

EAST GOSHEN MUNICIPAL AUTHORITY

November 11, 2013

Monday 7:00 PM

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE
 - a. Ask if anyone will be taping the meeting?
2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS
3. APPROVAL OF MINUTES
 - a. October 14, 2013
4. APPROVAL OF INVOICES

a. Pennoni #566093	\$	105.00
b. Pennoni #566094	\$	1,934.50
c. Pennoni #566095	\$	7,597.75
d. Pennoni #567776	\$	18,056.50
e. Pennoni #566097	\$	680.00
f. Ronald Smith Application #2	\$	32,088.71
g. MGK Industries, Inc. #4487	\$	7,250.00
5. LIAISON REPORTS
6. FINANCIAL REPORTS
 - a. October 2013 Reports
7. OLD BUSINESS
 - a.
8. GOALS
 - a. September Goals
9. NEW BUSINESS
 - a. Consider Proposal for Audit Objective and Scope
10. CAPACITY REQUESTS
 - a. Authorize Capacity Reservation Agreement For Patricia O'Neill
11. SEWER REPORTS
 - a. Director of Public Works Report
 - b. Pennoni Engineer's Report
 - c. Big Fish Environmental Inc Report with DMR's
 - d. East Goshen Township Flows for October 2013
12. ANY OTHER MATTER

13. CORRESPONDENCE AND REPORTS OF INTEREST

14. PUBLIC COMMENT

15. ADJOURNMENT

Reminder – NEWSLETTER ARTICLE SUBMISSION DUE DATES:

Article Due Date

Website Posting Date

draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
October 14, 2013

The East Goshen Township Municipal Authority held their regular public meeting on Monday, October 14, 2013 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Fran Beck, Dana Pizarro, Ed McAssey, and Jack Yahraes. Also in attendance were: Rick Smith (Township Manager), Scott Towler (BFES), Bob Adams (Atty), Mike Ellis (Pennoni), Carmen Battavio (Township Supervisor), Mark Miller (Director of Public Works) and Walter Wujcik (Conservancy Board).

COMMON ACRONYMS:

<i>BFES – Big Fish Environmental Services</i>	<i>MA- Municipal Authority</i>
<i>BOS – Board of Supervisors</i>	<i>NPDES – National Pollutant Discharge Elimination System</i>
<i>CB – Conservancy Board</i>	<i>PC – Planning Commission</i>
<i>DEP – Department of Environmental Protection</i>	<i>PR – Park & Recreation Board</i>
<i>EPA – Environmental protection Agency</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
<i>HC – Historical Commission</i>	<i>SBR – Sequencing Batch Reactor</i>
<i>I&I – Inflow & Infiltration</i>	<i>SSO – Sanitary System Overflow</i>
<i>LCSTP – Lockwood Chase Sewer Treatment Plant</i>	<i>WAS – Waste Activated Sludge</i>

Call to Order & Pledge of Allegiance

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

Chairman’s Report/Other Member’s Reports

No Report

Approval of Minutes

The Chairman noted that the minutes of the September 9, 2013 meeting were approved.

Approval of Invoices

1. Jack moved to approve payment of the following Pennoni invoices:

a.	Pennoni #562987	\$ 1,496.25
b.	Pennoni #562988	\$ 1,624.25
c.	Pennoni #562990	\$ 2,900.75
d.	Pennoni #563010	\$ 307.50
e.	Pennoni #564317	\$ 2,019.75

Ed seconded the motion. The motion passed unanimously.

f. Dana moved to approve payment of the Gawthrop invoice for \$220.00. Jack seconded the motion. The motion passed unanimously.

g. Ronald Smith App #1 for \$108,652.00. Mike confirmed that Pennoni recommends payment of \$64,651.02. Jack moved to approve payment in the amount of \$64,651.02 for the Ronald Smith App#1. Dana seconded the motion. The motion passed unanimously.

1 **Liaison Reports**

- 2 1. CB – Walter reported that the CB is having a fall planting on Sat. November 9 at 9:00 am on
3 E. Boot Road near the boardwalk. They need volunteers to help with the planting.
4 2. BOS – Carmen reported that they are getting ready to review the 2014 budget. Interviews for
5 the Park & Recreation Director position started today.
6

7 **Financial Reports**

8 Jon Altshul's report - The Municipal Authority recorded \$11,534 in expenses and \$2,150 in
9 revenues in September, a difference of -\$9,384. Expenses include the quarterly chargeback of
10 \$7,980 for administrative overhead expenses. The fund balance is now \$51,376.
11

12 **Goals**

13 Jack mentioned that the Newsletter article deadline is October 29th. He sent Kevin an email to
14 let him know. Ed will attend the West Goshen meeting on December 2, 2013.
15 Mark Miller reported that the Lockwood project is complete. They have to remove the fence and
16 pave the street.
17

18 **New Business**

19 A letter dated October 3, 2013 was received from Bob Adams stating that there will not be an
20 increase in the rate for legal fees for 2014. Jack moved to accept the proposal for 2014 legal fees
21 from Gawthrop. Dana seconded the motion. The motion passed unanimously.
22

23 **Capacity Requests**

24 Sunny Ridge Farms, 4 lot subdivision on Colonial Lane – Rick explained that the Authority
25 approved the capacity request last month. Now they need to execute the agreement. Dana moved
26 to accept the Sewer Capacity Agreement for the subdivision of 1551 Colonial Lane to connect
27 three new single family homes to the township sewer system and authorize the Chairman to sign
28 the agreement. Ed seconded the motion. The motion passed unanimously.
29

30 **Sewer Reports**

31 **1. Mark Miller, Director of Public Works** - Rick reviewed the following report for August
32 2013:

33 Meters: All meters were read on a daily basis. We met with Allied Control to go over the
34 operation of the new meter.

35 Pump Stations: Were visited on a daily basis.

36 C.C. Collection: Pump stations were visited on a daily basis, with no problems to report.

37 We received a call for a backed up sewer lateral on N. Lochwood Lane. This was the second
38 time we had a backup at this resident's property. We called in a PA One Call and excavated the
39 lateral. We found that the trap was broken which caused debris to catch on the broken pipe.

40 We are in the process of replacing the lids and castings in Grand Oak.

41 R.C. Collection: Pump stations were visited on a routine basis. We were notified of 2 lateral
42 back-ups which were cleared.

43 PECO will be out on the 15th to shut off power at the Reserve pump station. Once power is cut
44 off we will start to remove the equipment. The equipment will be used at Hunt Country.

45 R.C. Plant: No problems to report

46 Alarms: We received a total of 17 alarms in September.

1 PA One Calls: We received 54 PA One calls for September.

2
3 **2. Pennoni** – Mike Ellis gave the following report for September:

4 RCSTP – Pennoni continues to provide operations assistance as needed. No issues were brought
5 to our attention in September.

6 Hershey’s Mill PS Diversion – The project has been completed and final payment has been
7 made.

8 Reserve PS Elimination – We performed daily part-time construction observation of site
9 preparation, clearing, E&S controls, stream diversion and bypass pumping, and sewer
10 installation. We also performed office support including review of shop drawings and payment
11 application #1.

12 The contractor has completed installation of all new sanitary sewers including the upstream and
13 downstream manhole connections and the new lateral on the Schroeder property. Testing of the
14 sewers and manholes was done today and all passed. Wastewater will be diverted into the new
15 sewers immediately upon testing acceptance, which is expected to occur by October 15. The
16 Township Public Works Department is scheduled to begin to remove all equipment from the
17 pump station on October 15 including shutdown of utility services. The PWD is being allocated
18 10 days to remove the equipment at which point the contractor will demolish the pump station
19 building, wet well, valve vault, etc. The contractor intends to perform restoration of the sanitary
20 sewer route while the PWD is removing the equipment.

21 The contract completion date is November 11, and we expect the work will be completed
22 approximately one week in advance of that date.

23 Reservoir Road Pump Station Act 537 Plan – We attended an on-site project kick-off meeting
24 and field reconnaissance with the Township.

25 We delineated and flagged wetlands and water surface levels of stream crossings on the proposed
26 pump station parcel at the intersection of Reservoir Road and Strasburg Road and along the
27 proposed force main route along Strasburg Road and N. Chester Road. We have prepared a draft
28 wetlands report that will be finalized when the existing conditions plan is completed.

29 We began the topographic and existing conditions field survey of the proposed pump station
30 parcel and proposed force main route to the tentatively proposed gravity sewer connection in
31 Bow Tree. An existing conditions plan will be prepared following the field survey, and we
32 anticipate the plan will be completed by the end of October.

33 We began preparation of the Act 537 Plan forms, narratives, and supporting documentation. We
34 have evaluated various alternatives for pumping rates, revised the 2009 Ridley Creek sewer
35 system hydraulic model based upon current flow data and projected pumping rates, and
36 evaluated the capacity impacts to the plant and conveyance system. The modeling indicates the
37 Ridley Creek interceptor may not have adequate capacity for 300,000 gpd from the pump station.
38 We are coordinating with the Township to revisit system as-built plans and to field verify pipe
39 sizes to determine if the model is underestimating capacities.

40 We are also evaluating the possibility of running the new force main all the way to the Ridley
41 Creek interceptor (through Bow Tree) instead of tying into existing gravity sewer in Bow Tree.

42 Jack asked if new sewer customers could tie into this line. Mike answered no.

43 Dana suggested that the consider sending peak flow to West Goshen rather than install 3,000 feet
44 of interceptor which could cost \$100,000.

45 Debt Issuance Certification – We finalized, certified, and issued the self-liquidating debt
46 certification documents for the proposed \$2.5M borrowing that were required by the lender.

1 Semi-Annual I/I Report – We analyzed data from portable and permanent meters throughout the
2 Chester Creek Collection System, and we met with the Township to review the findings and
3 strategize investigation and metering efforts for the next six months. We intend to complete and
4 submit the semi-annual report before or at the October Municipal Authority meeting.
5 Mike reported that Baldwin Drive to Paoli Pike is a focus area along the Chester Creek
6 interceptor. They will televise to see if there is a problem and will continue to check it over the
7 next 6 months. They updated the mapping to show the recent diversions.
8

9 **3. Big Fish Environmental Services** – The following is a summary of Scott’s report:

10 Treatment Process Operation- On August 1, 2013 there was one reported exceedance of the final
11 effluent discharge limitations for outfall 001 and outfall 002. The exceedances reported included
12 a weekly average of 20 mg/L, whereas the permit limitation weekly maximum is 15 mg/L. It is
13 noted that the permit limitation instantaneous maximum of 20 mg/L was not exceeded. The
14 discharge permit requires a minimum of one sample per week, therefore, the weekly maximum is
15 identical to the instantaneous maximum. The laboratory report was received electronically on
16 August 13, 2013.

17 The elevated TSS concentration was the result of significant hydraulic loading to the SBRs on
18 August 1st beginning at approximately 10:30 AM and continuing through 3:00 PM. Influent
19 flow rates to the SBRs increased from 100 to 204% of the design hydraulic loading as the result
20 of a rainfall event. The surge of influent flow resulted in the SDBRs experiencing storm mode
21 treatment phases identified as “filled decant” and “filled settle”, which typically results in minor
22 solids carryover into the final effluent post flow equalization basins.

23 The monthly average total phosphorus concentration was 0.29 mg/L as compared to the
24 discharge limitation of 0.5 mg/L. During the month, the final effluent total phosphorus
25 concentration discharged ranged from 0.19 mg/L to 0.44 mg/L.

26 Flow to Applebrook, Outfall 002, continued during August.

27 During the month of September 2013, there are no anticipated exceedances of the permit
28 limitations for Outfall 001 and Outfall 002, the CBOD₅ and TSS final effluent concentrations
29 were periodically elevated.

30 Transfer of treated effluent to the Applebrook Golf Course continued during September, with the
31 exception of September 1 through the 9th. The average daily discharge for Outfall 002 was
32 122,800 gallons per day. Composite samples are collected at the influent doghouse manhole.
33 The influent flow meter reading is collected from the influent flow meter located prior to the
34 Screening Building, excluding the internal recycle flows.

35 SBRs 1, 3 and 4 were in service during the month. Process monitoring of each SBR included
36 ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Foam
37 concentrations remained around the same concentration as during August. Present surface area
38 coverage during React Phase ranges at approx. 50 – 60%. The foam remains as light to medium
39 brown in color and averages 2 – 4 inches in depth.

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

43 Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued.
44 The volume of aluminum sulfate solution to the SBRs was increased towards mid and later
45 September as total phosphorus concentrations in the final effluent composite samples were
46 observed to increase.

1 SBR No. 2 remains out of service as a treatment unit. The majority of the contents were
2 transferred to the sludge holding tanks. The water level was lowered to approx. 4.25 ft.
3 During the month, sludge wasting to the sludge holding tanks and decanting of the sludge
4 holding tanks was ongoing. Process monitoring included pH, total alkalinity and total solids.
5 Sludge holding tank #1 was in service. The level at the beginning of the month was 10.23 feet
6 and the level at the end of the month was 3.95 feet. The initial total solids concentration was
7 0.95% and ended the month as 0.66% total solids. Zero gallons of supernatant were decanted
8 during the month for pH adjustment.
9 Sludge holding tank #2 was in service. The level at the beginning of the month was 12.47 feet
10 and the level at the end of the month was 12.04 feet. The initial total solids concentration was
11 0.56% and ended the month as 0.99% total solids. A total 260,400 gallons of supernatant were
12 decanted during the month. A total of 350 pounds of soda ash was added during the month for
13 pH adjustment.
14 Significant Storm Events – As previously described, on August 1st a significant storm resulting
15 in a significant increase in influent flow volume and arte into the SBRs. The influent flow rate
16 exceeded the hydraulic design flows for a period of approx. 7 hrs. There were no significant
17 storms during September.
18 Minor repairs & preventative maintenance – UVBank #1 – replaced failed ballast, 3 lamps and 3
19 quartz sleeves; Applebrook Pump – pump wasn't staying in operating and was tripping the
20 circuit breaker. Troubleshooting identified a lose wire which was refastened.
21 Installed a flow signal adapter from the SBR influent flow meter to the influent wet well
22 composite sampler. Installed a new sample suction line and place sampler on line Sept 29.

