant troubleshooting, and operations support as requested.

LCSTP Elimination

- The contractor has installed lot pins at two property corners between 920 and 922 Dolphin Drive and submitted as-built plans. All contract work is complete. The contract close-out documents (Contractor's Release and Statement of Surety) have also been submitted. A 2-year Maintenance Bond was provided at the start of the project. The Municipal Authority will verify that the lot pins were set and Pennoni is reviewing the as-built plans submitted by the contractor.
- A final payment request has been submitted, which we have reviewed and forwarded to the Township with a recommendation to make final payment.

Hershey's Mill PS Diversion and Reserve PS Elimination

- We submitted the Reserve PS and the Hershey's Mill PS GP-5 "General Permit for Utility Line Stream Crossing" applications to DEP on June 27 and June 22 respectively. DEP has reviewed the Reserve PS application and has verbally informed us that we need to set up a bog turtle screening by the Army Corps of Engineers (ACOE). We have contacted the ACOE to set up the screening and are awaiting a response. We are still awaiting DEP's review of the Hershey's Mill PS application.
- We received comments from the Chester County Conservation District (CCCD) on the Erosion and Sediment Pollution Control Plan submissions for both projects. We revised the plans and made formal resubmissions to the CCCD. The revised plans were

informally approved by CCCD via e-mail prior to formal resubmission. We are awaiting formal approval.

- We prepared four (4) DRAFT sanitary sewer easement legal descriptions and exhibits for the diversion projects – one (1) for the Hershey’s Mill PS and three (3) for the Reserve PS. The DRAFT documents were forwarded to the Township for review and comment.
- We recommend rock borings be performed along the alignment of both projects prior to bidding to determine if rock will be encountered during the work. Recommended boring locations were previously forwarded to the Township.

Marydell PS Elimination

- We submitted the PennDOT HOP application for the sewer construction, and the permit has been issued. The permit provides for a jack & bore (trenchless) installation across Boot Road and open-cut trenching for the remainder of the work. The Paoli Pike crossing at Saratoga Drive is proposed to occur at night with a full road closure and detour.
- The Pump Station Closure Plan was submitted to DEP on July 31, 2012, and we are awaiting DEP’s review.
- A small additional easement will be required from the shopping center for the proposed sewer, and we will prepare an easement legal description and exhibit if/when the shopping center owner and Township work out terms of the easement.
- Once the easement is obtained and the Pump Station Closure Plan is approved, all third party approvals and permits will be in place, and the project can be put out to bid. We anticipate putting the project out to bid in the winter so that construction can commence in early spring.

Hershey’s Mill Muffin Monster

- We finalized the mechanical and electrical plans and submitted them to DEP for review and approval on August 16, 2012. We requested feedback from DEP within 60 days.
- Once DEP approves the plans, we will coordinate with the Muffin Monster supplier to obtain formal product pricing.

Semi-Annual Sewer System (formerly “CO&A”) Status Report

- We have begun to analyze portable and permanent meter data from January-July 2012 for preparation of the internal semi-annual sewer system status report. This will be the first internal-only report since the semi-annual CO&A submissions to DEP are no longer required. The report format and content is intended to be similar to that in the previous CO&A Reports. We will submit the report to the Township by September 30, 2012.

Commonwealth of Pennsylvania
Department of Environmental Protection
March 6, 2011

Subject: Aquatic Biology Investigation
Case – East Goshen Municipal Authority STP
Ridley Creek
East Goshen Twp, Chester County

To: Steve O’Neil
Environmental Group Manager
Clean Water

Through: Alan Everett
Water Pollution Biologist 3
SE Clean Water

From: Steven Unger
Water Pollution Biologist 2
SE Clean Water

Introduction

On January 25, 2012 an aquatic biology investigation was conducted on Ridley Creek, in East Goshen Township; Chester County (Figure 1). The survey was conducted by the writer, Alan Everett, and, David Wolfinger (Water Quality Specialist). Jesse Goldberg from Miller Environmental, Inc. was also present during the survey. The purpose of the survey was to examine potential impacts to aquatic macroinvertebrates in Ridley Creek associated with East Goshen Municipal Authority STP. This is in response to a recent site visit by Mr. Wolfinger during which treatment plant solids were observed in the wetlands area that the plant discharges to. The Ridley Creek basin in the area is protected as HQ-TSF. Aquatic life uses are impaired due to urban runoff/storm sewers – siltation and water/flow variability pending EPA approval. The impairment is based on a 2011 Instream Comprehensive Evaluation survey. Land use in the watershed (9.6 square miles) consisted of predominantly developed open space and has a calculated % impervious cover of 6.9% (National Land Cover Database Zone 60 Imperviousness, USGS 2006) (Table 1). Surficial materials in the watershed are predominantly igneous and metamorphic rock types, specifically felsic and mafic gneiss.

Methods

East Goshen discharges its treatment plant effluent into a wetland via 5 pipes. Flow through the wetland has become partially channelized and seems directed into a single main channel that discharges into Ridley Creek (Figure 2). Aquatic life protection is first applied where the wetland discharges into Ridley Creek. Two macroinvertebrate stations were examined: STA1 was located on the Ridley Creek approximately 250 feet upstream of the main wetland channel that discharges into it, and STA2 was located approximately 1150 feet downstream of the

channel (Figure 1). At each station field water quality parameters consisting of temperature, pH, dissolved oxygen, and specific conductance were recorded (Table 2) and a grab sample for lab analysis was taken (Table 3). Also, a habitat assessment was conducted (Table 4) and riffle streambed substrates were visually characterized. Benthic macroinvertebrate samples were collected at each station in accordance with the PADEP RBP qualitative method compiling 4 - 800 to 900micron kick nets and rock picks in a 100m reach and recording relative abundances of macroinvertebrate taxa in the field. A representative macroinvertebrate sample from each station was preserved in 70% ethanol for laboratory identification (Table 5). Field water quality and grab samples for lab analysis were also taken from one of the outfall pipes and in the wetland channel just prior to discharge into the Ridley Creek.

Results

STA1: Ridley Creek

N 39° 59' 04.6"

W 75° 31' 27.8"

STA1 was selected as an upstream reference station (Figure 1 and 3). Above the wetland discharge channel, the Ridley Creek splits forming a slow moving, lower gradient, wide meander with about 60% of the flow, and a straighter, faster flowing, slightly higher gradient channel with about 40% of the flow. STA1 was located on the faster flowing channel which is the first location upstream that riffle substrates were found. STA1 riffle substrates were characterized as 0% boulder, 5% cobble, 60% gravel, 10% sand/silt, and 25% clay. Dissolved oxygen was slightly higher at STA1 than STA2 based on field chemistry (Table 2). Other field chemistry parameters were similar at both stations. Results from samples sent to the lab were also similar at both stations with elevated levels of nutrients noted (Table 3). The macroinvertebrate community consisted of 20 total taxa, and 9 EPT taxa (Table 5). Common net-spinning caddisflies of the genus *Ceratopsycyche* were very abundant and the dominant taxa. Sensitive taxa with Hilsenhoff scores between 0-3 identified in this sample were the flatheaded mayfly *Maccaffertium* (rare), the saddlecase maker caddisfly *Glossosoma* (present), the uenoid case maker caddisfly *Neophylax* (present), and the crane fly *Antocha* (rare). Red midges, worms, and leeches, having high organic pollution tolerance levels, were rare. The habitat assessment score at STA1 was lower than STA2 (Table 4). This was mostly due to a less diverse velocity/flow regime and marginal instream cover and epifaunal substrate scores. Substrate at both stations were embedded.

STA2: Ridley Creek

N 39° 58' 59.0"

W 75° 31' 13.6"

STA2 was selected as a potential area of impact downstream from the treatment plant (Figure 1 and 4). A small breached dam was observed approximately 300m downstream of the wetland channel. The stream between the wetland channel and the dam was a low gradient smooth glide with fairly low banks and a large floodplain, associated with aggraded sediments behind the dam. STA2 was located downstream of the dam on the first riffle substrate available. Riffle substrates were characterized as 5% boulder, 35% cobble, 45% gravel, 15% sand/silt, and 0% clay. The macroinvertebrate community consisted of 30 taxa, and 11 EPT taxa (Table 5). Net-spinning

caddisflies of the genus *Ceratopsyche* and fingernet caddisflies of the genus *Chimarra* were both very abundant and the dominant taxa. Sensitive taxa with Hilsenhoff scores between 0-3 identified in this sample were the mayfly *Maccaffertium* (common), the stoneflies *Prostoia* (rare), *Acroneuria* (present), and *Strophopteryx* (abundant), the riffle beetle *Macronychus* (rare), the caddisfly *Neophylax* (rare), and the crane flies *Antocha* (present) and *Dicranota* (rare). Red midges and sludge worms were rare and leeches and worms were present and common respectively. Better developed riffle and substrates are reflected in the higher habitat score compared to STA1 (Table 4).

Outfall 001 and Wetland Channel

Treatment plant solids were observed interspersed throughout the wetland and collected several inches deep throughout the length of the wetland channel. Also, an area roughly 5 feet long, 3 feet wide, and 2 feet deep of solids was observed hugging the left bank of the Ridley Creek just downstream of the wetlands discharge channel. Macroinvertebrates were sampled from the wetland channel with the kicknet to determine if it was harboring an abundance of sludge worms and red midges which are typical of heavily impacted streams because of the behavioral and physiological adaptations they are capable of. These tolerant taxa were not observed. Field chemistry was similar in the outfall and the wetland channel with lower dissolved oxygen and higher conductivity than the Ridley Creek stations. Lab chemistry results show several things. Both the outfall and wetland channel have higher oxygen demand and also higher solids and mineral levels than the Ridley Creek stations. The higher amounts of aluminum in the outfall and wetland channel are most likely the result of alum use for phosphorus removal at the facility. This is further supported by the corresponding elevated phosphorus levels in in the outfall and wetland. The higher iron level in the wetland channel could be associated with groundwater influence from springs and seeps to the wetland.

