

EAST GOSHEN MUNICIPAL AUTHORITY

February 10, 2014

Monday 7:00 PM

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE
 - a. Ask if anyone will be taping the meeting?
2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS
3. APPROVAL OF MINUTES
 - a. January 13, 2014
4. APPROVAL OF INVOICES

a. Pennoni #576758	\$ 1,355.00
b. Pennoni #576759	\$ 105.00
c. Pennoni #576760	\$ 10,582.50
d. Pennoni #576762	\$ 881.50
5. LIAISON REPORTS
6. FINANCIAL REPORTS
 - a. January 2014 Reports
7. OLD BUSINESS
 - a.
8. GOALS
 - a. February Goals
9. NEW BUSINESS
 - a. Letter from DEP for application for Exemption – John Smirga & Assoc.
 - b. Review Reservoir Road Pump Station
 - c. Memo from Mark Gordon on the Goshen Meadows Sewer Reservation
10. CAPACITY REQUESTS
 - a.
11. SEWER REPORTS
 - a. Director of Public Works Report – verbal report at meeting
 - b. Pennoni Engineer's Report
 - c. Big Fish Environmental Inc Report with DMR's
 - d. East Goshen Township Flows for January 2014
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

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draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
January 13, 2014

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The East Goshen Township Municipal Authority held their regular public meeting on Monday, January 13, 2014 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Fran Beck, Vice Chairman Jack Yahraes, Dana Pizarro, Ed McAssey, and Kevin Cummings. Also in attendance were: Rick Smith (Township Manager), Carmen Battavio (Township Supervisor), Scott Towler (BFES), Mike Ellis (Pennoni), and Walter Wujcik, Conservancy Board.

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COMMON ACRONYMS:

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<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>

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Call to Order & Pledge of Allegiance

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

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Chairman’s Report/Other Member’s Reports

Jack reported that the West Goshen meeting scheduled for 1/2/14 was cancelled due to snow. It was rescheduled for 1/9/14 but he was not notified.

Approval of Minutes

Jack moved to accept the minutes of December 9, 2013. Dana seconded the motion. The motion passed unanimously.

Approval of Invoices

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

2. a. Pennoni #573697 \$ 663.75
b. Pennoni #573698 \$ 605.75

Ed seconded the motion. The motion passed unanimously.

2. Jack moved to approve payment of the following Pennoni invoice:

- c. Pennoni #573699 \$ 13,994.25

Ed seconded the motion. The motion passed unanimously.

Liaison Reports

Conservancy Board – Walter reported that two members of the Board (Bill Coffey and Rachael Burgos) will not be continuing as members. Erich Meyer has agreed to leave the Park &

2. RESERVOIR ROAD PUMP STATION –Update #1, Force Main Routing & Sewer Upgrade Alternatives – Mike Ellis reviewed his report which is an updated and more in-depth analysis of alternatives for force main routing and potential gravity sewer upgrades. The alternatives are:

1	1	FM to Bow Tree 8” sewer, no interceptor upgrades	\$1,474,900
2	2	FM to 15” interceptor, no interceptor upgrades (via 352)	\$1,965,100
3	2A	FM to 15” interceptor, no interceptor upgrades (via Misak Dr)	\$1,841,500
4	3	FM to Bow Tree 8” sewer, upgrade interceptor to 18”	\$1,803,940
5	4	FM to 15” interceptor, upgrade interceptor to 18”	\$2,126,480
6	5	FM to RCSTP influent pipe along existing gravity sewer route, No interceptor upgrades	\$1,948,500
7	6	FM to RCSTP influent pipe along Strasburg Rd & gas Easement, no interceptor upgrades	\$2,521,600

They reviewed the six concepts and considered a few other diversion options, including analyses based upon current meter data, and still recommend the proposed Alternative 2A force main routing in which the force main is run all the way to the Ridley Creek interceptor sewer via Misak Dr. and Anne Dr. (to avoid the intersection of Strasburg Road & S.R. 0352). It will cost approximately \$90,000/year in additional chemical costs for odor control if it goes through a housing development.

Sewer Reports

1. Mark Miller, Director of Public Works - No report

2. Pennoni – Mike Ellis gave the following report for December:

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

Reserve PS Elimination – We are still awaiting several contract closeout documents from the contractor before final payment will be made including as –built plans, a letter from the geotechnical engineer confirming adequate backfill compaction within the detention basin berm, written notification that they will return in the spring to remove the filter sock along the creek, contractor’s release, statement of surety, and maintenance bond. The contractor has indicated that they intend to provide the documents in time for final payment at the February MA meeting.

Reservoir Road Pump Station Act 537 Plan – We analyzed the potential annual cost savings on sewer fees to West Goshen that will result from the diversion. We estimated the payback period to be 12 years and we forwarded a summary memo to the Township.

We performed a comprehensive evaluation of alternative pump station locations and force main routes. We prepared a memo with our recommendations, including detailed rationale for the recommendations, for the Township. We still recommend the pump station be located at the intersection of Reservoir Rd. and Strasburg Rd. We recommend the force main be run all the way to the Ridley Creek interceptor via Misak Dr. and Anne Dr. to avoid the intersection of Strasburg Rd. and S.R. 0352 and numerous utility conflicts.

We conducted an updated PNDI Search on the proposed pump station location and force main route. The results require that we perform a Phase 1 bog turtle habitat survey and also submit documentation to DCNR for a potential threat to a special concern plant species, the “Tooth Cup”.

1 We request direction/approval from the Township Authority on the force main route at January's
2 MA meeting. We will then make submissions to DCNR, PHMC (for cultural and historic
3 resources as required by the Act 537 planning process), and coordinate with PADEP and/or the
4 Army Corps to perform the bog turtle survey. We anticipate the agencies will take at least 60
5 days to respond to the submissions and perform the bog turtle survey. PADEP and/or the Army
6 Corps may require additional in-field wetlands delineation of the extended force main route prior
7 to the bog turtle survey.
8 The altered and additional force routing will require additional field survey beyond our original
9 scope; however, we do not recommend any further surveying be performed until the design
10 phase, after the Act 537 plan is approved by PADEP.
11 Mike will start the submissions for the Act 537 plan.
12

13 **3. Big Fish Environmental Services** – The following is a summary of Scott's report for
14 December 2013:

15 Treatment Process Operation- During November 2013, there were no exceedances of the final
16 effluent discharge limitations for Outfall 001 and Outfall 002.

17 The monthly average total phosphorus concentration was 0.30 mg/L as compared to the
18 discharge limitation of 0.5 mg/L. During the month, the final effluent total phosphorus
19 concentration discharged ranged from 0.25 mg/L to 0.34 mg/L.

20 There was no discharge to Applebrook, Outfall 002, during November 2013.

21 During the month of December 2013, there are no anticipated exceedances of the permitted
22 effluent discharge limitations.

23 During December, there was no discharge to Applebrook.

24 The influent wastewater pollutant concentrations and loading entering the wastewater treatment
25 facility remained within the design concentrations and loadings. Composite samples are
26 collected at the influent doghouse manhole and influent wet well. The influent flow meter
27 reading is collected from the influent flow meter located prior to the Screening Building,
28 excluding the internal recycle flows.

29 SBRs #1, 3 and 4 were in service during the month of December.

30 Process monitoring of each SBR included ammonia as N, Nitrite as N, Nitrate as N, COD, SSV,
31 MLSS and total phosphorus. Foam concentrations remained around the same concentration as
32 during November. Present surface area coverage during React Phase ranges from approximately
33 90 to 100%. The foam color changed to a light tan color and averages 3 to 4 inches in depth.

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

38 Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued.

39 The volume of aluminum sulfate solution to the SBRs was consistent during December. The
40 addition of soda ash to the SBRs to assist with maintaining desired pH concentrations above 7.0
41 standard units continued during the month.

42 SBR #2 remains out of service as a treatment unit.

43 During the month, the decanter for SBR 3 was observed to have been extended above the water
44 level. The effluent knife valve was routinely closed and the decanter filled with water to assist
45 with lowering the decanter within the water level. The frequency of occurrence ranged from one
46 to several occurrences during the month.

1 Process Monitoring On-Line Instrumentation: Representatives from the Hach Co. were on site
2 on December 17, 2013 at 9:00 am to discuss the proposed pilot study of the RTC online
3 analyzer.

4 Solids Dewatering and Disposal: November and December 2013

5 During the month, sludge wasting to the sludge holding tanks and decanting of the sludge
6 holding tanks was ongoing. Process monitoring included pH, total alkalinity and total solids.
7 Sludge holding tank #1 was in service. The level at the beginning of the month was 7.03 feet
8 and the level at the end of the month was 9.74 feet. The initial total solids concentration was
9 0.70% and ended the month as 0.94% total solids. 108,850 gallons of supernatant were decanted
10 during the month. A total of 100 pounds of soda ash were added during the month for pH
11 adjustment.

12 Sludge holding tank #2 was in service. The level at the beginning of the month was 9.46 feet
13 and the level at the end of the month was 13.58 feet. The initial total solids concentration was
14 0.88% and ended the month as 0.54% total solids. Zero gallons of supernatant were decanted
15 during the month. A total of 250 pounds of soda ash were added during the month for pH
16 adjustment.

17 Significant storm events in December – None

18 Minor Repairs and Preventive Maintenance

- 19 1. The pump tube for the alum feed pump for the SBVRs was replaced.
 - 20 2. Influent pump #1 was removed and sent to Deckman Electric for rebuild.
- 21 Scott discussed options for getting a more constant flow.

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23 Any Other Matter

- 24 1. Jack moved to accept the following proposed slate of officers:

25 Chairman – Jack Yahares
26 Vice Chairman – Kevin Cummings
27 Secretary – Dana Pizarro
28 Treasurer – Ed McAssey
29 Assistant Sec/Treas – Fran Beck

30 Ed seconded the motion. Jack mentioned that he has not received an official letter of
31 reappointment. Also, he will not be here for the Annual Planning meeting on 1/25.

32 The motion passed unanimously. Jack noted that Fran has been on the Municipal Authority
33 since 1978 and thanked him for his service.

- 34 2. Carmen suggested that the Municipal Authority should use an Action List on their monthly
35 agenda similar to what the BOS uses. Rick will send a copy to everyone.

36
37 Adjournment

38 There being no further business, Jack moved to adjourn the meeting. Dana seconded the motion.
39 The motion passed unanimously. The meeting was adjourned at 8:15 pm.

40
41 Respectfully submitted,

42
43
44 Ruth Kiefer
45 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 # : 576758
 Invoice Date : 01/22/2014
 Project : EGMA1301
 Project Name : 2013 General Services

For Services Rendered through: 1/12/2014

FINAL INVOICE

Attended December Municipal Authority meeting; and prepared NPDES Notice of Termination documentation and plans for Lockwood Chase STP Closure including site visit to observe post-construction field conditions.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,355.00
Expense :	0.00
Phase Total :	1,355.00

Amount Due This Invoice

\$1,355.00

Fee :	13,000.00
Prior Billings :	11,431.25
Current Billings :	1,355.00
Total Billings :	12,786.25

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Senior Engineer	8.25	105.00	866.25
Senior Environmental Scientist	5.75	85.00	488.75
Labor Total:	14.00		1,355.00

Total Phase : **** -- Professional Services

Labor :	\$1,355.00
Expense :	\$0.00

Total Project : EGMA1301 -- 2013 General Services

Labor :	\$1,355.00
Expense :	\$0.00

OKRS 2-7-14

East Goshen Municipal Authority
EGMA1301 Invoice Summary
Invoice Date 01/22/2014

Project:	EGMA1301		
Pennoni Job No.:	2013 General Services		
Invoice No:	576758		
Invoice Period:	12/9/2013	to	1/12/2014
Initial Authorization:	\$ 10,000.00	Date:	1/1/2013
Contract Amount:	\$ 13,000.00		
Previously Invoiced:	\$ 11,431.25		
Current Invoice:	\$ 1,355.00		
Invoiced to Date (\$):	\$ 12,786.25		
Invoiced to Date (%):	98%		
Remaining Budget (\$):	\$ 213.75		
Remaining Budget (%):	2%		

Budget by Phase:

Phase No.	****
Phase Name:	2013 General Services
Phase Budget:	\$ 13,000.00
Previously Invoiced:	\$ 11,431.25
Current Invoice:	\$ 1,355.00
Invoiced to Date (\$):	\$ 12,786.25
Invoiced to Date (%):	98%
Remaining Budget (\$):	\$ 213.75
Remaining Budget (%):	2%

Comments: Attended December Municipal Authority meeting; and prepared NPDES Notice of Termination documentation and plans for Lockwood Chase STP Closure including site visit to observe post-construction field conditions.



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

Invoice # : 576759
 Invoice Date : 01/22/2014
 Project : EGMA1306
 Project Name : Reserve PS Diversion Construction
 P

For Services Rendered through: 1/12/2014

Coordinated submission of official, signed and notarized copy of Pay Application #2 paperwork and status of contract closeout documents with the contractor and Township.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	105.00
Expense :	0.00
Phase Total :	105.00

Amount Due This Invoice

Fee :	20,000.00
Prior Billings :	14,135.50
Current Billings :	105.00
Total Billings :	14,240.50

\$105.00

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 : EGMA1306 -- Reserve PS Diversion Construction P

Labor :	\$105.00
Expense :	\$0.00

*OK RS
2/7/14*

East Goshen Municipal Authority
EGMA1307 Invoice Summary
Invoice Date 01/22/2014

Project: EGMA1306
Pennoni Job No.: Reserve PS Diversion Construction P
Invoice No: **576759**
Invoice Period: 12/9/2013 to 1/12/2014
Initial Authorization: \$ 20,000.00 **Date:** 1/16/2013
Contract Amount: \$ 20,000.00
Previously Invoiced: \$ 14,135.50
Current Invoice: \$ 105.00
Invoiced to Date (\$): \$ 14,240.50
Invoiced to Date (%): 71%
Remaining Budget (\$): \$ 5,759.50
Remaining Budget (%): 29%

Budget by Phase:

	Reserve PS Diversion Construction Phase
Phase Name:	
Phase Budget:	\$ 20,000.00
Previously Invoiced:	\$ 14,135.50
Current Invoice:	\$ 105.00
Invoiced to Date (\$):	\$ 14,240.50
Invoiced to Date (%):	71%
Remaining Budget (\$):	\$ 5,759.50
Remaining Budget (%):	29%

Comments: Coordinated submission of official, signed and notarized copy of Pay Application #2 paperwork and status of contract closeout documents with the contractor and Township.



