### EAST GOSHEN MUNICIPAL AUTHORITY January 12, 2015

### Monday 6:00 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. SEWER REPORTS
  - a. Director of Public Works Report
  - b. Pennoni Engineer's Report
  - c. Big Fish Environmental Inc. Report with DMR's
  - d. East Goshen Township Flows
- APPROVAL OF MINUTES
  - a. December 8, 2014
- APPROVAL OF INVOICES
  - a. Pennoni Invoice #618400b. Pennoni Invoice #618401c. Gawthrop Invoice #126447 a. Pennoni Invoice #618400 \$ 137.50 \$ 621.50
  - \$ 400.00 pd 12/12
- 5. **LIAISON REPORTS**
- **FINANCIAL REPORTS** 
  - a. December 2014 Report
- 7. **OLD BUSINESS**
- 8. **GOALS**
- 8. **GOALS** 
  - a. Submit an article for each newsletter Due date for newsletter

Need by 2/13/15

Need by 5/8/15

Need by 8/14/15

Need by 11/13/15

- b. Obtain construction permits for the Reservoir Road Pump Station December 31,
- c. Attend West Goshen Meetings quarterly more often if needed.
  - 1st Quarter
  - 2<sup>nd</sup> Quarter 3<sup>rd</sup> Quarter

  - 4<sup>th</sup> Quarter
- d. Respond to capacity requests in 45 days or less.
- e. Continue to implement I & I Plan
- f. Operate RCSTP in compliance with NPDES Permit
- 9. **NEW BUSINESS**
- 10. **CAPACITY REQUESTS**
- 11. **ANY OTHER MATTER** 
  - a. Semi-annual sewer system status report #12
- 12. CORRESPONDENCE AND REPORTS OF INTEREST
- 13. PUBLIC COMMENT
- 14. ADJOURNMENT

### EAST GOSHEN MUNICIPAL AUTHORITY EAST GOSHEN TOWNSHIP

1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

January 7, 2015

To:

**Municipal Authority** 

From:

Mark Miller

Re:

**December 2014 Monthly Report** 

Meters:

Were read on a daily basis. The temporary meters were visited once a

week. No problems to report.

**C.C.** Collection:

The pump stations were visited on a daily basis, no problems to report. We were notified of three lateral backups. We responded to all three and cleared the blockage. Once we cleared the blockage we televised the line to make sure there were no tree roots in the line.

We were asked to repair 5 lateral caps that were sheared off by lawn mowers. We raised the cleanout pipes and installed new caps.

R.C. Collection:

The Hunt Country Pump Station was visited on a daily basis with no

problems to report.

R.C. Plant:

No problems to report.

**Lateral Repairs:** 

Alarms:

We responded to 19 alarms for the month of December.

PA One Calls:

We received 43 PA One calls in December.



### **MEMORANDUM**

TO:

East Goshen Municipal Authority Board

Rick Smith, Township Manager

FROM:

Michael Ellis, P.E.

**Authority Engineer** 

DATE:

January 8, 2015

**SUBJECT:** 

Engineer's Report

### **Invoices**

• Invoices with summaries are provided under separate cover.

### Reservoir Road Pump Station

- The Act 537 Plan Update was approved by PADEP on January 7, 2015.
- We are initiating work on the pump station concept design. We expect to have a draft concept design of the diversion, a sketch plan of the pump station site, and an outline of the controls concept completed by the Municipal Authority meeting on February 9. We would like to schedule a review meeting with all interested parties (Township staff, RCSTP operator, etc.) the following week.
- Geotechnical investigative drilling at the proposed pump station site is scheduled for Thursday, January 15, weather permitting.
- The existing conditions field survey work is expected to commence by mid-February.

### Semi-Annual I&I Report

 We analyzed December 2014 portable meter data, and we finalized and submitted the semi-annual I&I report that had been originally drafted in October 2014. The full report was not completed in October due to numerous metering issues that needed to be resolved.

### **Chapter 94 Reports**

We will initiate work on the 2014 Chapter 94 Reports the week of January 12.



### Monthly Operations Report: December 2014

### Treatment Process Operation

During November 2014, there were no exceedances of the final effluent discharge limitations for outfall 001 and discharge from Outfall 002. The total phosphorus monthly average concentration of 0.21 mg/L as compared to the permitted limitation of 0.50 mg/L. Table 1 illustrates the final effluent composite sample data reported for the November 2014 eDMR. During the month, the final effluent total phosphorus concentration discharged ranged from 0.12 mg/L to 0.32 mg/L. A daily average of 74 gpd of aluminum sulfate solution was used as compared to the 70.5 gpd average for October.

Table 1

	192 4000	VI W	No state of	able		_	10				
	Noven	nber	2014 -	Final	Efflue	ent -	Out F	all 00	1		
	Flow	СВ	OD <sub>s</sub>	T	ss	Ni	H <sub>4</sub> -N	13.27. 82.	orus,Total ng/L	Fecal C	oliform
NPDES Permit Discharge Limitations	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											
November 4, 2014	0.277	2.0	4.6	4	9	0.200	0.46	0.12	0.28	1	0.0000
November 11, 2014	0.301	2.0	5.0	7	18	0.136	0.34	0.32	0.80	1	0.0000
November 18, 2014	0.335	2.0	5.6	3	8	0.120	0.34	0.21	0.59	1	0.0000
November 25, 2014	0.307	2.0	5.1	3	8	0.100	0.26	0.20	0.51	1	0.0000
Average	0.305	2.0	5.1	4	11	0.139	0.35	0.21	0.54	1	0.0000
Minimum	0.277	2.0	4.6	3	8	0.100	0.26	0.12	0.28	1	0.0000
Maximum	0.335	2.0	5.6	7	18	0.200	0.46	0.32	0.80	1	0.0000

There was no discharge from Outfall 002 to Applebrook during November 2014.



Table 2

	No	vemb	er 201	4 - In	fluent	Was	stewa	ter			
	Flow	В	OD <sub>5</sub>	1	ss	Ni	H <sub>4</sub> -N	TKN	, mg/L	1,000,000	rus,Total g/L
Design Basis		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											
November 4, 2014	0.353	258	760	222	654	34.4	101	40.1	118	6.4	19
November 11, 2014	0.396	278	819	380	1,120	34.1	100	48	141	6.6	19
November 18, 2014	0.385	216	636	288	849	30.9	91	42.8	126	5.8	17
November 25, 2014	0.366	140	413	282	831	29.9	88	46.9	138	4.1	12
Average	0.375	223	657	293	863	32.3	95	44.5	131	5.7	17
Minimum	0.353	140	413	222	654	29.9	88	40.1	118	4.1	12
Maximum	0.396	278	819	380	1120	34.4	101	48.0	141	6.6	19

Table 2 illustrates the influent wastewater pollutant loadings for November 2014. The influent loadings remained within the treatment facility design loadings.

Table 3 presents the available Outfall 001 final effluent data for the month of December 2014. There are no anticipated exceedances of the permitted limitations for the month. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.



	Decen	nber 2	2014 -	Final	Efflue	ent - (	Out Fa	all 00	1		
dimension to the	Flow	СВ	OD <sub>5</sub>	Т	ss	NI	I <sub>4</sub> -N	F 27 10 10 10 10 10 10 10 10 10 10 10 10 10	orus,Total ng/L	Fecal C	oliform
NPDES Permit Discharge Limitations	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		Ц					
Sample Date											
December 2, 2014	0.299	2.0	5.0	4	10	0.182	0.45	0.12	0.30	1	0.0000
December 9, 2014	0.311	3.9	10.1	3	8	0.114	0.30	0.14	0.36	1	0.0000
December 16, 2014	0.342	2.7	7.7	4	11	0.345	0.98	0.15	0.43	1	0.0000
December 23, 2014	0.319			-100				0.24	0.64		
December 30, 2014	0.396							0.10	0.33		
Average	0.333	2,9	7.6	4	10	0.214	0.58	0.15	0.41	1	0.0000
Minimum	0.299	2.0	5.0	3	8	0.114	0.30	0.10	0.30	1	0.0000
Maximum	0.396	3.9	10.1	4	11	0.345	0.98	0.24	0.64	1	0.0000

During December 2014, there was no discharge of treated effluent to Applebrook. The pump has been placed in the off mode during the winter months.

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 during December 2014.



	De	cemb	er 201	4 - In	fluent	Was	tewa	ter			
	Flow	В	OD₅	т	ss	NI	-1 <sub>4</sub> -N	TKN	, mg/L	The second	rus,Total, g/L
Design Basis		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 2, 2014	0.404	258	869	186	626	31.8	107	51.5	173	5.3	18
December 9, 2014	0.371	295	993	190	640	27.9	94	39.1	132	4.1	14
December 16, 2014	0.423	136	458	74	249	33.7	113	41.9	141	4.1	14
December 23, 2014	0.410										
December 30, 2014	0.436										
Average	0.409	230	773	150	505	31.1	105	44.2	149	4.5	15
Minimum	0.371	136	458	74	249	27.9	94	39.1	132	4.1	14
Maximum	0.436	295	993	190	640	33.7	113	51.5	173	5.3	18

Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during November and December. SBR 2 was drained, cleaned and inspected on December 8<sup>th</sup>. Selected photographs are included.

T

Figure 1 - SBR 2 Failed Decanter Valve (right side)





Figure 2 - Influent and Aeration Piping

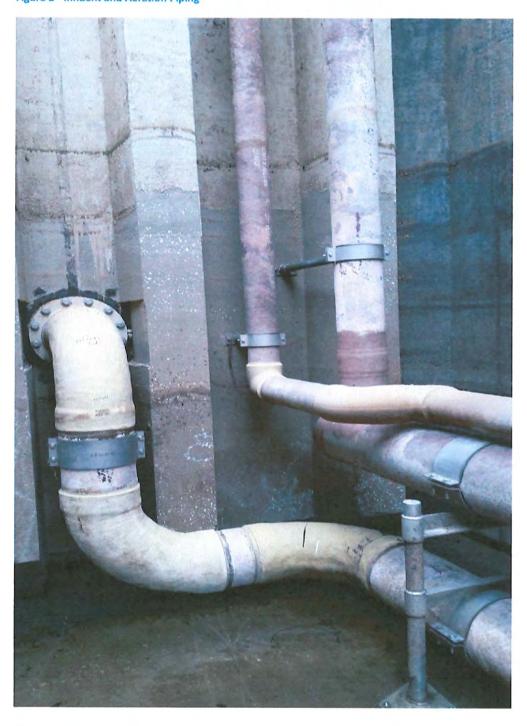




Figure 3 - SBR 2 Motive Pump Impeller





Figure 4 - View of Sludge Waste Pump Guide Rails, Discharge pipe and Visible Concrete Aggregate

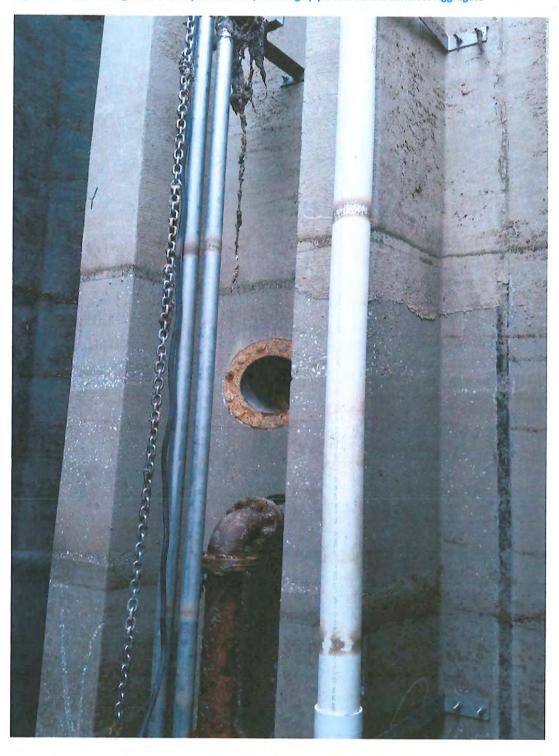




Figure 5 - Broken Aluminum Sulfate Solution Conveyance Pipe



Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Foam concentrations increased slightly during November and December. The average coverage of the surface area was estimated at 50%. Increased sludge wasting rates were maintained to manage the MLSS concentrations and F:M ratio within the desired goals. 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 slightly increased from a daily average of 70.5 gpd during October to 74 gpd during November. During November, the soda ash daily addition average increased slightly to 435 lbs. per day, as compared to 419 lbs. per day during October. Soda ash assists towards maintaining pH concentrations above 7.0 standard units continued during the month.

SBR No. 2 remains out of service as a treatment unit. Minor repairs will be scheduled as weather conditions permit.



### Solids Dewatering and Disposal: November 2014

Sludge Dev	vatering Summary
Gallons of sludge dewatered	300,310
Average Dewatered Total Solids, %	20.0%
Wet Tons	36.26
Dry Tons	7.231
Number of dumpsters	4

<sup>\*</sup>Sixteen (16) days of centrifuge operation

### Flow data:

	Decembe	r 2014	
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	13.558	437,366	634,410
Influent Wastewater to SBRs	13.843	446,563	586,944
Internal Recycle	0.571	23,792	53,974
Treated Effluent to Disc Filters	13.251	427,439	533,952
Final Effluent Discharge	11.029	355,774	445,000
Applebrook Golf Course	0	0	0

<sup>\*</sup>The daily maximum flow of 634,410 is the result of an erroneous level meter reading as a result of a high water level due to flooding of the lower level of the Screening Room during an influent pump failure.