Conclusions

1. Results of macroinvertebrate sampling and chemistry are similar at STA1 and STA2 indicating that the treatment plant is not further degrading aquatic life in Ridley Creek.
2. Lab and field chemistry results suggest a wetland that is being influenced by groundwater flows and highly digested treatment plant solids and alum floc accumulation creating a possible nuisance in the wetland, wetland channel, and the Ridley Creek in the vicinity of the wetland channel discharge.
3. Lack of habitat availability and other geomorphological characteristics in the Ridley Creek in the immediate vicinity of the wetland channel discharge make it difficult to assess potential impacts from the treatment plant to the area where the permit was designed to first protect.

Recommendation

1. It is the writer's understanding that a wetland discharge was originally designed as a polishing step to further protect Ridley Creek, a high quality stream. The wetland channel currently limits benefit of a wetland discharge by shortening wetland residence time. The Authority should investigate wetland conditions when the treatment plant originally came online and consider restoration of the original wetland contours.

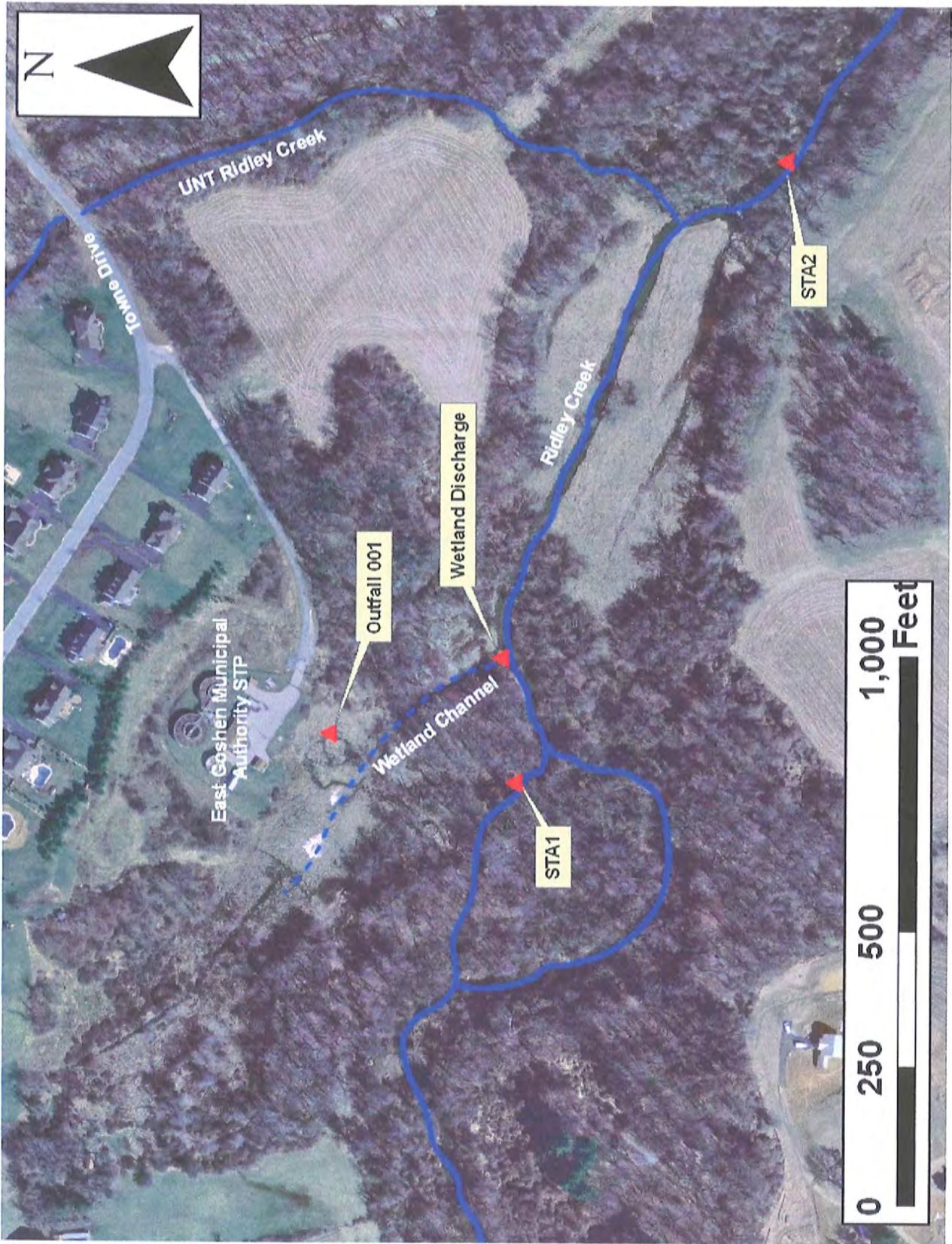


Figure 1. DVRPC 2005 Orthophoto showing the aquatic biology stations



Figure 2: Wetland Channel



Figure 3: Station 1



Figure 4: Station 2

Table 1. STA3 Watershed Percent Land Use and Impervious Cover.

Open water	0.1
Developed, open space	33.5
Developed, low intensity	9.4
Developed, medium intensity	3.2
Developed, high intensity	0.2
Deciduous forest	23.5
Evergreen forest	0.4
Mixed forest	1.5
Shrub/scrub	7.2
Grassland/herbaceous	0.4
Pasture/hay	13.5
Cultivated crops	5.4
Woody wetlands	1.7
Total	100.0
% Impervious Landcover	6.9

Table 2. Field chemistry

Field Chemistry	Units	Station 1	Station 2	Outfall 001	Wetland
Date		1/25/2012	1/25/2012	1/25/2012	1/25/2012
Time		1300hr	1130hr	1040hr	1100hr
Temperature	°C	6.11	5.56	13.13	11.72
Dissolved Oxygen	mg/l	16.20	14.60	9.96	9.04
DO % Saturation	%	130.5	116.1	95.2	83.5
pH	s.u.	7.68	7.28	6.77	6.93
Sp. Conductivity	usem/cm	445	423	725	671

Table 3. Lab chemistry

Lab Chemistry	Units	Outfall 001	Wetland	STA1	STA2
Date		1/25/2012	1/25/2012	1/25/2012	1/25/2012
Time		1030hr	1100hr	1300hr	1130hr
BOD	mg/l	4.1	8.0	1.6	1.4
COD	mg/l	43.2	58.2	13.8	20.0
Alkalinity	mg/l	117.2	11.4	49.2	51.4
Total Residue	mg/l	452	474	274	266
Suspended Solids	mg/l	24	72	8	8
Settable Solids	mg/l	<0.2	0.3	<.2	<.2
TDS	mg/l	442	416	202	240
Turbidity	NTU	8.97	19.41	2.91	2.89
Total Nitrogen	mg/l	3.56	4.10	3.14	3.28
Ammonia	mg/l	0.08	0.15	0.13	0.16
Nitrite	mg/l	<.01	<.01	0.02	0.02
Nitrate	mg/l	1.78	1.70	2.98	2.87
Phosphorus	mg/l	0.677	1.206	0.166	0.147
Hardness	mg/l	153	155	106	105
Calcium	mg/l	38.8	39.0	22.3	22.4
Magnesium	mg/l	13.6	14.0	12.1	11.9

Chloride	mg/l	117.7	108.8	88.8	86.8
Sulfate	mg/l	55.63	53.85	16.61	16.69
Cadmium	ug/l	<0.2	<0.2	<0.2	<0.2
Chromium	ug/l	<4	<4	<4	<4
Copper	ug/l	22	36	<10	<10
Iron	ug/l	68	1320	249	252
Lead	ug/l	<1.0	1.4	<1.0	<1.0
Manganese	ug/l	19	59	47	52
Nickel	ug/l	<50	<50	<50	<50
Zinc	ug/l	89	92	<10	<10
Aluminum	ug/l	842	2140	<200	<200
Mercury	ug/l	<.2	<.2	<.2	<.2
Fecal Coliform	cfu/100ml	<20	180	40	160

Table 4. EPA Rapid Bioassessment Protocols for Use in Wadeable Streams and Rivers Second Edition Habitat Assessment Scores

Habitat Parameter	STA1	STA2
Instream Cover (Fish)	8	15
Epifaunal Substrate	7	12
Embeddedness	8	8
Velocity/Depth Regimes	11	17
Channel Alteration	18	15
Sediment Deposition	10	8
Frequency of Riffles	11	15
Channel Flow Status	15	18
Condition of Banks	10	12
Bank Vegetative Protection	15	17
Grazing or other Disruptive Pressure	18	14
Riparian Vegetative Zone Width	18	15
Total Score	149	166

Optimal: 20-16

Marginal: 10-6

Suboptimal: 15-11

Poor: 5-0

Table 5. Macroinvertebrate Taxa List for East Goshen Municipal Authority STP Cause/Effect Survey

Taxa	Organic Pollution Tolerance	Functional Feeding Group	STA1	STA2
Hirudinea (leeches)				
Hirudinea	8	PR	R	P
Oligochaeta (worms)				
Oligochaeta	8	CG	R	C
Planariidae (flat worms)				
Planariidae	7	PR	P	R
Tubificidae (sludge worms)				
Tubificidae	10	CG		R