INVOICE

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

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

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

Invoice # : 576760
Invoice Date : 01/22/2014
Project : EGMA1307
Project Name : Reservoir Rd PS Act 537 Planning

For Services Rendered through: 1/12/2014

Continued existing conditions plan preparation including obtaining pump station parcel deed from courthouse, incorporating property and ROW boundaries, and coordinating with utility providers to provide utility plans and pipeline crossing requirements; analyzed projected cost savings on West Goshen conveyance and treatment, and prepared and issued "Payback Period From West Goshen Intermunicipal Agreement Cost Savings" memo; completed cost/benefit analysis of additional force main length vs. odor control system savings; analyzed feasibility of alternative pump station diversions and locations including floodway restrictions and floodplain permitting requirements; evaluated additional force main routing alternatives including updating cost estimates and mapping; PA One Call and field recon for proposed Alternative 2A routing; prepared and issued "Force Main Routing & Sewer Upgrade Alternatives Update #1" memo; and coordinated bog turtle habitat screening and wetlands delineation requirements with permitting agencies.

\$12.50 expense is cost at Recorder of Deeds for deed and subdivision plan for pump station parcel.

Phase : 02 -- Existing Conditions Survey

Total Phase : 02 -- Existing Conditions Survey

Labor :	2,790.00
Expense :	12.50
Phase Total :	2,802.50

Phase : 03 -- Act 537 Plan Update

Total Phase : 03 -- Act 537 Plan Update

Labor :	7,780.00
Expense :	0.00
Phase Total :	7,780.00

Amount Due This Invoice

\$10,582.50

*OK RS
2/7/14*

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 : 02 -- Existing Conditions Survey

<u>Labor</u>	<u>Hours/ Units</u>	<u>Rate</u>	<u>Amount</u>
Principal Surveyor	7.00	105.00	735.00
Senior Engineer	3.50	82.00	287.00
Survey Technician	26.00	68.00	1,768.00
Labor Total:	36.50		2,790.00

Expenses

<u>Description</u>	<u>Units</u>	<u>Rate</u>	<u>Amount</u>
Miscellaneous Job Expense			12.50
Expense Total:			\$12.50

Total Phase : 02 -- Existing Conditions Survey	Labor :	\$2,790.00
	Expense :	\$12.50

Phase : 03 -- Act 537 Plan Update

<u>Labor</u>	<u>Hours/ Units</u>	<u>Rate</u>	<u>Amount</u>
Senior Engineer	36.25	105.00	3,806.25
Project Engineer	25.25	95.00	2,398.75
Senior Environmental Scientist	7.00	85.00	595.00
Staff Engineer	2.00	85.00	170.00
Engineering Technician II	11.25	72.00	810.00
Labor Total:	81.75		7,780.00

Total Phase : 03 -- Act 537 Plan Update	Labor :	\$7,780.00
	Expense :	\$0.00

Total Project : EGMA1307 -- Reservoir Rd PS Act 537 Planning	Labor :	\$10,570.00
	Expense :	\$12.50

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

East Goshen Municipal Authority
 EGMA1307 Invoice Summary
 Invoice Date 01/22/2014

Project: EGMA1307
Pennoni Job No.: Reservoir Rd PS Act 537 Planning
Invoice No: 576760
Invoice Period: 12/9/2013 to 1/12/2014
Initial Authorization: \$ 77,400.00 **Date:** 1/16/2013
Contract Amount: \$ 77,400.00
Previously Invoiced: \$ 38,447.00
Current Invoice: \$ 10,582.50
Invoiced to Date (\$): \$ 49,029.50
Invoiced to Date (%): 63%
Remaining Budget (\$): \$ 28,370.50
Remaining Budget (%): 37%

Budget by Phase:

	Reservoir Rd PS Act 537 Planning
Phase Name:	
Phase Budget:	\$ 77,400.00
Previously Invoiced:	\$ 38,447.00
Current Invoice:	\$ 10,582.50
Invoiced to Date (\$):	\$ 49,029.50
Invoiced to Date (%):	63%
Remaining Budget (\$):	\$ 28,370.50
Remaining Budget (%):	37%

Comments: Continued existing conditions plan preparation including obtaining pump station parcel deed from courthouse, incorporating property and ROW boundaries, and coordinating with utility providers to provide utility plans and pipeline crossing requirements; analyzed projected cost savings on West Goshen conveyance and treatment, and prepared and issued "Payback Period From West Goshen Intermunicipal Agreement Cost Savings" memo; completed cost/benefit analysis of additional force main length vs. odor control system savings; analyzed feasibility of alternative pump station diversions and locations including floodway restrictions and floodplain permitting requirements; evaluated additional force main routing alternatives including updating cost estimates and mapping; PA One Call and field recon for proposed Alternative 2A routing; prepared and issued "Force Main Routing & Sewer Upgrade Alternatives Update #1" memo; and coordinated bog turtle habitat screening and wetlands delineation requirements with permitting agencies.
 \$12.50 expense is cost at Recorder of Deeds for deed and subdivision plan for pump station parcel.



INVOICE

Newark, DE
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 Pennoni Associates Inc.
 P.O. Box 827328
 Philadelphia, PA 19182-7328

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

Invoice # : 576762
 Invoice Date : 01/22/2014
 Project : EGMA1403
 Project Name : 2013 Chapter 94 Reports

For Services Rendered through: 1/12/2014

Initiated report preparation, mapping, and data gathering for Ridley Creek STP, West Goshen, and Westtown Chapter 94 Reports.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	881.50
Expense :	0.00
Phase Total :	881.50

Amount Due This Invoice

Fee :	14,400.00
Prior Billings :	0.00
Current Billings :	881.50
Total Billings :	881.50

881.50

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Authority Engineer	0.50	113.00	56.50
Graduate Engineer	11.00	75.00	825.00
Labor Total:	11.50		881.50

Total Phase : **** -- Professional Services

Labor :	\$881.50
Expense :	\$0.00

Total Project : EGMA1403 -- 2013 Chapter 94 Reports

Labor :	\$881.50
Expense :	\$0.00

*OK RS
2/17/14*

East Goshen Municipal Authority
EGMA1307 Invoice Summary
Invoice Date 01/22/2014

Project: EGMA1403
Pennoni Job No.: 2013 Chapter 94 Reports
Invoice No: **576762**
Invoice Period: 12/9/2013 to 1/12/2014
Initial Authorization: \$ 14,400.00 **Date:** 1/16/2013
Contract Amount: \$ 14,400.00
Previously Invoiced: \$ -
Current Invoice: \$ 881.50
Invoiced to Date (\$): \$ 881.50
Invoiced to Date (%): 6%
Remaining Budget (\$): \$ 13,518.50
Remaining Budget (%): 94%

Budget by Phase:

	2013 Chapter 94 Reports	
Phase Name:		
Phase Budget:	\$	14,400.00
Previously Invoiced:	\$	14,400.00
Current Invoice:	\$	-
Invoiced to Date (\$):	\$	881.50
Invoiced to Date (%):		6%
Remaining Budget (\$):	\$	13,518.50
Remaining Budget (%):		94%

Comments: Initiated report preparation, mapping, and data gathering for Ridley Creek STP, West Goshen, and Westtown Chapter 94 Reports.

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA January Financial Reports
Date: February 6, 2014

The Municipal Authority recorded \$33,737.91 in revenues and -\$395 in expenses in December, a difference of \$34,132.91. Expenses were negative due to a refund of \$1,845 from Pennoni for overpayment from December. Revenues include \$12,600 in tapping fees from Goshen Meadows and a \$21,000 transfer from the sewer operating fund. The fund balance is now \$1,632,403.33.

A complete list of all monthly expenses is provided.

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
January 2014

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
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MUNICIPAL AUTHORITY BEGINNING FUND BALANCE 1,598,270.42

RCSTP BUDGET

REVENUE				
INTEREST EARNED - RCSTP EXPANSION	07341 1020	2,000.00	137.33	137.33
GRANT REVENUE	07392 0800	0.00	0.00	0.00

TOTAL REVENUE		2,000.00	137.33	137.33
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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	0.00	0.00
TRANSFER TO AUTHORITY CAP FUND	07492 0990	0.00	0.00	0.00

TOTAL EXPENSES		0.00	0.00	0.00
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RCSTP NET RESULT		2,000.00	137.33	137.33
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EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
January 2014

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING BUDGET				
REVENUE				
INTEREST EARNINGS	07341 1000	27.00	0.58	0.58
C.C. TAPPING FEES	07364 1100	124,000.00	12,600.00	12,600.00
R.C.TAPPING FEES	07364 1110	21,444.00	0.00	0.00
CONNECTION FEES - SEWER	07364 1130	0.00	0.00	0.00
MISCELLANEOUS REVENUE	07380 1000	0.00	0.00	0.00
TRANSFER FROM SEWER OPERATING	07392 0500	0.00	21,000.00	21,000.00
TOTAL REVENUE		145,471.00	33,600.58	33,600.58
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	32,768.00	0.00	0.00
MISCELLANEOUS EXPENSE	07424 3000	4,000.00	1,450.00	1,450.00
MUNIC.AUTH.-AUDITING	07424 3110	10,800.00	0.00	0.00
ENGINEERING SERVICES	07424 3130	35,525.00	(1,845.00)	(1,845.00)
LEGAL SERVICES	07424 3140	7,000.00	0.00	0.00
M.C.-DVRFA-DEBT SERVICE	07471 1000	22,120.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1000	5,115.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1010	0.00	0.00	0.00
TOTAL EXPENSES		117,328.00	(395.00)	(395.00)
OPERATING NET RESULT		28,143.00	33,995.58	33,995.58

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
January 2014

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
CAPITAL BUDGET				
REVENUE				
LOAN PROCEEDS-SEWER PROJECT	07393 1001	0.00	0.00	0.00
TRANSFER FROM SEWER CAP RESERVE	07392 0900	0.00	0.00	0.00
TOTAL REVENUE		0.00	0.00	0.00
EXPENSES				
MARYDELL PUMP STATION - ENGINEER	07425 1000	0.00	0.00	0.00
MARYDELL PUMP STATION -CONSTRUCTION	07425 2000	0.00	0.00	0.00
MANHOLE COVER REPLACEMENTS	07424,7405	0.00	0.00	0.00
C.C. CAPITAL - COLLECTION	07424,7420	0.00	0.00	0.00
LOCHWOOD ABANDONMENT ENGINEER	07424 7475	0.00	0.00	0.00
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7476	0.00	0.00	0.00
LOCHWOOD ELIMINATION PHASE 2	07424 7477	0.00	0.00	0.00
HERSHEY MILL STATION - ENGINEER	07426 1000	0.00	0.00	0.00
HERSHEY MILL STATION - CONSTRUCTION	07426 2000	0.00	0.00	0.00
RESERVE PUMP STATION - ENGINEER	07427 1000	0.00	0.00	0.00
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	0.00	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	75,000.00	0.00	0.00
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
TOTAL EXPENSES		75,000.00	0.00	0.00
CAPITAL NET RESULT		(75,000.00)	0.00	0.00

MUNICIPAL AUTHORITY ENDING FUND BALANCE

1,632,403.33

East Goshen Township General Ledger

Report Date 02/06/14

GL Transaction Details

PAGE 1

MGRP18 run by BRIAN 9 : 20 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000						0.00				
			INTEREST EARNINGS							
	1401	JE	41027		0.58		02/04/14	INTEREST		INTEREST EARNED JANUARY 2014 07 FUND
				0.00	0.58	-0.58				
07341-1020						0.00				
			INTEREST EARNED - RCSTP EXPANSION							
			41028		137.33		02/04/14	INTEREST		INTEREST EARNED JANUARY 2014 07 CONSTRUCTION FUND
				0.00	137.33	-137.33				
07364-1100						0.00				
			C.C. TAPPING FEES							
		CR	40976		12,600.00		01/31/14	3034	8069 1	GOSHEN MEADOWS INVESTORS L.P.
				0.00	12,600.00	-12,600.00				
07392-0500						0.00				
			TRANSFER FROM SEWER OPERATING							
		JE	40674		1,000.00		01/08/14	DEPOSIT		DEPOSIT \$ INTO MA GENERAL FROM 05 FUND
			40747		20,000.00		01/14/14	XFER		XFER \$ FROM SEWER TO MA TO COVER EXPENSES
				0.00	21,000.00	-21,000.00				
07424-3000						0.00				
			MISCELLANEOUS EXPENSE							
		CD	40597	500.00			01/06/14	2228	2737	DEP - COMMONWEALTH OF PA NPDES PERMITS - CHAPTER 92A 2014
				950.00			01/06/14	2229	2132	PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2014 ACTIVE MEMBERSHIP DUES
			***	1,450.00	0.00	***				
				1,450.00	0.00	1,450.00				
07424-3130						0.00				
			ENGINEERING SERVICES							
			40653	-663.75			01/06/14	2224	1052	PENNONI ASSOCIATES INC. VOID CK. DUE TO PRINTER PROBLEM
			40743	663.75			01/14/14	2230	1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/8/13 GENERAL S
		JE	40746		1,845.00		01/14/14	REFUND		PENNONI REFUND DUE TO DUPLICATE PAYMENT
				0.00	1,845.00	-1,845.00				
07424-7460						0.00				
			LOCHWOOD - CAPITAL -STP							
		CD	40739	1,290.00			01/14/14	10012	2695	BRICKHOUSE ENVIRONMENTAL LOCHWOOD CHASE PROJECT - DEC.201
			40744	-1,290.00			01/14/14	10012	2695	BRICKHOUSE ENVIRONMENTAL VOID CK. - INCORRECT CASH ACCT.U
			40745	1,290.00			01/14/14	2231	2695	BRICKHOUSE ENVIRONMENTAL LOCHWOOD CHASE PROJECT - DEC. 20

East Goshen Township General Ledger

Report Date 02/06/14

GL Transaction Details

PAGE 2

MGRP18 run by BRIAN 9 : 20 AM

Acct #	Per	Src Trx #	Debits	Credits	Beq/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-7460	1401	JE 40820		1,290.00		01/22/14	DEPOSIT		DEPOSIT TO REIMBURSE 07 MA FOR 05 EXPENSE
			1,290.00	1,290.00	0.00				
Beq Bal		0.00	2,740.00	36,872.91-34132.91					

EAST GOSHEN MUNICIPAL AUTHORITY GOALS
February 10, 2014

ON-GOING

1. Submit an article for each newsletter.
 - a. Need by 1/31/14 – Dana **Completed**
 - b. Need by 4/30/14
 - c. Need by 7/1/14
 - d. Need by 10/31/14
 - e.
2. Attend West Goshen Meetings quarterly – more often if needed.
 - a. 1st Quarter (March) - Jack
 - b. 2nd Quarter (June)
 - c. 3rd Quarter (September)
 - d. 4th Quarter (December)
3. Respond to capacity requests in 45 days or less.
4. Continue to implement I & I Plan
5. Operate RCSTP in compliance with NPDES Permit

PROJECTS

1. Reservoir Road Pump Station – Obtain Act 537 Plan approval
2/10/14 submitted application to DCNR and PMHC
2. Investigate feasibility of tank covers at RCSTP.
2/10/14 to be presented at the meeting



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHEAST REGIONAL OFFICE

January 14, 2014

Mr. John Smirga
John Smirga & Associates, P.C.
60 Park Place
Media, PA 19063

Re: Application for Exemption
Patricia O'Neill Subdivision
DEP Code 1-15919-232-E
East Goshen Township
Chester County

Dear Mr. Smirga:

On December 20, 2013, we received your request for an exemption from planning requirements under the Pennsylvania Sewage Facilities Act concerning the above referenced project. The request meets the requirements of Section 7(b)(5) of the Act.