### Chemical Usage:

	December 2014	
Chemical	Daily Average	Total Monthly
Soda Ash	435	13,500
Aluminum Sulfate solution	74	2,294
Polymer (centrifuge)	0.84	13.44

<sup>\*</sup>Seventeen (17) days of centrifuge operation



### Solids Dewatering and Disposal: December 2014

Sludge Dev	vatering Summary	
Gallons of sludge dewatered	317,099	
Average Dewatered Total Solids, %	19.4%	
Wet Tons	39.3	
Dry Tons	7.60	
Number of dumpsters	5	

During December, 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 November was 6.53 feet and the level at the end of the month was 12.42 feet. The initial total solids concentration was 0.53% decreasing to 0.46% at the end of the month. The average pH concentration was 7.14 S.U. Zero gallons of supernatant were decanted during the month. A total of 100 pounds of soda ash were added.

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 12.94 feet and the level at the end was 7.54. The initial total solids concentration was 0.64% total solids increasing to 0.87% at the end of the month. The average pH concentration was 7.18 S.U. and 100 pounds of soda ash was added. Zero gallons of supernatant were decanted.

### Significant Storm/Hydraulic Loading Events

There were no significant storm events during the months of December which resulting in solids carryover or deterioration of the final effluent quality. A total of 3.61 inches of precipitation was measured at the facility. The daily maximum precipitation was recorded as 0.77 inches.

### Minor Repairs and Preventative Maintenance

No unscheduled repairs preventative maintenance items were performed during December.

							-				
Precip		WESTTO	WESTTOWN WAY	ELLISI	LANE	PAOLI PIKE	NKE	WILSON DRIVE	10	SUMMIT	NET
Inches	DATE	READING	GPD	READING	GPD	READING	GPD	READING		FLOWS	
0.8	8 12/01/14										
0.3											
0.15	17.										
٥	2 11										
0.22		1,883,099	1,041,091	6,969,516	90,062	4,320,054	63.012	3.154.485	132.955	24.000	755.063
0.85	100										755 063
0											755.063
0.3	3 12/08/14	1,886,441	1,114,000	7,002,364	109,493	4,339,311	64.190	3.189.613	117.093	24,000	823 223
0.25		1,887,534	1,093,000	7,011,880	95,160	4,345,316	60,050	3,202,394	127.810	24.000	809.980
0.1		1,888,741	1,207,000	7,023,681	118,010	4,351,970	66.540	1.0	144.880	24 000	877.570
0.1		1,889,831	1,090,000	7,032,888	92,070	4,358,007	60.370		137,380		800.180
0	12/12/14	1,890,873	1,042,000	7,041,345	84,570	4,363,822	58.150	3.242.999	123.790		775 490
0	12/13/14									2001:12	775 490
0	1								1		775.490
0	-	1,893,926	1,017,667	7,067,205	86,200	4,381,439	58,723	3,276,438	111,463	24.000	761.280
0.2	2	1,894,971	1,045,000	7,075,065	78,600	4,387,570	61,310	3,292,311	158,730	24,000	746,360
0		1,896,006	1,035,000	7,083,515	84,500	4,393,373	58,030	3,306,320	140,090	24,000	752,380
0		1,897,032	1,026,000	7,091,299	77,840	4,399,247	58,740	3,323,265	169,450	24,000	719.970
0		1,898,071	1,039,000	7,099,053	77,540	4,405,130	58,830	3,337,737	144,720	24.000	757.910
0											757.910
٥							11.0				757,910
0.25		1,901,040	989,667	7,122,080	76,757	4,421,840	55,700	3,375,136	124,663	24,000	732,547
0.75	-	1,902,035	995,000	7,130,051	79,710	4,428,275	64,350	3,384,260	91,240	24,000	759,700
0		1,903,021	986,000	7,138,655	86,040	4,434,949	66,740	3,392,703	84,430	24,000	748,790
0	-								T		748,790
0		C	7								748,790
0.3											748,790
0											748,790
0		1,908,188	1,033,400	7,188,147	98,984	4,470,947	71,996	3,434,435	83,464	24,000	778,956
0		1,909,160	972,000	7,196,542	83,950	4,476,395	54,480	3,441,384	69,490	24,000	764,080
		1,910,119	959,000	7,204,806	82,640	4,481,913	55,180	3,447,694	63,100	24,000	758,080
4.57			1,040,284		88,360		60,964		119,103	24,000	766,431
	Day Tot		17,684,824		1,502,126		1,036,391		2,024,749	408,000	20,693,645
	Day Count		17		17		17		17	17	27
					CO TAND						
		STAC OT HTMOM	TTE		17.04						
		NORMAI MONTH TO DATE	ITH TO DATE		47.01						
		YEAR TO DATE			52.38						
		NORMAI YEAR TO DATE	R TO DATE		20.30						