Physidae (physid snails)				
Physidae	8	SC		R
Corbiculidae (asian clams)				
<i>Corbicula</i>	4	FC	R	C
Asellidae (sowbugs)				
<i>Caecidotea</i>	6	CG		R
Crangonyctidae (scuds)				
<i>Crangonyx</i>	4	CG	R	C
Baetidae (small minnow mayflies)				
<i>Baetis</i>	6	CG	R	R
Heptageniidae (flatheaded mayflies)				
<i>Maccaffertium</i>	3	SC	R	C
Gomphidae (clubtail dragonflies)				
<i>Stylogomphus</i>	4	PR		R
Nemouridae (nemourid stoneflies)				
<i>Prostoia</i>	2	SH		R
Perlidae (common stoneflies)				
<i>Acroneuria</i>	0	PR		P
Taeniopterygidae (winter stoneflies)				
<i>Strophopteryx</i>	3	SH		A
Elmidae (riffle beetles)				
<i>Macronychus</i>	2	SC		R
<i>Optioservus</i>	4	SC	P	P
<i>Stenelmis</i>	5	SC		P
Psephenidae (water pennies)				
<i>Psephenus</i>	4	SC		A
Glossosomatidae (saddlecase maker caddisflies)				
<i>Glossosoma</i>	0	SC	P	
Hydropsychidae (common netspinner caddisflies)				
<i>Cheumatopsyche</i>	6	FC	P	A
<i>Ceratopsyche</i>	5	FC	VA	VA
<i>Hydropsyche</i>	6	FC	P	A
Hydroptilidae (micro caddisflies)				
<i>Leucotrichia</i>	6	SC	R	R
Philopotamidae (fingernet caddisflies)				
<i>Chimarra</i>	4	FC	A	VA
Uenoidae (uenoid case maker caddisflies)				
<i>Neophylax</i>	3	SC	P	R
Chironomidae (non-biting midges)				
Chironomidae	6	CG	A	A
Chironomidae (red)		CG	R	R
Simuliidae (black flies)				
<i>Simulium</i>	6	FC	A	A
Tipulidae (crane flies)				
<i>Antocha</i>	3	CG	R	P
<i>Dicranota</i>	3	PR		R
<i>Tipula</i>	4	SH	C	P
EPT taxa			9	11
Total taxa			20	30

Relative Abundance, where :

R = rare (<3)

P = present (3-9/kick)

C = common (10-24)

A = abundant (25-100)

VA = very abundant (>100)

Functional Feeding Group, where :

SH = shredder

FC = filter/collector

CG = collector/gatherer

SC = scraper

PR = predator

BIG FISH ENVIRONMENTAL SERVICES, INC.

August 2012 - Ridley Creek Treatment Plant Operations Report

Treatment Process Operation

Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during the month of August. SBR No. 2 remains out of service with a proximately a mixture of 1 foot of sludge and rainwater within the tank. Transfer of the contents of SBR 2 is planned during September.

During July, there was a total three (3) exceedances of the final effluent discharge limitations for total phosphorus. Two (2) exceedances were reported for outfall 011 and one (1) for outfall 002 (Applebrook). Available final effluent total phosphorus concentrations for samples collected during August exceed the effluent discharge limitation.

Adjustments to the SBR process during August include increasing the mixed liquor concentration (MLSS), increasing the sludge age and decreasing the food to mass ratio (F:M ratio). The objective of the process adjustments is to restore biological phosphorus removal and prepare for the autumn and winter operations. Grab samples from the final effluent flow equalization basin and final effluent discharge were routinely analyzed (daily Monday through Friday) for pH, alkalinity and total phosphorus was implemented for the final effluent flow equalization basin and final effluent discharge. The data is presented graphically in the following figures 1, 2 and 3.

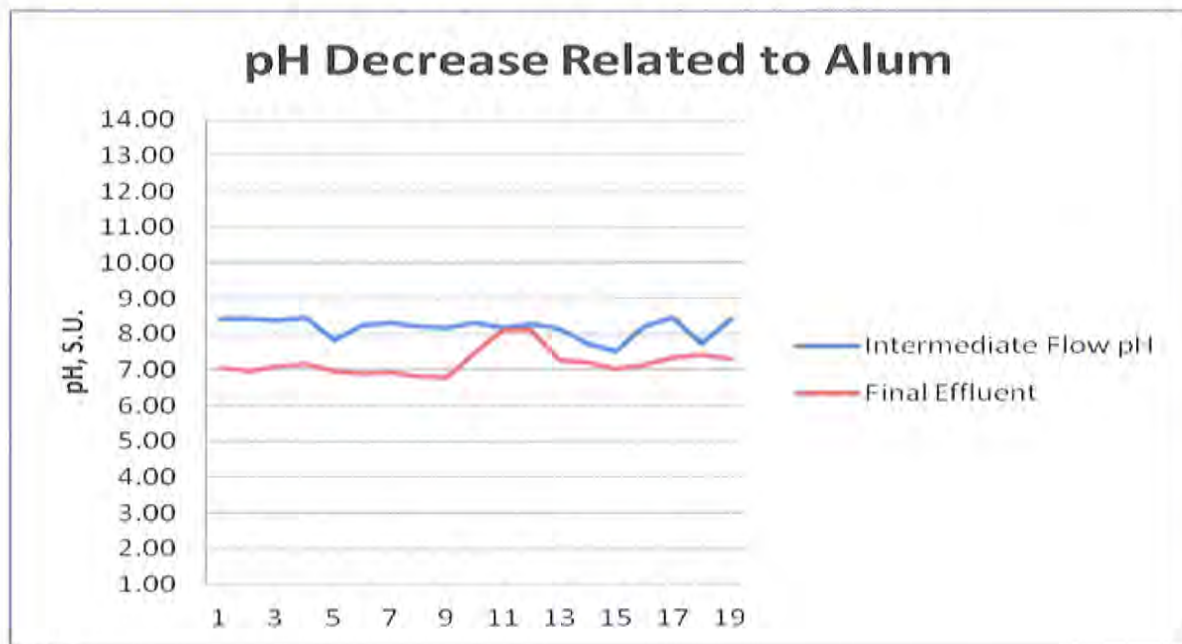


Figure 1

BIG FISH ENVIRONMENTAL SERVICES, INC.