An exemption from Sewage Facilities Planning is hereby granted by the Department of Environmental Protection ("DEP") for the development of a 2 lot residential subdivision on 1.2 acres. This project is located at 1637 Manley Road in East Goshen Township, Chester County.

The project will be connected to the East Goshen Township Municipal Authority collection system and will generate 250 gallons of sewage per day to be treated at the West Goshen Township Sewer Authority Wastewater Treatment Facility.

This exemption only applies to planning requirements under the Sewage Facilities Act and the Clean Streams Law. Other DEP permits may be required prior to any construction, which will encroach on streams or wetlands.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on

Memo

East Goshen Township

1580 Paoli Pike

West Chester, PA 19380

Voice (610) 692-7171

Fax (610) 425-8950

E-mail rsmith@eastgoshen.org

Date: February 4, 2014

To: Municipal Authority

From: Rick Smith, Township Manager

Re: Reservoir Road Pump Station

You had previously asked Mike Ellis to calculate the payback period for the Reservoir Road Pump Station Project.

Based on the December 2013 flows and 2013 expenses it costs us \$3.00 per thousand gallons to convey and treat sewage at West Goshen and \$4.11 per thousand gallons to convey and treat sewage at Ridley Creek.

	GPD (Dec)	GP Year	Cost	Cost/1,000
West Goshen	896,870	327,357,550	\$983,039	\$3.00
Ridley Creek	398,404	145,417,460	\$597,337	\$4.11

Assuming these costs are linear the construction of the Reservoir Road Pump Station and subsequent diversion of 300,000 GPD to the RCSTP will not result in a savings.

However, the Reservoir Road Pump Station Project cannot be looked at in a vacuum. I will refer you to the 2007 Wastewater Needs Analysis that recommended that the Alternative A2 which included the expansion of the RCSTP to 750,000 GPD and construction of the Reservoir Road Pump Station was the most cost effective alternative.

In 2007 the Authority agreed to proceed with the expansion of the RCSTP.

I have enclosed a copy of the 2007 Analysis for your use.

TOWNSHIP WASTEWATER NEEDS EVALUATION

TOWNSHIP OF EAST GOSHEN CHESTER COUNTY, PENNSYLVANIA

March 30, 2007

EAST GOSHEN MUNICIPAL AUTHORITY

East Goshen Township Building

1580 Paoli Pike

West Chester, PA 19380

PENNONI ASSOCIATES INC.

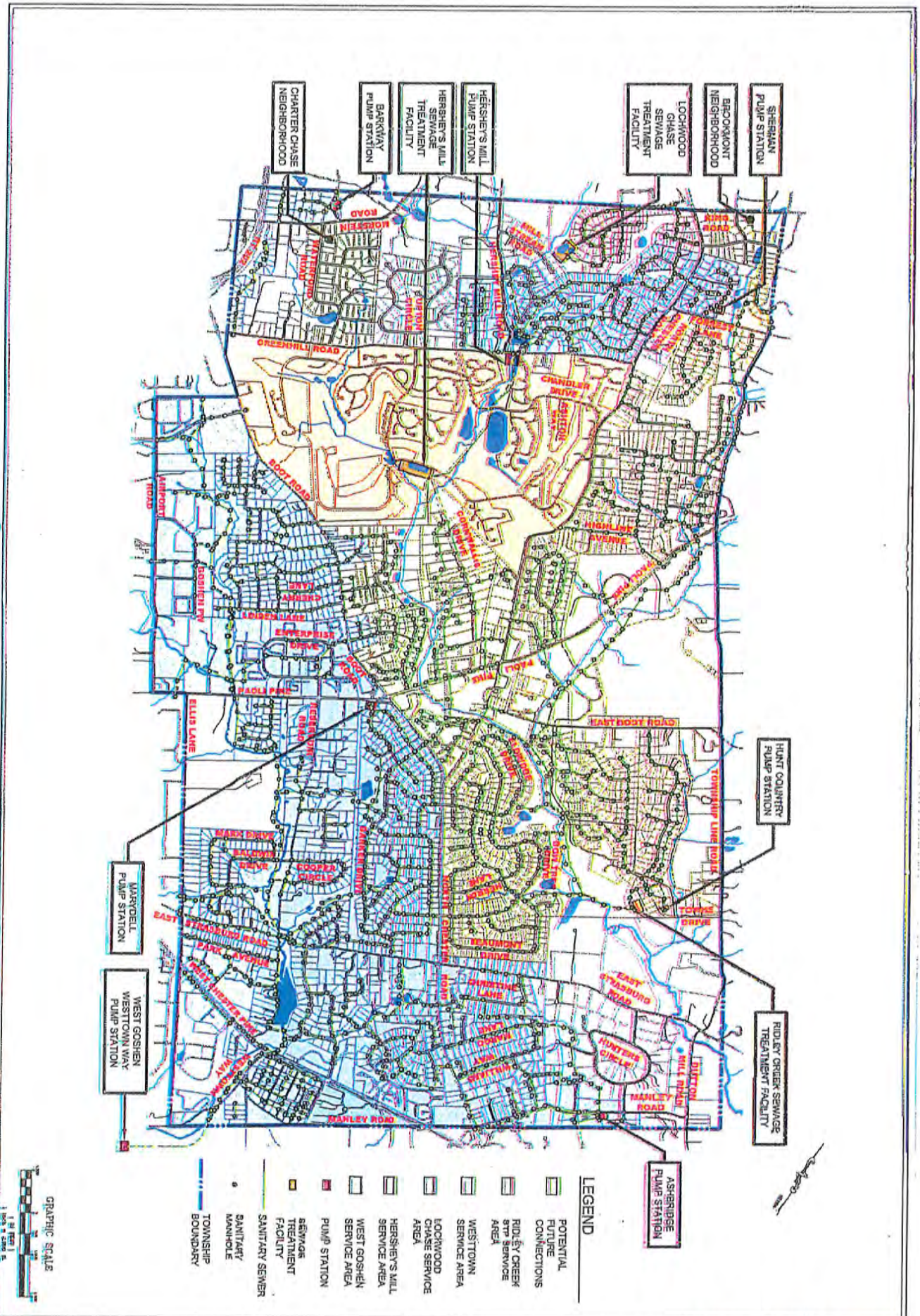
One Drexel Plaza

3001 Market Street

Philadelphia, PA 19104

www.pennoni.com

EGMA 0702.03



**FIGURE 1:
TOWNSHIP WASTEWATER FACILITIES**

Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania

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**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

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- D Engineer's Opinion of Conceptual Project Costs

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

EXECUTIVE SUMMARY

Pennoni Associates Inc. has prepared this "Township Wastewater Needs Evaluation" (Report) that identifies and evaluates the wastewater needs in East Goshen Township (Township). The Report was prepared in response to the request of the Township Municipal Authority and Township Board of Supervisors for their consideration at their regularly scheduled April 2007 meeting. It is understood that the result of this effort will be used by the Authority and Board of Supervisors to determine future plans for the Township wastewater system and the Ridley Creek Sewage Treatment Plant.

The current, committed, and projected wastewater flows generated by the Township were estimated, exclusive of Lochwood Chase and the area in the southern end of the Township serviced by Westtown Township. The estimated flows were presented to the Township in a February 9, 2007 Letter entitled "Township Wastewater Capacity Needs Evaluation" (provided in Appendix A). The estimated flows are summarized below. Refer to the letter for the basis of these estimates.

Current, Committed and Potential Township Wastewater Flow

Service Area	West Goshen	Ridley Creek	Total
Current Flow	1.11 MGD	0.32 MGD	1.43 MGD
Current and Committed Flow	1.25 MGD	0.36 MGD	1.61 MGD
Current, Committed, and Potential Flow	1.33 MGD	0.40 MGD	1.73 MGD

Alternatives were identified that would meet the projected wastewater needs of the Township. These alternatives included: increasing discharge to West Goshen; building a pump station and force main to West Chester Borough for treatment and disposal there; expanding the Ridley Creek Sewage Treatment Plant (RCSTP) to 0.75 MGD; upgrading the RCSTP and maintaining the permitted flow at 0.40 MGD; and abandoning the RCSTP and pumping the wastewater to West Goshen or West Chester. Alternatives that utilized the Westtown Township STP were not considered after the Township was informed that Westtown did not have the capacity to accept additional wastewater from East Goshen and meet their needs in Westtown.

The recommended alternative is Alternative A2 (Expand and Upgrade RCSTP to 0.75 MGD and maintain 1.0 MGD capacity at West Goshen). Under this alternative, the RCSTP is expanded to a capacity of 0.75 MGD and the discharge to West Goshen remains at 1.0 MGD. In addition to expanding the RCSTP, this alternative requires the construction of a diversion pump

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

station at Reservoir Road to take the future potential flow out of the West Goshen Service Area and into the RCSTP Service Area.

This alternative has a 30 month schedule and the lowest probable project cost. If an MBR expansion of the RCSTP is selected, the probable project cost is \$10,820,100. If an SBR expansion of the RCSTP is selected, the probable project cost is \$8,638,100. The planning and construction of the diversion pump station can be put off until flows to West Goshen need to be sent to RCSTP. By doing this, this Engineer's Opinion of Probable Project Cost decreases by \$1,482,100.

The reason for selecting Alternative A2 is that it has the shortest schedule and lowest Engineer's Opinion of Probable Project Costs. It also has a "high" feasibility since sewage planning is complete for the RCSTP and the NPDES discharge permit in place for the 0.75 MGD discharge from RCSTP. Also, no new or revised inter-municipal agreements are needed. Also, the other alternatives have considerably longer schedules and the Engineer's Opinions of Probable Project Cost are significantly higher than Alternative 2.

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

1.0 INTRODUCTION

East Goshen Township (Township), Chester County, provides public wastewater service to the majority of the Township and a limited number of residences in neighboring West Goshen, West Whiteland, and Willistown Townships, Chester County. As of December 2006, the Township served approximately 5,672 residences, businesses, and light industry. The Township owns and operates two wastewater treatment plants; the Lochwood Chase Sewage Treatment Plant (serving 107 residences) and the Ridley Creek Sewage Treatment Plant (serving 1575 residences). The remaining public wastewater customers have their wastewater treated by West Goshen Township (3,468 customers) or Westtown Township (522 customers) through intermunicipal agreements with East Goshen.

The age-restricted community of Hershey's Mill includes approximately 1,800 residences and amenities. Wastewater service is provided by the Greenhill Sewer Association, a private wastewater association that collects, treats, and land applies treated effluent within the limits of the community under Water Quality Management Part 2 Permit #1598412. Treatment is provided at an aerated lagoon facility permitted to treat up to 0.325 MGD of wastewater for spray irrigation on the Hershey's Mill golf course and other open areas in the community. It is reported that the treatment facility is operating well and within its treatment capacity.

The areas served by the Lochwood Chase, Ridley Creek, Hershey's Mill, West Goshen, and Westtown treatment plants are shown on Figure 1.

There are approximately 540 properties within the Township that utilize an on-lot disposal system (OLDS) to manage their wastewater. In general, these systems operate well where properly constructed and maintained. The properties served by OLDS are generally located in more remote or isolated areas of the Township where the economic feasibility of connecting the properties to a public wastewater system is limited.

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

2.0 CURRENT, COMMITTED, AND PROJECTED FLOWS

The current, committed, and projected wastewater flows generated by the Township were estimated, exclusive of Lochwood Chase and the area in the southern end of the Township serviced by Westtown Township. The Lochwood Chase and Westtown service areas are built-out and are not expected to experience a change in wastewater flow or treatment needs. The estimated flows were presented to the Township in a February 9, 2007 Letter entitled "Township Wastewater Capacity Needs Evaluation" (provided in Appendix A). The estimated flows are summarized below. Refer to the letter for the basis of these estimates.

West Goshen Current, Committed and Potential Wastewater Flow

Current Flow to West Goshen	1.11 MGD
Current and Committed Flow to West Goshen	1.25 MGD
Current, Committed, and Potential Flow to West Goshen	1.33 MGD

Ridley Creek Current, Committed and Potential Wastewater Flow

Current Flow to RCSTP	0.32 MGD
Current and Committed Flow to RCSTP	0.36 MGD
Current, Committed, and Potential Flow to RCSTP	0.40 MGD

Current, Committed and Potential Township Wastewater Flow

Service Area	West Goshen	Ridley Creek	Total
Current Flow	1.11 MGD	0.32 MGD	1.43 MGD
Current and Committed Flow	1.25 MGD	0.36 MGD	1.61 MGD
Current, Committed, and Potential Flow	1.33 MGD	0.40 MGD	1.73 MGD

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

3.0 TREATMENT AND DISPOSAL OPPORTUNITIES AND CONSTRAINTS

3.1 Ridley Creek Sewage Treatment Plant

The Ridley Creek Sewage Treatment Plant (RCSTP) provides wastewater treatment for the portion of East Goshen Township in the Ridley Creek Watershed and 17 homes in Willistown Township. The plant is an extended aeration facility that has been in operation since 1985.