23

24 **Adjournment**

25 There being no further business, Jack moved to adjourn the meeting. Dana seconded the motion.
26 The motion passed unanimously. The meeting was adjourned at 8:00 pm.

27

28 Respectfully submitted,

29

30

31 Ruth Kiefer

32 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 #: 566093
Invoice Date: 10/22/2013
Project: EGMA1301
Project Name: 2013 General Services

For Services Rendered through: 10/13/2013

Engineer's Report for October Municipal Authority meeting.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	105.00
Expense :	0.00
Phase Total :	105.00

Amount Due This Invoice

\$105.00

Fee :	13,000.00
Prior Billings :	10,295.00
Current Billings :	105.00
Total Billings :	10,400.00

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Senior Engineer	1.00	105.00	105.00
Labor Total:	1.00		105.00

Total Phase : **** -- Professional Services

Labor :	\$105.00
Expense :	\$0.00

Total Project : EGMA1301 -- 2013 General Services

Labor :	\$105.00
Expense :	\$0.00

ok. TJS

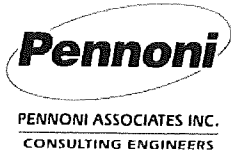
East Goshen Municipal Authority
EGMA1301 Invoice Summary
Invoice Date 10/22/2013

Project : 2013 General Services
Pennoni Job No. : EGMA1301
Invoice No. : 566093
Invoice Period : 9/16/2013 to 10/13/2013
Initial Authorization : \$ 10,000.00 **Date :** 1/9/2013
Changes : \$ 3,000.00 **Date :**
Contract Amount : \$ 13,000.00
Previously Invoiced : \$ 10,295.00
Current Invoice : \$ 105.00
Invoiced to Date (\$) : \$ 10,400.00
Invoiced to Date (%) : 80%
Remaining Budget (\$) : \$ 2,600.00
Remaining Budget (%) : 20%

Budget by Phase :

Phase No. *****
Phase Name : 2013 General Services
Phase Budget : \$ 13,000.00
Previousy Invoiced : \$ 10,295.00
Current Invoice : \$ 105.00
Invoiced to Date (\$) : \$ 10,400.00
Invoiced to Date (%) : 80%
Remaining Budget (\$) : \$ 2,600.00
Remaining Budget (%) : 20%

Engineer's Report for October Municipal Authority meeting.



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

Invoice # : 566094
Invoice Date : 10/22/2013
Project : EGMA1302
Project Name : 2013 Semi-Annual I&I Reports

For Services Rendered through: 10/13/2013

Analyzed temporary portable meter data and permanent meter data, attended meeting with Township staff to discuss metering findings and strategize areas to focus I/I investigations, and continued preparation of semi-annual I/I report.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,934.50
Expense :	0.00
Phase Total :	1,934.50

Amount Due This Invoice

\$1,934.50

Fee :	10,000.00
Prior Billings :	7,659.50
Current Billings :	1,934.50
Total Billings :	9,594.00

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Graduate Engineer	26.50	73.00	1,934.50
Labor Total:	26.50		1,934.50

Total Phase : **** -- Professional Services

Labor :	\$1,934.50
Expense :	\$0.00

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

Labor :	\$1,934.50
Expense :	\$0.00

ok R/S

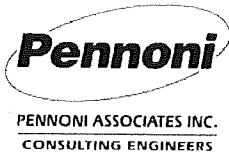
East Goshen Municipal Authority
EGMA1302 Invoice Summary
Invoice Date 10/22/2013

Project : 2013 Semi-Annual I&I Reports
Pennoni Job No. : EGMA1302
Invoice No. : 566094
Invoice Period : 9/16/2013 to 10/13/2013
Initial Authorization : \$ 10,000.00 **Date :** 1/16/2013
Changes : \$ - **Date :**
Contract Amount : \$ 10,000.00
Previously Invoiced : \$ 7,659.50
Current Invoice : \$ 1,934.50
Invoiced to Date (\$) : \$ 9,594.00
Invoiced to Date (%) : 95%
Remaining Budget (\$) : \$ 406.00
Remaining Budget (%) : 5%

Budget by Phase :

Phase No. *****
Phase Name : 2013 Semi-Annual I&I
Phase Budget : \$ 10,000.00
Previousy Invoiced : \$ 7,659.50
Current Invoice : \$ 1,934.50
Invoiced to Date (\$) : \$ 9,594.00
Invoiced to Date (%) : 95%
Remaining Budget (\$) : \$ 406.00
Remaining Budget (%) : 5%

Analyzed temporary portable meter data and permanent meter data, attended meeting with Township staff to discuss metering findings and strategize areas to focus I/I investigations, and continued preparation of semi-annual I/I report.



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

Invoice # : 566095
Invoice Date : 10/22/2013
Project : EGMA1306
Project Name : Reserve PS Diversion Construction
P

For Services Rendered through: 10/13/2013

Performed part-time on-site construction observation of E&S controls, manhole and sewer installation, coring existing manholes, stream bypass pumping, backfilling of detention basin berm including overseeing 3rd party density testing, temporary earth stabilization; office support to coordinate berm backfill compaction requirements; and reviewed and certified Pay Application #1.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 7,597.75
Expense : 0.00
Phase Total : 7,597.75

Amount Due This Invoice

Fee : 20,000.00
Prior Billings : 2,900.75
Current Billings : 7,597.75
Total Billings : 10,498.50

7,597.75

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Senior Engineer	10.25	105.00	1,076.25
Technical Specialist	73.00	75.00	5,475.00
Graduate Engineer	2.50	73.00	182.50
Engineering Technician II	12.00	72.00	864.00
Labor Total:	97.75		7,597.75

Total Phase : **** -- Professional Services

Labor : 7,597.75
Expense : 0.00

Total Project : EGMA1306 -- Reserve PS Diversion Construction P

Labor : 7,597.75
Expense : 0.00

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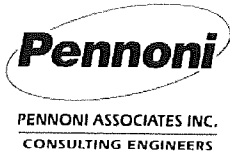
East Goshen Municipal Authority
EGMA1307 Invoice Summary
Invoice Date 10/22/2013

Project: EGMA1306
Pennoni Job No.: Reserve PS Diversion Construction P
Invoice No: **566095**
Invoice Period: 9/16/2013 to 10/13/2013
Initial Authorization: \$ 20,000.00 **Date:** 1/16/2013
Contract Amount: \$ 20,000.00
Previously Invoiced: \$ 2,900.75
Current Invoice: \$ 7,597.75
Invoiced to Date (\$): \$ 10,498.50
Invoiced to Date (%): 52%
Remaining Budget (\$): \$ 9,501.50
Remaining Budget (%): 48%

Budget by Phase:

	Reserve PS Diversion Construction Phase
Phase Name:	
Phase Budget:	\$ 20,000.00
Previously Invoiced:	\$ 2,900.75
Current Invoice:	\$ 7,597.75
Invoiced to Date (\$):	\$ 10,498.50
Invoiced to Date (%):	52%
Remaining Budget (\$):	\$ 9,501.50
Remaining Budget (%):	48%

Comments: Performed part-time on-site construction observation of E&S controls manhole and sewer installation, coring existing manholes, stream bypass pumping, backfilling of detention basin berm including overseeing 3rd party density testing, temporary earth stabilization; office support to coordinate berm backfill compaction requirements; and reviewed and certified Pay Application #1.



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

Invoice # : 567776
Invoice Date : 10/22/2013
Project : EGMA1307
Project Name : Reservoir Rd PS Act 537 Planning

For Services Rendered through: 10/13/2013

Performed on-site delineation and flagging of wetlands and prepared wetlands delineation letter report; performed portion of field survey of existing conditions, topography, and wetlands flagging of proposed force main route; attended project kick-off meeting on-site with Township staff; analyzed and performed initial modeling of projected flows through RCCS gravity sewers, evaluated alternatives for pump sizing, and continued preparation of Act 537 Plan Report.

Phase : 01 -- Wetlands Delineation & Bog Turt. Sc

Total Phase : 01 -- Wetlands Delineation & Bog Turt. Sc

Labor : 4,228.75
Expense : 0.00
Phase Total : 4,228.75

Phase : 02 -- Existing Conditions Survey

Total Phase : 02 -- Existing Conditions Survey

Labor : 8,809.00
Expense : 0.00
Phase Total : 8,809.00

Phase : 03 -- Act 537 Plan Update

Total Phase : 03 -- Act 537 Plan Update

Labor : 5,018.75
Expense : 0.00
Phase Total : 5,018.75

Amount Due This Invoice

\$18,056.50

OK TC

Continued on next page...

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

...Continued from previous page

Phase : 01 -- Wetlands Delineation & Bog Turt. Sc

Labor Class	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Senior Environmental Scientist	49.75	85.00	4,228.75
Labor Total:	49.75		4,228.75

Total Phase : 01 -- Wetlands Delineation & Bog Turt. Sc	Labor :	\$4,228.75
	Expense :	\$0.00

Phase : 02 -- Existing Conditions Survey

Labor Class	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Principal Surveyor	15.00	105.00	1,575.00
Senior Survey Technician	48.00	82.00	3,936.00
Survey Technician	48.50	68.00	3,298.00
Labor Total:	111.50		8,809.00

Total Phase : 02 -- Existing Conditions Survey	Labor :	\$8,809.00
	Expense :	\$0.00

Phase : 03 -- Act 537 Plan Update

Labor Class	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Senior Engineer	7.25	105.00	761.25
Project Engineer	43.00	95.00	4,085.00
Staff Engineer	0.50	85.00	42.50
Engineering Technician II	2.00	65.00	130.00
Labor Total:	52.75		5,018.75

Total Phase : 03 -- Act 537 Plan Update	Labor :	\$5,018.75
	Expense :	\$0.00

Total Project : EGMA1307 -- Reservoir Rd PS Act 537 Planning	Labor :	\$18,056.50
	Expense :	\$0.00

East Goshen Municipal Authority
EGMA1307 Invoice Summary
Invoice Date 10/22/2013

Project: EGMA1307
Pennoni Job No.: Reservoir Rd PS Act 537 Planning
Invoice No: **567776**
Invoice Period: 9/16/2013 to 10/13/2013
Initial Authorization: \$ 77,400.00 **Date:** 1/16/2013
Contract Amount: \$ 77,400.00
Previously Invoiced: \$ 2,019.75
Current Invoice: \$ 18,056.50
Invoiced to Date (\$): \$ 20,076.25
Invoiced to Date (%): 26%
Remaining Budget (\$): \$ 57,323.75
Remaining Budget (%): 74%

Budget by Phase:

Phase Name: Reservoir Rd PS Act
537 Planning
Phase Budget: \$ 77,400.00
Previously Invoiced: \$ 2,019.75
Current Invoice: \$ 18,056.50
Invoiced to Date (\$): \$ 20,076.25
Invoiced to Date (%): 26%
Remaining Budget (\$): \$ 57,323.75
Remaining Budget (%): 74%

Comments: Performed on-site delineation and flagging of wetlands and prepared wetlands delineation letter report; performed portion of field survey of existing conditions, topography, and wetlands flagging of proposed force main route; attended project kick-off meeting on-site with Township staff; analyzed and performed initial modeling of projects flows through RCCS gravity sewers, evaluated alternatives for pump sizing, and continued preparation of Act 537 Plan Report.