August 2012 - Ridley Creek Treatment Plant Operations Report

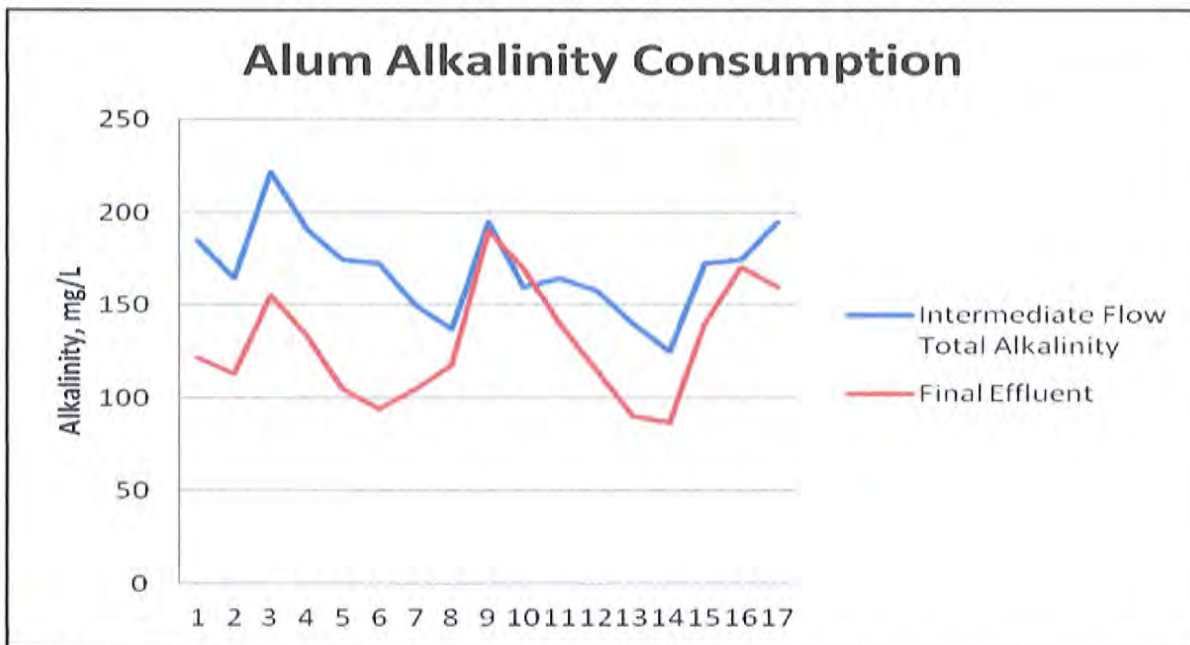


Figure 2

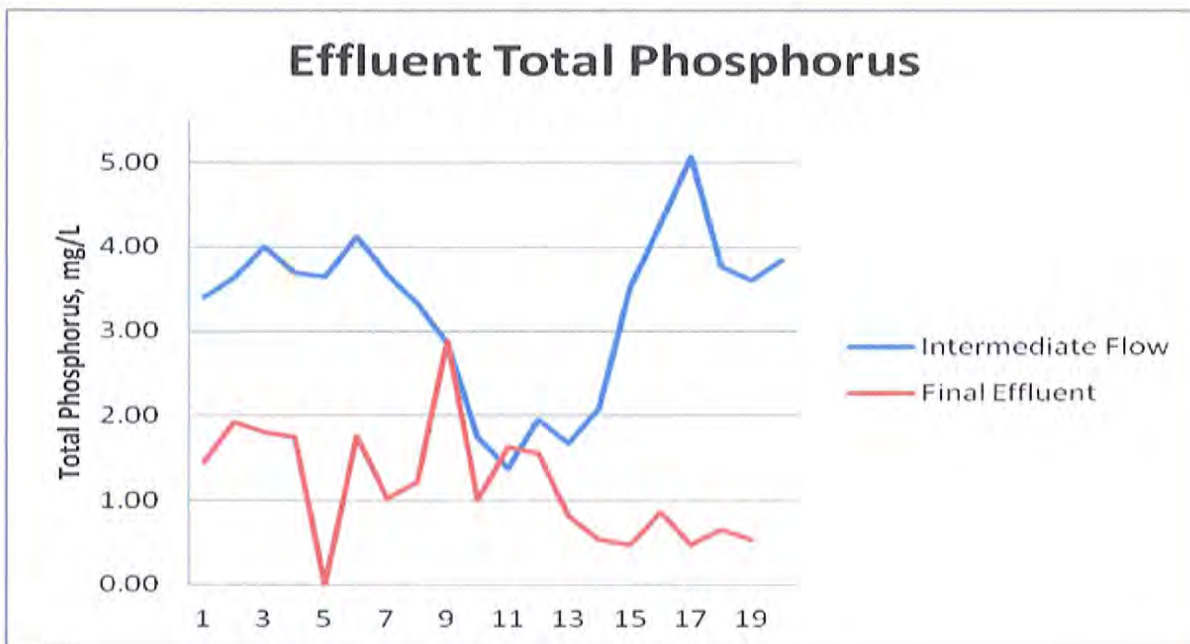


Figure 3

The process adjustments indicate the final effluent total phosphorus concentration was trending downward towards the discharge limitation concentration. Daily process monitoring of the final effluent and SBRs will continue to monitor improvement towards achieving consistent total phosphorus concentrations compliant with the discharge limitation.

BIG FISH ENVIRONMENTAL SERVICES, INC.

August 2012 - Ridley Creek Treatment Plant Operations Report

Presented below is a summary of the flow data for July and August 2012:

Flow data:

Flow Meter Location	July 2012		August 2012	
	Total Volume for Month, MGD	Average Daily Flow, gpd	Total Volume for Month, MGD	Average Daily Flow, gpd
Influent Wastewater	9.704	313,027	10.558	340,586
Treated Effluent to Disc Filters	8.309	268,025	8.691	280,353
Final Effluent Discharge	7.013	124,742	4.067	131,194
Applebrook Golf Course	2.189	70,608	2.178	70,262

Chemical Usage: July 2012

Chemical	Daily Average	Total Monthly
Soda Ash	161 lbs./day	5,000 pounds
Magnesium Hydroxide	10.6 gpd	330 gallons
Alum	45.5 gpd	1,409 gallons
Polymer (centrifuge)	na	35 gallons

Solids Dewatering and Disposal

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

August Sludge Dewatering Summary	
Gallons of sludge dewatered	228,000 gallons
Average Dewatered Total Solids, %	17.6
Wet Tons	Na Tons*
Dry Tons	Na Tons*
Number of dumpsters	3

*Data was not available at the time of report preparation

During the month, sludge wasting and decanting of the sludge holding tanks was ongoing. A total volume of 103,425 gallons of supernatant was decanted from the sludge holding tanks. pH and alkalinity were monitored on average twice per week and total solids once per week.

Sludge holding tank No. 1 began the month as 0.90 % total solids and ended the month at 0.66% total solids. Tank level at the beginning of the month was 10.72 ft and at the end of the month was 4.52 ft.

BIG FISH ENVIRONMENTAL SERVICES, INC.

August 2012 - Ridley Creek Treatment Plant Operations Report

Sludge holding tank No. 2 began the month as 0.87% total solids and ended the month at 1.08% total solids. Tank level at the beginning of the month was 11.22 ft and at the end of the month was 14.56 ft.

Maintenance, Repairs and Warranty

Outstanding: Centrifuge replacement parts – Worth & Co. to replace parts used for warranty repair

ACTION: BFESI will provide Worth & Company a letter requesting resolution of the matter on or before October 1, 2012.

Outstanding: SBR and Centrifuge MCC panel hour meters – Worth & Co. informed

ACTION: Pennoni Associates/Township to provide Worth & Company a copy of the short circuit study completed by Clinger Corporation.

Outstanding: Screen Building overhead door.

ACTION: Worth and Company will be contacted to investigate the malfunctioning door.

Scheduled Maintenance/Repairs

Tightened the drive belts for SBR No. 1 blower.

Removed the intake exhaust screen and tightened the belt for the SBR blower room exhaust fan.

Replaced the dissolved oxygen probe on SBR No. 4 with the dissolved oxygen probe from SBR No. 2

Flushed the chemical feed piping from chemical feed pumps MP-33 and MP 34 to SBRs 1, 3 and 4.

Repaired broken utility water supply piping to the fine screen

DRAFT REPORT

Ridley Creek Sewage Treatment Plant Monthly Operations Report

Design Basis	Flow MGD Average	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
Sample Date		335	2,098	320	2,001	32	200	48	301	9.1	57
August 2, 2012	0.2692	1180	2,649	710	1,594	43.2	97	115	258	35.6	80
August 9, 2012	0.2753	278	638	208	478	34.3	79	35.9	82	6.2	14
August 16, 2012	0.2297	747	1,431	305	584			56.9	109	11.5	22
August 23, 2012	0.3594	309	926	56	168						
August 30, 2012	0.3075										
Average	0.2882	629	1411	320	706	39	88	69	150	18	39
Minimum	0.2297	278	638	56	168	34	79	36	82	6	14
Maximum	0.3594	1180	2649	710	1594	43	97	115	258	36	80

Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow MGD Average 0.75 Instantaneous Maximum	CBOD ₅		TSS		NH ₄ -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		20	125	21	131	7	44	0.5	3	200	1,000
August 2, 2012	0.100	2.0	1.7	20	17	0.10	0.08	1.10	0.92	1	0.0000
August 9, 2012	0.104	2.0	1.7	42	36	0.10	0.09	2.30	1.99	1	0.0000
August 16, 2012	0.123	3.3	3.4	39	40			2.20	2.26	1	0.0000
August 23, 2012	0.164	2.2	3.0	11	15					1	0.0000
August 30, 2012	0.1050										
Average	0.1192	2.4	2	28	27	0.100	0.09	1.87	1.72	1	0.0000
Minimum	0.1000	2.0	2	11	15	0.100	0.08	1.10	0.92	1	0.0000
Maximum	0.1640	3.3	3	42	40	0.100	0.09	2.30	2.26	1	0.0000

**SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING**

Facility Name: Ridley Creek Sewage Treatment Plant
Municipality: East Goshen Municipal Authority County: Chester
Watershed: 3-G
Laboratories: ALS Environmental

Month: 7 (select number) Year: 2012
Permit No.: PA0050504 Outfall: 002
Renewal application due 180 days prior to expiration.
This permit will expire on: February 28, 2017

Week	Day	Parameter Stage	Date	Flow		pH	Dissolved Oxygen		CBOD5		TSS		Fecal Coliform		NH3-N		Total Phosphorus		
				MGD	1		mg/L	1	mg/L	1	mg/L	1	mg/L	1	mg/L	1	CFU/100 ml		
1	Sun	7/1/12	0.05281		7.71	7.96													
	Mon	7/2/12	0.054708		8.11	7.71													
	Tue	7/3/12	0.075354		7.83	7.94													
	Wed	7/4/12	0.05778		7.66	7.91													
	Thu	7/5/12	0.078964		7.24	8.43					13				0.231			1.10	
	Fri	7/6/12	0.076646		7.34	8.18													
	Sat	7/7/12	0.070582		7.50	8.18													
2	Sun	7/8/12	0.05399		7.69	8.28													
	Mon	7/9/12	0.070994		7.84	8.34													
	Tue	7/10/12	0.073714		7.99	8.65													
	Wed	7/11/12	0.072438		8.03	8.46													
	Thu	7/12/12	0.070652		8.10	7.89													
	Fri	7/13/12	0.064476		8.01	8.55													
	Sat	7/14/12	0.093106		7.86	8.77													
3	Sun	7/15/12	0.06725		7.98	8.41													
	Mon	7/16/12	0.07323		7.94	8.29													
	Tue	7/17/12	0.072958		7.99	7.66													
	Wed	7/18/12	0.076636		7.96	7.57													
	Thu	7/19/12	0.06995		7.92	7.82													
	Fri	7/20/12	0.07368		8.03	7.97													
	Sat	7/21/12	0.086078		7.90	8.76													
4	Sun	7/22/12	0.05891		8.15	8.48													
	Mon	7/23/12	0.07069		8.03	8.09													
	Tue	7/24/12	0.074028		8.01	8.27													
	Wed	7/25/12	0.0742		8.12	8.49													
	Thu	7/26/12	0.06144		8.06	7.86													
	Fri	7/27/12	0.057378		7.87	7.03													
	Sat	7/28/12	0.07219		6.89	8.24													
5	Sun	7/29/12	0.07787		7.10	7.78													
	Mon	7/30/12	0.073062		7.04	8.36													
	Tue	7/31/12	0.073076		7.08	8.04													

SOURCES: WQIMR
Daily Minimum (Conc.): 6.89
Daily Maximum (Conc.): 8.15
Max Avg Weekly (Conc.): 8.42
Avg Monthly (Conc.): 8.14
Geometric Mean (Conc.): 5
Max Avg Weekly (Load): 0.074254
Avg Monthly (Load): 0.070608
Total Monthly (Load): 2.189838
Daily Minimum (Load): 0.05281
Daily Maximum (Load): 0.093106

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).