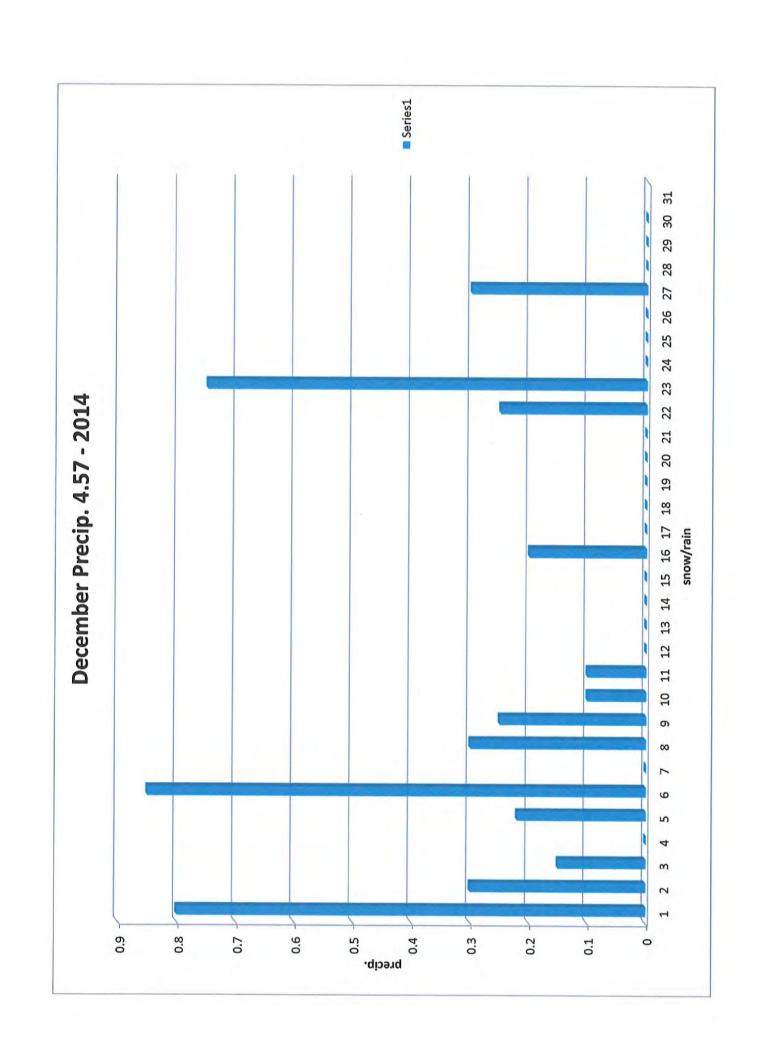
12/10/2014   12/		HERSHEY'S MILI	Y'S MILL	ASHBRIDGE	RIDGE	HICKS METER	METER	RESERVOIR	VOIR	BARKWAY	WAY
24,692,306         637,289         2,018,432         60,182         17,093,218         296,746         61,246,525         747,524         3,432,375           24,885,714         644,687         2,000,405         65,767         17,149,370         287,173         61,476,325         766,000         3,435,555           24,948         63,100         2,000,120         260         20,100         17,149,370         287,173         61,476,325         766,000         3,435,555           22,012,256         643,640         2,000,126         65,000         17,182,47         381,400         61,562,330         3,436,655           25,138,516         588,00         17,218,342         381,400         61,723,600         814,600         3,436,676           25,138,516         588,00         17,218,342         381,200         61,723,600         814,600         81,400         81,436,671         814,680         3,448,680         3,448,680         3,448,680         3,448,680         3,448,680         3,448,680         3,448,680         3,448,680         3,448,680         3,448,680         3,448,680         3,448,680         3,448,690         3,448,690         3,444,185         3,448,690         3,448,690         3,448,690         3,448,490         3,448,490         3,448,490         3,4	ATE	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING	GPD
24,692,308         637,288         2,018,432         60,182         17,063,216         296,748         61,246,525         747,524         3,432,375           24,885,714         644,687         2,020,466         66,787         17,143,370         287,173         61,476,225         786,000         3,435,555           22,486,714         644,687         2,020,996         59,100         17,182,474         331,404         61,456,222         786,000         3,435,555           22,012,286         643,600         17,218,324         335,600         61,723,600         84,600         17,282,774         311,404         61,456,222         868,320         3,435,655           25,012,286         643,600         17,218,324         335,600         61,723,600         81,4500         17,323,700         81,4500         61,723,600         3,435,619           25,303,772         657,520         2,024,604         66,467         17,365,386         266,817         62,055,61         3,443,132         26,443,60         17,365,386         26,207         7,444,165         26,207         26,207         3,443,132         26,207         3,442,132         26,206         3,442,132         26,206         3,442,147         26,206,487         7,444,165         26,246,600         3,442,132         26,4	1/2014										
24,685,714         644,687         2,016,432         60,182         17,063,218         296,748         61,246,525         747,524         3,432,375           24,885,714         644,687         2,003,405         65,767         17,149,370         287,173         61,476,325         766,000         3,435,2375           24,988,714         644,687         2,003,396         59,100         17,282,44         331,040         61,556,322         86,300         3,436,502           25,073,884         643,640         2,020,396         54,100         17,282,570         34,440         61,556,322         86,300         3,436,671           25,073,836         665,780         2,022,749         54,100         17,282,742         341,240         61,786,511         723,219         3,436,661           25,073,836         665,780         17,282,742         36,800         17,282,742         36,800         81,436,511         723,219         3,436,661           25,518,816         661,660         2,022,740         56,800         17,282,742         36,800         61,786,511         743,661         3,436,661           25,518,816         661,660         17,494,772         315,800         61,786,511         774,662         3,441,162           25,518,816         65	2/2014										
24,692,300         637,289         2,016,432         60,182         17,063,218         296,748         61,246,525         747,524         3,432,375           24,885,714         644,687         2,002,405         65,767         17,149,370         287,173         61,476,325         766,000         3,435,654           24,946,884         631,600         2,020,996         59,100         17,183,24         331,040         61,563,330         790,156         6,576           25,013,258         66,376         17,183,24         331,040         61,566,202         786,000         3,435,624           25,013,258         66,576         17,183,474         331,040         61,566,202         786,000         3,435,624           25,013,278         66,767         17,182,474         331,040         61,566,202         786,000         3,435,624           25,013,286         66,780         17,282,742         301,720         61,766,517         786,362         433,661           25,336,772         66,767         17,382,386         28,817         77,282,10         21,443         786,361         3,442,216           25,518,612         20,22,406         61,460         17,762,888         327,000         62,144,485         786,361         3,442,246	3/2014										
24,682,708         637,289         2,018,432         60,182         17,053,218         266,748         61,246,525         747,524         3,432,375           24,885,714         644,687         2,000,405         65,767         17,182,474         331,040         61,555,330         766,000         3,435,654           24,948,894         631,800         2,000,996         59,100         17,182,474         331,040         61,756,322         888,500         3,436,661           25,013,236         643,640         2,027,600         54,100         17,282,572         342,660         61,726,532         786,560         3,437,661           25,513,8716         56,800         2,022,49         56,800         17,282,742         311,726         61,786,511         728,136         3,437,166           25,538,772         66,570         17,282,742         311,280         62,075,380         744,165         3,445,147           25,538,772         66,570         17,282,386         337,002         62,075,380         744,165         3,445,147           25,538,772         66,570         17,484,772         315,280         62,075,380         744,165         3,445,147           25,538,772         66,570         2,026,289         54,990         17,484,772         3	4/2014										
24,885,714         644,687         2,020,405         65,767         17,149,370         287,173         61,476,325         766,000         3,435,555           24,885,714         644,687         2,020,405         65,767         17,149,370         287,173         61,476,325         766,000         3,435,655           25,013,258         643,640         2,021,641         65,000         17,218,324         388,500         61,476,320         88,4500         3,435,661           25,013,258         665,780         2,022,740         54,100         17,285,742         301,720         61,728,571         34,461         7,728,711           25,335,772         667,520         2,024,604         60,467         17,365,386         28,813         62,001,128         682,067         3,445,147           25,385,772         667,200         17,285,386         28,813         62,001,128         682,067         3,445,147           25,580,778         616,550         2,024,604         60,467         17,365,386         227,000         62,147         17,428,328         22,144,335         145,147           25,580,772         656,000         17,428,328         22,248,871         764,363         3,445,147           25,580,772         666,607         17,428,324 <td< td=""><td>5/2014</td><td></td><td></td><td>2,018,432</td><td></td><td></td><td>296,748</td><td>61,246,525</td><td>747,524</td><td></td><td>11,713</td></td<>	5/2014			2,018,432			296,748	61,246,525	747,524		11,713
24,885,714         644,687         2,020,405         65,767         17,149,370         287,173         61,476,225         766,000         3,435,555           24,948,894         631,800         2,020,996         59,100         17,182,474         331,040         61,476,225         766,000         3,435,655           25,013,258         643,640         2,021,249         59,800         17,218,346         61,723,990         84,100         7,225,772         868,920         3,435,651           25,138,516         568,800         2,022,249         54,100         17,282,772         61,723,990         84,45,132         3,436,191           25,387,703         61,520         2,025,140         56,800         17,282,742         86,800         17,285,246         82,075,386         2,441,165           25,545,639         2,036,800         17,286,836         2,888,813         62,001,128         682,057         3,443,132           25,547,030         61,6467         17,285,244         347,132         86,800         17,438,386         2,224,813         62,001,128         682,057         3,444,165           25,547,030         61,647,772         315,800         88,800         17,428,435         730,569         87,444,165           25,777,248         665,067	3/2014										
24,885,714         644,687         2,020,405         65,767         17,149,370         287,173         61,476,325         766,000         3,435,535           24,946,894         631,000         2,020,996         53,100         17,128,474         331,436         61,555,330         868,290         3,436,624           25,079,326         643,640         2,022,249         58,000         17,222,570         342,460         61,723,690         814,680         3,438,676           25,138,516         56,500         17,222,770         342,460         61,723,690         814,680         3,438,676           25,335,772         65,500         17,383,386         288,813         62,001,128         682,067         3,443,132           25,386,772         61,526         2,024,604         60,467         17,383,386         22,24,817         742,820         3,443,132           25,586,728         621,660         2,026,740         56,800         17,428,635         327,700         62,184,557         744,125           25,586,728         622,166         2,026,540         56,200         17,494,772         315,280         62,295,487         706,160         3,447,215           25,580,728         625,667         2,022,626         56,200         17,494,772         3	7/2014										
24,948,884         631,800         2,020,996         56,100         17,182,474         331,040         61,555,330         790,050         3,435,661           25,013,228         643,404         2,022,449         56,300         17,282,570         342,661         3,435,661           25,019,838         645,780         2,022,249         56,300         17,282,572         61,723,690         814,680         3,435,619           25,335,772         657,800         2,022,740         66,4100         17,282,572         61,723,690         814,680         3,435,619           25,335,772         657,600         17,428,889         37,720         62,017,380         344,185         25,486,690         3,446,185         <	3/2014		644,687	2,020,405	65,767		287,173	61,476,325	766,000		10,600
25,013,228         643,640         2,021,651         65,500         17,218,324         385,500         61,642,222         868,920         3,437,661           25,019,836         665,780         2,022,749         59,800         17,226,572         301,726         61,726,591         728,172           25,019,836         665,780         2,022,749         59,800         17,226,742         301,720         61,796,511         728,210         34,486,67           25,387,038         612,680         2,025,172         66,800         17,386,988         327,020         62,011,28         682,067         3,445,147           25,586,728         612,680         17,428,886         327,100         62,148,435         744,165         3,445,147           25,580,728         622,160         2,025,179         62,148,435         76,160         3,445,147           25,580,728         622,160         2,026,381         56,200         17,452,886         62,224,877         76,160         3,447,215           25,580,728         625,067         2,029,207         57,100         17,665,028         62,265,487         706,160         3,447,216           25,906,596         649,560         2,029,77         57,100         17,665,028         286,548         706,160         3,	3/2014	-		2,020,996	59,100		331,040	61,555,330	790,050		10,690
25,079,836         665,780         2,022,249         59,800         17,252,570         342,460         61,723,690         814,680         3,438,676           25,138,516         586,800         2,022,249         54,100         17,282,742         301,720         61,786,511         728,210         3,438,676           25,335,772         65,800         17,283,386         26,813         62,001,128         682,067         3,439,619           25,335,772         65,800         17,386,386         327,700         62,075,380         744,185           25,387,038         612,660         2,025,174         56,800         17,463,244         343,800         62,148,435         7446,284           25,518,512         598,200         17,463,244         343,800         62,148,435         744,624           25,518,512         598,200         17,464,772         315,280         62,24,677         764,360         3,445,147           25,518,512         598,500         17,576,160         27,129         62,265,487         706,160         3,445,216           25,807,724         649,560         2,029,758         55,100         17,576,160         27,140         62,565,745         670,230         3,446,284           25,906,596         649,560         2,032,9	1/2014	1		2,021,651	65,500	H	358,500	61,642,222	868,920	4.1	10.370
25,138,516         586,800         2,022,790         54,100         17,282,742         301,720         61,796,511         728,210         3,439,619           25,335,772         657,520         2,024,604         60,467         17,385,386         268,813         62,001,128         682,057         3,443,132           25,387,038         612,660         2,025,172         56,800         17,286,088         327,020         62,148,435         734,4165           25,587,038         616,520         2,025,172         56,800         17,428,858         327,020         62,148,435         734,4165           25,580,728         622,140         7,428,838         327,020         62,24,877         744,165         3,447,216           25,580,728         622,140         7,436,838         32,448         62,24,877         76,160         3,445,247         76,160         3,445,246           25,80,728         625,067         2,028,536         58,500         17,576,160         271,283         62,24,877         76,160         3,445,167           25,806,596         649,560         2,029,207         57,100         17,576,160         271,283         62,466,575         670,293         3,450,067           25,906,596         649,560         2,029,758         61,467<	/2014			2,022,249	59,800		342,460	61.723.690	814,680		10.150
25,335,772         657,520         20,24,604         60,467         17,363,386         268,813         62,001,128         682,057         3,443,132           25,387,038         612,660         2,025,172         56,800         17,386,088         327,700         62,075,380         742,520         3,444,165           25,486,890         616,520         2,025,172         56,800         17,428,858         327,700         62,148,435         730,550         3,445,147           25,518,512         588,100         17,428,858         327,700         62,148,435         730,550         3,445,147           25,518,512         588,100         17,447,772         315,280         62,224,877         764,360         3,447,215           25,777,248         655,067         2,028,537         56,200         17,444,772         315,280         62,265,487         766,160         3,447,215           25,306,596         649,560         2,029,73         57,100         17,576,160         271,293         62,496,575         670,293         3,450,956           26,306,596         649,560         2,029,758         55,100         17,752,990         241,486         62,975,891         682,830         3,460,907           26,306,728         61,206         2,033,463 <td< td=""><td>2/2014</td><td></td><td></td><td>2,022,790</td><td>54,100</td><td></td><td>301,720</td><td>61,796,511</td><td>728,210</td><td></td><td>9.430</td></td<>	2/2014			2,022,790	54,100		301,720	61,796,511	728,210		9.430
25.335,772         667,520         2.024,604         60,467         17.363,386         268,813         62.001,128         682,067         3,443,132           25,397,038         612,660         2,025,170         56,800         17,428,638         327,700         62,075,380         744,4165           25,518,512         598,220         2,025,740         56,800         17,428,858         327,700         62,148,435         744,4165           25,518,512         598,220         2,026,789         54,900         17,483,244         343,880         62,224,871         764,360         3,444,165           25,580,728         622,160         2,026,289         54,900         17,483,244         343,880         62,224,877         764,360         3,445,264           25,580,728         625,067         2,028,636         58,500         17,576,160         271,293         62,496,575         670,293         3,450,965           25,906,596         649,560         2,028,78         55,100         17,652,242         272,140         62,675,897         66,2310         3,450,965           26,400,890         620,780         2,022,876         61,940         17,752,990         241,496         62,975,891         681,800         3,460,007           26,400,890	3/2014									L	
25,335,772         657,520         2,024,604         60,467         17,363,386         268,813         62,001,128         682,057         3,443,132           25,397,038         612,660         2,025,172         56,800         17,396,088         327,020         62,075,380         742,520         3,444,165           25,458,632         616,520         2,025,140         56,800         17,428,858         327,000         62,248,147         3445,147           25,580,728         622,160         2,026,283         56,200         17,434,772         315,280         62,224,871         764,167         3,445,147           25,580,728         622,160         2,026,287         56,200         17,434,772         315,280         62,295,487         706,160         3,447,215           25,580,728         622,160         2,028,636         56,200         17,494,772         315,280         62,295,487         706,160         3,445,216           25,580,728         622,160         2,029,207         57,100         17,576,160         271,283         62,965,745         617,700         3,452,097           25,906,596         649,560         2,029,758         55,100         17,552,990         241,496         62,965,745         617,00         3,450,00           26,	1/2014										
25,397,038         612,660         2,025,172         56,800         17,396,088         327,020         62,075;380         744,165         3,444,165           25,458,600         616,520         2,025,740         56,800         17,428,858         327,700         62,148,435         730,550         3,445,147           25,518,512         588,220         2,026,851         56,200         17,443,244         343,860         62,205,487         706,160         3,447,215           25,580,728         622,160         2,026,851         56,200         17,494,772         315,280         62,295,487         706,160         3,447,215           25,777,248         655,067         2,028,636         59,500         17,576,160         271,293         62,496,575         670,293         3,450,955           25,841,640         643,560         2,029,207         55,100         17,576,160         271,293         62,496,575         670,293         3,450,955           25,906,596         649,560         2,029,78         55,100         17,576,160         271,49         62,631,976         662,310         3,450,967           26,273,032         73,872         2,029,78         55,100         17,572,990         241,496         62,975,891         687,830         3,460,007	72014		657,520	2,024,604	60,467	17,363,386	268.813	62.001.128	682.057	3.443.132	11.710
25,458,690         616,520         2,025,740         56,800         17,428,858         327,700         62,148,435         730,560         3,445,147           25,186,512         568,220         2,026,289         54,900         17,463,244         343,860         62,224,871         764,360         3,445,147           25,580,728         622,160         2,026,851         56,200         17,494,772         315,280         62,295,487         706,160         3,447,215           25,777,248         655,067         2,028,636         59,500         17,576,160         271,293         62,295,487         706,160         3,452,097           25,906,596         649,560         2,029,07         57,100         17,576,160         272,140         62,657,45         691,700         3,452,097           25,906,596         649,560         2,029,758         55,100         17,632,242         272,140         62,631,976         662,310         3,452,097           26,236,504         649,560         2,029,758         55,100         17,632,242         272,140         62,631,976         662,310         3,452,097           26,306,596         649,560         2,029,786         61,940         17,752,990         241,496         62,975,891         687,830         3,460,007 <td>1/2014</td> <td></td> <td></td> <td>2,025,172</td> <td>56,800</td> <td>17,396,088</td> <td>327,020</td> <td>62.075.380</td> <td>742,520</td> <td></td> <td>10.330</td>	1/2014			2,025,172	56,800	17,396,088	327,020	62.075.380	742,520		10.330
25,518,512         598,220         2,026,289         54,900         17,463,244         343,860         62,224,871         764,360         3,446,264           25,580,728         622,160         2,026,851         56,200         17,494,772         315,280         62,224,877         706,160         3,447,215           25,580,728         655,067         2,028,636         59,500         17,576,160         271,293         62,496,575         670,293         3,450,965           25,906,596         649,560         2,029,207         57,100         17,676,160         271,293         62,496,575         670,293         3,450,965           25,906,596         649,560         2,029,758         55,100         17,632,242         272,140         62,631,976         662,310         3,452,097           26,273,032         732,872         2,029,758         55,100         17,632,242         272,140         62,631,976         662,31         3,460,007           26,273,032         732,872         2,032,855         61,940         17,752,990         241,496         62,975,891         687,833         3,460,007           26,400,890         639,883         10,487,074         1,002,555         17,764,58         234,680         62,975,891         687,400         3,462,400	/2014			2,025,740	56,800		327.700	62,148,435	730,550	10	9.820
25,580,728         622,160         2,026,851         56,200         17,494,772         315,280         62,295,487         706,160         3,447,215           25,777,248         655,067         2,028,636         59,500         17,576,160         271,293         62,496,575         670,293         3,450,955           25,841,640         643,920         2,029,207         57,100         17,605,028         288,680         62,496,575         691,700         3,452,097           25,841,640         643,660         2,029,758         55,100         17,632,242         272,140         62,637,45         691,700         3,452,097           25,906,596         649,560         2,029,758         55,100         17,632,242         272,140         62,637,976         662,310         3,452,318           26,273,032         732,872         2,023,785         61,940         17,752,990         241,496         62,975,891         687,300         3,460,007           26,273,804         650,720         2,033,463         60,800         17,776,458         234,680         63,040,976         650,850         3,461,248           26,400,890         633,828         5,045,804         12,349,474         17           10,877,074         10,02,555         5,045,804         12,	1/2014			2,026,289	54,900		343,860	62,224,871	764,360		11.170
25,777,248         655,067         2,028,636         59,500         17,576,160         271,293         62,496,575         670,293         3,450,955           25,841,640         643,920         2,029,207         57,100         17,605,028         288,680         62,565,745         691,700         3,450,955           25,906,596         649,560         2,029,758         55,100         17,632,242         272,140         62,651,976         662,310         3,450,955           26,273,032         732,872         2,022,855         61,940         17,752,990         241,496         62,975,891         687,830         3,460,007           26,338,104         650,720         2,033,463         60,800         17,776,458         234,680         63,040,976         650,850         3,461,248           26,400,890         627,860         2,033,463         66,800         17,776,458         234,680         63,040,976         650,850         3,462,406           26,400,890         639,828         88,974         1,002,555         5,045,804         12,349,474         17           10,877,074         17         17         17         17         17         17	/2014			2,026,851	56,200		315,280	62,295,487	706,160		9,510
25,777,248         655,067         2,028,636         59,500         17,576,160         271,293         62,496,575         670,293         3,450,955           25,841,640         643,520         2,029,207         57,100         17,605,028         288,680         62,565,745         691,700         3,452,097           25,906,596         649,560         2,029,207         57,100         17,632,242         272,140         62,631,976         662,310         3,452,097           25,906,596         649,560         2,029,78         55,100         17,632,242         272,140         62,631,976         662,310         3,452,097           26,273,032         732,872         2,032,855         61,940         17,752,990         241,496         62,975,891         687,830         3,460,007           26,400,890         627,860         63,040,976         650,850         3,461,248         650,850         3,461,248           26,400,890         637,863         60,800         17,776,458         234,680         63,040,976         650,850         3,462,406           26,400,890         639,828         58,974         1,002,555         5,045,804         12,349,474         17           17         17         17         17         17         17	/2014										
25,777,248         655,067         2,028,636         59,500         17,576,160         271,293         62,496,575         670,293         3,450,955           25,841,640         643,920         2,029,207         57,100         17,605,028         288,680         62,565,745         691,700         3,452,097           25,906,596         649,560         2,029,758         55,100         17,632,242         272,140         62,653,197         3,453,318           25,906,596         649,660         2,029,758         55,100         17,632,242         272,140         62,631,976         662,310         3,453,318           25,906,596         649,660         17,632,242         272,140         62,631,976         662,310         3,453,318           26,273,032         732,872         2,032,855         61,940         17,752,990         241,496         62,975,891         687,830         3,461,248           26,400,890         627,860         2,034,648         58,500         17,776,458         234,680         63,105,522         645,406         3,462,406           26,400,890         6239,828         58,974         1,002,555         5,045,804         12,349,474         1           10,877,074         17         17         17         1         1<	/2014										
25,841,640         643,920         27,100         17,605,028         288,680         62,565,745         691,700         3,452,097           25,906,596         649,560         2,029,758         55,100         17,632,242         272,140         62,631,976         662,310         3,453,318           25,906,596         649,560         2,029,758         55,100         17,632,242         272,140         62,631,976         662,310         3,453,318           26,273,032         722,872         2,032,855         61,940         17,752,990         241,496         62,975,891         687,830         3,460,007           26,273,032         723,126         2,033,463         60,800         17,776,458         224,680         63,105,522         645,460         3,461,248           26,400,890         627,860         63,105,522         645,460         3,462,406         726,440         726,440         726,440           10,877,074         1,002,555         5,045,804         12,349,474         17         17         17           17         17         17         17         17         17         17         17	/2014		655,067	2,028,636	59,500	(1	271,293	62,496,575	670,293	3,450,955	12,467
25,906,596         649,560         2,029,758         55,100         17,632,242         272,140         62,631,976         662,310         3,453,318           26,273,032         732,872         2,032,855         61,940         17,752,990         241,496         62,975,891         687,830         3,460,007           26,338,104         650,720         2,033,463         60,800         17,776,458         234,680         63,040,976         650,850         3,461,248           26,400,890         627,860         2,034,048         58,500         17,704,458         237,200         63,105,522         645,460         3,462,406           26,400,890         639,828         58,974         1,002,555         5,045,804         17,724,406	/2014			2,029,207	57,100		288,680	62,565,745	691,700		11,420
26,273,032       732,872       2,032,855       61,940       17,752,990       241,496       62,975,891       687,830       3,460,007         26,38,104       650,720       2,033,463       60,800       17,776,458       234,680       63,040,976       650,850       3,461,248         26,400,890       627,860       2034048       58,500       17,800,178       237,200       63,105,522       645,460       3,462,406         639,828       58,974       1,002,555       5,045,804       12,349,474       1         17       17       17       17	/2014		2 11	2,029,758	55,100	17,632,242	272,140	62,631,976	662,310	3,453,318	12,210
26,273,032       732,872       2,032,855       61,940       17,752,990       241,496       62,975,891       687,830       3,460,007         26,303,104       650,720       2,033,463       60,800       17,776,458       234,680       63,040,976       650,850       3,461,248         26,400,890       627,860       2034048       58,500       17,776,458       237,200       63,105,522       645,460       3,462,406         83,974       10,877,074       1,002,555       5,045,804       12,349,474       17         17       17       17       17       17	/2014										
26,273,032         732,872         2,032,855         61,940         17,752,990         241,496         62,975,891         687,830         3,460,007           26,308,104         650,720         2,033,463         60,800         17,776,458         234,680         63,040,976         650,850         3,461,248           26,400,890         627,860         2034048         58,500         17,776,458         237,200         63,105,522         645,460         3,462,406           10,877,074         1,002,555         5,045,804         12,349,474         1           17         17         17         17         17	1/2014										
26,273,032         732,872         2,032,855         61,940         17,752,990         241,496         62,975,891         687,830         3,460,007           26,38,104         650,720         2,033,463         60,800         17,776,458         234,680         63,040,976         650,850         3,461,248           26,400,890         627,860         2034048         58,500         17,776,458         237,200         63,105,522         645,460         3,462,406           26,400,890         639,828         58,974         17,800,178         237,200         63,105,522         645,460         3,462,406           10,877,074         1,002,555         5,045,804         12,349,474         1           17         17         17         17	/2014				-	2					
26,273,032         732,872         2,032,855         61,940         17,752,990         241,496         62,975,891         687,830         3,460,007           26,38,104         650,720         2,033,463         60,800         17,776,458         234,680         63,040,976         650,850         3,461,248           26,400,890         627,860         2034048         58,500         17,776,458         237,200         63,105,522         645,460         3,462,406           26,400,890         639,828         58,974         1,002,555         5,045,804         12,349,474         1           17         17         17         17         17         1	1/2014										
26,338,104         650,720         2,033,463         60,800         17,776,458         234,680         63,040,976         650,850         3,461,248           26,400,890         627,860         2034048         58,500         17,800,178         237,200         63,105,522         645,460         3,462,406           639,828         58,974         1,002,555         5,045,804         12,349,474         1           10,877,074         1,002,555         5,045,804         12,349,474         1           17         17         17         17	1/2014		732,872	2,032,855	61,940	17,752,990	241,496	62,975,891	687,830		13,378
26,400,890         627,860         2034048         58,500         17,800,178         237,200         63,105,522         645,460         3,462,406           639,828         58,974         296,812         726,440         726,420,474	1/2014		650,720	2,033,463	60,800	1	234,680	63,040,976	650,850		12,410
639,828         58,974         296,812         726,440           10,877,074         1,002,555         5,045,804         12,349,474           17         17         17	/2014		627,860	2034048	58,500		237,200	63,105,522	645,460	3,462,406	11,580
1,002,555 5,045,804 12,349,474 17 17 17 17 17 17 17 17 17 17 17 17 17			639,828		58,974		296,812		726,440		11,115
17 17 17			10,877,074		1,002,555		5,045,804		12,349,474		188,957
			17		17		17		17		17