INVOICE

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

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

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

Invoice #: 566097
Invoice Date: 10/22/2013
Project: EGOS1301
Project Name: Operations Support

For Services Rendered through: 10/13/2013

Field reconnaissance to Reserve and Hunt Country Pump Stations by Senior Engineer and Project Engineer to evaluate transfer of Reserve PS equipment to Hunt Country PS, reviewed pump stations equipment and design manuals, and performed initial analysis of pump compatibility at Hunt Country PS.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	680.00
Expense :	0.00
Phase Total :	680.00

Amount Due This Invoice

Fee :	2,000.00
Prior Billings :	825.00
Current Billings :	680.00
Total Billings :	1,505.00

\$680.00

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Senior Engineer	1.50	105.00	157.50
Project Engineer	5.50	95.00	522.50
Labor Total:	7.00		680.00

Total Phase : **** -- Professional Services

Labor :	\$680.00
Expense :	\$0.00

Total Project : EGOS1301 -- Operations Support

Labor :	\$680.00
Expense :	\$0.00

O/C T/S

APPLICATION AND CERTIFICATION FOR PAYMENT

TO OWNER East Goshen Municipal Authority
1580 Paoli Pike

PROJECT: RPS 2013

APPLICATION NO: 2

Distribution to: OWNER

Sewer Division

PERIOD TO: 5-Nov-2013

VIA ARCHITECT: ARCHITECT

CONTRACTOR

FROM: CONTRACTOR: West Chester, Pa. 19380

Ronald Smith, Inc.
559 Trestle Place
Downingtown, PA 19335

Pennomi Associates Inc.
121 Continental drive
suite 207
Newark De 19713

CONTRACT FOR: CONTRACT DATE: 14-Aug-13

CONTRACTOR'S APPLICATION FOR PAYMENT

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

1. ORIGINAL CONTRACT SUM	\$	108,652.00
2. Net change by Change Orders	\$	
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$	108,652.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$	101,831.55

5. RETAINAGE:

a. $\frac{5}{100}$ of Completed Work (Column D - E on G703)	\$	5,091.57
b. $\frac{0}{100}$ of Stored Material (Column F on G703)	\$	
Total Retainage (Lines 5a + 5b or Total in Column I of G703)	\$	5,091.57

6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$	96,759.78
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$	64,651.07
8. CURRENT PAYMENT DUE (Line 6 less Line 7)	\$	32,088.71
9. BALANCE TO FINISH INCLUDING RETAINAGE (Line 5 less Line 6)	\$	11,912.22

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner		
Total approved this Month		
TOTALS	\$0.00	\$0.00
NET CHANGES by Change Order	\$0.00	

The undersigned Contractor certifies that to the best of the Contractor's 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 the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR:

By: Ronald Smith Date: 11/6/13

State of: _____ County of: _____
Subscribed and sworn to before me this _____ day of _____
Notary Public: _____
My Commission expires: _____

ARCHITECT'S CERTIFICATE FOR PAYMENT

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

AMOUNT CERTIFIED: \$ 32,088.71

This is a certification of amount certified differs from the amount approved by Owner. Any application for payment, Contribution Sheet, that is changed to conform with this amount, shall be signed by the Engineer.

By: WJ Ellis Date: 11/6/13

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.

o/c R/S

Work Completed

	Scheduled Value	Previous Application	This Period	Materials Presently Stored	Total Completed and Stored to Date	%	Balance to Finish
Reserve Pump Station RPS-2013							
1. Site Preparation and Restoration	\$4,885.20	\$2,442.60	\$2,442.60			100%	\$0.00
2. Installation Maintenance and re3moval of erosion & sediment controls	\$17,852.60	\$8,926.30	\$8,926.30			100%	\$0.00
3. 8" PVC SDR 35Sanitary Sewer Main. 0 - 10 ft deep	\$31,740.00	\$24,757.20	\$4,757.55			93%	\$2,225.25
4. 8" PVC C900 Sanitary Sewer Main	\$13,721.80	\$12,349.62	\$1,372.18			100%	\$0.00
5. 8" PVC SDR 35 Sanitary Sewer Main. 10 - 15 ft deep	\$10,856.00	\$5,970.80	\$4,885.20			100%	\$0.00
6. Abandon Existing 8" Sanitary Sewer Main	\$460.00		\$460.00			100%	\$0.00
7. Manholes. 0 - 10 ft deep	\$9,200.00	\$8,280.00	\$920.00			100%	\$0.00
8. Manholes. 10 - 15 ft deep	\$10,120.00	\$9,108.00	\$1,012.00			100%	\$0.00
9. 4" Lateral Service	\$621.00		\$621.00			100%	\$0.00
10. Demolition of existing pump station and access drive	\$2,300.00		\$2,300.00			100%	\$0.00
11. Dewatering	\$2,300.00		\$2,300.00			100%	\$0.00
Total Base Bid	\$104,056.60	\$71,834.52	\$29,996.83		\$101,832.35		\$2,225.25
ADD ITEMS			\$0.00		\$0.00		\$0.00
12. Miscellaneous Excavation and Backfill with PennDOT 2A or 2B stone (15 CY)	\$759.00		\$0.00			0%	\$759.00
13. Miscellaneous Excavation and Beckfill with Excavated Soils (15 CY)	\$524.40		\$0.00			0%	\$524.40
14. Concrete Encasement (20 LF)	\$1,840.00		\$0.00			0%	\$1,840.00
15. Rock Construction Entrance #2	\$1,472.00		\$0.00			0%	\$1,472.00

MGK Industries, Inc.
 240 South Roland Street
 P.O. Box 276
 Pottstown, PA 19464-0276

INVOICE
NO. 4487
 PAGE 1

COPY

B
 I EAST GOSHEN TOWNSHIP
 L 1580 PAOLI PIKE
 L WEST CHESTER PA 19380-6199
 T
 O

J M0955PA
 O HERSHEY MILL PUMP STATION
 B
 N
 O

INVOICE DATE	INVOICE NO.	CUSTOMER NO.	PAYMENT TERMS	CONTRACT NO.
10/03/13	4487	EAS123	NET 30	M0955PA

QUANTITY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
	HERSHEY MILL PUMP STATION REPAIRS		
1.00 EA	INSTALLATION OF OWNER SUPPLIED GRINDER FRAME PER MGK QUOTE DATED 7/17/13	2650.0000	2,650.00
1.00 EA	REPAIRS TO PUMP STATION INCLUDING SETTING UP BY PASS LINE AND INSTALLING VALVES PER MGK QUOTE DATED 6/12/13	4600.0000	4,600.00

Completed 8/29/13

OK PC

Sorry for the delayed billing

PAID 10/18/13

APPROVED BY: [Signature]
 DATE PAID: _____
 CHECK #: _____
 CHARGED TO: ~~05420,3702~~

07424. ~~00000~~
 7476

GROSS	RETAINAGE	TAX	NET AMOUNT
7,250.00	.00	.00	7,250.00

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA October Financial Reports
Date: November 4, 2013

The Municipal Authority recorded \$2,562,102 in revenues and \$957,570 in expenses in October, a difference of \$1,604,532. The fund balance is now \$1,655,909. The overwhelming majority of the expenditures and revenues this month were related to the proceeds of the \$2.5 million DeVal note, which closed on October 15.

That 20-year note closed with an interest rate of 3.049%. Interest on the note is now being paid out of the sewer operating fund and the first principal payment is scheduled for October 2014.

\$1.6 million is being retained by the Municipal Authority for the anticipated costs associated with the Reservoir Road Pump Station project. The remaining balance of the loan proceeds (\$877,000 or \$900,000 minus the various costs of issuance) was transferred to the Sewer Sinking Fund (formerly the Sewer Capital Reserve Fund) as a reimbursement for the cost of the various diversion projects.

In addition, \$67,552 in expenses was incurred for the Reserve pump station project; \$7,558 was incurred for the Hershey Mill pump station project; and \$2,020 was incurred for the Reservoir Road pump station project.

A complete list of all monthly expenses is provided.

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

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE				
			51,376.28	
RCSTP BUDGET				
REVENUE				
INTEREST EARNED - RCSTP EXPANSION	07341 1020	50.00	100.61	135.08
GRANT REVENUE	07392 0800	0.00	0.00	0.00
TOTAL REVENUE		50.00	100.61	135.08
EXPENSES				
R.C.-CAP. PROJ.-ENGINEER	07424 7451	0.00	0.00	0.00
R.C. CAP EXPANSION GEN'L CONTRACTOR	07424 7452	0.00	0.00	0.00
R.C. CAP EXPANSION - ELECTRICAL	07424 7453	0.00	0.00	0.00
R.C. CAP EXP CONTINGENCY CAPITAL	07424 7454	0.00	0.00	0.00
R.C. CAP EXP CONTINGENCY ONGOING	07424 7455	0.00	0.00	0.00
R.C. CAP EXP ADDITIONAL CONTINGENCY	07424 7456	0.00	0.00	0.00
TRANSFER TO SEWER SINKING FUND	07492 0550	0.00	877,000.00	877,000.00
TRANSFER TO AUTHORITY CAP FUND	07492 0990	992,470.00	0.00	0.00
TOTAL EXPENSES		992,470.00	877,000.00	877,000.00
RCSTP NET RESULT		(992,420.00)	(876,899.39)	(876,864.92)

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

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING BUDGET				
REVENUE				
INTEREST EARNINGS	07341 1000	50.00	1.38	25.05
C.C. TAPPING FEES	07364 1100	128,000.00	0.00	0.00
R.C.TAPPING FEES	07364 1110	2,000.00	0.00	13,292.00
CONNECTION FEES - SEWER	07364 1130	0.00	0.00	1,689.64
MISCELLANEOUS REVENUE	07380 1000	1,000.00	0.00	423.36
TRANSFER FROM SEWER OPERATING	07392 0500	121,696.00	26,000.00	65,000.00
TOTAL REVENUE		252,746.00	26,001.38	80,430.05
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	33,547.00	0.00	23,941.08
MISCELLANEOUS EXPENSE	07424 3000	5,000.00	100.00	1,678.13
MUNIC.AUTH.-AUDITING	07424 3110	8,843.00	0.00	8,100.00
ENGINEERING SERVICES	07424 3130	35,000.00	3,120.50	35,266.75
LEGAL SERVICES	07424 3140	7,000.00	220.00	10,881.02
M.C.-DVRFA-DEBT SERVICE	07471 1000	20,720.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1000	6,003.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1010	5,583.00	0.00	0.00
TOTAL EXPENSES		121,696.00	3,440.50	79,866.98
OPERATING NET RESULT		131,050.00	22,560.88	563.07

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

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
CAPITAL BUDGET				
REVENUE				
LOAN PROCEEDS-SEWER PROJECT	07393 1001	992,470.00	2,477,000.00	2,477,000.00
TRANSFER FROM SEWER CAP RESERVE	07392 0900	829,769.00	59,000.00	622,000.00
TOTAL REVENUE		1,822,239.00	2,536,000.00	3,099,000.00
EXPENSES				
MARYDELL PUMP STATION - ENGINEER	07425 1000	31,000.00	0.00	51,303.74
MARYDELL PUMP STATION -CONSTRUCTION	07425 2000	250,000.00	0.00	228,317.41
MANHOLE COVER REPLACEMENTS	07424.7405	17,000.00	0.00	0.00
C.C. CAPITAL - COLLECTION	07424.7420	100,000.00	0.00	0.00
LOCHWOOD ABANDONMENT ENGINEER	07424 7475	0.00	0.00	5,562.75
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7476	55,769.00	0.00	49,796.16
LOCHWOOD ELIMINATION PHASE 2	07424 7477	0.00	0.00	12,165.62
HERSHEY MILL STATION - ENGINEER	07426 1000	35,000.00	307.50	25,349.99
HERSHEY MILL STATION - CONSTRUCTION	07426 2000	180,000.00	7,250.00	167,012.62
RESERVE PUMP STATION - ENGINEER	07427 1000	25,000.00	2,900.75	22,494.76
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	125,000.00	64,651.07	64,651.07
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0.00	2,019.75	2,019.75
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
TOTAL EXPENSES		818,769.00	77,129.07	628,673.87
CAPITAL NET RESULT		1,003,470.00	2,458,870.93	2,470,326.13

MUNICIPAL AUTHORITY ENDING FUND BALANCE 1,655,908.70

MGRP18 run by BRIAN 11 : 31 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000	INTEREST EARNINGS					-23.67				
	1310 JE		39804		1.38		11/01/13	INTEREST		INTEREST EARNED OCTOBER 2013 07 FUND
				0.00	1.38	-25.05				
07341-1020	INTEREST EARNED - RCSTP EXPANSION					-34.47				
			39805		100.61		11/01/13	INTEREST		INTEREST EARNED OCTOBER 2013 07 CONTSTRUCTION FUND
				0.00	100.61	-135.08				
07364-1110	R.C.TAPPING FEES					-13292.00				
				0.00	0.00	-13,292.00				
07364-1130	CONNECTION FEES - SEWER					-1689.64				
				0.00	0.00	-1,689.64				
07380-1000	MISCELLANEOUS REVENUE					-423.36				
				0.00	0.00	-423.36				
07392-0500	TRANSFER FROM SEWER OPERATING					-39,000.00				
			39601		26,000.00		10/16/13	DEPOSIT		DEPOSIT INTO MA ACCT. FROM 05
				0.00	26,000.00	-65,000.00				
07392-0900	TRANSFER FROM SEWER CAP RESERVE					-563,000.00				
			39575		34,000.00		10/15/13	XFER		XFER \$ FROM 09 TO 07 TO COVER MA CAPITAL EXPENSES
			39601		25,000.00		10/16/13	DEPOSIT		DEPOSIT INTO MA ACCT. FROM 05
				0.00	59,000.00	-622,000.00				
07393-1001	LOAN PROCEEDS-SEWER PROJECT					0.00				
	RE		39702		2,477,000.00		10/24/13	39702 1		2013 DELVAL PROCEEDS
				0.00	2,477,000.00	-2477000.00				
07424-1400	ADMINISTRATIVE WAGES					23941.08				
				0.00	0.00	23,941.08				
07424-3000	MISCELLANEOUS EXPENSE					1,578.13				
	CD		39630	100.00			10/17/13	2214		425 EAST GOSHEN TOWNSHIP - GENERAL