Prepared By: Scott A. Towler License No.: T0390
Title: Plant Operator Date: 20-Aug-12

FINAL REPORT

Ridley Creek Sewage Treatment Plant Monthly Operations Report

Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
Sample date	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
July 5, 2012	0.3355	162	453	84	235	36.5	102	51.9	145	4.7	13
July 12, 2012	0.3159	237	624	328	864	28.4	75	35.6	94	4.7	12
July 19, 2012	0.3105	715	1,852	992	2,569	36	93	55.3	143	10.8	28
July 26, 2012	0.2926	587	1,432	542	1,323	3.92	10	62.9	153	8.2	20
Average	0.3136	425	1090	487	1248	26	70	51	134	7	18
Minimum	0.2926	162	453	84	235	4	10	36	94	5	12
Maximum	0.3355	715	1852	992	2569	37	102	63	153	11	28

Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -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	MGD Average	20	125	21	131	7	44	0.5	3	200	1,000
July 5, 2012	0.145	2.0	2.4	13	6	0.23	0.12	1.10	0.12	1	0.0000
July 12, 2012	0.108	2.0	1.8	5	5	0.10	0.09	3.40	0.09	1	0.0000
July 19, 2012	0.125	2.0	2.1	5	5	0.10	0.10	3.70	0.10	1	0.0000
July 26, 2012	0.128	2.0	2.1	5	5	0.10	0.11	4.10	0.11	1	0.0000
Average	0.1265	2.0	2	7	5	0.133	0.11	3.08	0.11	1	0.0000
Minimum	0.1080	2.0	2	5	5	0.100	0.09	1.10	0.09	1	0.0000
Maximum	0.1450	2.0	2	13	6	0.230	0.12	4.10	0.12	1	0.0000

**SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING**

Facility Name: Ridley Creek Sewage Treatment Plant
 Municipality: East Goshen Municipal Authority County: Chester
 Watershed: 3-G
 Laboratories: ALS Environmental

Month: 7 (select number) Year: 2012
 Permit No.: PA0050504 Outfall: 001
 Renewal application due 180 days prior to expiration.
 This permit will expire on: February 28, 2017

Week	Day	Parameter Stage	Date	Flow	pH	Dissolved Oxygen	CBOD5	BOD5	TSS	TSS	Fecal Coliform	NH3-N	Total Phosphorus
				1 MGD	1 S.U.	1 mg/L	1 mg/L	RI	1 mg/L	1 mg/L	1 CFU/100 ml	1 mg/L	1 mg/L
1	Sun		7/1/12	0.124	7.71	7.96							
	Mon		7/2/12	0.118	8.11	7.71							
	Tue		7/3/12	0.095	7.83	7.94							
	Wed		7/4/12	0.135	7.66	7.91							
	Thu		7/5/12	0.145	7.24	8.43	< 2.0	162	13	84	< 1	0.231	1.10
	Fri		7/6/12	0.09	7.34	8.18							
	Sat		7/7/12	0.098	7.50	8.18							
2	Sun		7/8/12	0.105	7.69	8.28							
	Mon		7/9/12	0.146	7.84	8.34							
	Tue		7/10/12	0.107	7.99	8.65							
	Wed		7/11/12	0.111	8.03	8.46							
	Thu		7/12/12	0.108	8.10	7.89	< 2.0	237	5	328	< 1	0.100	3.40
	Fri		7/13/12	0.142	8.01	8.55							
	Sat		7/14/12	0.198	7.86	8.77							
3	Sun		7/15/12	0.12	7.98	8.41							
	Mon		7/16/12	0.104	7.94	8.29							
	Tue		7/17/12	0.106	7.99	7.66							
	Wed		7/18/12	0.119	7.96	7.57							
	Thu		7/19/12	0.125	7.92	7.82	< 2.0	715	5	992	< 1	0.100	3.70
	Fri		7/20/12	0.193	8.03	7.97							
	Sat		7/21/12	0.147	7.90	8.76							
4	Sun		7/22/12	0.089	8.15	8.48							
	Mon		7/23/12	0.131	8.03	8.09							
	Tue		7/24/12	0.104	8.01	8.27							
	Wed		7/25/12	0.107	8.12	8.49							
	Thu		7/26/12	0.128	8.06	7.66	< 2.0	567	5	542	< 1	0.100	4.10
	Fri		7/27/12	0.166	7.87	7.03							
	Sat		7/28/12	0.152	6.89	8.24							
5	Sun		7/29/12	0.141	7.10	7.78							
	Mon		7/30/12	0.113	7.04	8.36							
	Tue		7/31/12	0.1	7.08	8.04							

Statistics for QWR

Daily Minimum (Conc.):	6.89	7.03	< 2	162	< 5	###	< 1	< 0.1	1.1
Daily Maximum (Conc.):	8.15	8.77	< 2	715	< 13	###	< 1	< 0.231	4.1
Max Avg Weekly (Conc.):	8.42	8.42	< 2	715	< 13	###	< 1	< 0.2	4.1
Avg Monthly (Conc.):	8.14	8.14	< 2	425	< 7		< 1	< 0.133	3.1
Geometric Mean (Conc.):		8	< 2	745	< 16		< 1	< 0.3	4
Max Avg Weekly Load:	0.125	263	< 65	445	< 8		< 1	< 0.1	3.2
Avg Monthly Load:	3.867	263	< 65	13806	< 239		< 1	< 4	97.9
Total Monthly Load:	0.089	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
Daily Minimum (Load):	0.198	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
Daily Maximum (Load):		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

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).

Prepared By: Scott A. Towler License No.: T0390
 Title: Plant Operator Date: 20-Aug-12



August 22, 2012

Dave Wolfinger
Water Quality Specialist
Pennsylvania Department of Environmental Protection
2 East Main Street
Norristown, PA 19401

**Re: East Goshen Township Municipal Authority
NPDES Permit No. PA – July 2012 DMR**

Dear Mr. Wolfinger:

The Ridley Creek sewage treatment plant sequencing batch reactor activated sludge process is currently utilizing 3 of the 4 SBR basins. A medium brown colored foam has accumulated on the surface of the SBRs. Although the foam is present, no adverse impacts to mixed liquor suspended solids (MLSS) settleability or solids loss through the effluent is present. The foam contains the filamentous bacteria *Microthrix parvicella*. This filamentous bacterium thrives within activated sludge environments possessing a long sludge age and low food to mass ratio.

Utilizing ideal conditions of the SBR performance, operational adjustments were implemented to decrease the presence of the foam. During the last week of June and the month of July, the MLSS concentrations were lowered to reduce the sludge age and increase the food to mass ratio (F:M ratio). These adjustments eliminated favorable conditions for *Microthrix parvicella*. There was a noticeable reduction in foam; however, these adjustments inhibited biological phosphorus removal. On site process control, testing determined the SBR effluent total phosphorus concentration to be greater than the design of 2.0 mg/L. Table 1 illustrates the final effluent concentrations and mass loadings during July.

Sample Date	Influent Flow, gallons	Phosphorus, Total, mg/L	Phosphorus, Total, lbs/day
July 5, 2012	145,000	1.1	1.33
July 12, 2012	108,000	3.4	3.06
July 19, 2012	125,000	3.7	3.86
July 26, 2012	128,000	4.1	4.38



As a comparison to the final effluent, the influent concentrations were observed to fluctuate during June and July, however, the influent mass loadings remained within the facility's design loadings. Table 2 illustrates the influent wastewater concentrations and mass loadings during July.

Sample Date	Influent Flow, gallons	Phosphorus, Total, mg/L	Phosphorus, Total, lbs/day
June 7, 2012	273,888	4.4	10
June 14, 2012	264,320	4.2	9.3
June 21, 2012	260,304	4.4	9.6
June 28, 2012	240,080	18.4	37
July 5, 2012	335,472	4.7	13
July 12, 2012	315,920	4.7	12
July 19, 2012	310,472	10.8	28
July 26, 2012	292,556	8.2	20

Final effluent 24-hour composite and grab samples are collected by a certified laboratory for analysis. Typically, sample results are available 14 days from the date of sample collection. This delay in receiving laboratory data contributed to the delay in response actions to the activated sludge process and aluminum sulfate chemical feed system.

During August, grab samples of the final effluent (Outfall 001) and the final effluent post flow equalization tanks are collected and analyzed on site for total phosphorus using an USEPA acceptable test method. Frequency of analysis ranges from three to five days per week. In addition, spilt samples with the certified laboratory are analyzed on site to assist in developing a correlation between the onsite and certified laboratories.

Initial laboratory reports for the month of August indicate improvement towards reducing the final effluent total phosphorus concentrations; however, there is uncertainty towards achieving the required total phosphorus concentrations for the month of August. The process will be continued to be adjusted and monitored to achieve complete compliance with all discharge parameters.

Should you have any questions, request additional information or clarification, please do not hesitate to contact me. You may contact me through email at scott.towler@comcast.net or by mobile phone at 484-401-4198.



Sincerely,

A handwritten signature in black ink that reads "Scott A. Towler". The signature is fluid and cursive, with a long horizontal stroke extending from the end of the name.

Scott A. Towler, P.E., SEO, LO
Big Fish Environmental services, Inc.