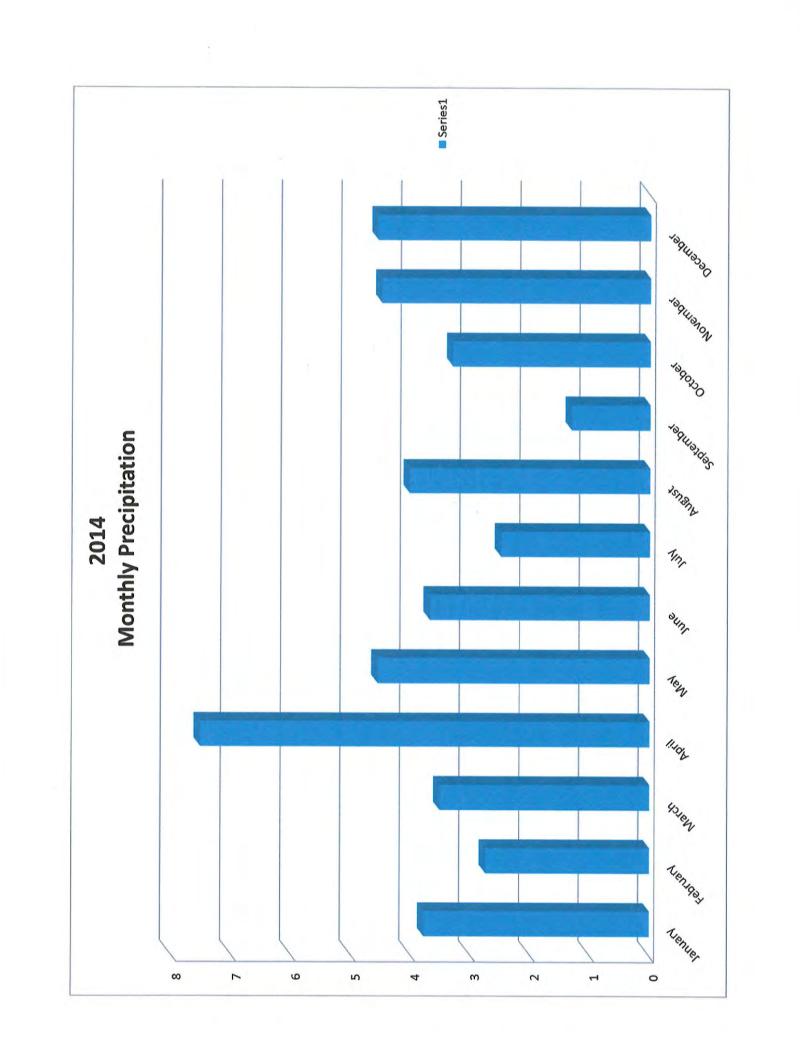
# 2014 SUMMARY OF METER READINGS

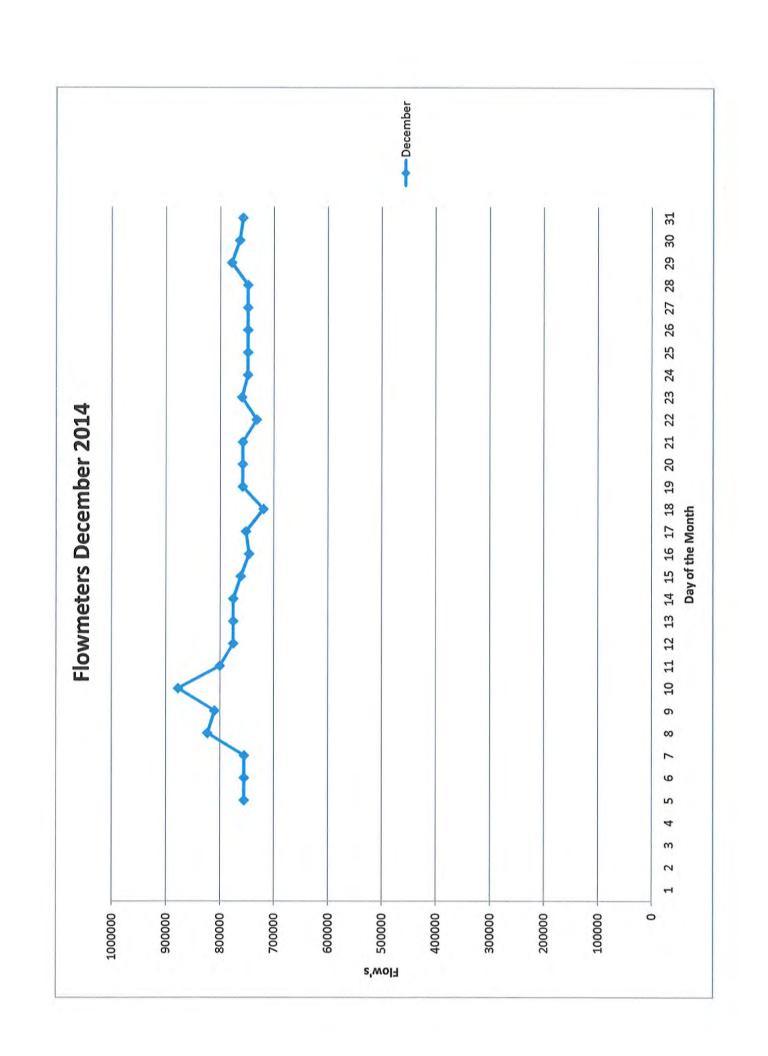
	WESTTOWN	ELLIS	PAOLI	WILSON	SUMMIT	HERSHEY	ASHBRIDGE	HICKS	RESERVOIR BARKWAY	BARKWAY
ANUARY	1.120.955	112 631	63 436	80.890	24 000			255 446	מדה זמד	
EBRUARY	1,249,173	1	68.472	88.803	24 000			287 831	193,370	
MARCH	1,182,533		67,479	84,197	24,000	860.074	75.186	291 520	827 109	28 696
APRIL	1,242,798	143,329	76,736	88,674	24,000	1,029,229		300,256	806.253	
MAY	1,542,161	175,112	95,766	94,501	24,000	1,337,536	•	357,808	937.139	
JUNE	1,117,632	118,019	965,596	96,366	24,000	718,059	68.339	287.327	744 579	
ILY .	965,691	100,935	55,946	896'98	24,000	613,087	57,604	261.340	676,846	
NUGUST	901,782	84,377	54,933	67,878	24,000	546,913	54,394	242.828	616,910	
SEPTEMBER	948,410	82,233	63,005	69,743	24,000	528,956	53,424	183,533	443.679	
OCTOBER	914,111	77,792	61,149	76,199	24,000	519,162	56,103	263,386	608.616	
NOVEMBER	965,665	74,445	92,890	111,895	24,000	535,385	56.614	271.447	654 880	
ECEMBER	1,040,284	88,360	60,964	119,103	24,000	639,828	58,974	296,812	726,440	
otal Flows										
ionthly Ave	1,099,266 110,218	110,218	66,031	88,768	24,000	732,823	67,717	67,717 274,934	726.605	14.101

To West Goshen

834,249







189U1838Q 18 QUISON \*\* QUI EI COS Month OUN Ton Max 40,164 Tienner, 200000 2500000 2000000 1500000 1000000 Flowmeters