REIMBURSE GEN.FUND FOR CREDIT CA
PURCHASE FOR MA EXPENSES

MGRP18 run by BRIAN 11 : 31 AM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
			100.00	0.00	1,678.13				
07424-3110					8100.00				
			0.00	0.00	8,100.00				
07424-3130					32,146.25				
		39562	3,120.50			10/15/13	2212	1052	PENNONI ASSOCIATES INC. SERV.THRU 9/15/13 2013 SEMI-ANN I&I REPORTS
			3,120.50	0.00	35,266.75				
07424-3140					10,661.02				
			220.00			10/15/13	2211	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 9/9/13 GEN.AUTHOR
			220.00	0.00	10,881.02				
07424-7475					5562.75				
			0.00	0.00	5,562.75				
07424-7476					49,796.16				
		39630	7,250.00			10/17/13	2215	3136	MKG INDUSTRIES INC. INSTALLATION OF GRINDER FRAME AT HERSHEY MILL PUMP STATION
		JE 39814		7,250.00		11/04/13	RECLASS		RECLASS PAYMENT FOR GRINDER PUMP.
			7,250.00	7,250.00	49,796.16				
07424-7477					12165.62				
			0.00	0.00	12,165.62				
07425-1000					51303.74				
			0.00	0.00	51,303.74				
07425-2000					228317.41				
			0.00	0.00	228,317.41				
07426-1000					25,042.49				
		CD 39562	307.50			10/15/13	2212	1052	PENNONI ASSOCIATES INC. SERV.THRU 9/22/13 HERSHEY MILL

307.50

0.00

25,349.99

MGRP18 run by BRIAN 11 : 31 AM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07426-2000		HERSHEY MILL STATION - CONSTRUCTION			159,762.62				
	JE	39814	7,250.00			11/04/13	RECLASS		RECLASS PAYMENT FOR GRINDER PUMP.
			7,250.00	0.00	167,012.62				
07427-1000		RESERVE PUMP STATION - ENGINEER			19,594.01				
	CD	39562	2,900.75			10/15/13	2212	1052	PENNONI ASSOCIATES INC. SERV.THRU 9/15/13 RESERVE PS DI
			2,900.75	0.00	22,494.76				
07427-2000		RESERVE PUMP STATION - CONSTRUCTION			0.00				
			64,651.07			10/15/13	2213	3133	SMITH INC., RONALD APPLIC.#1 RESERVE PS SEWER DIVE
			64,651.07	0.00	64,651.07				
07428-1000		RESERVOIR PUMP STATION - ENGINEER			0.00				
			2,019.75			10/15/13	2212	1052	PENNONI ASSOCIATES INC. SERV.THRU 9/15/13 RESERVOIR RD
			2,019.75	0.00	2,019.75				
07492-0550		TRF TO SEWER SINKING FUND			0.00				
	JE	39704	877,000.00			10/24/13	REIMBURSE		REIMB.FR: 7105.1000 TO SEWER CAP.RESERVE FOR DIVERSION COST TRF TO SEWER CAPITAL RESERVE FUN
			877,000.00	0.00	877,000.00				
Beg Bal		10,508.14	964,819.572	569,351.99	1594024.28				

NOVEMBER 2013
EAST GOSHEN MUNICIPAL AUTHORITY GOALS

ON-GOING

1. Submit an article for each newsletter.
 - a. Need by 3/1/13 - Jack
 - b. Need by 6/1/13 – Dana & Kevin
 - c. Need by 9/1/13 -
 - d. Need by 10/29/13 – **Kevin – Dur date updated 10/14/13**

2. Attend West Goshen Meetings quarterly – more often if needed.
 - a. 1st Quarter (March) - Ed
 - b. 2nd Quarter (June) - Kevin
 - c. 3rd Quarter (September) - Ed
 - d. 4th Quarter (December) **Check with Ruth**

3. Respond to capacity requests in 45 days or less. Colonial Lane 3 EDUs received 8/19, responded 9/10 (22 days)

4. Continue to implement I & I Plan - March Report distributed in May

5. Operate RCSTP in compliance with NPDES Permit - January, February, March, April, May, July, **August**

PROJECTS

1. Lockwood – Final Restoration – Area within fence has been graded and seeded and the driveway has been removed.

2. Marydell Pump Station – Construction –Project Completed

3. Hershey Mill Pump Station – Construction – Project Completed

4. Reserve Pump Station – Construction – Agreement executed 8/12, **notice to proceed issued 8/14. Construction started 9/9/13 Pipr work completed**

5. Borrowing – Reimburse Capital Reserve for design and construction funds. Submitted loan application. Board of Supervisors authorized borrowing on 9/3. Authority adopted resolution on 9/9. **Settlement**

October 16, 2013

To the Members of the Board
c/o Mr. Francis X. Beck, Jr., Chairman
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6107

CLIENTS COPY
MAILLIE LLP
CERTIFIED PUBLIC ACCOUNTANTS

AUDIT OBJECTIVE AND SCOPE

You have requested that we audit the statement of net position of the East Goshen Municipal Authority as of December 31, 2013, and the related statements of revenues, expenses and changes in net position and cash flows for the year then ended and the related notes to the financial statements, which collectively comprise the East Goshen Municipal Authority's basic financial statements. We are pleased to confirm our acceptance and our understanding of this audit engagement by means of this letter. Our audit will be conducted with the objective of our expressing an opinion.

Accounting principles generally accepted in the United States of America require that management's discussion and analysis and budgetary comparison information be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. As part of our engagement, we will apply certain limited procedures to the required supplementary information (RSI) in accordance with auditing standards generally accepted in the United States of America. These limited procedures will consist primarily of inquiries of management regarding their methods of measurement and presentation, and comparing the information for consistency with management's responses to our inquiries. We will not express an opinion or provide any form of assurance on the RSI. The following RSI is required by accounting principles generally accepted in the United States of America.

This RSI will be subjected to certain limited procedures but will not be audited:

- Management's Discussion and Analysis

Partners

D. Scott Detar
James M. Powers
Glenn B. Bachman
Raymond T. Mock
Robert L. Caruso
Edward J. Furman
Robert L. Boland
Donald J. Pierce
Richard A. Flanagan, IV
Craig S. Springer
Robert C. Hershey, Jr.
Gregory J. Shank
Laurie E. Harvey

Principals

Edward Fronczkowski
S. Mark Fuga
James E. Yiaski
William Breslawski Jr.
Shawn M. Cahill
Kathleen A. Wilczek



To the Members of the Board
c/o Mr. Francis X. Beck, Jr., Chairman
East Goshen Municipal Authority

- 2 -

October 16, 2013

AUDITOR RESPONSIBILITIES

We will conduct our audit in accordance with auditing standards generally accepted in the United States of America (GAAS). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the basic financial statements are free from material misstatement. An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to error, fraudulent financial reporting, misappropriation of assets, or violations of laws, governmental regulations, grant agreements, or contractual agreements. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

Because of the inherent limitations of an audit, together with the inherent limitations of internal control, an unavoidable risk that some material misstatements may not be detected exists, even though the audit is properly planned and performed in accordance with GAAS.

In making our risk assessments, we consider internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. However, we will communicate to you in writing concerning any significant deficiencies or material weaknesses in internal control relevant to the audit of the financial statements that we have identified during the audit.

MANAGEMENT RESPONSIBILITIES

Our audit will be conducted on the basis that management and those charged with governance acknowledge and understand that they have responsibility:

1. For the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America;
2. For the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to error; fraudulent financial reporting, misappropriation of assets, or violations of laws, governmental regulations, grant agreements, or contractual agreements; and

To the Members of the Board
c/o Mr. Francis X. Beck, Jr., Chairman
East Goshen Municipal Authority

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October 16, 2013

3. To provide us with:
 - a. Access to all information of which management is aware that is relevant to the preparation and fair presentation of the financial statements, such as records, documentation and other matters;
 - b. Additional information that we may request from management for the purpose of the audit; and
 - c. Unrestricted access to persons within the entity from whom we determine it necessary to obtain audit evidence.

As part of our audit process, we will request from management and those charged with governance, written confirmation concerning representations made to us in connection with the audit.

REPORTING

We will issue a written report upon completion of our audit of the East Goshen Municipal Authority's basic financial statements. Our report will be addressed to the governing body of the East Goshen Municipal Authority. We cannot provide assurance that unmodified opinions will be expressed. Circumstances may arise in which it is necessary for us to modify our opinions, add an emphasis-of-matter or other-matter paragraph(s), or withdraw from the engagement.

ENGAGEMENT ADMINISTRATION, FEES AND OTHER

We understand that your employees will prepare all confirmations we request and will locate any documents or invoices selected by us for testing.

If you intend to publish or otherwise reproduce the financial statements and make reference to our firm, you agree to provide us with printers' proofs or masters for our review and approval before printing. You also agree to provide us with a copy of the final reproduced material for our approval before it is distributed.

During the course of the engagement, we may communicate with you or your personnel via fax or e-mail, and you should be aware that communication in those mediums contains a risk of misdirected or intercepted communications.



To the Members of the Board
c/o Mr. Francis X. Beck, Jr., Chairman
East Goshen Municipal Authority

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October 16, 2013

During the course of our professional practice, with the prior written consent of our clients, we provide our clients' confidential accounting and/or financial data, without the clients being specifically identified, to a third party, Sageworks, Inc., for statistical and/or industry research and/or benchmarking purposes only. In the course of this engagement, or thereafter, as long as you are a client of Maillie LLP, we may wish to provide your confidential data to that third party in such a format. You will not be identified in any way. By your signature on this letter, you expressly authorize us to make such disclosure of your confidential accounting and/or financial data, as we may elect within our discretion, with the understanding that, in doing so, you will not be specifically identified.

James E. Yiaski, CPA, is the engagement principal for the audit services specified in this letter. His responsibilities include supervising Maillie LLP's services performed as part of this engagement and signing or authorizing another qualified firm representative to sign the audit report.

Our fees are based on the amount of time required at various levels of responsibility, plus actual out-of-pocket expenses. Invoices will be rendered as work progresses and are payable upon presentation. We estimate that our fee for the audit will be \$10,800. This fee is comprised of an \$8,300 fee combined with an estimated additional fee of \$2,500, which is due to the new bond issue and various construction projects. We will notify you immediately of any circumstances we encounter that could significantly affect this initial fee estimate.

Whenever possible, we will attempt to use the East Goshen Municipal Authority's personnel to assist in the preparation of schedules and analyses of accounts. This effort could substantially reduce our time requirements and facilitate the timely conclusion of the audit.

In accordance with our firm policies, work may be suspended if your account becomes 30 days or more overdue and will not be resumed until your account is paid in full. If we elect to terminate our services for nonpayment, our engagement will be deemed to have been completed upon written notification of termination, even if we have not completed our report. You will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket costs through the date of termination.

We will perform the following nonattest services:

- Preparation of financial statements based on your trial balances.



To the Members of the Board
c/o Mr. Francis X. Beck, Jr., Chairman
East Goshen Municipal Authority

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October 16, 2013

With respect to any nonattest services we perform, the East Goshen Municipal Authority's management is responsible for (a) making all management decisions and performing all management functions; (b) assigning a competent individual to oversee the services; (c) evaluating the adequacy of the services performed; (d) evaluating and accepting responsibility for the results of the services performed and (e) establishing and maintaining internal controls, including monitoring ongoing activities.

Further, we will be available during the year to consult with you on financial management and accounting matters of a routine nature.

During the course of the audit, we may observe opportunities for economy in, or improved controls over, your operations. We will bring such matters to the attention of the appropriate level of management, either orally or in writing.

The audit documentation for this engagement is the property of Maillie LLP and constitutes confidential information. However, we may be requested to make certain audit documentation available to various regulators pursuant to authority given to them by law or regulation, or to peer reviewers. If requested, access to such audit documentation will be provided under the supervision of Maillie LLP's personnel. Furthermore, upon request, we may provide copies of selected audit documentation to various regulators. The various regulators may intend, or decide, to distribute the copies of information contained therein to others, including other governmental agencies.

It is our policy to keep records related to this engagement for seven years. However, Maillie LLP does not keep any original client records, so we will return those to you at the completion of the services rendered under this engagement. When records are returned to you, it is your responsibility to retain and protect your records for possible future use, including potential examination by government or regulatory agencies.

At the conclusion of our audit engagement, we will communicate to those charged with governance the following significant findings from the audit:

- Our view about the qualitative aspects of the entity's significant accounting practices;
- Significant difficulties, if any, encountered during the audit;
- Uncorrected misstatements, other than those we believe are trivial, if any;
- Disagreements with management, if any;



To the Members of the Board
c/o Mr. Francis X. Beck, Jr., Chairman
East Goshen Municipal Authority

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October 16, 2013

- Other findings or issues, if any, arising from the audit that are, in our professional judgment, significant and relevant to those charged with governance regarding their oversight of the financial reporting process;
- Material, corrected misstatements that were brought to the attention of management as a result of our audit procedures;
- Representations we requested from management;
- Management's consultations with other accountants, if any; and
- Significant issues, if any, arising from the audit that were discussed, or the subject of correspondence, with management.

Please sign and return the attached copy of this letter to indicate your acknowledgment of, and agreement with, the arrangements for our audit of the financial statements including our respective responsibilities.

We appreciate the opportunity to be your financial statement auditors and look forward to working with you and your staff.

Respectfully,

MAILLIE LLP

James E. Yiaski, CPA

RESPONSE:

This letter correctly sets forth our understanding.