Cc: Rick Smith, East Goshen Township Manager
Mark Miller, East Goshen Township Director of Public Works
Daniel P. Barbato, P.E., Pennoni Associates, Inc.

2008 FLOWMETERS

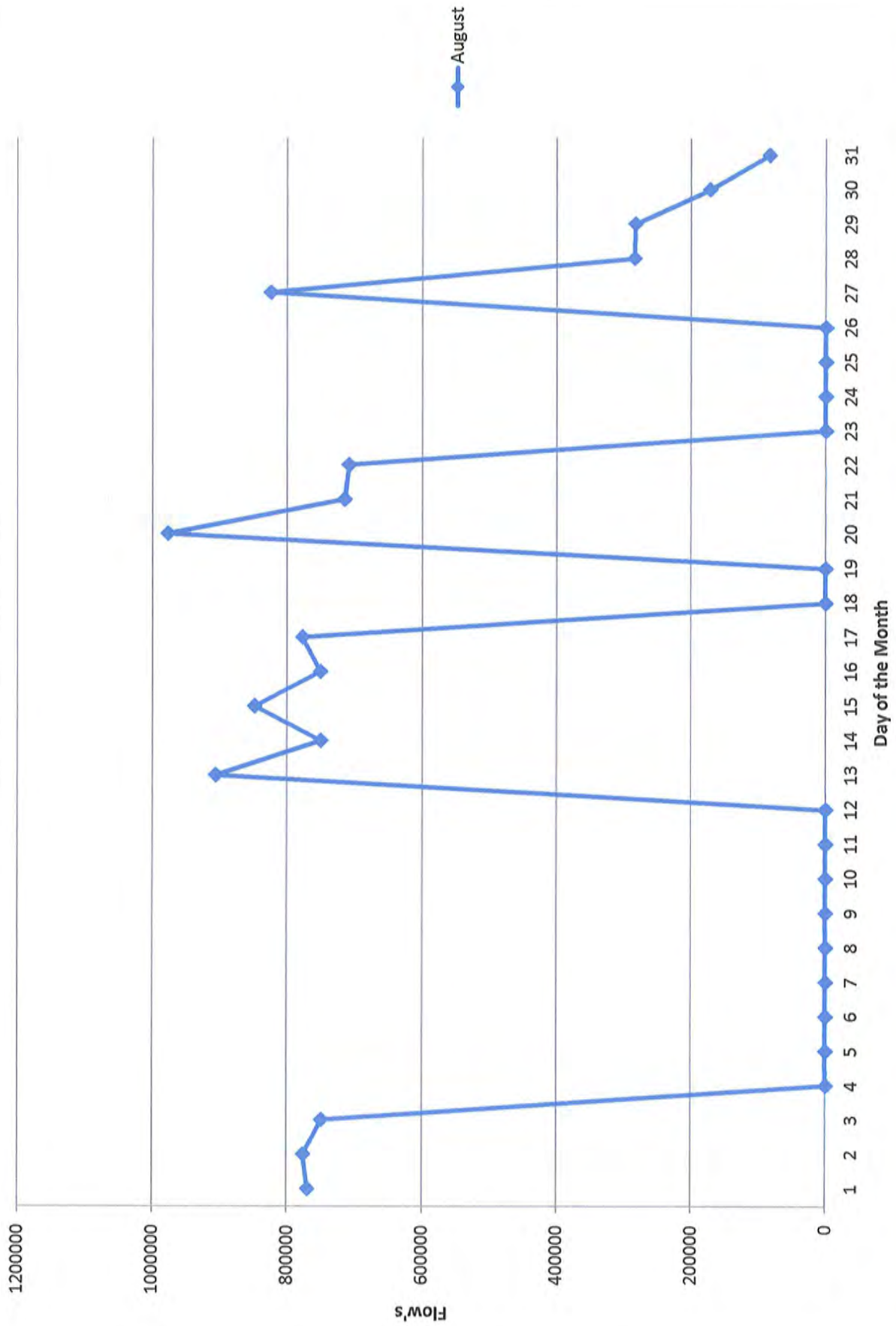
2012 AUGUST 3RD QUARTER- METERS FROM WEST GOSHEN - CC COLLECTION													
DATE	HERSHEY'S MILL		ASHBRIDGE		HICKS METER		RESERVOIR		SHERMAN		BARKWAY		
	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING	GPD	
08/01/12													
08/02/12													
08/03/12													
08/04/12													
08/05/12													
08/06/12													
08/07/12													
08/08/12													
08/09/12													
08/10/12													
08/11/12													
08/12/12													
08/13/12													
08/14/12	24,050,079	60,727	1,482,213	57,242							2,498,301		9,533
08/15/12													
08/16/12													
08/17/12							164,522,061	909,131					
08/18/12													
08/19/12													
08/20/12													
08/21/12													
08/22/12													
08/23/12	24,104,459	60,422	1,487,605	59,911					870,025	6,450	2,507,098		9,774
08/24/12													
08/25/12													
08/26/12													
08/27/12													
08/28/12													
08/29/12													
08/30/12													
		60,575		58,577		0		909,131		6,450			9,654

2012 SUMMARY OF METER READINGS

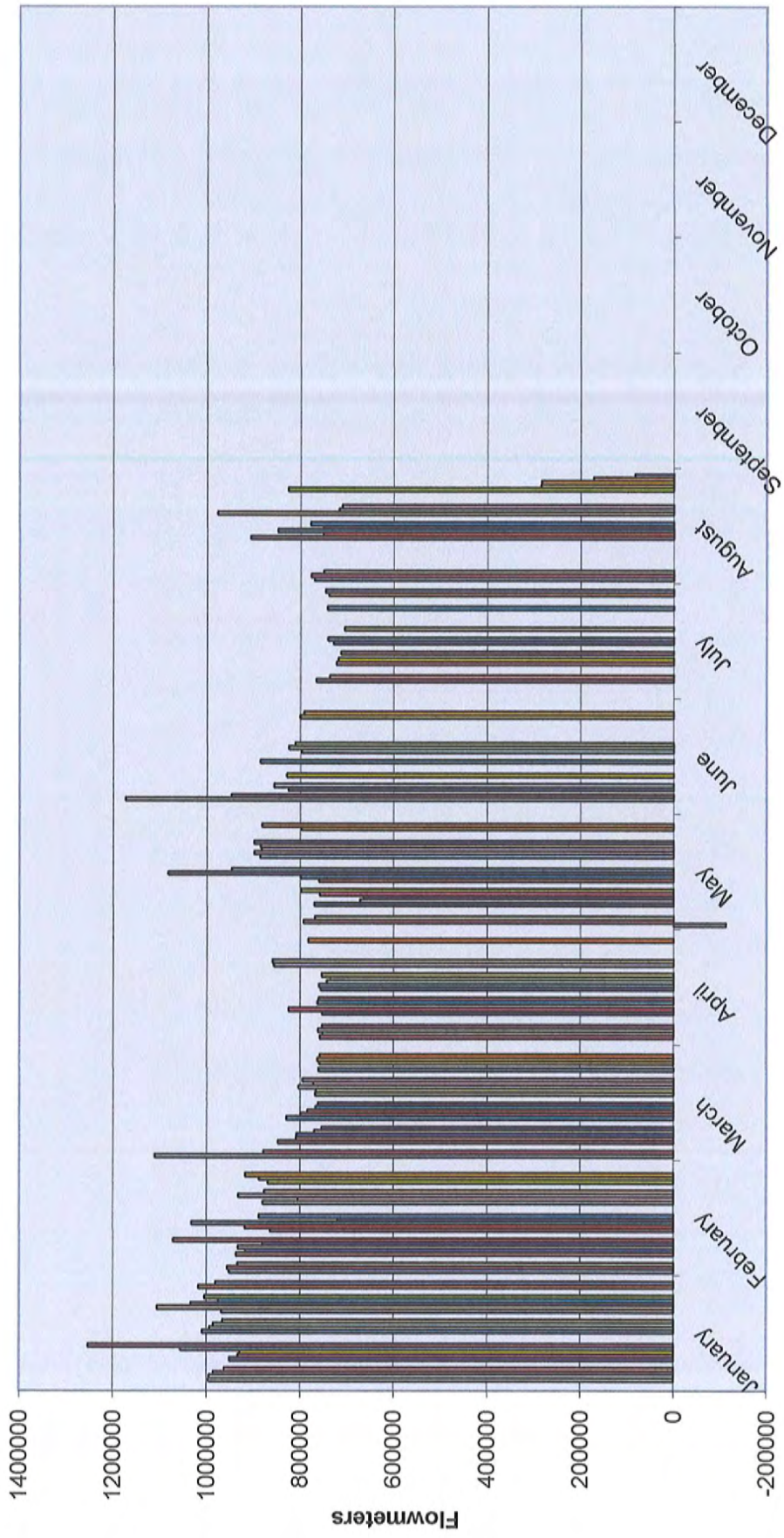
	WESTTOWN WAY	ELLIS LANE	PAOLI PIKE	WILSON DRIVE	SUMMIT	HERSHEY MILL	ASHBRIDGE	HICKS	RESERVOIR	SHERMAN	BARKWAY
JANUARY	1,296,433	152,585	69,729	69,440	20,400	73,086	90,225	67,846	909,322	6,922	12,327
FEBRUARY	1,172,663	140,579	61,074	65,911	20,400	63,555	73,939	295,466	1,019,637	6,561	11,350
MARCH	1,157,405	222,657	61,103	71,039	20,400	60,276	70,943	300,484	0	6,707	8,575
APRIL	1,059,167	186,208	53,353	57,578	20,400	58,987	63,358	285,508	285,613	6,407	10,305
MAY	1,144,546	167,830	63,648	81,622	20,400	55,378	60,690	304,075	652,083	6,354	10,862
JUNE	1,125,246	105,303	62,210	90,570	20,400	70,259	61,597			6,517	10,177
JULY	994,447	122,359	59,212	81,067	20,400	63,421	58,789	0	0	5,317	9,892
AUGUST	835,178	91,496	51,644	79,506	20,400	60,575	58,577	0	909,131	6,450	9,654
SEPTEMBER											
OCTOBER											
NOVEMBER											
DECEMBER											
Total Flows											
Monthly Ave	1,098,136	148,627	60,247	74,592	20,400	63,192	67,265	250,676	755,157	6,404	10,393