The current permit for RCSTP (NPDES Permit #0050504) is a two phase permit. During the first phase, from now until completion of the expansion, the treatment plant is permitted for an annual average flow of 0.40 MGD. After expansion construction is completed the permitted annual average flow is 0.75 MGD.

If the RCSTP is not expanded, it will need to be upgraded in order to provide redundancy of treatment and achieve anticipated tightening of its NPDES Permit limits on effluent quality.

3.2 West Goshen

The West Goshen Service Area, illustrated on Figure 1, generally serves the west side of the Township. Wastewater treatment is provided at West Goshen's Sewage Treatment Plant (NPDES #PA0028584) through an inter-municipal agreement. The agreement calls for West Goshen to accept 1.0 MGD of wastewater from the Township. The average annual flow from East Goshen to West Goshen is approaching this limit of the 1.0 MGD agreement. The West Goshen tapping fee is \$2,138 per EDU. An EDU is 241.2 GPD for West Goshen.

Wastewater from East Goshen goes to West Goshen's Westtown Way pump station. An increase in flow from East Goshen reportedly will require an increase in wet well and pump capacity. There is also an area of flood plain at the pump station site that makes expansion of the wet well more complicated.

West Goshen has stated that they have enough capacity for their needs at build out with a cushion. West Goshen stated that they would entertain a proposal to increase the flow from East Goshen with an expansion of their WWTP. West Goshen added that their

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

facility is designed to be increased by 1.50 MGD increments so the economics of the additional flow versus expansion costs must be considered.

There has been some discussion about diverting West Goshen flows to West Chester. They have manholes 20 feet apart however, the flow going thru this line in West Goshen is much less than 0.35 MGD so the diversion would probably require pumping wastewater to West Chester from another drainage area.

3.3 Westtown

The Westtown Service Area, illustrated on Figure 1, generally serves the small portion of the Township at its southern boarder with Westtown Township. Wastewater treatment is provided at Westtown's Sewage Treatment Plant (NPDES #PA0031771) through an inter-municipal agreement. The agreement calls for Westtown to accept wastewater from approximately 522 residences in the Township. The EDU charge for connection is \$5,335.00.

Westtown has informed East Goshen that they are not currently in a position to increase the allocation of wastewater from East Goshen.

3.4 West Chester Goose Creek

In a letter to East Goshen dated January 23, 2007, the Borough of West Chester stated that it does have available sewer capacity in the range of 0.10 to 0.20 MGD at the Goose Creek Wastewater Treatment Plant. Borough Council has indicated they are amenable to discussions with East Goshen for possible purchase of that capacity. During follow-up discussions, West Chester stated an interest in selling up to 0.75 MGD to East Goshen.

The cost and terms for sale of the capacity are subject to negotiation but it is expected they would be similar to the capacity West Chester Borough currently sells to East Bradford Township. That capacity is sold on an EDU (239 gallons) top-in basis with each EDU currently priced at \$2,332. The quarterly usage rates are currently \$46.20 for 6,000 gallons or less and \$4.05 for each 1,000 gallons over 6,000 gallons. Other than commercial accounts East Bradford Township currently pays a flat rate usage fee of \$98.06 per quarter for single family dwelling units and \$70.97 per quarter for townhouse dwelling units.

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

3.5 Planning Requirements

According to PaDEP, the diversion of wastewater flow from one wastewater treatment facility to another will require an update to the Township Sewage Facilities Management (Act 537) Plan. A grant from DEP could be obtained that would pay for 50% of the effort for the plan update.

A plan update is not required for the upgrade and expansion of the RCSTP to 0.75 MGD. If the RCSTP is merely upgraded and not expanded, or upgraded and expanded to a different capacity (say 0.60 MGD), a plan update would be required to explain the change in wastewater capacity need.

3.6 Permitting Requirements

All construction and operation of any new or revised infrastructure will require a Water Quality Management (WQM) Part 2 Permit. If the new or revised infrastructure requires planning (Act 537) approval, the approval must be received from PaDEP before the Part 2 Permit is applied for.

If the RCSTP is upgraded and expanded above 0.75 MGD, a plan update would be required to justify the increase in flow and an exhaustive analysis of non-discharge alternatives would be necessary as well. A Socio-Economic Justification (SEJ) would also be required. Therefore, expansion of RCSTP beyond 0.75 MGD would require a time consuming and extensive planning effort.

If the West Goshen STP is to be expanded, the STP would need to be re-permitted for the increased discharge. This plant already makes up a large proportion of the Chester Creek base flow and making increasing the discharge unlikely. In addition, a plan update would be required to justify the increase in flow and an exhaustive analysis of non-discharge alternatives would be necessary as well. A Socio-Economic Justification (SEJ) would also be required.

3.7 Schedule

The RCSTP is operable and providing wastewater treatment meeting current NPDES Permit limits. The RCSTP does not have redundant treatment capacity, however, and should there be a catastrophic loss of a treatment unit, the RCSTP will not be able to

Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania

sufficiently treat the incoming wastewater. An upgrade of the RCSTP is therefore needed in the very near future unless the RCSTP is abandoned and its flow is treated elsewhere.

Scheduling timeframes to be used in this evaluation of alternatives are:

- Act 537 Plan Update: 9 months (Township only) and 12 months (multiple municipalities)
- Part 2 Permit Review by DEP: 3 months
- WWTP Upgrade and Expansion Design: 9 months
- RCSTP Upgrade or Expansion Bidding and Construction: 18 months
- NPDES Permit for Increased Discharge from West Goshen WWTP: 18 Months
- West Goshen WWTP Expansion Bidding and Construction: 24 months
- Pump Station Design: 9 months
- East Goshen Pump Station Bidding and Construction (New Facility): 12 months (simple) and 12 months (complex)
- West Goshen Pump Station Bidding and Construction (Upgrade of Existing Westtown Way Pump Station): 18 months

3.8 Hershey's Mill

Hershey's Mill has expressed an interest in connecting to the Township wastewater system to relieve the disposal pressures they experience with their land application (spray irrigation) disposal system. It is expected that any flow from Hershey's Mill would be steady (not subject to peaking) and therefore would be a simple addition to the wastewater flows summarized above. Hershey's Mill has stated that between 50,000 gpd and 100,000 gpd might be requested.

DEP was contacted to discuss the potential for taking a portion of flow from spray irrigation to stream discharge with the added complication of being in a HQ watershed. This would probably require an update to the local base plan (full planning study) and an "exhaustive review of alternatives." The potential for added storage, increased spray fields, and alternative disposal methods (e.g. drip irrigation) would need to be investigated.

The potential future flows estimated for the RCSTP service area is 0.40 MGD not including flows from Hershey's Mill. If the RCSTP is expanded to 0.75 MGD, the Township's potential future flow of 1.73 MGD would be met by the combined capacity

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

of the RCSTP and the West Goshen connection (1.75 MGD). Therefore, if Hershey's Mill were to connect to the Township's wastewater system, additional capacity would be needed, which leads to a significant planning and permitting effort.

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

4.0 TREATMENT AND DISPOSAL ALTERNATIVES

The following wastewater treatment and disposal alternatives have been developed to manage the potential wastewater flow from the Township within the current RCSTP and West Goshen Service Areas (for this analysis use 1.75 MGD for potential flow). The alternatives are described in greater detail in Section 5 of this Report.

Use of Westtown's treatment and disposal capacity is not considered in these alternatives since they have informed East Goshen that they are not currently in a position to increase the allocation of wastewater from East Goshen.

4.1 Utilize West Goshen and RCSTP

Under these alternatives, the potential wastewater flow of 1.75 MGD will be met using the RCSTP and/or West Goshen's treatment facilities.

A1: Upgrade RCSTP and maintain 0.400 MGD capacity and increase discharge to 1.35 MGD at West Goshen

A2: Expand and Upgrade RCSTP to 0.750 MGD and maintain 1.0 MGD capacity at West Goshen

4.2 Utilize West Goshen, RCSTP and West Chester

Under this alternative, the potential wastewater flow of 1.75 MGD will be met using the RCSTP, West Goshen's treatment facilities and facilities at West Chester.

B1: Upgrade RCSTP and maintain 0.400 MGD capacity; maintain 1.0 MGD capacity at West Goshen, and discharge 0.350 MGD to West Chester

4.3 Alternative C – Utilize West Goshen and West Chester

Under these alternatives, the RCSTP is abandoned and converted into a 0.400 MGD pump station and the potential wastewater flow of 1.75 MGD will be met using West Goshen's treatment facilities and facilities at West Chester.

C1: Convert the RCSTP into a pump station and direct all 1.75 MGD to West Goshen

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

C2: Convert the RCSTP into a pump station, maintain 1.0 MGD capacity at West Goshen, and direct 0.75 MGD to West Chester

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

5.0 EVALUATION OF ALTERNATIVES

The facilities required to implement each alternative as well as the permitting requirements; institutional requirements (inter-municipal requirements); estimated schedule; and engineer's conceptual opinion of project costs are presented in Table 1. All of the alternatives that have been identified and described in this report are considered to be technically feasible. That is, the technology exists to construct and operate the alternative.

The estimated schedule to implement each alternative has been prepared using the milestones noted in the description of each alternative and the typical durations listed in section 3 of this report.

The Engineer's opinion of probable costs for each alternative (provided in Appendix F of this report) have been prepared using the following:

- Conceptual elements of each alternative, vendor quotes for treatment processes, and engineering judgment.
- The connection costs for West Goshen and West Chester were calculated using their standard rates. This calculation will likely overestimate the final negotiated connection costs.
- Engineering, administrative, and legal costs have been estimated based on percentage of the Engineer's opinion of probable construction cost.

The Township desires to implement the alternative that has the most beneficial combination of: (1) short estimated schedule to avoid the cost of inflation and provide redundancy of treatment at the RCSTP; and (2) low probable project cost.

5.1 Alternative A1

Under this alternative, the RCSTP is upgraded and maintained at a flow rate of 0.40 MGD and the discharge to West Goshen will increase to 1.35 MGD. The equipment needed to upgrade the RCSTP is essentially the same as the equipment needed to expand the RCSTP using a Sequencing Batch Reactor (SBR) and tertiary filtration.

In addition to upgrading the RCSTP, this alternative requires the expansion of the West Goshen pump station at Westtown Way and expansion of the West Goshen STP.

Township Wastewater Needs Evaluation East Goshen Township, Chester County, Pennsylvania

This alternative presents challenges and has a “low” feasibility because of the effort required to expand the West Goshen STP. Specifically, in addition to finding other entities to fill 1.5 MGD of an expansion, the STP would need to be re-permitted for the increased discharge. This plant already makes up a large proportion of the Chester Creek base flow and making increasing the discharge unlikely.

This alternative also has a long schedule (69 months) due to the permitting issues and a high probable project cost of \$17,889,000.

5.2 Alternative A2

Under this alternative, the RCSTP is expanded to a capacity of 0.75 MGD and the discharge to West Goshen remains at 1.0 MGD. In addition to expanding the RCSTP, this alternative requires the construction of a diversion pump station at Reservoir Road to take the future potential flow out of the West Goshen Service Area and into the RCSTP Service Area.

The feasibility of this alternative is “high” since sewage planning is complete for the RCSTP and NPDES discharge permit in place for the 0.75 MGD discharge from RCSTP. Also, no new or revised inter-municipal agreements are needed. The planning and construction of the diversion pump station can be put off until flows to West Goshen need to be sent to RCSTP.

This alternative has a 30 month schedule and the lowest probable project cost. If an MBR expansion of the RCSTP is selected, the probable project cost is \$11,430,100. If an SBR expansion of the RCSTP is selected, the probable project cost is \$8,638,100.

5.3 Alternative B1

Under this alternative, the potential wastewater flow of 1.75 MGD will be met by upgrading the RCSTP, maintaining flow to West Goshen at 1.0 MGD, and diverting 0.35 MGD to West Chester. To implement this alternative, in addition to upgrading the RCSTP, a new East Goshen pump station is needed at Reservoir Road with long force main to West Chester. A new intermunicipal agreement with West Chester is required as is a multi-municipal Act 537 Plan Update.

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

This alternative has a 42 month schedule and a probable project cost of \$12,663,000. This alternative has a “medium” feasibility due to the need for a new inter-municipal agreement with West Chester and right-of-way/easement issues associated with a long force main outside of East Goshen.

5.4 Alternative C1

Under this alternative, the RCSTP is abandoned and converted into a 0.40 MGD pump station and the potential wastewater flow of 1.75 MGD will be met using West Goshen’s treatment facilities. In addition to upgrading the RCSTP, this alternative requires the expansion of the West Goshen pump station at Westtown Way and expansion of the West Goshen STP.

This alternative presents challenges and has a “low” feasibility because of the effort required to expand the West Goshen STP as discussed with Alternative A1.

This alternative also has a long schedule (69 months) due to the permitting issues and a high probable project cost of \$17,578,200.

5.5 Alternative C2

This alternative is the conversion of the RCSTP into a pump station that discharges at Reservoir Road, maintaining 1.0 MGD capacity at West Goshen, and directing 0.75 MGD (including the 0.4 MGD from the new RCSTP pump station) to West Chester by a new East Goshen pump station at Reservoir Road with a long force main to West Chester. A new intermunicipal agreement with West Chester is required as is a multi-municipal Act 537 Plan Update.

This alternative has a 36 month schedule and a probable project cost of \$17,551,000. This alternative has a “medium” feasibility due to the need for a new inter-municipal agreement with West Chester and right-of-way/easement issues associated with a long force main outside of East Goshen.