Acknowledged and agreed on behalf of the **East Goshen Municipal Authority** by:

Title: _____

Date: _____

CAPACITY RESERVATION AGREEMENT

THIS AGREEMENT, made the _____ day of _____, _____, by and between **EAST GOSHEN MUNICIPAL AUTHORITY** ("Authority"), a municipal authority organized and existing under the Pennsylvania Municipal Authorities Act of 1945, P.L. 382, as amended, and Patricia O'Neill ("Owner"), an owner or equitable owner of property in East Goshen Township,

WITNESSETH:

WHEREAS, Owner is the record title holder or equitable owner of property located at East Goshen Township, Chester County, being Tax Map Parcel Number 53-6-129.1 ("Property"); and

WHEREAS, Authority owns the East Goshen Township sewer system, regulates the connection of properties within the Township thereto and leases the sewer system to East Goshen Township ("Township"); and

WHEREAS, Owner wishes to reserve sufficient capacity in the sewage collection and treatment facilities of the Authority to serve the Property; and

WHEREAS, Authority and Owner intend to set forth herein the terms and conditions of the reservation of capacity.

NOW, THEREFORE, the parties hereto, each binding itself, its successors and assigns, and each representing that it has proper legal authority to enter into this agreement, and each intending to be legally bound hereby, do mutually represent, covenant and agree as follows:

1. Authority agrees to sell to Owner _____ gallons per day (gpd) or ONE (1) equivalent dwelling units (EDUs) of sewage capacity in the collection and treatment facilities of East Goshen Township, which Owner acknowledges to be sufficient for the intended use of the Property.

2. Authority agrees to reserve the required capacity for Owner for a period of one year in consideration of the payment by Owner of a reservation fee equal to 10% \$ 200⁰⁰ of the usual tapping fee \$ 2,000⁰⁰ imposed by the Authority at the time of physical connection to the system based upon the equivalent dwelling units (EDUs) sewage needs of the proposed use.

3. Owner agrees to pay the aforesaid reservation fee at the time of execution of this agreement, receipt whereof is acknowledged by the Authority. If at the end of the one-year reservation period Owner has failed to connect the Property to the sewer system, the reservation fee will be forfeited to the Authority. Upon the expiration of the reservation period, the Authority reserves the right, in its sole discretion, to provide for an additional year by requiring the payment of an additional 10% of the tapping fee, which additional reservation fee shall be

held according to the same terms and conditions as the initial reservation fee.

4. The balance of the tapping fee shall be paid at the time of issuance of a building permit(s) for the Property or at the end of the reservation period, unless the reservation is extended by the Authority as aforesaid.

5. Authority agrees to retain sufficient capacity in its system for Owner's use during the reservation period.

6. Owner agrees and recognizes that the connection of the Property shall be subject to all ordinances of East Goshen Township and the rules and regulations relating to the connection to the sewer system and effluent criteria. It is agreed that the reservation of capacity shall run with the land, and the terms of this agreement shall be binding upon and inure to the benefit of the parties hereto, their successors and assigns.

7. It is agreed by the Owner and the Authority that all Industrial and/or Commercial users will be required to execute a Capacity Reservation Agreement in a form acceptable to the Authority which shall be recorded in the office of the Chester County Recorder of Deeds.

10. It is agreed and understood by the Owner that the capacity hereby reserved shall be for the Property only and is not assignable or transferable to any other Property within or outside of East Goshen Township.

11. The Owner further understands and acknowledges that the

sewage treatment capacity available to the Authority and the Township in the West Goshen Township sewer system is subject to the terms and conditions of a certain inter-municipal agreement between the governing bodies and sewer authorities of East Goshen and West Goshen Townships. The Owner acknowledges that the continued entitlement of the Authority to provide to Owner the sewage capacity identified in paragraph 1 hereof is dependent upon all parties to that agreement honoring its terms and the proper functioning of the West Goshen Sewage Treatment Plant. The Owner does hereby release and hold harmless the Authority and the Township from any and all claims, damages or liability resulting to Owner from actions of West Goshen Township under the aforesaid inter-municipal agreement or circumstances relating to its sewage system which may affect the Authority's continued ability to provide the said sewage capacity.

IN WITNESS WHEREOF, the parties have caused these presents to be executed the day and year first above written.

ATTEST:

EAST GOSHEN MUNICIPAL AUTHORITY

Secretary

ATTEST:

OWNER:





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

November 6, 2013

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

Meters: All meters were read on a daily basis. We are waiting on bands for the probes before we can install the portable meters.

Pump Stations: Were visited on a daily basis.

C.C. Collection: We cleaned and televised 4050 feet in the Meadows. We will begin cleaning and televising Supplee Valley on Thursday. We replaced all the castings and lids in Grand Oak, Clover Lane and Heather Lane. We have been having problems with the Hershey Mill Pumping Station.

It appears that the main controller for the pumps is failing, a new controller has been ordered.

R.C. Collection: The contractor has finished the sewer line at the Reserve. (pictures attached) The new line was televised by the contractor. The pump station was stripped out by the Public Works Department. The pumps were sent to Deckmans for the rebuilt, they also will be changing the impellers for use at the Hunt Country Pump Station.

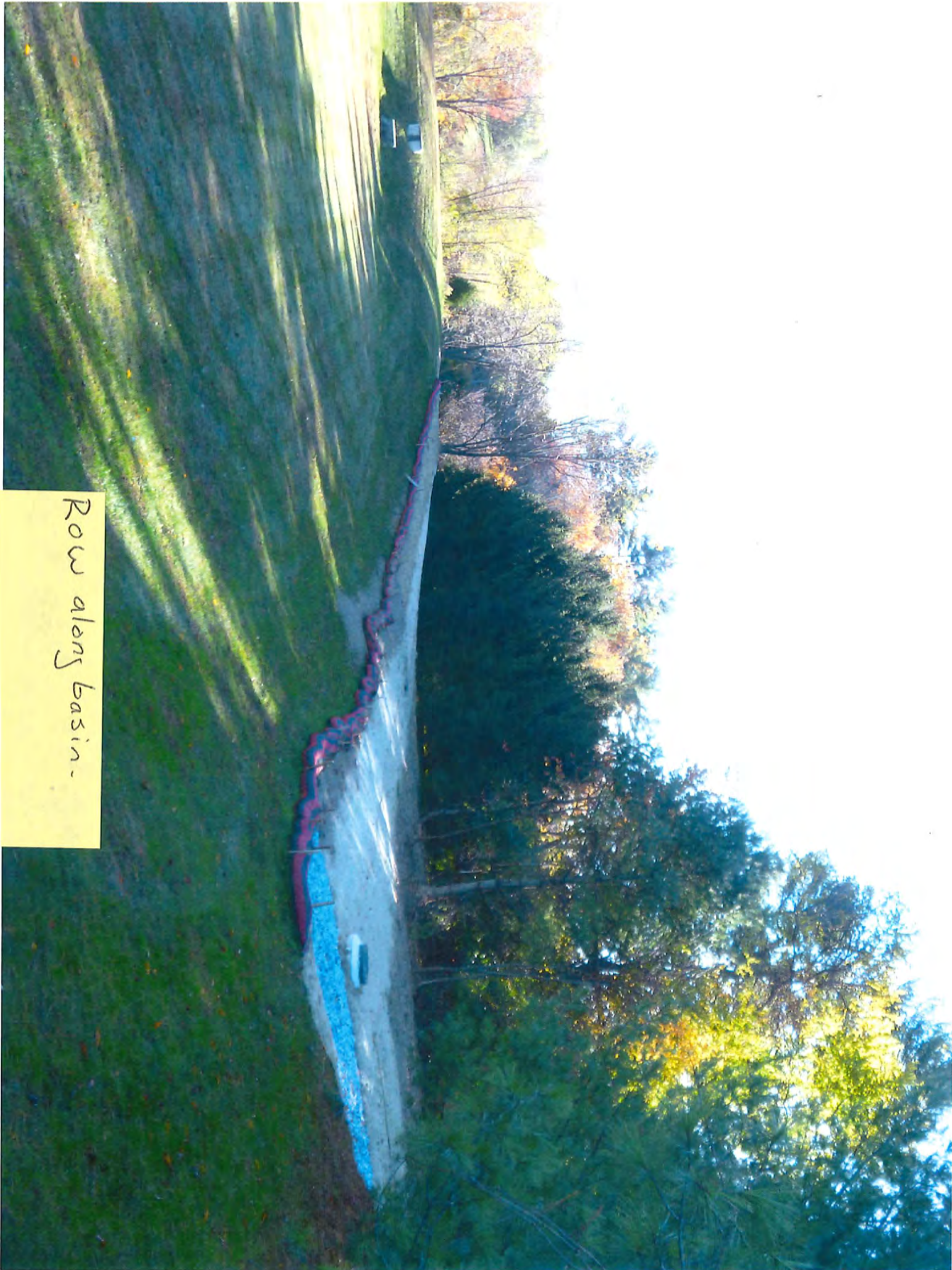
I met with the property owner that back up to the Hunt Country Pump Station to explain the renovations to the pump station. The resident was ok with that we are going to do.

R.C. Plant: No problems to report.

Alarms: We received a total of 27 alarms in October.

PA One Calls: We received 86 PA One calls for the month of October.

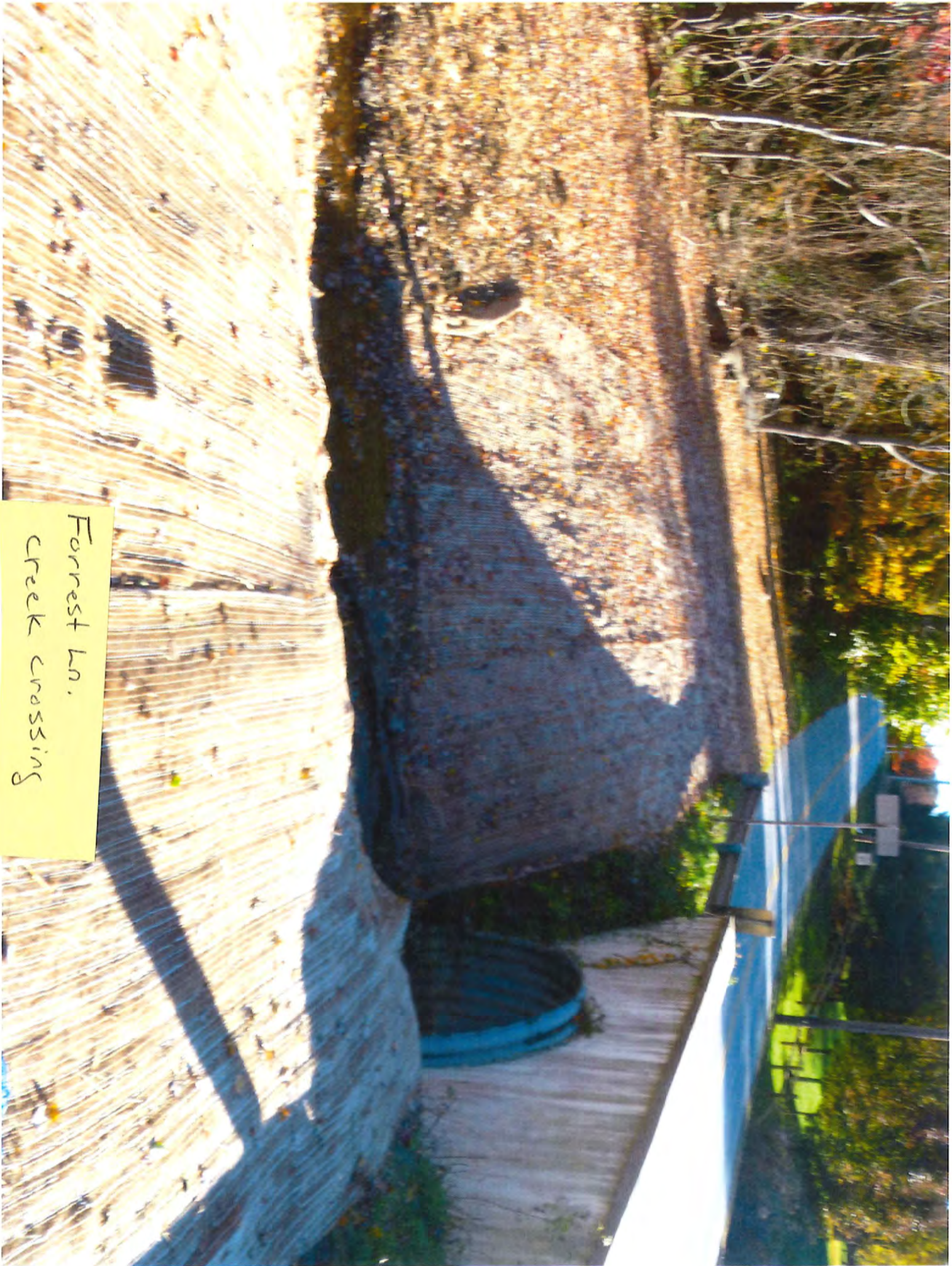
Lateral Repairs: 5 for the C.C. Collection
2 for the R.C. Collection.



Row along basin.



Old Driveway to
Pump Station.



Forrest Ln.
Creek Crossing



R03 Forest M Sign



MEMORANDUM

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

FROM: Michael Ellis, P.E.
Authority Engineer

DATE: November 6, 2013

SUBJECT: Engineer's Report

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- Pennoni continues to provide operations assistance as needed. No issues were brought to our attention in October.

Reserve PS Elimination

- We performed daily part-time construction observation of sewer installation, testing, pump station demolition, and restoration. We also reviewed and processed Payment Application #2.
- Wastewater was diverted into the new sewers on October 15, 2013. All work on the project has been completed including restoration. Before recommending final payment, the contractor needs to provide a letter from their geotechnical engineering confirming adequate backfill compaction within the detention basin berm as well as written notification that they will return in the spring to remove the filter sock along the creek.