Monthly Totals 2012 Jan-Dec

### 1 draft 2 EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY 3 MEETING MINUTES 4 **December 8, 2014** 5 6 The East Goshen Township Municipal Authority held their regular public meeting on Monday, 7 December 8, 2014 at 7:00 pm at the East Goshen Township building. Members in attendance 8 were: Vice Chairman Kevin Cummings, Dana Pizarro, Ed McAssey and Fran Beck. Also in 9 attendance were: Rick Smith (Township Manager), Carmen Battavio (Township Supervisor), 10 Mark Miller (Director of Public Works), Scott Towler (Big Fish), Mike Ellis (Pennoni), and Walter Wujik (Conservancy Board). 11 12 13 **COMMON ACRONYMS:** 14 BFES – Big Fish Environmental Services MA- Municipal Authority 15 BOS – Board of Supervisors NPDES - National Pollutant Discharge Elimination System 16 CB - Conservancy Board PC – Planning Commission 17 DEP - Department of Environmental Protection PM-Prevention Maintenance 18 EPA – Environmental protection Agency PR-Park & Recreation Board 19 HC - Historical Commission RCSTP - Ridley Creek Sewer Treatment Plant 20 I&I - Inflow & Infiltration SBR - Sequencing Batch Reactor 21 LCSTP - Lockwood Chase Sewer Treatment Plant SSO - Sanitary System Overflow 22 WAS - Waste Activated Sludge 23 24 Call to Order & Pledge of Allegiance 25 Kevin called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. 26 There was a moment of silence to remember the troops and all veterans. Kevin asked if anyone 27 would be recording the meeting and there was no response. 28 29 Chairman's Report/Other Members' Reports Ed attended the West Goshen meeting. They continued testing on Goose Creek. They will open 30 bids for methane burner construction on 12/23/14. The Sunoco pipeline was discussed. 31 32 33 **Sewer Reports** 34 1. Director of Public Works 35 Mark Miller reported for November 2014: 36 Meters: There were problems with meters including portable meters. Allied Control 37 was called to make repairs. The meter on Wilson Dr. had meter flows that were climbing. We 38 found that the transducer was failing. Allied installed a spare transducer that we had in stock. 39 Two of the portable meters failed when the band holding the metering probe broke away and flowed down stream. Fortunately, we were able to retrieve the probe. 40 41 CC Collection: While reviewing PA One Calls, we saw that Battavio Plumbing was 42 doing a lateral repair. I called Carmen to see what the problem was. He stated that when his employee was on site, they found sewage coming from the stand pipe at the street. We went out 43 and ran the camera from the stand pipe to the main. We found that the pipe had dropped. We 44 excavated the lateral and verified that the lateral did not have enough fall. After some 45 46 discussion, we decided to abandon the existing lateral and install a new lateral about 20 feet further down the main. This required the removal of a large Ash tree and a hedge row of brush.

47

The pump stations were visited on a routine basis. The pumps that were pulled last month were repaired and picked up at Deckmen Electric.

RC Collection: The Hunt country Pump Station was visited on a daily basis with no problems to report.

RC Plant: On November 20, I received a call from the plant operator who reported that the generators came on to run as they do on a weekly basis. Then he heard a boom and the power went out. When I got to the plant and opened the transfer switch door, I saw that the switch had blown apart. I called our contractor who responded. Due to the age of the transfer switch which is no longer made, it was decided to purchase a new transfer switch out of Texas. Between Paul Siddell and Leni Electric they were able to put a piece of wood in the old transfer switch to allow street power and get the lift station and forward feed pumps operational. Due to the outage, we flooded out the screen with 9 feet of sewage. However, we never overflowed into the meadow. We were not able to get the transfer switch operational until Monday. On November 28 the operator called to report that he heard a bang in the MCC#2 and lost power to the lift station pump #2 and the heat in the sludge room. I contacted Lenni who responded. However, it was decided that as long as the other two pumps were working, we would not touch

Lateral repairs: 1631 Still Lane

Alarms: We responded to 28 alarms for the month of November.

PA One Calls: We received 120 PA One Calls in November.

### 2. Pennoni Engineer's Report

anything until Monday.

Mike Ellis gave the following report:

Invoices: Invoices with summaries are provided under separate cover.

Reservoir Rd Pump Station Act 537 Plan: The Act 537 Plan Update was submitted to PADEP on August 25, 2014. PADEP has reviewed the Plan Update and they provided two comments which we have addressed:

- 1. We submitted revised Plan Update pages to address a project scheduling comment on October 16.
- 2. U.S. Fish & Wildlife Service (USFWS) provided approval of the bog turtle habitat survey and proposed construction avoidance measures on November 14. The approval letter was forwarded to PADEP on November 17. The approval letter includes 12 conditions for construction including a requirement that the pipe construction in the vicinity of the Chester Creek only be performed between April 1 and October 31.

We have requested feedback from PADEP to confirm all comments are satisfactorily addressed, but we have not received a response. Per PADEP guidelines, approval should be issued by December 23, 2014 (within 120 days of the original submission).

Mike added that in phase 2, we will need to have a bog turtle expert present while work is being done.

Sewer Ordinance Updates

We finalized proposed revisions to the "Building Sewer" and "Grinder Pump" sections of the Township's Sewer Ordinance and forwarded to the Township for consideration of enactment via ordinance amendment by the Board of Supervisors.

1 2

- 1 3. Big Fish Environmental Services The full report for November is attached at the end of
- 2 these minutes.
- 3 <u>Minor Repairs & Preventative Maintenance:</u>
- 4 November 10: Located broken wire for #1 post flow equalization tank.
- 5 November 11: Replaced the intake filters for the SBR blowers
- 6 November 12: Repaired wire for #1 post flow equalization basin. Level sensor functioning as
- 7 intended.
- 8 November 14: Siemens panel alarm for alum pump MP-31 failure. Troubleshooting pump and
- 9 controls indicated a potential issue with the control logic. Contacted ICI to provide drawing and
- assist with correcting the problem. Problem corrected on December 1<sup>st</sup>.
- November 19: Initiated procurement of the Mpulse CMMS. Initiated procurement for
- 12 replacement cloth media for disc filter #2.
- 13 November 20: Temporary electric service shut down to allow for electricians to finalize
- le electrical connections for automatic transfer switch for emergency power generator.
- 15 November 24: Installation of the emergency generator automatic transfer switch is complete and
- 16 returned to service.
- 17 November 26: Emergency generator routine exercise completed with no problems.
- 18 November 28: Influent pump #2 failed. Lenni Electric was on site on Monday, December 1.
- 19 Replaced blown fuses in Flygt pump control panel.

21 Approval of Minutes

Dana moved to accept the minutes of November 10, 2014 as corrected. Fran seconded the motion. The motion passed unanimously.

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- **Approval of Invoices**
- 1. Ed moved to approve payment of the following Pennoni invoices:
  - a. Pennoni #615122 \$ 852.50
  - b. Pennoni #615123 \$ 536.75
- c. Pennoni #615124 \$ 103.25
  - Dana seconded the motion. The motion passed unanimously.

30 31

- 32 Liaison Reports
- 33 Board of Supervisors Carmen reported that they reviewed the police merger study, need to
- 34 finalize the police budget and discussed Sunoco.
- 35 Conservancy Board Walter reported that, with assistance from Mark Miller, they planted a
- bald cypress tree on E. Boot Road. There will be a plaque in honor of Bryan DelMonte for his
- years of service. Keep East Goshen Beautiful Day will be the 2<sup>nd</sup> Saturday in April 2015.

38

- 39 Financial Reports
- 40 Jon Altshul provided the following report:
- The Municipal Authority recorded \$2,130 in revenues, including 1 tap-in fee, and \$4,813 in
- 42 engineering and legal expenses in November, a difference of -\$2,683. The fund balance is now
- 43 \$1,603,120.

44

- 45 Goals
- The goals for 2014 are complete. Need to set goals for 2015.

1 The Comprehensive Plan representative will be Dana. Alternate will be Jack. 2 3 **New Business** 4 1. Reservoir Rd Pump Station Design & Permitting. 5 Pennoni Proposal & addendum - Mike explained this is for a concept design to submit to the DEP. After that another proposal will be presented. Rick explained that after 2 consecutive 6 7 quarters at 950,000 gallons, this project will go out for bid. Mike explained the permits and how 8 long they will be in effect. Dana moved to approve the proposal and addendum not to exceed 9 the maximum without approval of the Municipal Authority. Fran seconded the motion. The 10 motion passed unanimously. 2. Software for Maintenance of the Plant - Training was done today. It will track all 11 12 equipment, work orders, and costs. Ed moved to approve the invoice of \$3,500,00 for this 13 software. Fran seconded the motion. The motion passed unanimously. 14 3. Charter Chase – Rick reported that a vacant lot in Charter Chase was purchased by the 15 township for \$4,000.00 to be available for a possible pump station. 16 4. January Meeting – Rick explained that the CPTF will have its first meeting at 7 PM on 17 Monday January 12, the same night as the Municipal Authority meeting. He asked to have the 18 MA meeting start at 6 pm. All agreed. 19 20 Adjourment There being no further business, Dana moved to adjourn the meeting. Ed seconded the motion. 21 22 The motion passed unanimously. The meeting was adjourned at 8:00 pm. 23 24 Respectfully submitted, 25

26

27 Ruth Kiefer

28 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 #: 618400 Invoice Date: 12/16/2014 Project: EGMA1307

Project Name: Reservoir Rd PS Act 537 Planning

For Services Rendered through: 12/7/2014

Reviewed USFWS' bog turtle habitat survey approval letter and conditions, discussed conditions and construction time-of-year restrictions with Conestoga-Rovers, and submitted USFWS approval letter to PADEP.

Phase: 03 -- Act 537 Plan Update

Total Phase: 03 -- Act 537 Plan Update

Labor: 137.50 Expense: 0.00

Phase Total: 137.50

Amount Due This Invoice

\$137.50

Phase: 03 -- Act 537 Plan Update

Labor Total:

Class
Authority Engineer

Hours/ Units Rate 1.25 110.00 1.25

Amount 137.50

Total Phase: 03 -- Act 537 Plan Update

Labor :

\$137.50 \$0.00

137.50

Total Project : EGMA1307 - Reservoir Rd PS Act 537 Planning

Labor :

\$137.50

Expense:

Expense:

\$0.00

Ole RS

### East Goshen Municipal Authority EGMA1401 Invoice Summary Invoice Date 12/16/2014

Project: EGMA1401

Pennoni Job No.: 2014 General Services

 Invoice No:
 618401

 Invoice Period:
 11/10/2014
 to
 12/7/2014

**Initial Authorization:** \$ Date: 10,300.00 12/16/2014 **Contract Amount:** \$ 10,300.00 \$ Previously Invoiced: 9,126.25 \$ **Current Invoice:** 621.50 Invoiced to Date (\$): \$ 9,747.75 Invoiced to Date (%): 95% Remaining Budget (\$): 552.25 Remaining Budget (%): 5%

### **Budget by Phase:**

Phase Name:	2014	4 General Services
Phase Budget:	\$	10,300.00
Previously Invoiced:	\$	9,126.25
Current Invoice:	\$	621.50
Invoiced to Date (\$):	\$	9,747.75
Invoiced to Date (%):		95%
Remaining Budget (\$):	\$	552.25
Remaining Budget (%):		5%

Comments:

Prepared for and attended November's MA meeting, prepared Engineer's Report for December's MA meeting, and evaluated controls concept alternatives for Reservoir Road Pump Station design and permitting proposal.



### 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 #: 618401 Invoice Date: 12/16/2014 Project: EGMA1401

Project Name: 2014 General Services

For Services Rendered through: 12/7/2014

Prepared for and attended November's MA meeting, prepared Engineer's Report for December's MA meeting, and evaluated controls concept alternatives for Reservoir Road Pump Station design and permitting proposal.

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

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

Labor : 621.50

Expense: 0.00

Phase Total: 621.50

Amount Due This Invoice \$621.50

Fee: 10,300.00

 Prior Billings :
 9,126.25

 Current Billings :
 621.50

 Total Billings :
 9,747.75

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

Labor

 Labor
 Hours/

 Class
 Units
 Rate
 Amount

 Authority Engineer
 5.50
 113.00
 621.50

Labor Total: 5.50 621.50

Total Phase : \*\*\*\* - Professional Services Labor : \$621.50

Expense: \$0.00

Total Project : EGMA1401 - 2014 General Services Labor : \$621.50

Expense: \$0.00

O/c 725 1-9-15

### East Goshen Municipal Authority EGMA1307 Invoice Summary Invoice Date 12/16/2014

Project:

EGMA1307

\$

Pennoni Job No.:

Reservoir Rd PS Act 537 Planning

Invoice No:

618400

Invoice Period:

11/10/2014

to

12/7/2014

Initial Authorization:

\$ 77,400.00

Date:

12/16/2014

Contract Amount: Previously Invoiced:

**Current Invoice:** 

\$ 87,900.00 \$ 73,816.75 \$ 137.50

Invoiced to Date (\$): Invoiced to Date (%):

73,954.25 84%

Remaining Budget (\$):

13,945.75

Remaining Budget (%):

16%

### **Budget by Phase:**

Phase Name:	Reservoir Rd PS Ac 537 Planning			
Phase Budget:	\$	87,900.00		
Previously Invoiced:	\$	73,816.75		
Current Invoice:	\$	137.50		
Invoiced to Date (\$):	\$	73,954.25		
Invoiced to Date (%):		84%		
Remaining Budget (\$):	\$	13,945.75		
Remaining Budget (%):		16%		

Comments:

Reviewed USFWS' bog turtle habitat survey approval letter and conditions, discussed conditions and construction time-of-year restrictions with Conestoga-Rovers, and submitted

USFWS approval letter to PADEP.



### Gawthrop Greenwood, PC Attorneys at Law

17 East Gay Street, Suite 100 West Chester, PA 19381-0562 gglaw@gawthrop.com | www.gawthrop.com

(p) 610-696-8225 (f) 610-344-0922

East Goshen Municipal Authority 1580 Paoli Pike West Chester PA 19380

Page: 1 11/30/2014

Client No: Invoice No.

6604-001M

126447

General Authority Services

Fees

11/10/2014

Hours

**PMM** 

Review and analyze meeting packet in preparation for meeting of

Authority; attend Authority meeting.