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

6.0 RECOMMENDATION

Alternative A2 (Expand and Upgrade RCSTP to 0.75 MGD and maintain 1.0 MGD capacity at West Goshen) has the shortest schedule and lowest Engineer's Opinion of Probable Project Costs. It also has a "high" feasibility since sewage planning is complete for the RCSTP and the NPDES discharge permit in place for the 0.75 MGD discharge from RCSTP. Also, no new or revised inter-municipal agreements are needed. Also, the other alternatives have considerably longer schedules and the Engineer's Opinions of Probable Project Cost are significantly higher than Alternative 2.

The planning and construction of the diversion pump station can be put off until flows to West Goshen need to be sent to RCSTP. By doing this, this Engineer's Opinion of Probable Project Cost decreases by \$1,482,100.

Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania

Alternative	Facilities Required	Institutional Requirements	Permitting Required	Estimated Schedule (Months)	Feasibility (Low, Medium, High)	Opinion of Probable Project Cost ⁽⁵⁾
A1: Upgrade RCSTP and maintain 0.400 MGD capacity and increase discharge to 1.35 MGD at West Goshen.	Upgrade RCSTP Expand West Goshen PS Expand West Goshen STP	Revise intermunicipal agreement with West Goshen	Multi-municipal Act 537 Plan Update NPDES permit to increase discharge from West Goshen STP WQM Part 2 Permit for RCSTP upgrade and expansion of West Goshen PS	Planning: 12 NPDES Permit: 18 Design: 9 ⁽⁴⁾ Part 2 Permit: 6 Bid and Construct: 24 Total: 69 months	Low (Revised inter-municipal agreement with West Goshen; permitting increased discharge from West Goshen STP)	\$17,889,000
A2: Expand and Upgrade RCSTP to 0.750 MGD and maintain 1.0 MGD capacity at West Goshen	Expand RCSTP New East Goshen PS at Reservoir Road with force main to RCSTP	None required	Township Act 537 Plan Update for new East Goshen PS WQM Part 2 Permit for RCSTP expansion and new East Goshen PS	Planning: 0 ⁽⁴⁾ Design: 9 Part 2 Permit: 3 ⁽³⁾ Bid and Construct: 18 Total: 30 months	High (Planning complete for RCSTP; NPDES discharge permit in place; and no new or revised inter-municipal agreements needed)	For MBR Treatment: \$11,430,100 For SBR Treatment: \$8,638,100
B1: Upgrade RCSTP and maintain 0.400 MGD capacity; maintain 1.0 MGD capacity at West Goshen, and discharge 0.350 MGD to West Chester	Upgrade RCSTP New East Goshen PS at Reservoir Road with force main to West Chester	Prepare intermunicipal agreement with West Chester	Multi-municipal Act 537 Plan Update WQM Part 2 Permit for RCSTP upgrade and new East Goshen PS and force main	Planning: 12 Design: 0 ⁽⁴⁾ Part 2 Permit: 3 Bid and Construct: 18 Total: 42 months	Medium (New inter-municipal agreement with West Chester; permitting and highway occupancy for force main to West Chester)	\$12,663,000
C1: Convert the RCSTP into a pump station and direct all 1.75 MGD to West Goshen	Abandon RCSTP New PS at RCSTP with force main to Westtown Way Expand West Goshen PS Expand West Goshen STP	Revise intermunicipal agreement with West Goshen	Multi-municipal Act 537 Plan Update NPDES permit to increase discharge from West Goshen STP WQM Part 2 Permit for RCSTP PS and expansion of West Goshen PS	Planning: 12 NPDES Permit: 18 Design: 9 ⁽⁴⁾ Part 2 Permit: 6 Bid and Construct: 24 Total: 69 months	Low (Revised inter-municipal agreement with West Goshen; permitting increased discharge from West Goshen STP)	\$17,578,200

Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania

Alternative	Facilities Required	Institutional Requirements	Permitting Required	Estimated Schedule (Months)	Feasibility (Low, Medium, High)	Opinion of Probable Project Cost ⁽⁵⁾
C2: Convert the RCSTP into a pump station, maintain 1.0 MGD capacity at West Goshen, and direct 0.75 MGD to West Chester	Abandon RCSTP New PS at RCSTP with force main to Reservoir Road New East Goshen PS at Reservoir Road with force main to West Chester	Prepare intermunicipal agreement with West Chester	Multi-municipal Act 537 Plan Update WQM Part 2 Permit for RCSTP PS and new East Goshen PS and force main	Planning: 12 Design: 0 ⁽⁴⁾ Part 2 Permit: 3 Construction: 18 Total: 36 months	Medium (New inter-municipal agreement with West Chester; permitting and highway occupancy for force main to West Chester)	\$17,551,000

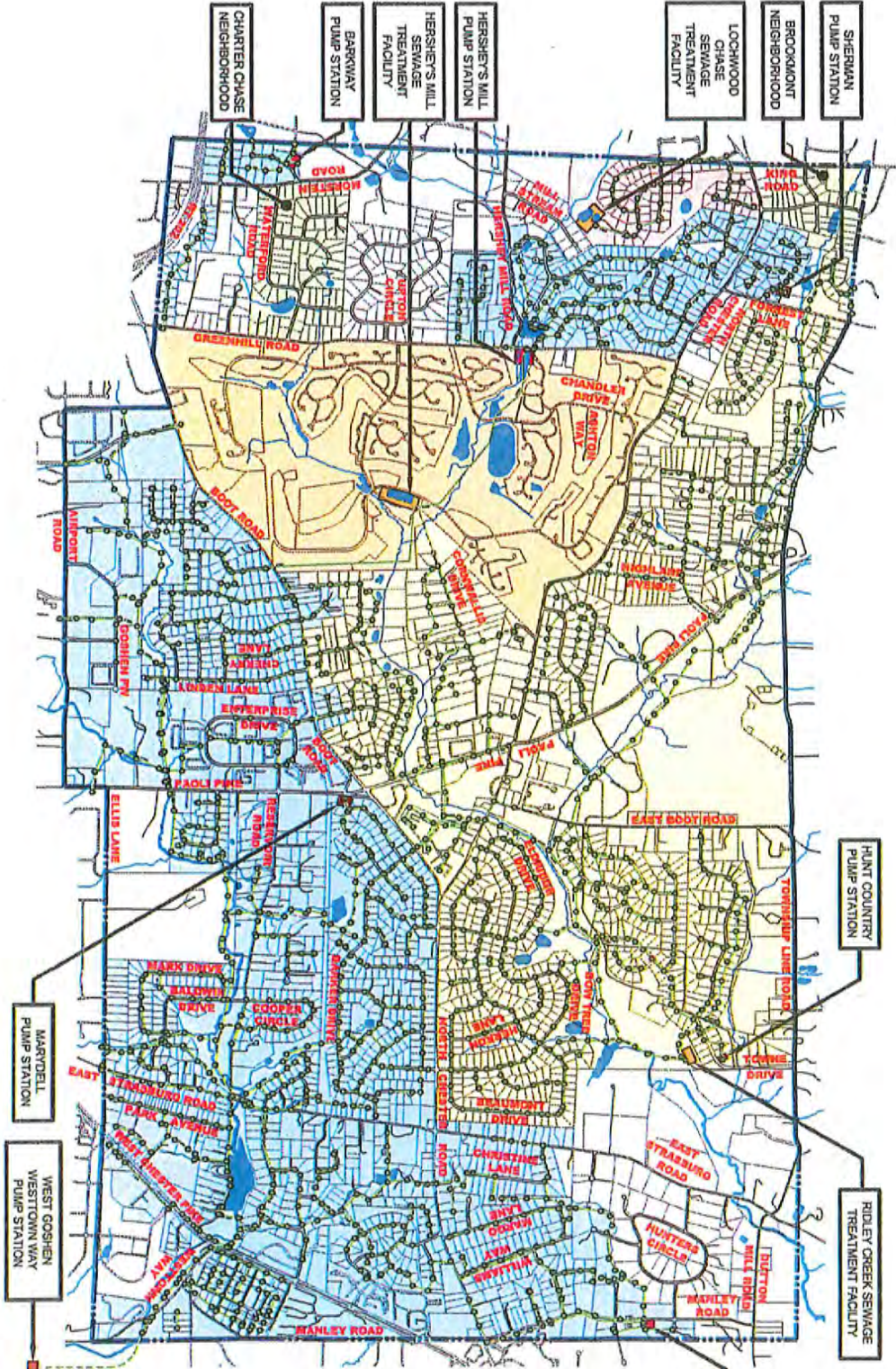
Notes:

- (1) Design of West Goshen STP expansion should not start before NPDES Permit approved by DEP
- (2) Planning for new East Goshen PS can be completed at a later date when diversion from West Goshen is required
- (3) Part 2 Permitting for RCSTP expansion is expected to be shorter than permitting for West Goshen STP since DEP is familiar with the project
- (4) Design of new pump stations can be completed during Act 537 Plan Update
- (5) Includes Engineering, Legal, Administrative and Construction costs as well as the estimated connection fee. See Engineer's Opinion of Probable Project Costs provided in the Appendix to this Report

**Township Wastewater Needs Evaluation
East Goshen Township, Chester County, Pennsylvania**

FIGURES

Figure 1 Wastewater Service Areas



LEGEND

- POTENTIAL
- FUTURE CONNECTIONS
- RIDLEY CREEK STP SERVICE AREA
- WESTTOWN SERVICE AREA
- LOCKWOOD CHASE SERVICE AREA
- HERSHEY'S MILL SERVICE AREA
- WEST GOSHEN SERVICE AREA
- PUMP STATION
- SEWAGE TREATMENT FACILITY
- SANITARY SEWER
- SANITARY MANHOLE
- TOWNSHIP BOUNDARY

EAST GOSHEN TOWNSHIP
 CHESTER COUNTY, PENNSYLVANIA
FIGURE 1:
TOWNSHIP WASTEWATER FACILITIES

Periont
 THE DRAFT FROM REPRESENTATION ONLY
 PREPARED FOR EAST GOSHEN TOWNSHIP BY CHESTER COUNTY IN PENNSYLVANIA
 MARCH 2008

Memorandum

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380
Voice: 610-692-7171
Fax: 610-692-8950
E-mail: mgordon@eastgoshen.org

Date: 1/28/2014
To: Municipal Authority
From: Mark Gordon, Township Zoning Officer *ML*
Re: Goshen Meadows Investors L.P. / San. Sewer reservation

As you may know the Board of supervisors has approved the Land development plan and application for the construction of five new apartment buildings and restoration of the existing Historic Resource at 1325 West Chester Pike on June 18, 2013. The Township has received a 10% reservation fee for the 63 EDU's for this development

Please execute the capacity reservation agreement and we will collect the balance of the sewer tap-in fees upon issuance of the Building permits.
I have drafted a motion for your consideration.

Draft Motion:

Mr. Chairman, I move that we authorize the Chairman to execute the capacity reservation agreement for the Goshen Meadows project.

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 Goshen Meadows Investors, L.P.
("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 53-06-0056.0000 ("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 N/A gallons per day (gpd) or 63 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% or \$12,600 of the usual tapping fee \$126,000 (63 X's 2,000) 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:







MEMORANDUM

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

FROM: Michael Ellis, P.E.
Authority Engineer

DATE: February 6, 2014

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 operational issues were brought to our attention in January.
- We gathered documentation requested by Miller Environmental's attorney and provided the documentation to the Township's attorney.

Reserve PS Elimination

- We are still awaiting several contract closeout documents from the contractor before final payment can be made including as-built plans, a letter from the geotechnical engineer confirming adequate backfill compaction within the detention basin berm, written notification that they will return in the spring to remove the filter sock along the creek, contractor's release, statement of surety, and maintenance bond. The contractor has not indicated when these documents will be provided.

Chapter 94 Annual Reports

- We collected and analyzed data and information for the Ridley Creek STP, West Goshen, and Westtown reports. A draft of the Westtown report was completed and forwarded to the Township for review. Preparation of the other two reports is ongoing.

Reservoir Road Pump Station Act 537 Plan

- We conducted one complete PNDI Search for the maximum project impact area consisting of the proposed pump station site, Alternative 2A force main route, and construction access path from the end of the force main to the Ridley Creek STP. The results require that we perform a Phase 1 bog turtle habitat survey and also submit documentation to the PA Department of Conservation and Natural Resources (DCNR)

for potential threats to three special concern plant species – the Tooth-cup, Heller’s Witchgrass, and Autumn Bluegrass. Two of these species are concerns that were not on prior PNDI results.

- We made submissions to DCNR on January 16 for the special concern plant species, to Pennsylvania Historical and Museum Commission (PHMC) on January 16 for a Cultural Resources Notice review, and to U.S. Fish and Wildlife Service (F&W) on January 15 for a bog turtle habitat screening. F&W may require additional in-field wetlands delineation of the extended force main route prior to the bog turtle survey. However, we have not yet received feedback from any of the agencies.
- We evaluated the feasibility of diverting all upstream flow (approx 500,000 gpd) in the Chester Creek Interceptor through the new pump station and 8” force main in the future. Larger pumps and a larger force main would be needed to convey all upstream flow, assuming that the pump station would have to handle all upstream peak flows with no flow going to West Goshen. An email with further details was sent to the Township on January 30.
- We also estimated the impact of the additional pollutant loadings on the Ridley Creek STP. The additional 300,000 gpd may cause the influent NH₄ daily load (in pounds/day) to exceed the plant’s average design capacity. BOD₅, TSS, TKN, and Phosphorus influent loads are anticipated to remain within the plant’s design capacities. A more accurate evaluation can be performed after an organic composite sample is taken from representative wastewater in the Chester Creek Interceptor.
- As previously reported, the altered and additional force main routing will require additional field survey beyond our original scope; however, we do not recommend any further surveying be performed until the design phase, after the Act 537 Plan is approved by PADEP.
- The next step in the Act 537 Planning process is to submit the draft Act 537 Plan to the Chester County Planning Commission, Chester County Health Department, East Goshen Township Planning Commission, West Goshen Planning Commission, and West Goshen’s Treatment Plant operator for review. These agencies are allowed 60 days to provide comments. We recommend these submissions be made within the next few weeks, at least upon receipt of feedback from DCNR and PHMC, to keep the project moving forward.