Reservoir Road Pump Station Act 537 Plan

- We have continued the topographic and existing conditions field survey of the proposed pump station parcel and proposed force main route to the tentatively proposed gravity sewer connection in Bow Tree. We made a PA One Call request and have received responses that utility providers are physically marking their facilities in the area of the proposed pump station and along the proposed force main route. Once all utilities are marked, we will complete the field survey and finalize the existing conditions plan.
- Our modeling indicates the Ridley Creek interceptor likely does not have adequate capacity for 300,000 gpd from the pump station. Mark Miller has field confirmed the pipe sizes and materials in the modeling, which are 15" diameter PVC. We are

coordinating to obtain interceptor as-built plans in order to confirm modeled pipe slopes to determine if the model may be underestimating capacities.

- We have prepared and submitted conceptual scopes, mapping, and construction cost estimates for five force main routing alternatives to the Township for review and discussion. The base alternative assumes no upgrades to any existing gravity interceptor sewers, whereas the four other alternatives are based upon replacing approximately 1,000 L.F. of interceptor sewers with larger pipes. The Act 537 Plan will be completed and submitted to the review agencies after the routing and extents of the force main and sewer upgrades are determined.

Semi-Annual I/I Report

- The semi-annual report was finalized and submitted to the Township.

Hunt Country Pump Station

- We performed field visits with Mark Miller to both the Hunt Country and Reserve Pump Stations in late September to evaluate the feasibility of replacing the pumps, generator, and other equipment at the Hunt Country PS with the equipment the Township removed from the Reserve PS. We performed a cursory analysis of the design operating points of the pumps based upon available information, and it appears the Reserve PS pumps are oversized for use in the Hunt Country PS and will need smaller impellers. We are awaiting further design data on the Hunt Country PS system curve in order to determine the exact impeller size required. We have prepared a draft memo summarizing our findings and recommendations.



Monthly Operations Report: October 2013

Treatment Process Operation

During September 2013, there were no exceedances of the final effluent discharge limitations for outfall 001 and Outfall 002.

Table 1 illustrates the final effluent composite sample data reported for the September 2013 eDMR.

Table 1

September 2013 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
September 5, 2013	0.258	3.0	6.5	9	19	0.100	0.22	0.22	0.47	1	0.0000
September 12, 2013	0.317	2.5	6.6	14	37	0.10	0.26	0.50	1.32	1	0.0000
September 19, 2013	0.150	9.9	12.4	7	9	0.10	0.13	0.60	0.75	1	0.0000
September 25, 2013	0.128	ns	ns	3.0	3	ns	ns	0.52	0.56	ns	ns
September 26, 2013	0.146	6.0	7.3	5	6	0.15	0.18	0.18	0.22	1	0.0000
September 27, 2013	0.150	ns	ns	3.0	4	ns	ns	0.31	0.39	ns	ns
Average	0.1915	5.4	8	7	13	0.112	0.20	0.39	0.62	1	0.0000
Minimum	0.1280	2.5	6	3	3	0.100	0.13	0.18	0.22	1	0.0000
Maximum	0.3170	9.9	12	14	37	0.146	0.26	0.60	1.32	1	0.0000

ns = no sample collected

The monthly average total phosphorus concentration was 0.39 mg/L as compared to the discharge limitation of 0.5 mg/L. During the month, the final effluent total phosphorus concentration discharged ranged from 0.18 mg/L to 0.60 mg/L. Two (2) additional samples were collected and analyzed during the month.

Flow to Applebrook, Outfall 002, continued during September and mid October. Table 2 illustrates the data reported for the September 2013 eDMR.



Table 2

September 2013 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
September 5, 2013	No Discharge										
September 12, 2013	0.0088	2.5	0.2	14	1	0.100	0.01	0.50	0.04	1	0.0000
September 19, 2013	0.1434	9.9	11.8	7	8	0.100	0.12	0.60	0.72	1	0.0000
September 25, 2013	0.1423	ns	ns	3	4	ns	ns	0.52	0.62	ns	ns
September 26, 2013	0.1275	6.0	6.4	5	5	0.146	0.16	0.18	0.19	1	0.0000
September 27, 2013	0.1269	ns	ns	3	3	ns	ns	0.31	0.33	ns	ns
Average	0.1098	6.1	6	6	4	0.115	0.09	0.42	0.38	1	0.0000
Minimum	0.0088	2.5	0	3	1	0.100	0.01	0.18	0.04	1	0.0000
Maximum	0.1434	9.9	12	14	8	0.146	0.16	0.60	0.72	1	0.0000

Table 3 illustrates the influent wastewater pollutant loadings for September 2013. The influent loadings remained within the treatment facility design loadings.

Table 3

September 2013 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
September 5, 2013	0.344	232	665	208	597	33.2	95	50.4	145	5.7	16
September 12, 2013	0.377	97.8	281	325	932	34.8	100	52.7	151	7.6	22
September 19, 2013	0.372	177	508	225	645	35.4	102	47.2	135	5.8	17
September 26, 2013	0.308	233	668	192	551	34.5	99	47.1	135	5.2	15
Average	0.3503	185	530	238	681	34.5	99	49.4	142	6.1	17
Minimum	0.3078	98	281	192	551	33.2	95	47.1	135	5.2	15
Maximum	0.3770	233	668	325	932	35.4	102	52.7	151	7.6	22



On October 2013, Mike Brenner, Water Quality Specialist from PA DEP was on site to conduct a facility inspection. No violations were observed. Overall, the report indicated the facility and final effluent are in good condition. A copy of the report is attached.

During the month of October 2013, there are no exceedances of the permit limitations for Outfall 001 and Outfall 002. Table 4 presents the final effluent data for the month of October 2013.

Table 4

October 2013 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
October 3, 2013	0.146	2.3	2.8	9	11	0.421	0.51	0.32	0.39	1	0.0000
October 7, 2013	0.227	2.0	3.8	2	4	0.10	0.19	0.16	0.30	1	0.0000
October 17, 2013	0.369	2.2	6.8	2	6	0.10	0.31	0.34	1.05	1	0.0000
October 22, 2013	0.206	2.0	3.4	1	2	0.12	0.20	0.24	0.41	1	0.0000
October 29, 2013	0.248	3.1	6.4	3.0	6	0.147	0.30	0.34	0.70	1	0.0000
Average	0.2392	2.3	4.6	3	6	0.177	0.30	0.28	0.57	1	0.0000
Minimum	0.1460	2.0	2.8	1	2	0.100	0.19	0.16	0.30	1	0.0000
Maximum	0.3690	3.1	6.8	9	11	0.421	0.51	0.34	1.05	1	0.0000

Transfer of treated effluent to the Applebrook Golf Course continued during mid-October. Flow was discontinued beginning October 15th and will remain off until the Spring of 2014. During October, the average daily average for Outfall 002 was 135,600 gallons per day.



Table 5 presents available data for the Applebrook discharge.

Table 5

October 2013 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
October 3, 2013	0.1407	2.3	2.7	9	11	0.421	0.49	0.32	0.38	1	0.0000
October 7, 2013	0.1482	2.0	2.5	2	2	0.100	0.12	0.16	0.20	1	0.0000
October 17, 2013	0.0000	No Discharge									
October 22, 2013	0.0000										
October 29, 2013	0.0000										
Average	0.0578	2.2	2.6	6	7	0.261	0.31	0.24	0.29	1	0.0000
Minimum	0.0000	2.0	2.5	2	2	0.100	0.12	0.16	0.20	1	0.0000
Maximum	0.1482	2.3	2.7	9	11	0.421	0.49	0.32	0.38	1	0.0000

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility. Composite samples are collected at the influent doghouse manhole. The influent flow meter reading is collected from the influent flow meter located prior to the Screening Building, excluding the internal recycle flows.

Table 6 presents the available pollutant data for the influent wastewater collected at the doghouse manhole.



Table 6

October 2013 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
October 3, 2013	0.337	138	388	168	472	24.5	69	42	118	4.8	13
October 7, 2013	0.462	178	500	150	421	33.9	95	47.9	135	6	17
October 17, 2013	0.365	120	337	184	517	33.0	93	49.3	139	6.2	17
October 22, 2013	0.338	181	509	156	438	31.3	88	49.6	139	6.1	17
October 29, 2013	0.335	271	761	208	584	37.8	106			7.9	22
Average	0.3675	178	499	173	487	32.1	90	47.2	133	6.2	17
Minimum	0.3352	120	337	150	421	24.5	69	42.0	118	4.8	13
Maximum	0.4620	271	761	208	584	37.8	106	49.6	139	7.9	22

Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during the month of October.

Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Foam concentrations remained around the same concentration as during September. Present surface area coverage during React Phase ranges from approximately 50 to 80%. The foam color remains as light to medium brown in color and averages 2 to 4 inches in depth

Daily monitoring of the influent and final effluent 24-hour composites samples for total phosphorus is ongoing. Daily analysis of the final effluent flow equalization grab sample is total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. The volume of aluminum sulfate solution to the SBRs was increased at beginning of October as total phosphorus concentrations in the SBRs



during September were elevated. The dosages were gradually reduced after the first week in October to a daily average of 63 gallons per day at the end of October.

SBR No. 2 remains out of service as a treatment unit. The tank was partially filled during the storm event.

Process Monitoring On-Line Instrumentation:

Coordination with the Hach Company has been placed on hold until a demonstration unit becomes available

Flow data:

October 2013		
Flow Meter Location	Total Volume for Month, MGD	Average Daily Flow, gpd
Influent Wastewater to Screening Building	11.203	361,390
Influent Wastewater to SBRs	12.442	401,355
Internal Recycle	1.190	38,402
Treated Effluent to Disc Filters	11.700	377,432
Final Effluent Discharge	8.717	281,194
Applebrook Golf Course	1.899	135,600

Chemical Usage:

October 2013		
Chemical	Daily Average	Total Monthly
Soda Ash	429 lbs./day	13,300 pounds
Magnesium Hydroxide	0 gpd	0 gallons
Aluminum Sulfate solution	70.5 gpd	2,187 gallons
Polymer (centrifuge)	9.0*	127 gallons

**Eighteen (18) days of centrifuge operation*



Solids Dewatering and Disposal: October 2013

Sludge Dewatering Summary	
Gallons of sludge dewatered	237,435 gallons
Average Dewatered Total Solids, %	19.4%
Wet Tons	69.4
Dry Tons	7.64
Number of dumpsters	4

During the month, sludge wasting to the sludge holding tanks and decanting of the sludge holding tanks was ongoing. Process monitoring included pH, total alkalinity and total solids.

Sludge holding tank No. 1 was in service. The level at the beginning of the month was 4.56 feet and the level at the end of the month was 9.77 feet. The initial total solids concentration were 0.80% and ended the month as 0.93% total solids. 70,525 gallons of supernatant was decanted during the month. A total of 700 pounds of soda ash were added during the month for pH adjustment.

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 10.69 feet and the level at the end of the month was 8.44 feet. The initial total solids concentration were 1.07% and ended the month as 0.72% total solids. No supernatant was decanted during the month. A total of 750 pounds of soda ash were added during the month for pH adjustment.

Significant Storm Events

No significant storms were experienced during the month of October 2013.

Minor Repairs and Preventative Maintenance

1. On October 1, 2013, disc filter number 1 failed. Troubleshooting determined failed UPS within the control panel. Temporarily rewired disc filter controls to allow for operations should the filter be required.
2. On October 1, 2013, identified three (3) of the four (4) actuators for the intake louver located within the SBR Building Blower room were not functioning as intended. Replacement of the failed actuators is recommended.



3. On October 4, 2013, Allied Control Services (ACS) was on site to calibrate flow meters and charts.
4. On October 4, 2013, Lenni Electric was on site and replaced the three (3) influent pump electrical service disconnects located at the influent wet well.
5. On October 8, 2013, the replacement UPS for disc filter number 1 was installed. The disc filter was returned to service.
6. On October 14, 2013, disc filter number 1 backwash cycle run times were observed to be excessive and atypical. Troubleshooting determined that the level transducer failed.
7. On October 16, 2013, the telescopic valve for sludge tank number 1 was observed to have a limited travel distance and not achieving the full travel distance of approximately 4- feet. The vendor will be contacted to investigate adjusting the telescopic valve control points to achieve the full travel distance.
8. On October 28, 2013, the replacement level transducer for disc filter number 1 was installed. The disc filter was returned to service.
9. On October 28, 2013, the Siemens HIM control panel date was observed to be incorrect. The HIM date and time were updated, however, the changes were observed to have returned to an incorrect date on the following day. Gary Roberts from ICI will be contacted.
10. During the month of October, SBR 3 decanter was observed to have risen partially or completely out of the SBR water surface. The decanter was regularly filled with water to return it to its desired position within the SBR basin. Paul Christensen from Siemens will be contacted to assist towards identifying conditions which would result in the decanter's position being above the water surface.