For Current Services Rendered

2.00

2.00

400.00

Recapitulation

Timekeeper Patrick M. McKenna

Hours 2.00 Hourly Rate \$200.00

Total \$400.00

Previous Balance

\$540.00

**Total Current Charges** 

400.00

11/18/2014

Payment

-540.00

Balance Due

\$400.00

TO MA
This Invoice HAS
BEEN PAID

OKRS 12/12/14

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

### Memo

To: Municipal Authority

From: Jon Altshul

Re: MA December Financial Reports

Date: January 8, 2015

In December, the Municipal Authority recorded \$21,734 in revenues, primarily from Goshen Meadows tapping fees, and \$35,678 in expenses, including \$8,043 for administrative overhead and \$27,235 for the Municipal Authority's 28% share of the debt service on the 1998 note.

For the year, the Municipal Authority recorded \$148,775 in revenues and \$157,869 in expenses. The fund balance was \$1,589,177 as of 12/31/14. Of this amount, \$1,521,706 is in the capital account, primarily from the proceeds of the 2013 note.

A complete list of all year-to-date expenses and revenues is provided.

### EAST GOSHEN TOWNSHIP 1580 PAOLI PIKE

WEST CHESTER, PA Municipal Authority December 2014

		Annual	Month To Date	Year To Date
Account Title	Acct #	Budget	Actual	Actual
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE			1,603,120.19	
RCSTP BUDGET				
REVENUE INTEREST EARNED - RCSTP EXPANSION	07341 1020	2,000.00	132.24	1,577.23
GRANT REVENUE	07392 0800	0.00	0.00	0.00
TOTAL REVENUE		2,000.00	132.24	1,577.23
EXPENSES				
R.CCAP. PROJENGINEER	07424 7451	00.00	00.00	00.0
R.C. CAP EXPANSION GEN'L CONTRACTOR	07424 7452	00'0	0.00	00.0
R.C. CAP EXPANSION - ELECTRICAL	07424 7453	0.00	00.00	0.00
R.C. CAP EXP CONTINGENCY CAPITAL	07424 7454	0.00	0.00	00.00
R.C. CAP EXP CONTINGENCY ONGOING	07424 7455	0.00	00.00	00:0
R.C. CAP EXP ADDITIONAL CONTINGENCY	07424 7456	00.00	0.00	00:0
TRANSFER TO SEWER SINKING FUND	07492 0550	0.00	0.00	00.00
TRANSFER TO AUTHORITY CAP FUND	07492 0990	0000	00:00	0.00
TOTAL EXPENSES		0.00	0.00	0.00
RCSTP NET RESULT		2,000.00	132.24	1,577.23

## EAST GOSHEN TOWNSHIP 1580 PAOLI PIKE

WEST CHESTER, PA Municipal Authority December 2014

		Annual	Month To Date	Year To Date	
Account Title	Acct #	Budget	Actual	Actual	
OPERATING BUDGET					
REVENUE					
INTEREST EARNINGS	07341 1000	27.00	1.97	16.96	
C.C. TAPPING FEES	073641100	124,000.00	21,600.00	112,200.00	
R.C.TAPPING FEES	073641110	21,444.00	00.00	12,288.80	
CONNECTION FEES - SEWER	073641130	00.0	0.00	1,127.52	
MISCELLANEOUS REVENUE	07380 1000	00.0	0.00	564.48	
TRANSFER FROM SEWER OPERATING	07392 0500	0.00	0.00	21,000.00	
TOTAL REVENUE		145,471.00	21,601.97	147,197.76	
EXPENSES					
ADMINISTRATIVE WAGES	07424 1400	32,768.00	8,043.02	32,172.08	
MISCELLANEOUS EXPENSE	07424 3000	4,000.00	00:00	1,450.00	
MUNIC.AUTHAUDITING	074243110	10,800.00	00.0	10,800.00	
ENGINEERING SERVICES	07424 3130	35,525.00	0.00	32,259.00	
LEGAL SERVICES	07424 3140	7,000.00	400.00	7,460.00	
M.CDVRFA-DEBT SERVICE	07471 1000	22,120.00	22,120.00	22,120.00	
M.CDVRFA-INTEREST PAYMN	07472 1000	5,115.00	5,114.86	5,114.86	
M.CDVRFA-INTEREST PAYMN	07472 1010	0.00	0.00	0.00	
TOTAL EXPENSES		117,328.00	35,677.88	111,375.94	
OPERATING NET RESULT		28,143.00	(14,075.91)	35,821.82	

# EAST GOSHEN TOWNSHIP

1580 PAOLI PIKE WEST CHESTER, PA Municipal Authority December 2014

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual	
CAPITAL BUDGET					
REVENUE			900	9	
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	00.00	
MANHOLE COVER REPLACEMENTS	07424.7405	00.00	00:00	00.0	
C.C. CAPITAL - COLLECTION	07424.7420	00.00	0.00	00.00	
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	00.00	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	1,883.50	
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	0.00	000	6,323.20	
RESERVOIR PLIMP STATION - ENGINEER	07428 1000	75,000.00	0.00	38,286.25	
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00	
TOTAL EXPENSES		75,000.00	0.00	46,492.95	
CAPITAL NET RESULT		(75,000,00)	0.00	(46,492.95)	
MINICIPAL ALITHORITY ENDING FUND BALANCE			1,589,176.52		
MONICIPALACINOMICIPALICIP					

Report Date 01/06/15

**GL** Transaction Details

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MGRP18 run by BRIAN 10 : 39 AM

Acct #	Per Src				Beg/End Bal		Check/Ref #	ID #	Name/Description
07341-1000	INTEREST 1401 JE	EARNINGS			0.00	02/04/14	INTEREST		INTEREST EARNED JANUARY 2014 07 FUND
	1402	41391	0.00	0.58	-0.58				INTEREST EARNED FEBRUARY 2014 07100.1000
	1403	41840	0.00	1.71	-1.91	04/01/14	INTEREST		INTEREST EARNED MARCH 2014 07 FUND
	1404	42321	0.00	1.71 1.21	-3.62	05/02/14			INTEREST EARNED APRIL 2014 07100.1000
	1405	42739			-4.83		INTEREST		INTEREST EARNED MAY 2014 07100.1000
	1406	43211	0.00	0.75		07/01/14	INTEREST		INTEREST EARNED JUNE 2014 07100.1000
	1407	43716		0.75 1.11	-6.48	08/04/14			INTEREST EARNED JULY 2014 07 FUND
	1408	44102	0.00	1.11 1.62	-7.59				INTEREST EARNED AUGUST 2014 07100.1000
	1409	44521	0.00	1.62	-9.21	10/01/14	INTEREST		INTEREST EARNED SEPTEMBER 2014 07100.1000
	1410	45013	0.00	1.53 2.16	-10.74		INTEREST		INTEREST EARNED OCTOBER 2014 07100.1000
	1411	45392	0.00	2.16 2.09		12/03/14	INTEREST		INTEREST EARNED NOVEMBER 2014 07 FUND
	1412	45799	0.00	2.09			INTEREST		INTEREST EARNED DECEMBER 2014 07 FUND
			0.00	1.97	-16.96				
			0.00	16.96	-16.96				

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MGRP18 run by BRIAN

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Acct #	Per Src	Trx #			Beg/End Bal			ID #	Name/Description
	INTEREST 1401	EARNED 41028	- RCSTP EXPA	NSION	0.00	02/04/14			INTEREST EARNED JANUARY 2014 07 CONSTRUCTION FUND
	1402	41392	0.00		-137.33	03/04/14			INTEREST EARNED FEBRUARY 2014 07 CONSTRUCTION FUND
	1403	41841	0.00	136.07	-260.89	04/01/14			INTEREST EARNED MARCH 2014 07 CONSTRUCTION FUND
	1404	42322	0.00		-396.96	05/02/14			INTEREST EARNED APRIL 2014 CONSTRUCT.FUNDS
	1405	42740	0.00			06/02/14			INTEREST EARNED MAY 2014 07 FUND - CONSTRUCTION
	1406	43212	0.00	134.59	-663.00		INTEREST		INTEREST EARNED JUNE 2014 07 CONSTRUCTION FUNDS
	1407	43718	0.00	129.00 132.61	-792.00		INTEREST		INTEREST EARNED JULY 2014 07 CONTRUC.FUND
	1408	44103		132.27	-924.61	09/03/14	INTEREST		INTEREST EARNED AUGUST 2014 07 CONSTRUCTION FUND
	1409	44522	0.00	132.27	-1,056.88	10/01/14	INTEREST		INTEREST EARNED SEPTEMBER 2014 07 CONSTRUCTION FUND
	1410	45014	0.00	128.30 132.20	-1,185.18		INTEREST		INTEREST EARNED OCTOBER 2014 07 CONSTRUCTION FUND
	1411	45392	0.00	132.20 127.61	-1,317.38		INTEREST		INTEREST EARNED NOVEMBER 2014 07 FUND
	1412	45799	0.00	127.61 132.24	-1,444.99		INTEREST		INTEREST EARNED DECEMBER 2014 07 FUND
			0.00	132.24	-1,577.23	}		******	
			0.00	1,577.23	3 -1,577.23	}			

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MGRP18 run by BRIAN

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Re	ef #	ID#	Name/Description
07364-1100			PING FEES	}		0.00					
			40976		12,600.00		01/31/14	3034			1 GOSHEN MEADOWS INVESTORS L.P.
				0.00	12,600.00	-12,600.00					
	1402		41258		5,400.00		02/24/14	3553		8069	1 GOSHEN MEADOWS INVESTORS L.P.
		RE	41263		2,000.00		02/24/14	41263	1		TAP IN FEE - 211 ELLIS LANE
				0.00	7,400.00	-20,000.00					
	1405		42661		2,000,00		05/29/14	42661	1		TAP IN FEE FOR 195 WYLLPEN PL
				0.00	2.000.00	-22.000.00					
	1407	CR	43276	****	21,600.00	,	07/03/14	21		8069	1 GOSHEN MEADOWS INVESTORS L.P. 1 GOSHEN MEADOWS INVESTORS L.P.
			43434		21,600.00		07/21/14	26		8069	1 GOSHEN MEADOWS INVESTORS L.P.
			43312		1,800.00		07/08/14	43312	1		TAP IN FEE FOR 1637 MANLEY RD
					45,000.00	-67,000.00					
			44456		21,600.00	·	09/26/14	46		8069	1 GOSHEN MEADOWS INVESTORS L.P.
					21.600.00	-88,600.00					
	1411	RE	45089	****	2,000.00	·	11/06/14	45089	1		TAP IN FEE FOR 610A RESERVOIR
				0 00	2.000.00	-90,600.00					
	1412	CR	45529		21,600.00		12/12/14	85		8069	1 GOSHEN MEADOWS INVESTORS L.P.
				0.00	21,600.00	-112,200.00					
						-112,200.00					
07364-1110	R.C.	TAPI	ING FEES			0.00					
0,004 1110	1402	RE	41280					41280	1		TAP IN FEE-903 SORELL HILL LT2
				0.00		-2,000.00					
	1403	1	11553	0.00	•	2,000.00	03/13/14	41553	1		TAP IN FEE FOR 909 SORRELL LT4
	1403	,	41608		2,000.00		03/17/14	41608			TAP IN FEE FOR 909 SORRELL LT4 TAP IN FEE-905 SORRELL LOT 3
		. ==		0.00	4 000 00	-6,000.00					
	1405	CR	42355	0.00	4,288.80	-		130		6499	1 BOWER, JUDITH
				0.00	A 200 00	-10,288.80					
	1410	) RE	44714	0.00	2,000.00			44714	1		TAP IN FEE FOR 1117 TAYLOR AVE
				0.00	2,000.00	-12,288.80					
				0.00	12,288.80	-12,288.80					
07364-1130	ር ር ር አኬ	ነድርጥ	PERS MOI	- SEWER		0.00					
07364-1130			ION FEES	- SEWER	423.00	0.00	02/04/14	350		8035	1 JACOBS, ROBERT & CHERYL

**GL** Transaction Details

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Acct #	Per	Src						Check/Ref #	ID #	Name/Description
07364-1130	1402		41045	141.12 141.12			02/04/14 02/14/14	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT ANNUAL PINE ROCK INSTALLMENT
				282.24		-563.76				
		JΕ		141.12	423.00		03/04/14			1 STOFFLET, MICHAEL ANNUAL PINE ROCK INSTALLMENT
						-845.64				
	1405		42378		423.00					1 PAPPANO, JOSEPH & PATRICIA ANNUAL PINE ROCK INSTALLMENT
		JE 	42380	141.12				PINE ROCK		
				141.12	423.00	-1,127.52				
				564.48	1,692.00	-1,127.52				
7380-1000	MISC	ELLA1	NEOUS R	EVENUE		0.00				
	1402		41045							ANNUAL PINE ROCK INSTALLMENT
			41125					PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
				0.00	282.24	-282.24				
	1403		41407		141.12					ANNUAL PINE ROCK INSTALLMENT
				0.00	141.12	-423.36				
	1405		42380		141.12		05/07/14	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
				0.00	141.12	-564.48				
				0.00	564.48	-564.48				
07392-0500	TRAN	SFER	FROM S	EWER OPERATIN	ſĠ	0.00				
	1401		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				
				0.00	21,000.00	-21,000.00				
07424-1400	ADMT	NIST	RATIVE	WAGES		0.00				
			41815				03/31/14	2237	42	5 EAST GOSHEN TOWNSHIP - GENERAL 1ST QTR.2014 MUN.AUTH. REIMBURSM
				8,043.02	0.00	8,043.02	*****			
	1406		43192	•		•	06/30/14	2243	42	5 EAST GOSHEN TOWNSHIP - GENERAL 2ND QTR.2014 MUN. AUTH.REIMBURSM
				8,043.02	0.00					