• Tentative Act 537 Planning schedule:

	<u>Estimated Date</u>
○ Submit to County and Township Agencies	March 3, 2014
○ 60-day County and Township Review Period	May 3, 2014
○ Bog Turtle Screening	May 3, 2014
○ Revisions per Agency Comments	May 15, 2014
○ 30-Day Public Comment Period	June 15, 2014
○ East Goshen and West Goshen Township Adoption	July 7, 2014
○ PADEP Review and Approval (120 days).....	November 15, 2014



Monthly Operations Report: January 2014

Treatment Process Operation

During December 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 December 2013 eDMR.

Table 1

December 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											
December 3, 2013	0.371	2.0	6.2	5	15	0.100	0.31	0.19	0.59	1	0.0000
December 10, 2013	0.492	2.0	8.2	3	12	0.10	0.41	0.20	0.82	1	0.0000
December 17, 2013	0.449	2.0	7.5	5	19	0.100	0.37	0.38	1.42	1	0.0000
December 23, 2013	0.454	2.0	7.6	7	27	0.17	0.65	0.23	0.87	1	0.0000
December 30, 2013	0.498	2.0	8.3	5.0	21	0.130	0.54	0.18	0.75	1	0.0000
December 31, 2013	0.439	4.7	17.2	6.0	22	0.100	0.37	0.18	0.66		
Average	0.4528	2.0	7.6	5	19	0.120	0.46	0.24	0.89	1	0.0000
Minimum	0.3710	2.0	6.2	3	12	0.100	0.31	0.18	0.59	1	0.0000
Maximum	0.4980	2.0	8.3	7	27	0.171	0.65	0.38	1.42	1	0.0000

The monthly average total phosphorus concentration was 0.24 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 0.38 mg/L.

There was no discharge to Applebrook, Outfall 002, during December 2013.



Table 2 illustrates the influent wastewater pollutant loadings for December 2013. The influent loadings remained within the treatment facility design loadings.

Table 2

December 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											
December 3, 2013	0.352	106	311	232	681	33.7	99	51.2	150	6.9	20
December 10, 2013	0.402	234	687	288	845	28.8	85	42	123	5.6	16
December 17, 2013	0.396	222	652	242	710	27.3	80	39.9	117	6.3	18
December 23, 2013	0.417	191	561	142	417	25.7	75	45.6	134	5.1	15
December 30, 2013	0.405	127	373	216	634	38.1	112	59.9	176	6.8	20
Average	0.3943	176	517	224	657	30.7	90	47.7	140	6.1	18
Minimum	0.3519	106	311	142	417	25.7	75	39.9	117	5.1	15
Maximum	0.4174	234	687	288	845	38.1	112	59.9	176	6.9	20

During the month of January 2014, there are no anticipated exceedances of the permitted effluent discharge limitations. Table 3 presents the final effluent data for the month of January 2014.



Table 3

January 2014 - 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											
January 7, 2014	0.406	2.0	6.8	11	37	0.100	0.34	0.39	1.32	1	0.0000
January 14, 2014	0.559	2.0	9.3	6	28	0.15	0.72	0.22	1.03	1	0.0000
January 21, 2014	0.512	2.1	9.0	2	9	0.433	1.85	0.12	0.51	1	0.0000
January 28, 2014	0.466	3.0	11.7	4	16	0.10	0.39	0.30	1.17	1	0.0000
Average	0.4858	2.3	9.2	6	22	0.197	0.82	0.26	1.01	1	0.0000
Minimum	0.4060	2.0	6.8	2	9	0.100	0.34	0.12	0.51	1	0.0000
Maximum	0.5590	3.0	11.7	11	37	0.433	1.85	0.39	1.32	1	0.0000

During January 2014, there was no discharge to Applebrook.

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

Table 4 presents the available pollutant data for the influent wastewater collected at the doghouse manhole.



Table 4

January 2014 - 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											
January 7, 2014	0.357	182	542	168	500	30.6	91	46.4	138	5.3	16
January 14, 2014	0.429	161	479	152	453	27.8	83	42	125	6.4	19
January 21, 2014	0.478	138	411	91	271	30.9	92	39.7	118	5.1	15
January 28, 2014	0.368	304	905	220	655	0	0	36.4	108	5.4	16
Average	0.4082	196	584	158	470	29.8	66	41.1	122	5.6	17
Minimum	0.3571	138	411	91	271	27.8	0	36.4	108	5.1	15
Maximum	0.4781	304	905	220	655	30.9	92	46.4	138	6.4	19

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

Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Foam concentrations remained around the same concentration as during December. Present surface area coverage during React Phase ranges from approximately 90 to 100%. The foam color changed to a light tan color and averages 3 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 consistent during January. The addition of soda ash to the SBRs to assist with maintain desired pH concentrations above 7.0 standard units continued during the month.



SBR No. 2 remains out of service as a treatment unit, however, partially filled with MLSS which continuously mixed and aerated.

During the month, the decanter for SBR 3 continued to be periodically observed as being extended above the water level. The effluent knife valve was routinely closed and the decanter filled with water to assist with lowering the decanter within the water level. The frequency of occurrence ranged from one to several occurrences during the month

Process Monitoring On-Line Instrumentation:

Representatives from the Hach Company were on site on December 17, 2013 to discuss the proposed pilot study of the RTC online analyzer. A proposal for a real time monitoring and control system was received on January 30, 2014. A copy is attached for review and discussion.

Flow data:

January 2014		
Flow Meter Location	Total Volume for Month, MGD	Average Daily Flow, gpd
Influent Wastewater to Screening Building	12.881	415,522
Influent Wastewater to SBRs	15.677	505,723
Internal Recycle	2.621	84,544
Treated Effluent to Disc Filters	14.605	471,141
Final Effluent Discharge	14.438	465,742
Applebrook Golf Course	0	0

Chemical Usage:

January 2014		
Chemical	Daily Average	Total Monthly
Soda Ash	384	11,600
Magnesium Hydroxide	0	0
Aluminum Sulfate solution	58	1,755
Polymer (centrifuge)	7.5*	15 gallons

**Eighteen (18) days of centrifuge operation*



Solids Dewatering and Disposal: December 2013

Sludge Dewatering Summary	
Gallons of sludge dewatered	254,585 gallons
Average Dewatered Total Solids, %	19.4
Wet Tons	41.79
Dry Tons	8.101
Number of dumpsters	5

**A total of five (5) dumpsters were filled during December.*

Solids Dewatering and Disposal: January 2014

Sludge Dewatering Summary	
Gallons of sludge dewatered	279,536 gallons
Average Dewatered Total Solids, %	19.78
Wet Tons	38.77
Dry Tons	7.663
Number of dumpsters	4

**A total of five (5) dumpsters were filled and four (4) dumpsters were removed during January.*

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.

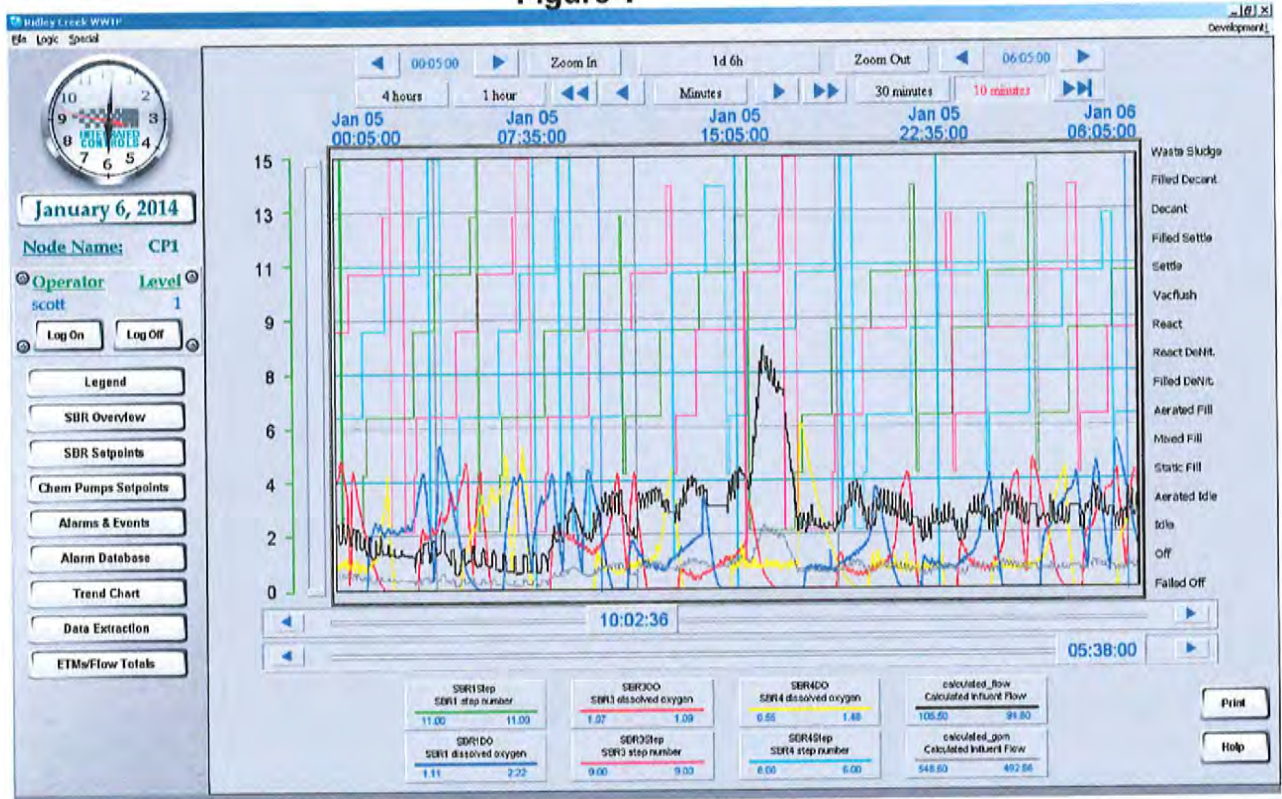
Sludge holding tank No. 1 was in service. The level at the beginning of the month was 9.31 feet and the level at the end of the month was 12.88 feet. The initial total solids concentration was 0.92% and ended the month as 0.97% total solids. 267,840 gallons of supernatant were decanted during the month. A total of 500 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 14.82 feet and the level at the end of the month was 10.92 feet. The initial total solids concentration were 0.55% and ended the month as 0.91% total solids. 278,040 gallons of supernatant were decanted during the month. A total of 150 pounds of soda ash were added during the month for pH adjustment.

Significant Storm/Hydraulic Loading Events

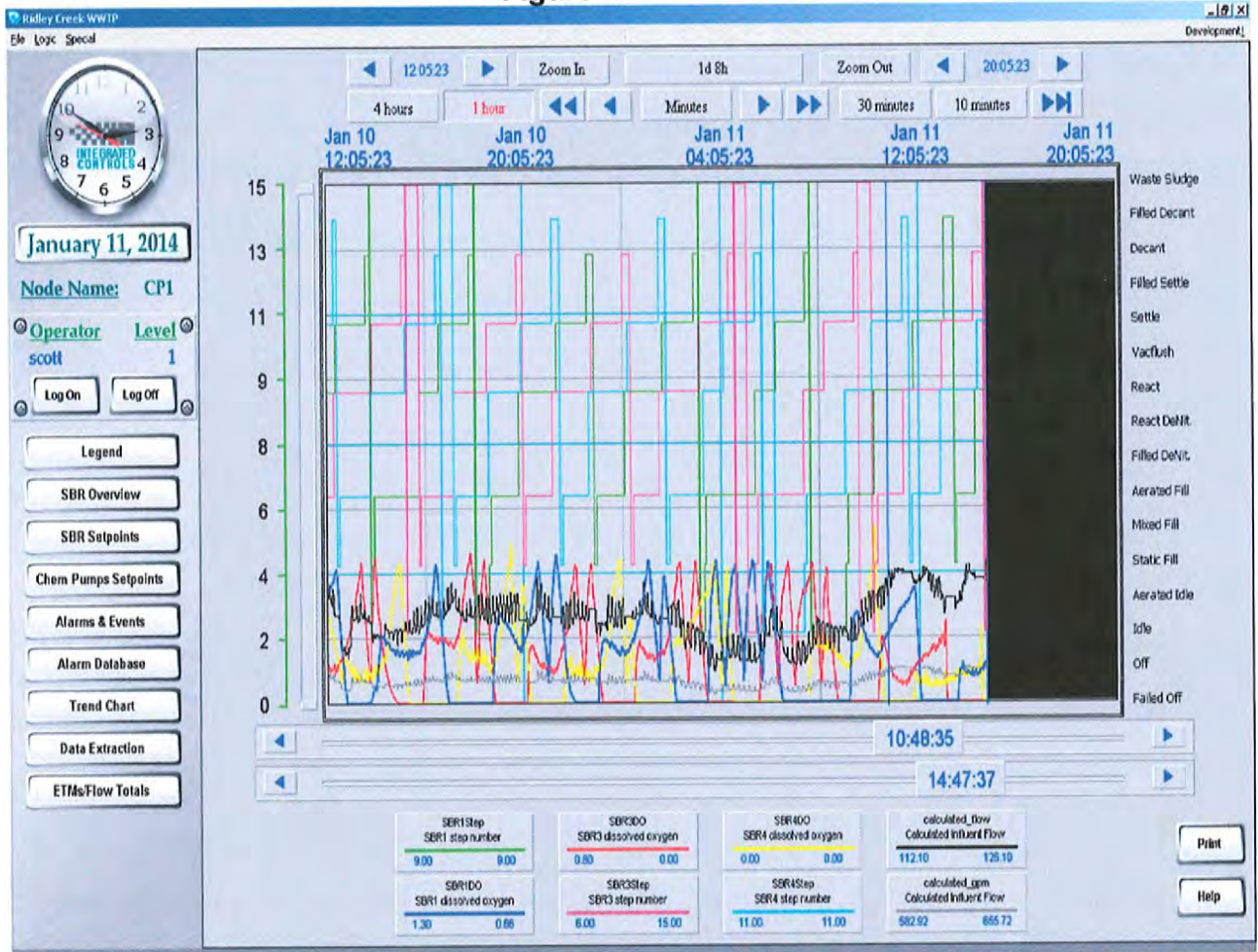
On Monday, January 6, 2014, excessive hydraulic loading to the wastewater treatment plant was experienced. Figure 1 illustrates the influent hydraulic loading to the SBRs. The “high flow” event was managed utilizing manual diversion of flow to the offline SBR basin (SBR number 2). No exceedances of the final effluent discharge limitations were experienced during this event, including the 24 hour composite sample collected on January 7, 2014 for NPDES compliance reporting.