To
West Goshen 814,670

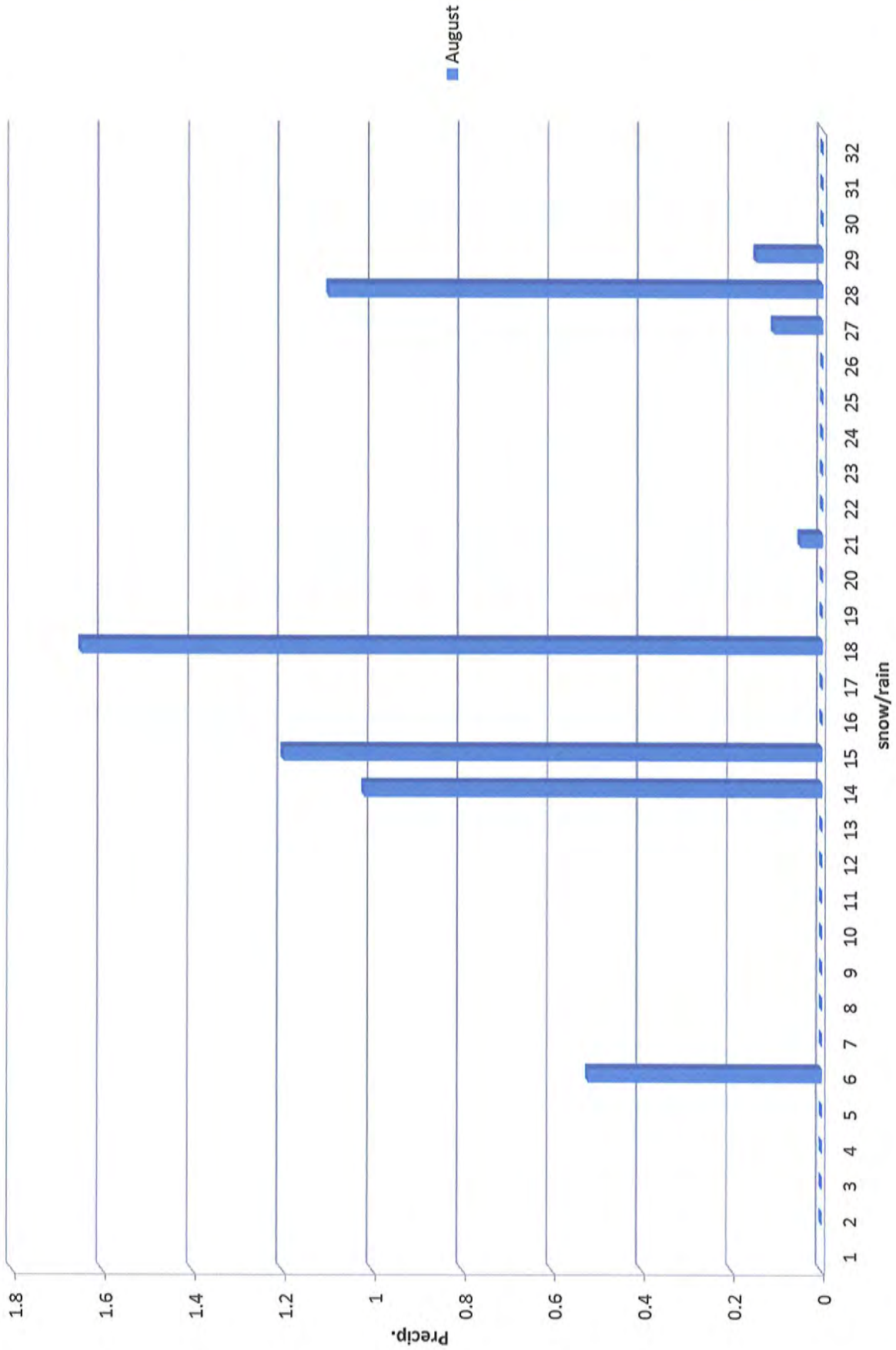
Flowmeters August 2012



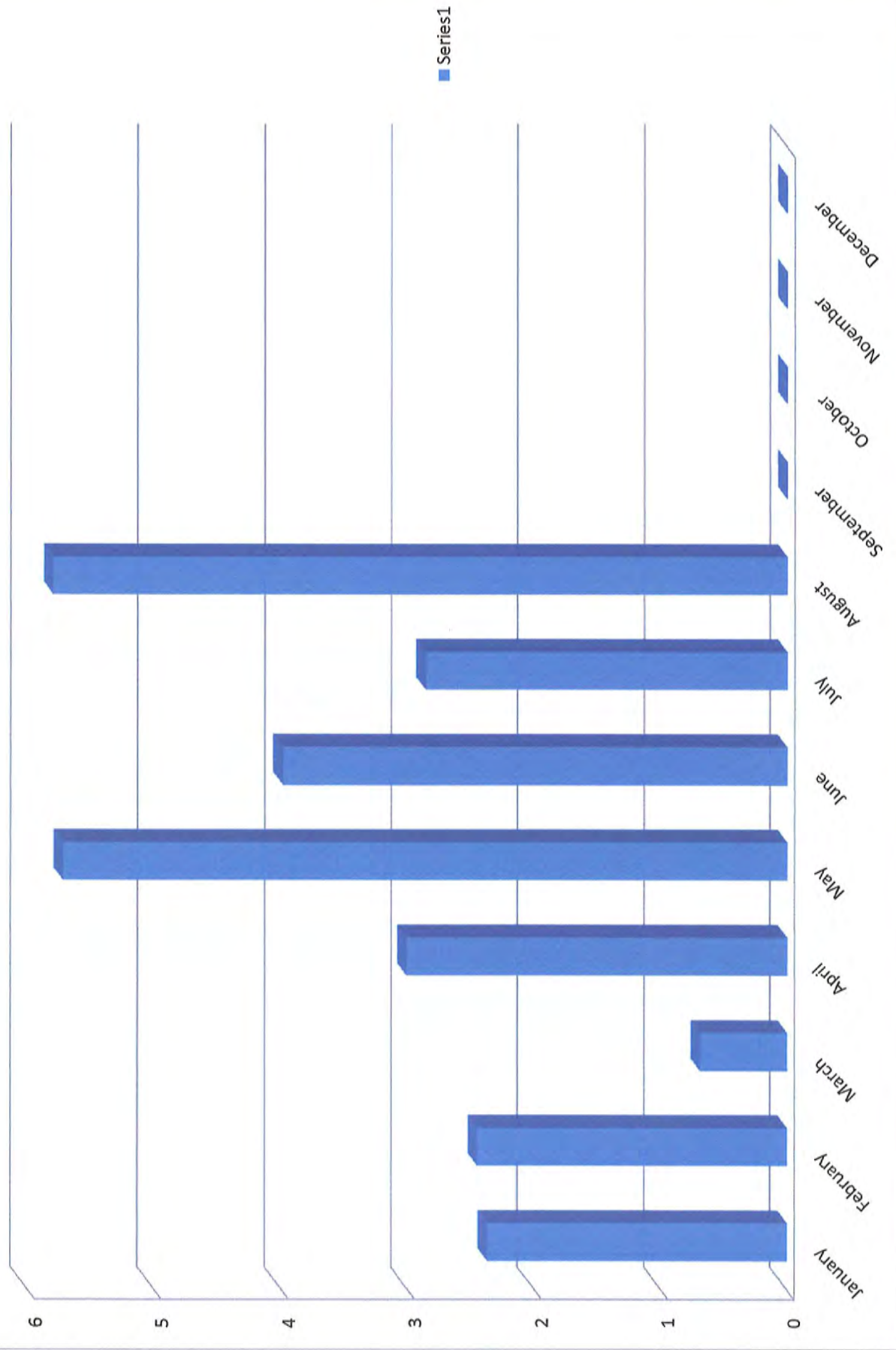
Monthly Totals 2012 Jan-Dec



August Precip. 5.80 - 2012



2012 Monthly Precipitation



East Goshen Township Flows

July
2012

Date	West Goshen Plant Flow mgd	West. Way Pump Station mgd	Ellis Lane Meter Pit mgd	Paoli Pike Meter Pit mgd	Wilson Drive Meter Pit mgd	West. Way Meter Pit mgd	Total East Goshen Flow mgd
1	4.034	1.350	0.092	0.058	0.062	1.100	0.888
2	3.951	1.351	0.087	0.054	0.079	1.003	0.783
3	3.826	1.253	0.088	0.055	0.068	0.954	0.743
4	4.065	1.260	0.088	0.054	0.068	0.953	0.743
5	3.770	1.289	0.093	0.054	0.096	0.990	0.747
6	2.397	1.264	0.135	0.089	0.074	0.974	0.676
7	3.897	1.274	0.136	0.090	0.074	0.975	0.675
8	4.994	1.334	0.135	0.089	0.074	0.974	0.676
9	3.942	1.319	0.140	0.061	0.091	1.025	0.733
10	3.680	1.302	0.148	0.064	0.097	1.105	0.796
11	3.850	1.306	0.126	0.058	0.078	0.933	0.671
12	3.690	1.302	0.130	0.058	0.079	0.951	0.684
13	3.946	1.261	0.156	0.069	0.071	1.024	0.728
14	4.459	1.404	0.157	0.070	0.072	1.025	0.726
15	4.530	1.465	0.156	0.069	0.071	1.024	0.728
16	3.955	1.331	0.158	0.067	0.097	1.071	0.749
17	4.160	1.354	0.128	0.055	0.104	1.022	0.735
18	4.270	1.322	0.162	0.054	0.087	0.970	0.667
19	3.730	1.320	0.147	0.055	0.078	0.993	0.713
20	4.019	1.341	0.132	0.057	0.057	0.973	0.727
21	3.796	1.272	0.133	0.058	0.058	0.974	0.725
22	3.905	1.346	0.132	0.057	0.057	0.973	0.727
23	3.921	1.296	0.088	0.057	0.087	1.001	0.769
24	4.403	1.317	0.079	0.059	0.117	1.001	0.746
25	3.855	1.268	0.089	0.055	0.058	0.958	0.756
26	3.891	1.329	0.091	0.065	0.093	1.011	0.762
27	3.506	1.260	0.101	0.060	0.069	0.957	0.727
28	3.831	1.255	0.102	0.060	0.070	0.958	0.726
29	3.857	1.300	0.101	0.060	0.069	0.957	0.727
30	3.464	1.280	0.100	0.061	0.083	1.023	0.779
31	3.980	1.306	0.086	0.062	0.086	1.017	
1							
Total	121.57	40.63	3.70	1.93	2.42	30.87	22.03
Avg.	3.922	1.311	0.119	0.062	0.078	0.996	0.711

RECEIVED
JUL 23 2012

NOTES:

WEST GOSHEN SEWER AUTHORITY
REGULAR MEETING
September 5, 2012

FYI

The regular meeting of the West Goshen Sewer Authority was held on Wednesday, September 5, 2012 at the STP Administration Building. Those present were:

<u>Authority</u> Mike Arnold Dave Johnson Ron Rothrock John Windle Philip Corvo	<u>Supervisor</u> <u>Administration</u> John Scott	<u>Unruh, Turner</u> Ross Unruh <u>Glance Associates, Inc.</u> Max Stoner
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Frank Biasi was absent. Dana Pizarro from East Goshen Township were in attendance.

The regular meeting of the Authority was called to order at 7:34 P.M. by Chairman, Mike Arnold.

Dave Johnson motioned to approve the August 1, 2012 meeting minutes, seconded by Philip Corvo, motion approved.

Ross Unruh presented the Solicitor's Report for the month. The Federal Court filings are being prepared and should be filed before the end of September. There is a meeting scheduled with DEP for September 25, 2012. The DEP is currently working on the 2012 303 (d) stream impairment list. Ross Unruh is waiting for the paperwork from Greystone South with the changes that needed to be made. Steve Miano will be the primary counsel with John Hall being co-counsel. The comment letter in response to the draft permit was submitted to the PADEP. If the year 9 TMDL remains in the final permit, an EHB appeal will be necessary.

Dave Johnson made a motion a motion to authorize Steve Miano (Hangley Aronchick Segal Pudlin & Schiller) to sign and file the federal suit against EPA on behalf of the West Goshen Sewer Authority, seconded by John Windle, motion passed unanimously.

Max Stoner gave the Engineers report dated September 5, 2012: (See report for details)

1. Current Items

a) Goose Creek Stream Study/TMDL Permit Issues

The TMDL issues are continuing on. Review comments were sent on August 24th, with regard to the NPDES draft permit. A meeting is scheduled with DEP on September 25th, Ross, John Scott, Mike Moffa, Max will be attending.

2. The Arbours at West Goshen –

They are continuing to build a few more homes. There are some changes proposed in the

mixture of types of homes to be constructed due to a changing market.

3. Goshen Leisure Development

Nothing New This Month

4. West Goshen Business Park

The developer has submitted plans for a 114 one-bedroom age restricted apartment complex to be constructed on Lot 8, there are no major concerns with the sanitary sewer system.

5. Zarelli Subdivision 825 Goshen Road

Nothing new this month.

6. Margarita's Site Development

Waiting for as-built plans. Nothing new this month.

7. Wexford Mews

Waiting for as-built plans. Nothing new this month.

8. Jerrehian Estate

Large Tract

Glance has finished the initial review the sanitary sewer plans for the proposed 598 unit development. They are still proposing two (2) pumping stations. They have provided preliminary plans. The review has been completed with no major issues on the proposed design. Plans for 14 lot development were reviewed and that the temporary pumping station should be eliminated and individual grinder pumps be installed. Also we required changes to the rights of way and the connection to the existing force main. Samples of what type of pumping stations the Authority desired were sent to Horizon Engineers. Max received a call from Horizon Engineers the last week of August and they were sending revised plans for review.