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

NPDES COMPLIANCE INSPECTION REPORT
Section A: National Data System Coding

NPDES					Mo. / Day / Yr.					Inspection Type				Inspection ID No.										
P	A	0	0	5	0	5	0	4	1	0	2	9	1	3	R	T	N	C						
Primary Facility Name Ridley Creek STP – East Goshen Municipal Authority										Municipal Authority or Operating Authority East Goshen														
Location of Facility 1751 Towne Drive										Permit Expiration Date 2/28/2017														
Municipality East Goshen					County Chester					Permit Renewal Application Due 9/1/2016														
Primary Facility Kind <input checked="" type="checkbox"/> Sewage <input type="checkbox"/> Industrial Waste <input type="checkbox"/> Stormwater <input type="checkbox"/> Other																								
Responsible Person Mr. Louis F. Smith, Jr						Operator In Responsible Charge Scott Towler																		
Title Township Manager						Certificate Number T0390		Class & Subclasses A, E 1,2,3,4		Client ID Number 196196														
Address 1580 Paoli Pike						Address																		
West Chester, PA 19380																								
Business Phone Number 610-692-7171			FAX Number			Business Phone Number 484-401-4198			Cell Phone Number															
E-mail Address						E-mail Address Scott_towler@comcast.net																		
VIOLATIONS: <input type="checkbox"/> Yes <input type="checkbox"/> Samples have been collected by the Department, violations may be revealed upon receipt of the analysis.																								
No violations noted. See Page 3 for additional information.																								
Name of Person Interviewed Rob Sieve				Date 10/29/13		Name of Inspector Michael Brenner				Date 10/29/13														
Signature of Person Interviewed				Phone Number		Signature of Inspector <i>[Signature]</i>				Phone Number 484-250-5154														
Title Plant Operator						Title Water Quality Specialist																		
This document is official notification that a representative of the Department of Environmental Protection inspected the above facility or site. The findings of this inspection are shown above and on any attached pages.																								
Any violations which were uncovered during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses of the discharge and review of Department records. Notification will be forthcoming, if such violations are noted.																								



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

NPDES COMPLIANCE INSPECTION REPORT

Treatment Process				
Treatment Units	Total	On-Line	Inoperable	Comments
Muffin Monster	1	1	0	
Auger Monster	1	1	0	
Sequencing batch reactor	4	3	0	Only need three due to low flows
Disc filter	2	2	0	
Ultraviolet disinfection	2	1	0	Alternate active bank
Sludge holding tank	2	2	0	
Post-EQ tank	2	2	0	

Chemical Additions: Alum, magnesium hydroxide (intermittent)

Process Control	
<input checked="" type="checkbox"/> Color and <input checked="" type="checkbox"/> Odor	Inspector Comments/Observations/Results Good color, no odor
<input checked="" type="checkbox"/> Settleability (m/L)	~200
<input checked="" type="checkbox"/> Dissolved Oxygen (mg/L)	Between 1.0 and 2.6 (turns on/off automatically)
<input type="checkbox"/> Sludge Blanket (ft.)	
<input checked="" type="checkbox"/> Mixed Liquor Suspended Solids (mg/L) <input type="checkbox"/> MLVSS	SBR 1: ~ 900 SBR 2 and 3: ~2000
<input type="checkbox"/> Microscopic Examination of MLSS	
<input type="checkbox"/> Others	



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

NPDES COMPLIANCE INSPECTION REPORT

Additional Comments

On this date, I conducted a routine inspection of the Ridley Creek STP in East Goshen Township. I was accompanied by Rob Sieve of Aqua. Rob performs routine daily operations at the plant. I spoke to Scott Towler, certified operator for the plant, on the phone before the inspection.

1. The headworks consists of a muffin monster and an auger screen. Both units appeared to be working properly. A tote of magnesium hydroxide is kept in the screen building, but Rob said it isn't used anymore. Instead, soda ash is used, as a pH adjuster.
2. There are four sequencing batch reactors (SBRs) in the plant. Due to continued low flows, only three SBRs are online at a time. The tanks tend to go through the same phases at the same time each day. Each cycle is six hours long. The individual phases can be adjusted, but the length of the cycle remains six hours. The tanks contain foam year-round, to a certain degree. I observed a brown foam of moderate thickness covering about 70% of the aerated SBRs, which, during this inspection, were #1 and #3. SBR 4 was in idle mode when I inspected it. That tank had foam covering the entire surface. Dissolved oxygen in the SBRs is automatically adjusted to stay between 1.0 and 2.6 mg/L. To increase alkalinity, the operator adds approximately two bags of soda ash per day to each tank. Alum is also added to the SBRs.
3. The mixed liquor concentration in SBR 1 is much lower than that of 3 and 4 (~900 mg/L vs. 2000 mg/L). Rob said that SBR 1 doesn't get the same level of solids loading as the other two, because it always tends to fill up at the same time of day, with lower-concentrated flow. Mixed liquor from SBR 3 or 4 is periodically transferred to SBR 1 to help increase its MLSS.
4. Decanted water from the SBRs goes to one of two post-equalization tanks. The water is kept aerated. Wasted sludge from the SBRs goes to the outer ring of these EQ tanks. The sludge is kept aerated, except before a decant cycle. Dewatered sludge is put through a filter press for further thickening. Clear water goes to a flocculation tank/filter dosing tank, where alum is added.
5. There are two disc filters. Both units were online and appeared to be working well. One of the filters was backwashing during the inspection.
6. Final effluent passes through an ultraviolet disinfection system. The bulbs appeared to be on and working properly. The final effluent was clear.

2013 FLOWMETERS

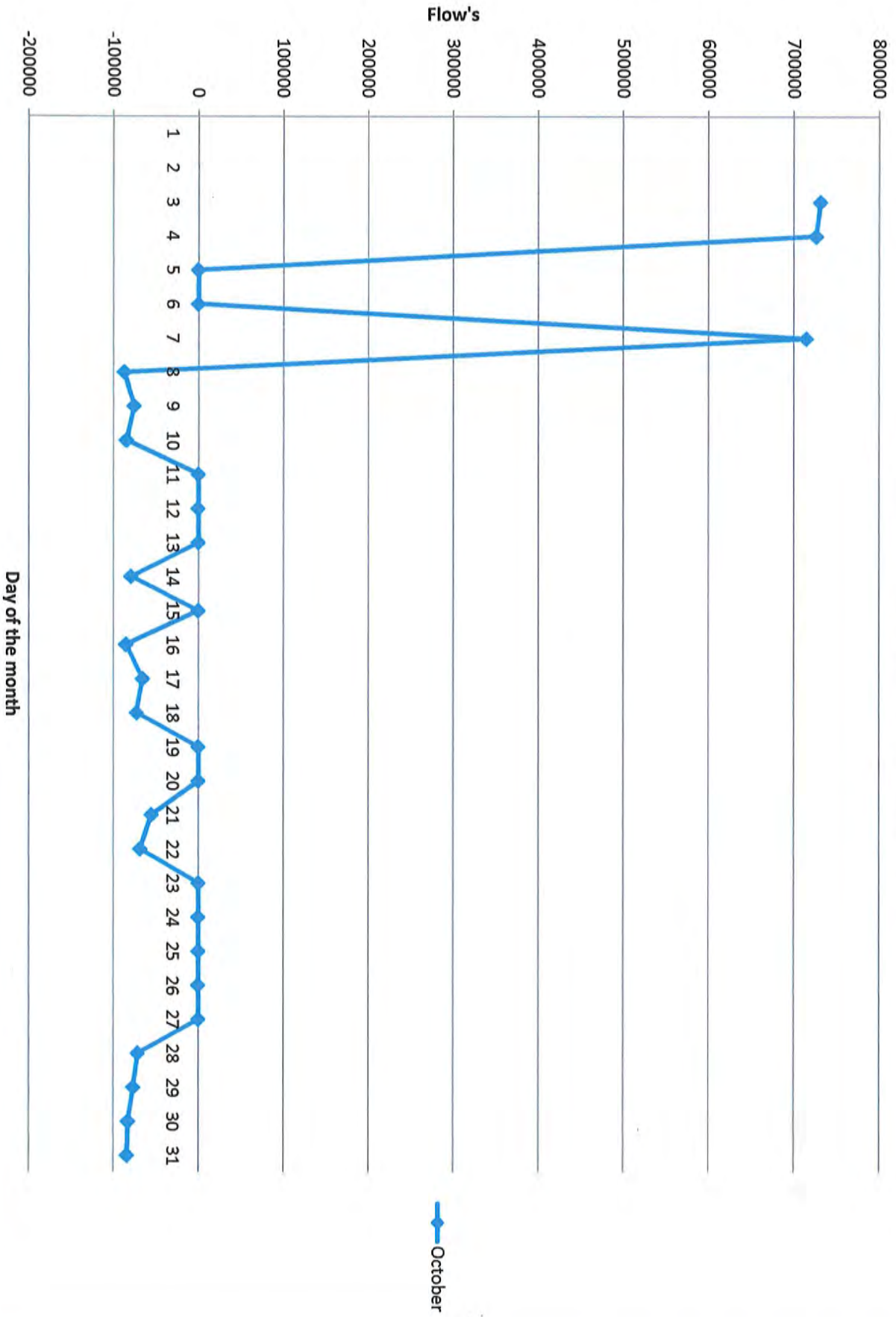
2013 OCTOBER 4TH QUARTER - METERS FROM WEST GOSHEN - CC COLLECTION												
Precip	DATE	WESTTOWN WAY READING	GPD	ELLIS LANE READING	GPD	PAOLI PIKE READING	GPD	WILSON DRIVE READING	GPD	SUMMIT GPD	NET FLOWS	DATE
0.00	10/01/13											10/01/13
0.00	10/02/13											10/02/13
0.00	10/03/13	1,431,009	940,333	2,435,159	82,263	1,579,177	59,373	17,542,428	67,163	24,000	731,533	10/03/13
0.00	10/04/13	1,431,944	935,000	2,443,216	80,570	1,585,234	60,570	17,549,142	67,140	24,000	726,720	10/04/13
0.00	10/05/13										0	10/05/13
0.00	10/06/13										0	10/06/13
0.50	10/07/13	1,434,693	916,333	2,467,827	82,037	1,602,825	58,637	17,567,382	60,800	24,000	714,860	10/07/13
0.00	10/08/13											10/08/13
0.05	10/09/13										-87,180	10/09/13
1.00	10/10/13										-76,020	10/10/13
1.80	10/11/13										-84,960	10/11/13
0.00	10/12/13										0	10/12/13
0.00	10/13/13										0	10/13/13
0.00	10/14/13										-79,393	10/14/13
0.00	10/15/13										0	10/15/13
0.00	10/16/13										-85,365	10/16/13
0.15	10/17/13										-65,770	10/17/13
0.00	10/18/13										-72,940	10/18/13
0.20	10/19/13										0	10/19/13
0.00	10/20/13										0	10/20/13
0.00	10/21/13										-55,307	10/21/13
0.03	10/22/13										-68,470	10/22/13
0.00	10/23/13										0	10/23/13
0.00	10/24/13										0	10/24/13
0.00	10/25/13										0	10/25/13
0.00	10/26/13										0	10/26/13
0.00	10/27/13										0	10/27/13
0.00	10/28/13										-71,448	10/28/13
0.30	10/29/13										-76,900	10/29/13
0.00	10/30/13										-82,800	10/30/13
0.00	10/31/13										-84,200	10/31/13
4.03		930,556		81,623		59,527		74,116		24,000	73,898	
				EG TWP								
	MONTH TO DATE			4.03								
	NORMAL MONTH TO DATE			49.01								
	YEAR TO DATE											
	NORMAL YEAR TO DATE											