Figure 1



On Friday, January 10, 2014 a second excessive hydraulic loading event to the SBRs was observed. This event include influent hydraulic flows rates in the range of 140% (112x1.25) to 157% (126x1.25) percent of the design hydraulic loadings. The duration of the event was approximately 6 hours. No exceedances of the permitted effluent discharge limitations were experienced during this event. Figure 2 illustrates the influent hydraulic flow pattern to the SBRs.

Figure 2



Minor Repairs and Preventative Maintenance

- Influent pump number 1 was rebuilt as scheduled preventative maintenance and returned to the wastewater treatment facility for reinstallation.
- The UV lamp racks for banks numbered 1 and 2 were removed for cleaning. The channel was cleaned.
- Replace three (3) failed on UV bank number 2. Ballast replaced were module 1, bank 2, module 2, bank 2 and module 4, bank 2.



- Identified a failed level transducer for post flow equalization basin number 1. A replacement transducer in process.
- Replaced failed ballast on UB bank number 1. Ballast replaced was module 3, bank 2.
- Adjusted belt on air compressor.
- Replaced failed ballast on UV bank number 1. Ballast replaced was module 3 bank 1.
- Drained and cleaned disc filters twice during the month.

2013 FLOWMETERS

2014 January 4TH QUARTER- METERS FROM WEST GOSHEN - CC COLLECTION

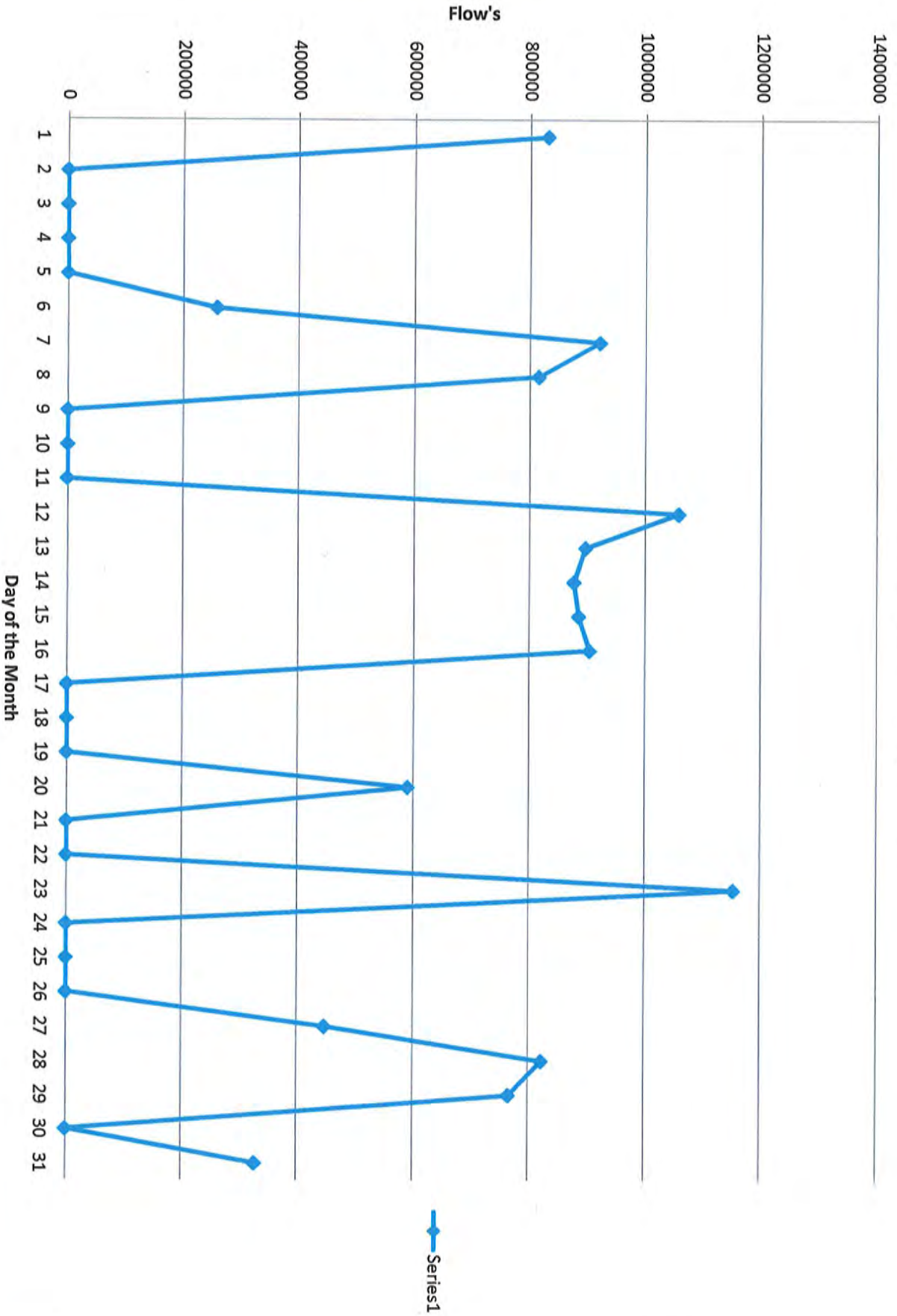
DATE	HERSHEY'S MILL		ASHBRIDGE		HICKS METER		RESERVOIR		SHERMAN		BARKWAY	
	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING	GPD
1/1/2014												
1/2/2014					8,272,045	224,217	37,148,559	724,867				
1/3/2014												
1/4/2014												
1/5/2014												
1/6/2014												
1/7/2014					8,396,604	249,118						
1/8/2014					8,423,544	269,400	37,631,009	804,083				
1/9/2014					8,449,105	255,610	37,726,692	956,830				
1/10/2014												
1/11/2014												
1/12/2014												
1/13/2014					8,558,044	272,348	38,056,947	825,638				
1/14/2014					8,586,532	284,880	38,139,692	827,450				
1/15/2014					8,615,652	291,200	38,227,553	878,610				
1/16/2014					8,643,450	277,980	38,307,530	799,770				
1/17/2014					8,672,450	290,100	38,391,975	844,450				
1/18/2014												
1/19/2014												
1/20/2014												
1/21/2014					8,757,007	211,368	38,680,356	720,953				
1/22/2014												
1/23/2014												
1/24/2014					8,827,092	233,617	38,897,563	724,090				
1/25/2014												
1/26/2014												
1/27/2014												
1/28/2014					8,916,083	222,478	39,179,999	706,040				
1/29/2014					8,941,032	249,490	39,253,172					
1/30/2014					8,965,014	239,820	39,322,091	731,730				
1/31/2014												
		#DIV/0!		#DIV/0!		255,116		795,376		#DIV/0!		#DIV/0!
		0		0		3,571,624		9,544,510		0		0
		0		0		14		12		0		0

2014 SUMMARY OF METER READINGS

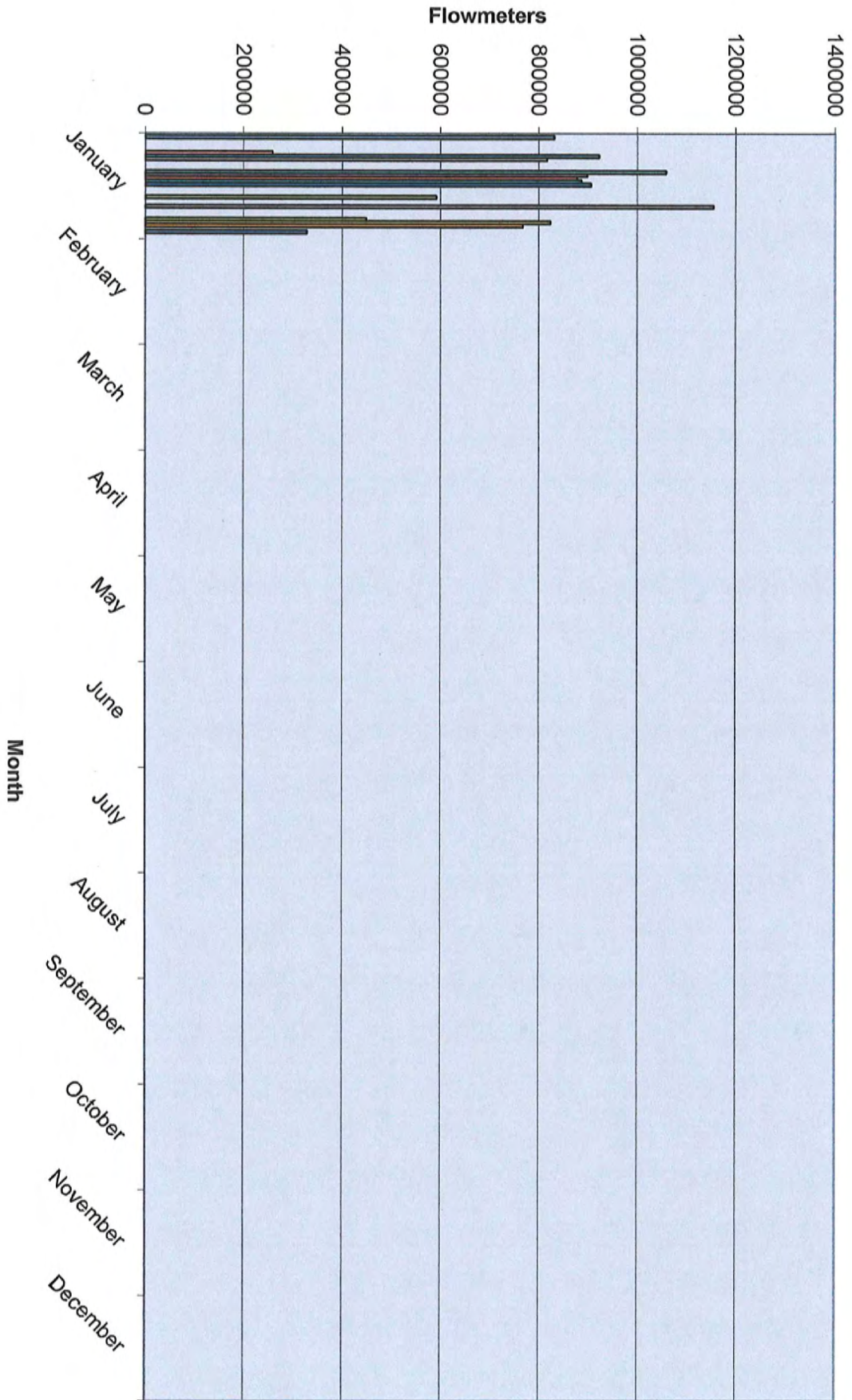
	WESTTOWN WAY	ELLIS LANE	PAOLI PIKE	WILSON DRIVE	SUMMIT	HERSHEY MILL	ASHBRIDGE	HICKS	RESERVOIR	SHERMAN	BARKWAY
JANUARY	1,120,955	112,631	63,436	80,890	24,000			255,116	795,376		
FEBRUARY											
MARCH											
APRIL											
MAY											
JUNE											
JULY											
AUGUST											
SEPTEMBER											
OCTOBER											
NOVEMBER											
DECEMBER											
Total Flows											
Monthly Ave	112,096	11,263	5,767	7,354	2,182	0	0	25,512	72,307	0	0