The proposed three (3) lot subdivision which was an existing home and two (2) new lots, there were a few minor comments. Horizon Engineers called and discussed both reviews and agreed to make the requested changes. The WCASD has signed an agreement to dedicate the gravity lines and right of way to the existing small pumping station at the athletic fields to the Authority. Ross is handling the paperwork.

Graystone South

The sewer work is substantially complete. They submitted a video of the pipe installation. They have provided as built plans and dedication documents as well as a sanitary sewer easement to Max and Ross for review. The easement was approved and sent by our office to Ross. Ross is still waiting for the signoff from the Jerrehians.

9. Greenhill Corporate Park – Lot 11

Drury Development Company is proposing a 2 ½ story 34,480 s.f. office building at 1171 McDermott Drive. There are no major issues with the sewer for this proposed project. this was approved at the planning commission in July, 2009.

10. Village of Shannon – Shadeland Woods

They are continuing to construct units in this development.

11. Lincoln Independence Park
Nothing New This Month
12. DLH Development – Reservoir Property
Waiting for as-built drawings and dedication documents
13. Domestic Violence Center
Need record drawings of the tie-in to the system. Nothing new this month.
14. Gavin Property – 415 Goshen Road
Nothing New This Month
15. Liberty Tools
This property will be served by a grinder pump. They have proposed to tie a few other lots into the low pressure system. John Scott has agreed with this concept which was done on Delaware Avenue and Wexford Mews. Ross has been discussing individual grinder pump agreements for each property that will connect to the system with the attorney for Liberty Tools. Nothing new this month.
16. Kirkland Woods
This is a new 7 lot sub-division on 4.3 acres, located at Kirkland Avenue and Ashbridge Road. The sanitary sewer main needs extended but no rights of ways are involved. A developer's agreement will need to be entered into between the Authority and the developer. The plan received approval from the Township and they have contacted Ross and our office to establish a construction escrow account. They reviewed and approved the construction escrow account.
17. QVC Warehouse
QVC is planning an approximately 60,000 s.f. addition to its warehouse. There appear to be no significant issues with the sanitary sewer system for the proposed addition.
18. Chester County Hospital
The plans were revised to address all the review comments. They will need to dedicate a small portion of the sewer line in Goshen Road to the Authority. There were some questions on the EDU's and the sewer permit applications. We have not seen the easement plans or the road occupancy permit application for the township. There have been some questions on deduct meters for the chillers and condensers.
19. Fame Fire Company Expansion
Proposed 4,000 s.f. addition located at S. Matlack & Rosedale Ave. This does not significantly affect the Authority's system. An approval letter was sent out. Nothing new this month.
20. Deco Sales Company
3,000 s.f. addition to office and warehouse on Carter Drive. Review was done and submitted to the township and the developer's engineers.

The following invoices were moved for approval by John Windle, seconded by Dave Johnson and unanimously approved:

ADMINISTRATIVE EXPENSES:

PAYEE	PURPOSE	AMOUNT
Unruh	General Representation	\$ 409.78
John Windle	Treasurer	\$ 250.00
Tina Charron	Recording Secretary	\$ 270.00
Hartford Insurance	Treasurer Bond	\$ 251.00
West Goshen Township	Usage Fees – Lukoil	\$ 461.71

DEVELOPER ACCOUNTS:

PAYEE	DEVELOPER	AMOUNT
Unruh	Greystone South	\$ 166.50
Unruh	Glen White Builders – Quaker Ridge	\$ 92.50

On a motion by John Windle and seconded by Dave Johnson, the following requisitions were approved for payment.

TAPPING FEE FUND:

REQUISITION #	PAYEE	PURPOSE	AMOUNT
1503	Glance & Associates	TMDL	\$ 2,410.50
1502	Unruh, Turner, Burke & Frees	Appeal to EHB	\$ 6,005.81
1501	Hall & Assoc.	TMDL	\$ 6,933.06
1500	Hangley Aronchick Segal Pudlin & Schiller	TMDL	\$ 8,077.93
1499	Gannett Fleming	Stream Sampling	\$ 249.30

FULTON FINANCIAL BALANCES (as of July 31, 2012)

Total all accounts - \$ 6,226,118.89

Philip Corvo – Township budget process has started

Traffic issue on Roslyn & Spruce has been being discussed to determine a solution.

John Scott – Went to the DEP meeting about Boyertown Landfill, they are basically looking for potential parties to pay for testing and clean up of the site.

There being no further business, on a motion by Ron Rothrock seconded by John Windle, the meeting was adjourned at 8:28 p.m.

Respectfully submitted,

Tina Charron, Recording Secretary