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MGRP18 run by BRIAN

1412   45735   8,043.02   0.00   24,129.06   12/30/14   2259   425 EAST GOSHEN TOWNSELP - GENERAL 4TH QTR.2014 MIN.AUTH. RETHRURSH	"		~	- "	5.126	0 12.6	n/n-1 n-1	D-4-	Charly Das #	TD #	Name /Decarinties
33D QTR.2014 MUN.AUTE. REIMBURSI  1412 45735 8,043.02 0.00 24,129.06  8,043.02 0.00 32,172.08  32,172.08 0.00 32,172.08  32,172.08 0.00 32,172.08  07424-3000 MISCELLANEOUS EXPENSE 0.00 1401 40597 500.00 0.00 ***  1412 JE 45383 1,000.00 0.00 ***  1,450.00 0.00 ***  1,450.00 0.00 ***  1,450.00 0.00 1,450.00 12/03/14 EEVERSE TEXT 45383  1,000.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  07424-3110 MUNIC.AUTHAUDITING 0.00  1407 CD 43405 10,800.00  10,800.00 0.00 10,800.00  10,800.00 0.00 10,800.00  10,800.00 0.00 10,800.00  10,800.00 0.00 10,800.00  10,800.00 0.00 10,800.00  10,800.00 0.00 10,800.00  10407 CD 43405 10,800.00 0.00 10,800.00  10424-3130 ENGINEERING SERVICES 0.00  1401 40653 -663.75 01/14/14 2234 1052 PERNONI ASSOCIATES INC. VOID CK. DUE TO PRINTER PROBLEM 40743 663.75 01/14/14 2230 1052 PERNONI ASSOCIATES INC. SERVICES TRUIT 2/13 GENERAL PERNONI REFUND DUE TO DUELICATE FAIRENE.  0.00 1,845.00 01/14/14 2230 1052 PERNONI ASSOCIATES INC. SERVICES TRUIT 2/13/13 GENERAL PERNONI REFUND DUE TO DUELICATE FAIRENE.	Acct #	Per	Src	Trx #	Debits	Credits					
1412 45735 8,043.02 12/30/14 2259 425 EAST GOSDERT TOWNSHIF - GENERAL  8,043.02 0.00 32,172.08  32,172.08 0.00 32,172.08  32,172.08 0.00 01/06/14 2228 2737 DEP - COMMONWEALTH OF PA NDESS PERMITS - CHAPTER 92A 201 950.00 01/06/14 2229 2132 PERMISTLYANIA MUNICIPAL AUTHORIT 2014 ACTIVE MEMBERSHIP DUES  *** 1,450.00 0.00 ***  1,450.00 0.00 ***  1,450.00 0.00 1,450.00 12/03/14 CERT.CK. CERTIFIED CKC.C.TAX CLAIM BURRAD - 1407 GREENHILL DD. REVERSE TERM 45383 1,000.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  07424-3110 MUNIC.RUTHAUDITING 1407 CD 43405 10,800.00 07/16/14 2246 808 MAILLIE PALCONIERO & CO. 2013 FINANCIAL STWIS. EXAMINATI  10,800.00 0.00 10,800.00  07424-3130 ENGINEERING SERVICES 1401 40653 -663.75 01/06/14 2224 1052 PERMONI ASSOCIATES INC. VOID CK, DUE TO PRINTER PROBLEM 40743 663.75 01/14/14 2230 1052 PERMONI ASSOCIATES INC. SERVICES THRU 1/8/13 GENERAL  1,845.00 01/14/14 REFUND PERMONI ASSOCIATES INC. SERVICES THRU 1/8/13 GENERAL PERMONI RETURD DUE TO DUELCATE PARMENT  0.00 1,845.00 -1,845.00 02/11/14 2233 1052 PERMONI ASSOCIATES INC. SERVICES THRU 1/8/13 GENERAL PERMONI RETURD DUE TO DUELCATE PARMENT	07424-1400	1409	CD	44443	8,043.02	, ,,, ,,, ,,, ,, ,, ,, ,, ,, ,, ,, ,, ,					3RD QTR.2014 MUN.AUTH. REIMBURSM
8,043.02 0.00 32,172.08  32,172.08 0.00 32,172.08  07424-3000 MISCELLANEOUS EXPENSE 0.00 1401 40597 500.00 01/06/14 2228 2737 DEP - COMMONWEALTH OF PA NPDES FEMILITS - CRAPTER 92A 201 950.00 01/06/14 2229 2132 PERNISTLIVATIA UNICIFORAL AUTHORITE 2014 ACTIVE MEMBERSHIP DUES  *** 1,450.00 0.00 ***  1,450.00 0.00 1,450.00 12/03/14 CERT.CK. CERTIFIED CKC.C.TAX CLAIM BUREAU - 1407 GREENHILL ED. PEVERSE TRR# 45383 1,000.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  07424-3110 MUNIC.AUTHAUDITINS 0.00 1407 CD 43405 10,800.00 0.00 10,800.00  10,800.00 0.00 10,800.00  07424-3130 ENGINEERING SERVICES 0.00 10,800.00 0.00 10,800.00  07424-3130 ENGINEERING SERVICES 0.00 10,800.00 0.00 10,800.00  07424-3130 ENGINEERING SERVICES 0.00 1401 40653 -663.75 0.00 1407 40743 663.75 01/14/14 2230 1052 PENNONI ASSOCIATES INC. VOID CALTER INC. SERVICES TRRU 12/8/13 GENERAL DELANCE FATHERITE PATHERITE  0.00 1,845.00 01/14/14 REFUND PENNONI REFUND DUE TO DUPLICATE PATHERITE  0.00 1,845.00 -1,845.00 02/11/14 2233 1052 PENNONI ASSOCIATES INC.		1412		45735	8,043.02			12/30/14			EAST GOSHEN TOWNSHIP - GENERAL 4TH QTR.2014 MUN.AUTH. REIMBURSM
32,172.08 0.00 32,172.08  07424-3000 MISCELLANBOUS EXPENSE 1401 40597 500.00 01/06/14 2228 2737 DEP - COMMONWEALTH OF FA NPDES PERMITS - CHAPTER 92A 201 2132 FERMISTLYANIA MUNICIPAL AUTHORITY 2014 ACTIVE MEMBERSHIP DUES  *** 1,450.00 0.00 ***  1,450.00 0.00 1,450.00 12/03/14 CERT.CK. CERTIFIED CKC.C.TAX CLAIM EUREAU - 1407 CREENHILL RD.  45424 1,000.00 1,450.00 12/04/14 REVERSE REVERSE TEX# 45383  1,000.00 1,000.00 1,450.00 07/16/14 2246 808 MAILLIE FALCONIERO & CO. 2013 FINANCIAL STWITS. EXAMINATI 10,800.00 0.00 10,800.00 07/16/14 2246 808 MAILLIE FALCONIERO & CO. 2013 FINANCIAL STWITS. EXAMINATI 10,800.00 0.00 10,800.00 07/16/14 2246 1052 FERMINATI 10,800.00 0.00 10,800.00 07/16/14 224 1052 FERMINATI 10,800.00 0.00 10,800.00 07/16/14 224 1052 FERMINATI 10,800.00 0.00 10,800.00 07/16/14 224 1052 FERMINATI 10,800.00 07/16/14 224 10,800.00 10,800.00 10,800.00 10,800.00 10,800.00					8,043.02	0.00	32,172.08				
1401 40597 500.00 01/06/14 2228 2737 DEP - COMMONDRALTH OF PA NPDES PERMITS - CHAPTER 92A 201 950.00 01/06/14 2229 2132 PERMISTIVANIA MUNICIPAL AUTHORITY 2014 ACTIVE MEMBERSHIP DUES  *** 1,450.00 0.00 ****  1,450.00 0.00 1,450.00  1412 JE 45383 1,000.00 12/03/14 CERT.CK. CERTIFIED CKC.C.TAX CLAIM BURRAU - 1407 GREENHILL RD. REVERSE TRX# 45383  1,000.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  07/16/14 2246 808 MAILLIE FALCONIERO & CO. 2013 FINANCIAL STMTS. EXAMINATI  10,800.00 0.00 10,800.00  07/124-3100 ENGINEERING SERVICES 0.00  07/124-3100 ENGINEERING SERVICES 0.00  10,800.00 0.00 10,800.00  07/124-3100 ENGINEERING SERVICES 0.00  10/06/14 2224 1052 PERMONI ASSOCIATES INC. VOID CK. DUE TO PRINTER PROBLEM 40743 663.75 01/14/14 2230 1052 PERMONI ASSOCIATES INC. SERVICES TRUE 12/6/13 GENERAL PERMONI ASSOCIATES I											
Post   Part	7424-3000	MISC	ELLA	NEOUS E	XPENSE		0.00				
### 1,450.00 0.00 ***  1,450.00 0.00 1,450.00  1412 JE 45383 1,000.00 12/03/14 CERT.CK. CERTIFIED CKC.C.TAX CLAIM BUREAU - 1407 GREENHILL RD.  45424 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  1407 CD 43405 10,800.00 0.00 10,800.00  10,800.00 0.00 10,800.00  10,800.00 0.00 10,800.00  07424-3130 ENGINEERING SERVICES 0.00  10,800.00 0.00 10,800.00  07424-3130 ENGINEERING SERVICES 0.00  40743 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 JE 40746 1,845.00 01/14/14 REFUND PENNONI ASSOCIATES INC. SERVICES THRU 12/8/13 GENERAL PENNONI REFUND DUE TO DUPLICATE PAYMENT		1401		40597							NPDES PERMITS - CHAPTER 92A 2014
1,450.00 0.00 1,450.00 12/03/14 CERT.CK. CERTIFIED CKC.C.TAX CLAIM BUREAU - 1407 GREENBILL RD. 45424 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  2,450.00 1,000.00 1,450.00  07424-3110 MUNIC.AUTHAUDITING 0.00 1407 CD 43405 10,800.00 07/16/14 2246 808 MAILLIE FALCONIERO & CO. 2013 FINANCIAL STMTS. EXAMINATI  10,800.00 0.00 10,800.00  07424-3130 ENGINEERING SERVICES 0.00 1401 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 TRUE 12/8/13 GENERAL JE 40746 1,845.00 01/14/14 REFUND PENNONI REFUND DUFLICATE PAYMENT  0.00 1,845.00 -1,845.00 02/11/14 2233 1052 PENNONI ASSOCIATES INC.							1.1.1	01/06/14	2229	2132	
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2013 FINANCIAL STMTS. EXAMINATI  10,800.00 0.00 10,800.00  10,800.00 0.00 10,800.00  1401 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  JE 40746 1,845.00 01/14/14 REFUND PENNONI REFUND DUE TO DUPLICATE PAYMENT  0.00 1,845.00 -1,845.00 1402 CD 41103 2,236.50 02/11/14 2233 1052 PENNONI ASSOCIATES INC.	7424-3110						0.00				
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07424-3130 ENGINEERING SERVICES 0.00  1401 40653 -663.75 01/06/14 2224 1052 PENNONI ASSOCIATES INC.  40743 663.75 01/14/14 2230 1052 PENNONI ASSOCIATES INC.  SERVICES THRU 12/8/13 GENERAL  JE 40746 1,845.00 01/14/14 REFUND PENNONI REFUND DUPLICATE PAYMENT  0.00 1,845.00 -1,845.00  1402 CD 41103 2,236.50 02/11/14 2233 1052 PENNONI ASSOCIATES INC.					10,800.00	0.00	10,800.00				
1401 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  JE 40746 1,845.00 01/14/14 REFUND PENNONI REFUND DUE TO  DUPLICATE PAYMENT  0.00 1,845.00 -1,845.00  1402 CD 41103 2,236.50 02/11/14 2233 1052 PENNONI ASSOCIATES INC.					10,800.00	0.00	10,800.00				
VOID CK. DUE TO PRINTER PROBLEM 40743 663.75 01/14/14 2230 1052 PENNONI ASSOCIATES INC. SERVICES THRU 12/8/13 GENERAL  JE 40746 1,845.00 01/14/14 REFUND PENNONI REFUND DUE TO DUPLICATE PAYMENT  0.00 1,845.00 -1,845.00 1402 CD 41103 2,236.50 02/11/14 2233 1052 PENNONI ASSOCIATES INC.	07424-3130	ENGI	NEER	ING SER	VICES		0.00				
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1402 CD 41103 2,236.50 02/11/14 2233 1052 PENNONI ASSOCIATES INC.			JE	40746		1,845.00	)	01/14/14	REFUND		
1100 00 1100 1 1 1 1 1 1 1 1 1 1 1 1 1		4		44400		1,845.00	-1,845.00		2222	1050	DENNONT ACCOCTAMES THE
		1402	. CD	41103	2,236.50			02/11/14	2233	1052	SERVICES THROUGH 1/12/14 GEN.SER
2,236.50 0.00 391.50					2,236.50	0.00	391.50				