To
West Goshen 87,712

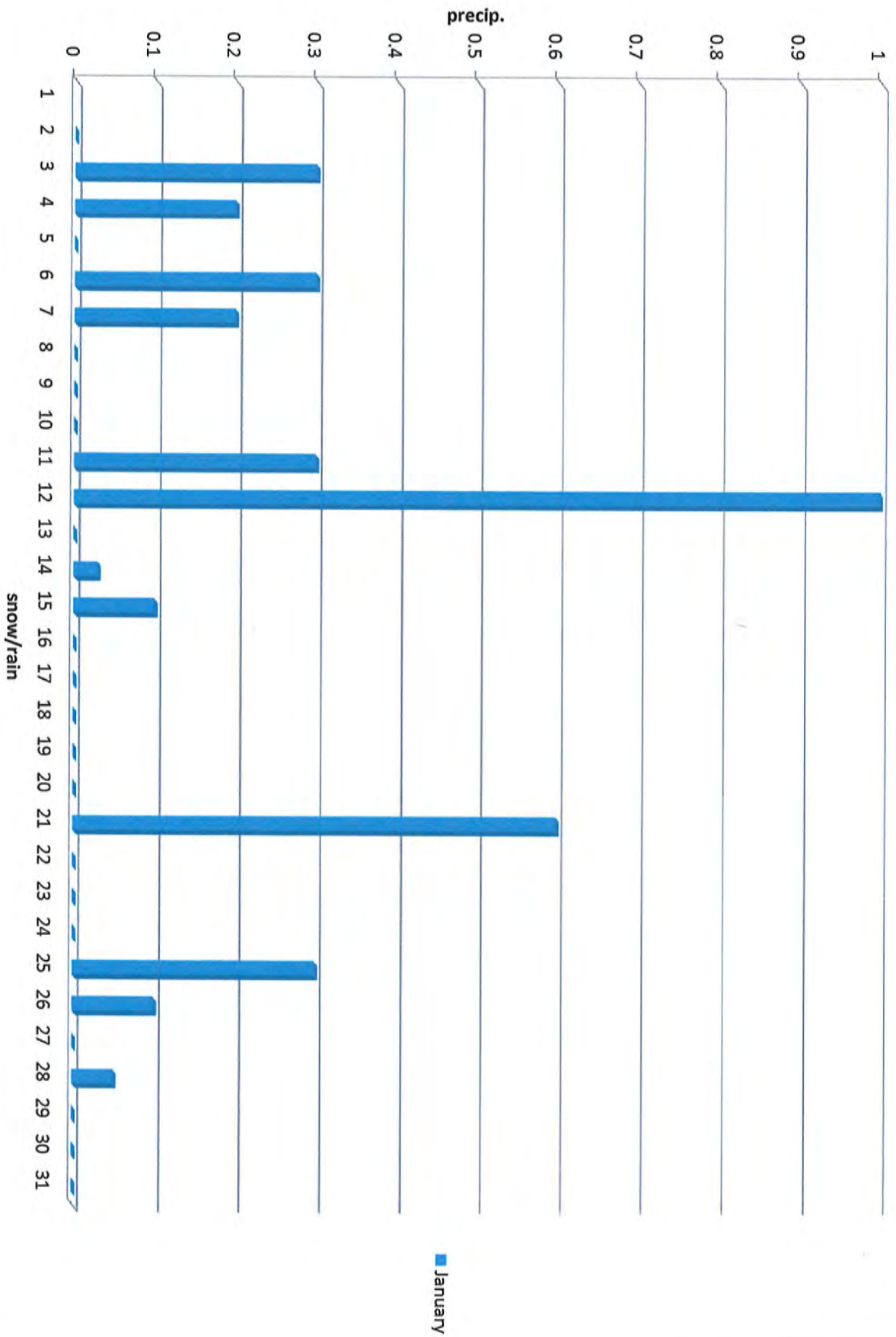
Flowmeters January 2014



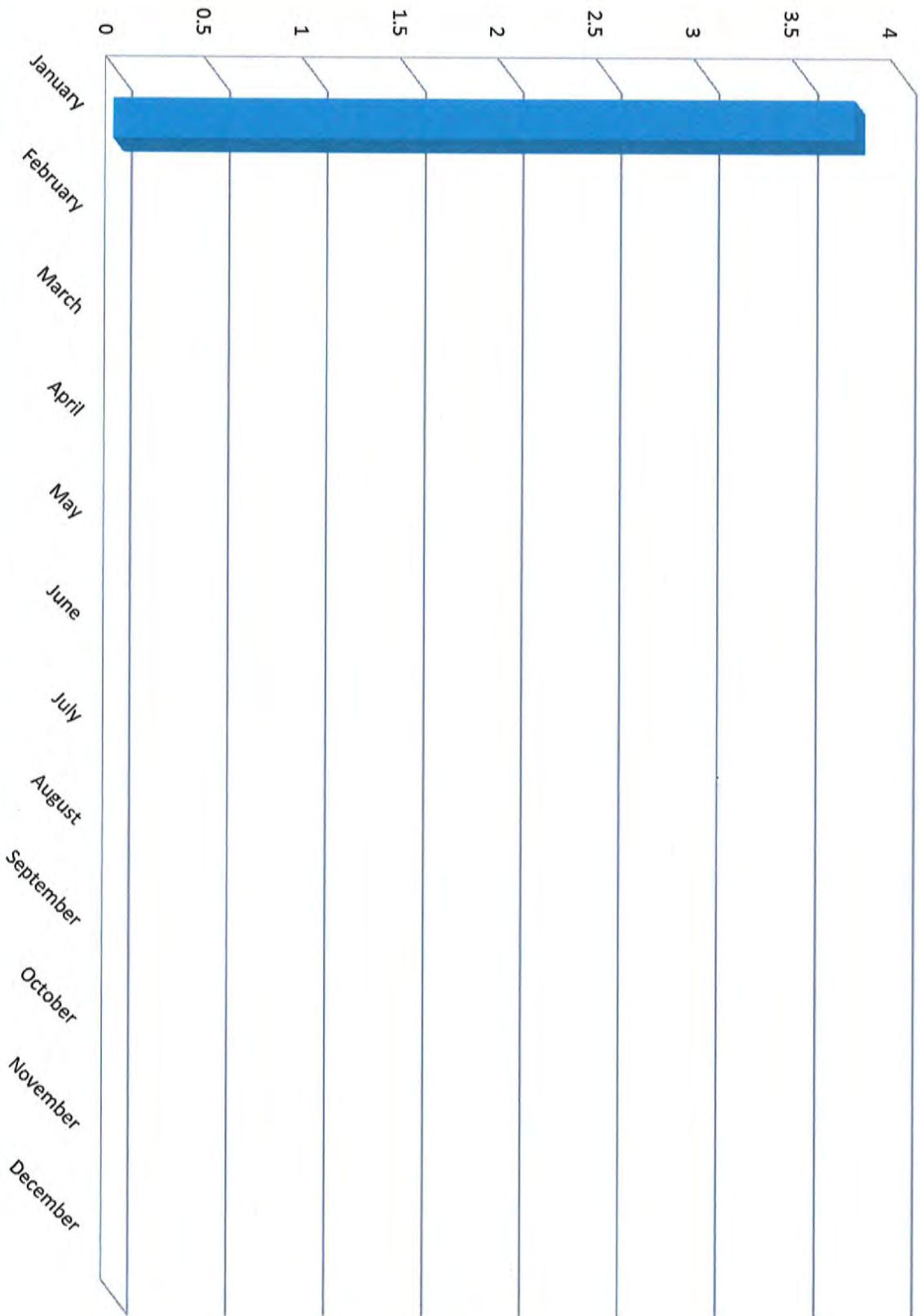
Monthly Totals 2012 Jan-Dec



January Precip. 3.78 - 2014



2013 Monthly Precipitation



■ Series1

FYI

Rick Smith

From: Rick Smith <rsmith@eastgoshen.org>
Sent: Friday, January 31, 2014 8:44 AM
To: Jack Yahraes (tyahraes@aol.com); 'fwbjrcnelt@att.net'; 'kreumming@aol.com'; Dana Pizarro (pizarro@obg.com); emcassey@comcast.net
Cc: 'Mark Miller'; 'Michael Ellis'
Subject: FW: Reservoir Road PS - Additional Flow Evaluation

FYI

Rick

From: Michael Ellis [<mailto:mellis@pennoni.com>]
Sent: Thursday, January 30, 2014 2:40 PM
To: rsmith@eastgoshen.org
Cc: Mark Miller (mmiller@eastgoshen.org); Brian Miller
Subject: Reservoir Road PS - Additional Flow Evaluation

Rick,

The Municipal Authority asked me at the last meeting to determine if the same pumps and force main that would be needed for a 300,000 gpd pump station could also convey all the upstream flow at this point of the Chester Creek interceptor, which averages around 500,000 gpd. The intent of the inquiry was to see if the pumps and/or force main would need to be upsized in the future if the RCSTP is expanded, in order to convey additional flow to the RCSTP.

The 8" force main can convey 500,000 gpd, but it cannot convey the peak design flows (1.5 MGD) at this location.

The pump that we would likely specify for the 300,000 gpd pump station would not have capacity to handle 500,000 gpd. However, larger pumps could be installed in the pump station now with VFDs or with higher fixed pump rates than currently needed.

The below email contains more details.

Please forward to the MA members.

Thanks,
Mike

Michael J. Ellis, PE
Pennoni Associates Inc.
Office 302-655-4451 x5236 | Direct 302-351-5236
Fax 302-654-2895 | Mobile 302-561-4235

From: Brian Miller
Sent: Thursday, January 30, 2014 1:31 PM
To: Michael Ellis
Subject: RE: Reservoir Road Pump Station - Additional Flow

We discussed the option of increasing the diversion flow at the Reservoir Road Pump Station to allow an influent flow rate of 500,000 gallons per day (approx. 347 gpm). A 400 gpm pump rate would provide 4-5 cycles per hour for this

influent rate. This is in comparison to the 300,000 gpd (approx. 208 gpm) original influent flow rate. The pump rate for the 300,000 gpd would be 320 gpm with about 8 cycles per hour. The 320 gpm design point is required to meet the cleansing velocity of 2 feet per second in the 8-inch force main. The 8-inch diameter force main pipe can handle design flows up to 500 gpm. The estimated total dynamic head increases from 124 to 132 for the 400 gpm design point. The estimated pump horsepower for the higher design point will likely be around 25 hp or more, depending on the pump manufacturer and style of pump. The lower design point could be serviced with a pump estimated around 20 hp. The pump rate of 400 gpm could be used to accommodate either influent flow rate with adjustment to the operating range. I attached a calculation sheet showing 3 optional design points.

However, changing the flow diversion to a complete re-route of sanitary flow may require the station to address the peak design flow under PADEP wastewater design guidelines. The 500,000 gallons per day would then require a peak factor of 3.0 making the peak instantaneous design flow 1.5 million gallons per day. This increase would require a significantly larger diameter force main and a larger pump station as well as replacement of existing interceptor pipes to accommodate the peak flow.

Brian Miller

Pennoni Associates Inc.

Office 302-655-4451 x5266 | Direct 302-351-5266

Fax 302-654-2895 |

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

FYI

January 28, 2014

Dear Property Owner:

The purpose of this letter is to advise you of a correction to the letter dated January 24, 2014. This letter corrects the address of the property in question and the meeting date when the Historical Commission will meet to discuss this request.

The Township has received a request from the equitable owner of 1331 E. Strasburg Road, West Chester, PA 19380 to remove the property from the Township Historic Resource Inventory. The Township Zoning Ordinance, §240-38.4, outlines the procedure for a request of this nature.

Pursuant to Township policy, property owners within 1000 feet of the subject property are notified of these types of zoning requests.


The meetings scheduled for the review and discussion of this request are outlined below and subject to change without additional notice.

February 13, 2014 Historical Commission meeting (7:00 pm) **(Public Hearing)**
The Historical Commission will hear the applicant's request and may make a formal recommendation to the Board of Supervisors.

March 4, 2014 Board of Supervisors (7:00 PM)
The Board of Supervisors will consider the Historical Commission recommendation.

All meetings are held at the Township Building and are open to the public. The information pertaining to this request is available for review during normal business hours at the Township Building.

If any person who wishes to attend the hearing has a disability and/or requires an auxiliary aid service or other accommodation to observe or participate in the hearing; he or she should contact the Township at 610-692-7171 to discuss how those needs may be accommodated.

Sincerely,

Mark A. Gordon
Township Zoning Officer

Cc: All Township Authorities, Boards and Commissions

Online Training Academy

Registration Form

AUTHORITY/COMPANY: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

TELEPHONE: _____

NAME: _____ EMAIL: _____

- February 12, 2014 - Authority Financial Issues: What Every Board Member Needs to Know for 2014
- February 19, 2014 - Energy: How to Generate Revenue and Decrease Your Expenses!
- February 26, 2014 - Debt Strategies and Leveraging the Low Interest Rate Environment

NAME: _____ EMAIL: _____

- February 12, 2014 - Authority Financial Issues: What Every Board Member Needs to Know for 2014
- February 19, 2014 - Energy: How to Generate Revenue and Decrease Your Expenses!
- February 26, 2014 - Debt Strategies and Leveraging the Low Interest Rate Environment

NAME: _____ EMAIL: _____

- February 12, 2014 - Authority Financial Issues: What Every Board Member Needs to Know for 2014
- February 19, 2014 - Energy: How to Generate Revenue and Decrease Your Expenses!
- February 26, 2014 - Debt Strategies and Leveraging the Low Interest Rate Environment

Method of Payment:

Use Pre-Purchased units

Pricing until January 31, 2014:

1 to 25 webinar units @ \$35 _____ units 26+ webinar units @ \$30 _____ units

Pricing after January 31, 2014:

All webinar units @ \$40 _____ units

Method of Payment:

MAIL Registration and Payment to PMAA, 1000 North Front St, Suite 401, Wormleysburg, PA 17043

FAX Registration with Credit Card information to: (717) 737-8431

Check No. _____ made payable to PMAA is enclosed.

Visa MasterCard Discover

Credit Card No. _____

Exp. Date _____ Security code _____

CANCELLATION POLICY

All cancellations must be received in writing and sent to PMAA via fax, mail or email. No refunds will be granted for a cancellation notice received less than 48 hours before each session. Substitute registrants are welcome, please email Craig Fahnestock at fahnestock@municipalauthorities.org.

2014 PMAA Board Member Training

Central Location

Thursday, March 6

Radisson Hotel Harrisburg
1150 Camp Hill Bypass
Camp Hill, PA, 17011

East Location

Thursday, March 13

Holiday Inn Allentown – 178
7736 Adrienne Drive
Breinigsville, PA, 18031
(Fogelsville Exit on I78)

West Location

Tuesday, March 18

*Four Points Sheraton-
Pittsburgh North*
910 Sheraton Drive
Mars, PA 16046

PMAA training sessions for both new & existing authority board members. Attendees will be advised on the various roles and associated responsibilities of municipal authority board members in Pennsylvania. As always, informative guidelines to assist in effective leadership! Now three locations are available for PMAA's annual training offering. Designed for both new and existing board members, attendees will learn about their responsibilities in properly and effectively establishing policy and direction for the authority. As always, authority managers are encouraged to join board members for support and discussion.

The following tentative agenda is for all Locations

8:00 - 8:30 am

Registration/Welcome - Coffee & Danish

8:30 - 10:45 am

Government Relations Update

PMAA Government Relations staff will present updates on the pending FY 2014-15 state budget and Operator Certification program. A review of pending legislation on Municipal Finance and electronic publication of legal advertising updates is also scheduled.

Ethics for Public Officials

Attorneys from the State Ethics Commission will provide an overview of ethical standards required of public officials in Pennsylvania and review recent Commission rulings and decisions which may impact municipal authority officials.

Authority Finance- What Every Board Member Needs to Know for 2014

This high level session will explore 5 strategies your board can implement to help your Authority enhance interest earnings, lower operating costs and generate new revenue.

11:00 am - 1:00 pm

Municipal Solicitors' Panel

Local solicitors will address attendees on various issues and topics including the Municipality Authorities Act, board member compensation & eligibility, and recent court cases involving the Open Records Act. Attendees are urged to come prepared with questions for the panel and offer topics at the bottom of the registration form*. This segment of the program has been approved for PA CLE and municipal solicitors are encouraged to attend.

1:00 - 2:00 pm Lunch

**See other side for
registration form.**

Pennsylvania Municipal Authorities Association

1000 North Front Street, Suite 401, Wormleysburg, PA 17043

717-737-7655 * Fax: 717-737-8431 * info@municipalauthorities.org * www.municipalauthorities.org