2013 SUMMARY OF METER READINGS

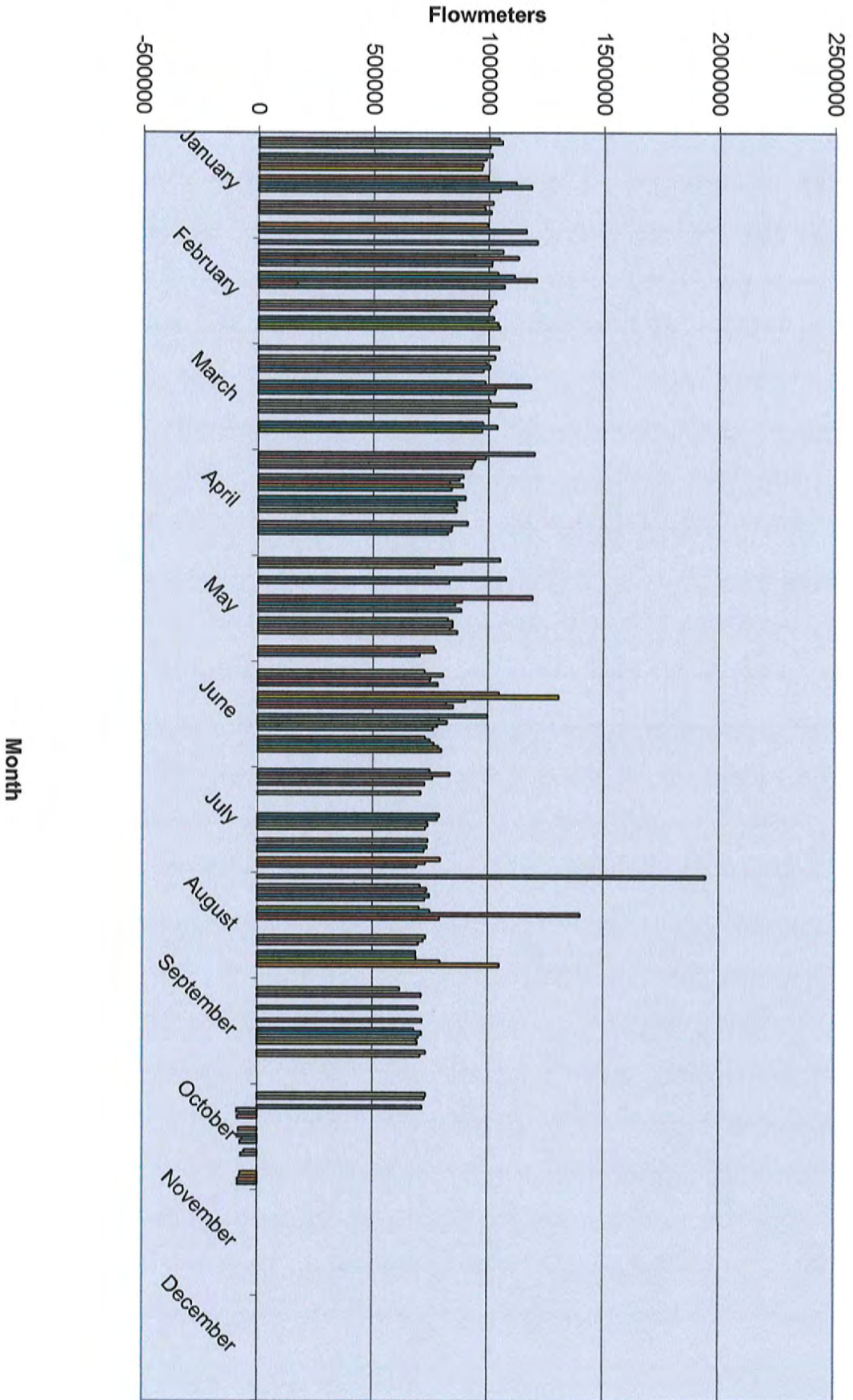
	WESTTOWN WAY	ELLIS LANE	PAOLI PIKE	WILSON DRIVE	SUMMIT	HERSHEY MILL	ASHBRIDGE	HICKS	RESERVOIR	SHERMAN	BARKWAY
JANUARY	1,277,069	120,481	60,165	63,671	20,400	89,992	70,106		922,377	7,363	11,147
FEBRUARY	1,297,700	101,955	56,216	77,811	20,400	89,500	64,950		936,368	7,669	10,544
MARCH	1,285,156	105,488	68,636	85,607	20,400	79,416	66,580		594,040	3,899	7,122
APRIL	1,127,728	92,814	69,146	68,496	20,400	73,245	59,483		1,030,755	5,310	9,527
MAY	1,109,530	95,306	70,372	69,500	20,400	81,412	65,970		864,850	6,661	11,011
JUNE	939,067	145,961	76,451	82,547	20,400	95,383	68,653		773,741	5,759	11,576
JULY	1,167,686	118,589	72,476	103,441	20,400	85,258	64,865		698,462	5,572	10,464
AUGUST	1,124,593	117,115	71,356	87,438	20,400	81,972	64,039		788,067	6,199	9,700
SEPTEMBER	918,265	89,624	64,278	68,398	20,400				688,202		
OCTOBER	930,556	81,623	59,527	74,116	20,400				660,718		
NOVEMBER											
DECEMBER											
Total Flows											
Monthly Ave	1,117,735	106,896	66,862	78,103	20,400	84,522	65,581		795,758	6,054	10,136

To
West Goshen 865,875

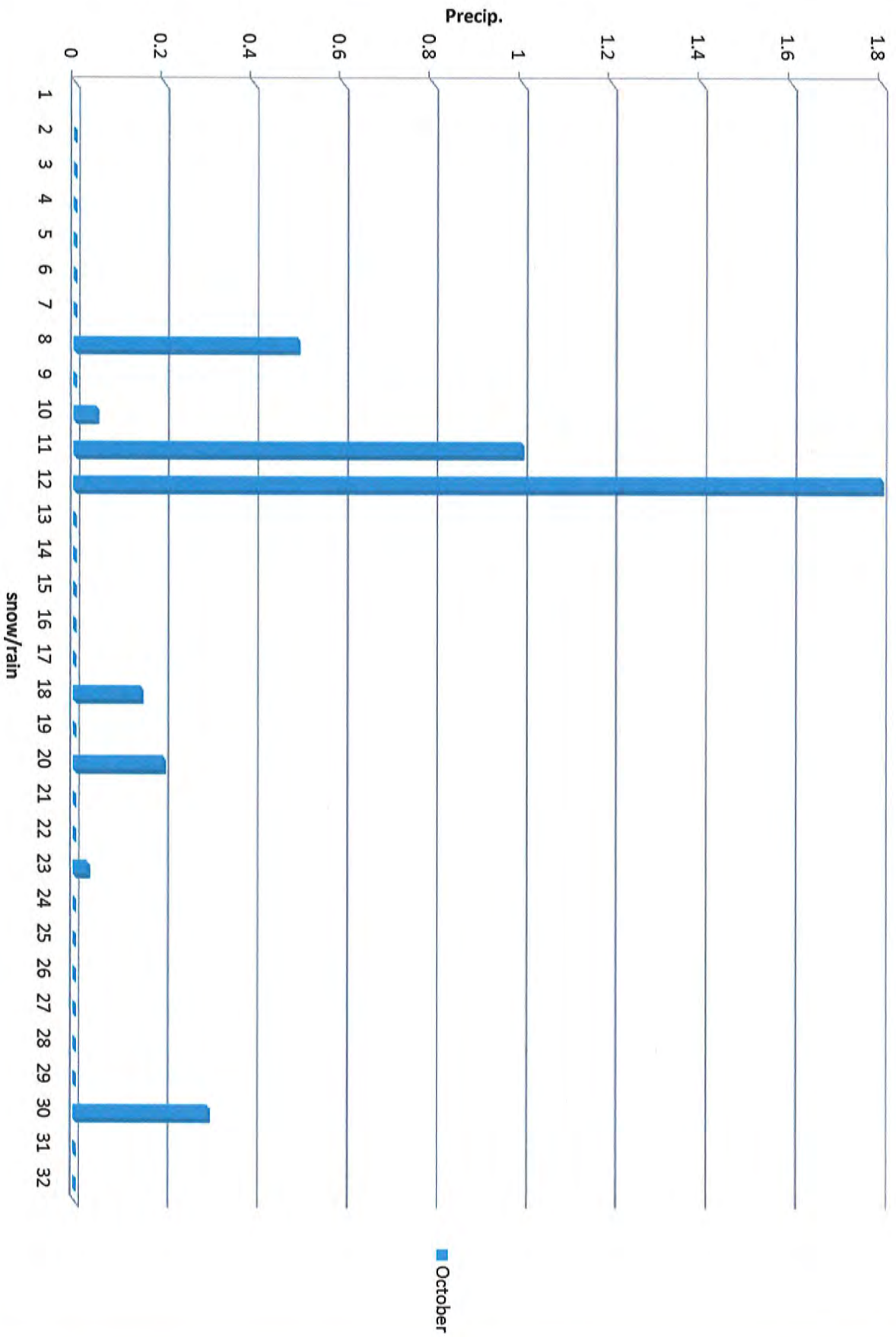
Flowmeters October 2013



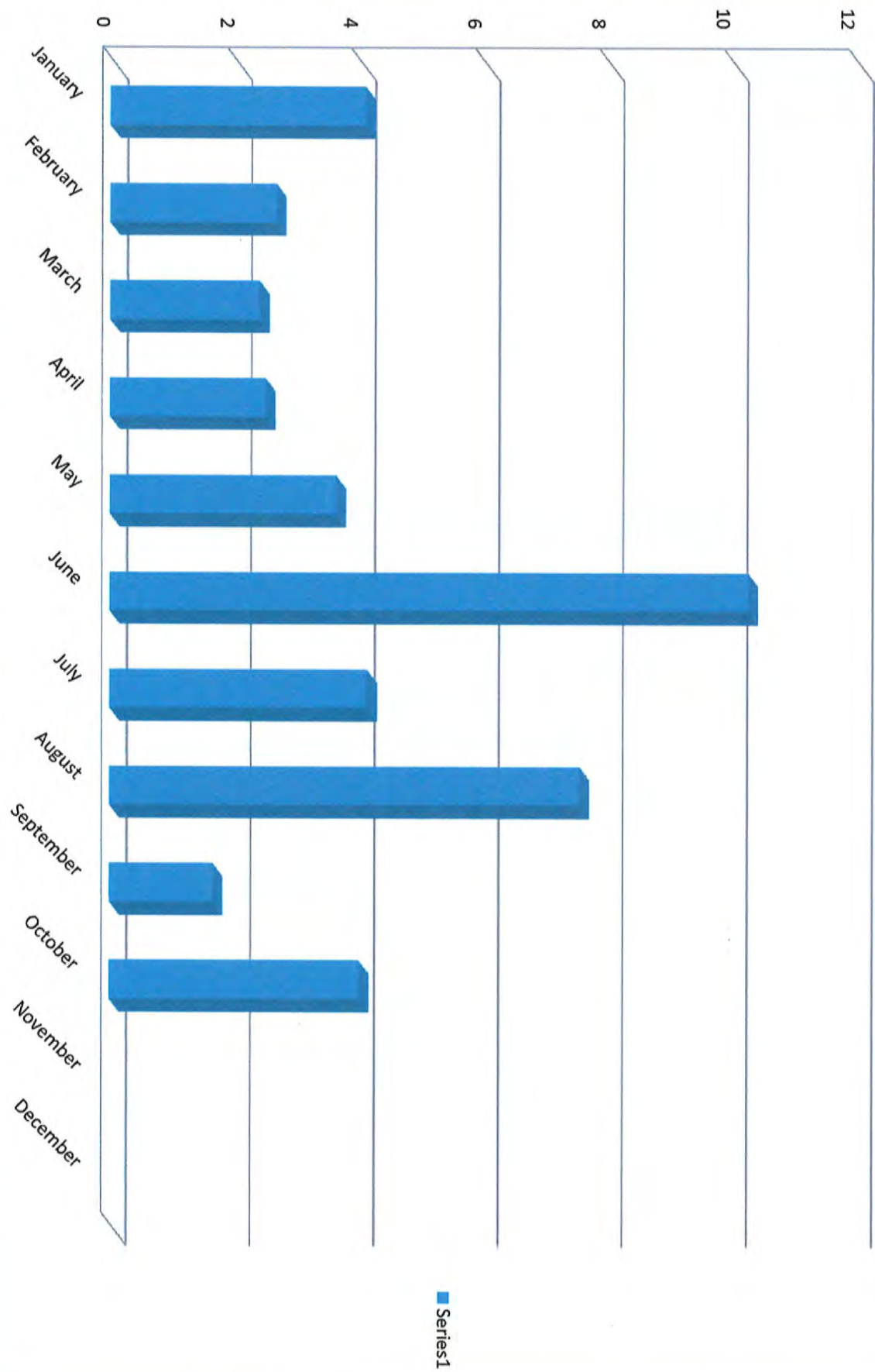
Monthly Totals 2012 Jan-Dec



October Precip. 4.03 - 2013



2013 Monthly Precipitation



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

FYI

October 28, 2013

Dear Property Owner:

The purpose of this letter is to inform you that the owner of 1637 Manley Rd., West Chester, PA 19380, has submitted a Subdivision application and plans for review and approval by the Township. The owner, Patricia O'Neill, proposes a 2 lot subdivision of her property. The existing parcel has an area of approximately 5.84 acres and has an existing single family home and accessory structures. The sketch plan proposes the subdivision of one new 1.21 acre lot to the east of the existing home for a new residential single family use.

Pursuant to Township policy, property owners and residents within 1000 feet of the subject property are notified of sketch plan submissions.

The meeting dates and times scheduled for the review and discussion of this application are outlined below and subject to change.

November 6, 2013 - Planning Commission meeting (workshop at 7:00 pm, formal meeting @ 7:30 pm) **(Presentation of Plan)**

November 13, 2013 - Conservancy Board meeting 7:00 pm.

December 4, 2013 - Planning Commission meeting (workshop at 7:00 pm, formal meeting @ 7:30 pm)

December 17, 2013 - Board of Supervisors meeting (workshop at 7:00 pm, formal meeting @ 7:30 pm) **(Presentation of Plan)**

All meetings are held at the Township Building and are open to the public. The plans are available for review at the Township building during normal business hours. Please give me a call at or email me at mgordon@eastgoshen.org if you have any questions or need additional information.

Sincerely,



Mark A. Gordon
Township Zoning Officer

Cc: All Township Authorities, Boards and Commissions

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

FYI

October 31, 2013

Dear Property Owner:

The purpose of this letter is to inform you that John and Jill Podhiny, the owners of 1444 Linden Ln., West Chester, PA 19380, have submitted a sketch plan for review and comment by the Township Planning Commission. The Podhiny's are seeking input from the Planning Commission on a possible request for a zoning variance to construct a one car garage within the side yard setback of their property.

Pursuant to Township policy, property owners and residents within 1000 feet of the subject property are notified of sketch plan submissions.

The meeting dates and times scheduled for the review and discussion of this application are outlined below and subject to change.

November 6, 2013 - Planning Commission meeting (workshop at 7:00 pm, formal meeting @ 7:30 pm) **(Presentation of Sketch Plan)**

All meetings are held at the Township Building and are open to the public. The information is available for review at the Township building during normal business hours. Please give me a call at or email me at mgordon@eastgoshen.org if you have any questions or need additional information.

Sincerely,



Mark A. Gordon
Township Zoning Officer

Cc: All Township Authorities, Boards and Commissions