MGRP18 run by BRIAN

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID	#	Name/Description
07424-3130	1403	CD	41540	6,887.25			03/12/14	2236		1052	PENNONI ASSOCIATES INC. SERVICES THRU 2/9/14 2013 CHAP.
	1404					7,278.75	04/23/14	2239		1052	PENNONI ASSOCIATES INC. SERVICES THRU 3/16/14 CHAP.94 RE
	1405		42462	8,808.25 6,198.50	0.00	16,087.00	05/14/14	2241		1052	PENNONI ASSOCIATES INC. SERVICES THRU 4/13/14 2013 CHAP.
	1406		42952	6,198.50 3,004.75	0.00	22,285.50	06/12/14	2242		1052	PENNONI ASSOCIATES INC. SERV.THRU 5/11/14 2014 SEMI-ANN
	1407			3,004.75 1,521.25		25,290.25	07/16/14	2247		1052	PENNONI ASSOCIATES INC. SERVICES THRU 6/15/14 GEN.SERVIC
	1408			1,521.25 169.50		26,811.50	08/12/14	2249		1052	PENNONI ASSOCIATES INC. SERV.THRU 7/13/14 2014 SEMI-ANN I&I
	1409		44268	169.50 556.00		26,981.00	09/16/14	2250		1052	PENNONI ASSOCIATES INC. SERVICES THRU 8/10/14 2014 GEN.S
	1410		44708	556.00 724.75	0.00	27,537.00	10/14/14	2253		1052	PENNONI ASSOCIATES INC. SERVICES THRU 9/14/14 SEMI ANN.
	1411		45163	72 <b>4</b> .75 3,997.25	0.00	28,261.75	11/14/14	2256		1052	PENNONI ASSOCIATES INC. SERVICE THRU 10/12/14 GEN. SERV
				3,997.25		32,259.00					
			*****	34,104.00	1,845.00	32,259.00					
07424-3140	LEGA 1402		RVICES 41310	800.00		0.00	02/27/14	2234		528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICES - NOV.2013 GEN.AU
	1403		41540	800.00 700.00	0.00	800.00	03/12/14	2235	·	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - FEB.2014 GEN.AUT
				700.00	0.00	1,500.00					

**GL** Transaction Details

Report Date 01/06/15

MGRP18 run by BRIAN

Acct #	Per	Src	Trx #	Debits			Date	Check/Ref #	ID#	Name/Description
07424-3140	1404	CD	42074	960.00			04/16/14	2238		GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - MARCH 2014 GEN.A
	1405		42462	960.00 1,300.00	0.00	2,460.00	05/14/14	2240	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE APRIL 2014 GEN.AUT
	1407		43291	1,300.00 520.00	0.00	3,760.00				GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE MAY 2014 - GEN.AUT
			43405	1,480.00			07/16/14	2245	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE JUNE 2014 - GEN.AU
	1408		43811	2,000.00	0.00	5,760.00	08/12/14			GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 7/3-7/14/14 GEN.AU
	1409		44372	80.00 400.00	0.00	5,840.00			528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 8/11/14 GEN. AUTH.
	1410		44899	400.00	0.00	•	10/23/14		528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE SEPT.2014 GEN.AUT
	1411		45163	280.00 5 <b>4</b> 0.00	0.00	6,520.00	11/14/14	2255	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. 10/8-10/13/14 GEN.AU
	1412	,	45633	540.00 400.00	0.00	7,060.00	12/19/14	2257	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - NOV.2014 GEN.AUT
				400.00	0.00					
				7,460.00	0.00	7,460.00				
07424-7460						0.00		10010	0605	BRICKHOUSE ENVIRONMENTAL
	1401		40739	1,290.00			01/14/14			LOCHWOOD CHASE PROJECT - DEC.201 BRICKHOUSE ENVIRONMENTAL
			40745	1,290.00			01/14/14			VOID CK INCORRECT CASH ACCT.U BRICKHOUSE ENVIRONMENTAL LOCHWOOD CHASE PROJECT - DEC. 20
		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				
				1,290.00	1,290.00	0.00	)			

Report Date 01/06/15

MGRP18 run by BRIAN

Acct #	Per S	rc	Trx #	Debits	Credits	Beg/End Ba1	Date	Check/Ref #	ID #	Name/Description
07427-1000	RESERV	E E	UMP ST	ATION - ENGIR	ieer	0.00				
	1405 C	D	42462	197.25			05/14/14	2241		PENNONI ASSOCIATES INC. SERV.THRU 4/123/14 RESERVE PS
				197.25	0.00	197.25				
	1406		42888	7,316.82			06/11/14	10019		SMITH INC., RONALD APPLIC.# 3 RESERVE PS DIVERSION
			42952	619.75			06/12/14	2242	1052	PENNONI ASSOCIATES INC. SERVICE THRU 5/11/14 RESERVE PS
			43217	-7,316.82			06/30/14	10019	3133	SMITH INC., RONALD VOID CK.10019 PAYMENT AMT.TO BE REDUCED
				619.75	۰	817.00				
	1407		43229	3,658.41	0.00	817.00	07/02/14	10020	3133	SMITH INC., RONALD APPL.#3 RESERVE PS DIVERSION -FI
			43405	309.00			07/16/14	2247	1052	PENNONI ASSOCIATES INC. SERVICES THRU 6/15/14 RESERVE PS DIVERSION CONSTRUCTION
				3,967.41	0.00	4,784.41				
	1408		43811	476.75			08/12/14			PENNONI ASSOCIATES INC. SERV.THRU 7/13/14 RESERVE PS DI CONSTRUCTION
				476.75	0.00	5,261.16				
	1409		44268	111.25			09/16/14			PENNONI ASSOCIATES INC. SERVICES THRU 8/10/14 RESERVE PS
				111.25	0.00	5,372.41				
	1410		44708	141.25			10/14/14	2253	1052	PENNONI ASSOCIATES INC. SERVICES THRU 9/14/14 RESERVE P
	(	JE	44565		3,658.41		10/03/14	RECLASS		RECLASS TRX.43229 - RON SMITH INC. CHECK # 10020
				141.25	3,658.41	1,855.25				
	1411	CD	45163	28.25			11/14/14	2256		PENNONI ASSOCIATES INC. SERV. THRU 10/12/14 RESERVE PS D
				28.25	0.00	1,883.50				
				5,541.91	3,658.41	1,883.50				
07427-2000	RESER'	VE	PUMP S	ration - cons	TRUCTION	0.00	)			
	1410		44656	2,664.79			10/09/14		3133	SMITH INC., RONALD FINAL PAYMENT- RESERVE PUMP STAT
		JE	44565	3,658.41			10/03/14	RECLASS		RECLASS TRX.43229 - RON SMITH INC. CHECK # 10020
				6,323.20	0.00	6,323.20	)			

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MGRP18 run by BRIAN 10 : 39 AM Acct # Per Src Trx # Debits Credits Beg/End Bal Date Check/Ref # ID # Name/Description 6,323.20 0.00 6,323.20 0.00 RESERVOIR PUMP STATION - ENGINEER 0.00 1052 PENNONI ASSOCIATES INC. 02/11/14 10013 1402 CD 41107 10,687.50 SERV. THROUGH 1/12/14 RESERVE PS 10,687.50 0.00 10,687.50 03/12/14 10014 1052 PENNONI ASSOCIATES INC. 1403 41541 4,431.25 SERV.THRU 2/9/14 RESERV.RD. PS 4,431.25 0.00 15,118.75 1052 PENNONI ASSOCIATES INC. 04/23/14 10015 42154 5,909.00 1404 SERVICES THRU 3/16/14 RESERV.RD 5,909.00 0.00 21,027.75 1052 PENNONI ASSOCIATES INC. 42463 4,724.50 05/14/14 10016 1405 SERV. THRU 4/13/14 RESERVOIR RD. 05/16/14 10017 3312 CONESTOGA & ASSOCIATES 42514 3,150.00 PROF. SERVICE THRU 3/30/14 RESERV RD. PS - BOG TURTLE HABITAT 7,874.50 0.00 28,902.25 1052 PENNONI ASSOCIATES INC. 06/11/14 10018 42888 5,761.25 1406 SERV.THRU 5/11/14 RESERVOIR RD. 5,761.25 0.00 34,663.50 43406 430.00 1052 PENNONI ASSOCIATES INC. 07/16/14 10021 1407 SERV.THRU 6/15/14 RESERVOIR RD. 3353 COMMONWEALTH FINANCING AUTHORITY 07/18/14 10022 43421 100.00 GRANT APPLICATION FOR DCED SEWAG FACILITIES GRANT FOR ACT 537 PLANNING FOR RESERVOIR RD P/S 530.00 0.00 35,193.50 08/12/14 10023 1052 PENNONI ASSOCIATES INC. 1408 43810 1,208.75 SERV.THRU 7/13/14 RESERVOIR RD P ACT 537 PLANNING 0.00 36,402.25 1,208.75 3312 CONESTOGA-ROVERS & ASSOCIATES 09/16/14 10024 1409 44269 414.00 PROF. SERV. THRU 7/27/14 BOG TURTL HABITAT ASSESSMENT 09/16/14 10025 1052 PENNONI ASSOCIATES INC. 781.25 SERV.THRU 8/10/14 RESERVOIR RD P 0.00 \*\*\* \*\*\* 1,195.25

10/14/14 10027 1052 PENNONI ASSOCIATES INC.

SERV.THRU 9/14/14 RESERVOIR RD.

1,195.25 0.00 37,597.50

1410 44709 441.25

Report Date 01/06/15

# GL Transaction Details

MGRP18 run by BRIAN 10 : 39 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
	1411		45187	441.25 247.50	0.00	38,038.75	11/17/14	10028	1052	PENNONI ASSOCIATES INC. SERV.THRU 10/12/14 RESERVOIR RD
				247.50	0.00	38,286.25				
			*****	38,286.25	0.00	38,286.25				
07471-1000	M.C. 1412			SERVICE 22,120.00		0.00	12/22/14	2258	430	EAST GOSHEN TWP - SEWER EOY XFER - M.C.DVRFA 28% DEBT SE
				22,120.00	0.00	22,120.00				
				22,120.00	0.00	22,120.00	****			
07472-1000	M.C.	-dvri	FA-INTE	REST PAYMN 5,114.86			12/22/14	2258		EAST GOSHEN TWP - SEWER EOV XFER - M.C.DVRFA 28% DEBT SE
				5,114.86	0.00					
				5,114.86	0.00	5,114.86				
Beg Bal			0.00	166,226.78	157,132.88	9,093.90				

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January 9, 2015

**EGMA1402** 

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

Re:

Semi-Annual Sewer System Status Report #12

East Goshen Municipal Authority

Dear Mr. Smith:

The following Semi-Annual Sewer System Status Report is a continuation of the reports previously required under the Consent Order & Agreement (CO&A) executed between the Pennsylvania Department of Environmental Protection and the East Goshen Municipal Authority in December 2008. Mandatory reporting to the PaDEP ended on March 31, 2012, so this report will serve as an internal document for the Township. This report continues to describe the progress made towards achieving the milestone events listed in the Corrective Action section of the CO&A including all of the actions taken within the previous ten-month period and those which will be taken in the subsequent six-month period. The term "Corrective Action" is now replaced with "Action".

### **EXECUTIVE SUMMARY**

The portable metering investigation shifted focus to the Ridley Creek Service Area during the current period from March 2014 through December 2014. The meter data from the current period indicates inflow and infiltration (I/I) occurs in certain areas of the Ridley Creek Service Area, but we question the accuracy of much of the data. In the next six months, the Township should continue monitoring flows in the Ridley Creek Service Area to identify sources of I/I since no portable metering has been performed in the Ridley Creek Service Area since 2012 and significant inflow events are periodically recorded at the Ridley Creek Sewage Treatment Plant.

### **ACTIONS**

### 1. Action #1: Metering

Flow metering shall take place in the following subbasins for a minimum of four months out of the year, with metering conducted for a minimum of 60 days in the fall and 60 days in the spring.

Refer to the enclosed Figure #1 for a map of previous and future meter locations.

#### Previous 6+ Months:

The current period analyzes meter data from March 2014 through December 2014. Six of the temporary meters were relocated in early August 2014, and an additional meter was installed in late October 2014. Our conclusions are based on a limited amount of available data since there were several meter malfunctions during this period.

### Reservoir Road Interceptor C-036

The Reservoir Road temporary meter captures flows from the Chester Creek Interceptor and is located on Reservoir Road in Manhole C-036, two manholes upstream of the Reservoir Road permanent meter. This portable meter was installed in late November 2012.

The portable meter appears to have malfunctioned in mid-late July 2014, so data during this period was excluded from our analysis. Additionally, no meter data for the majority of September 2014 was recorded. The portable meter data appears to be relatively consistent with previous periods excluding questionable data for several days in July 2014 and in December 2014 when the minimum flow was an unrealistic 0 gpm.

Flows at this location have decreased since it was originally installed in 2012. The average flow from March 2014 to early July 2014 was 356 gpm. Average flows from early October 2014 through late November 2014 decreased to 239 gpm. The base flow from the current period averaged 52% of the total flow which is lower than previous base flows recorded at this location. Previous base flows reached over 60% of the total flow. This comparison suggests that upstream I/I has decreased.

Data from the current period indicates peak flows occur during storm events, likely due to inflow. The 3.5-inch rainstorm on April 30, 2014 resulted in a daily volume of 1,640,952 gpd, which is the highest daily flow recorded at this location since the portable meter was installed in November 2012. Average flows in August 2014 through November 2014 were lower than previous periods which is likely due to decreased precipitation.

The questionable flow readings suggest the meter needs to be calibrated. Level data appears to be accurate, but velocity readings are problematic. The portable meter should remain at this location to continue to monitor flows in the Chester Creek Interceptor and for use in the Reservoir Road Pump Station design.

This portable meter's flows are significantly less than the immediate downstream Reservoir Road permanent meter, so another portable meter was installed in manhole C-032, two manholes downstream of the permanent meter, to evaluate inconsistencies.

### Reservoir Road & Park Avenue C-032

A portable meter was installed to confirm flows along the Chester Creek Interceptor since there is inconsistent flow data between the upstream permanent and temporary Reservoir Road meters. The portable meter was installed at this location on October 24, 2014 and recorded flows through late December 2014.

Portable meter readings at this location were significantly lower than the upstream metered flows. Average flows were around 95 gpm in late October and steadily decreased to under 1 gpm in late December. There is an apparent malfunction or calibration issue with the level readings on this meter since negative levels are recorded daily since mid-November 2014. Therefore, the accuracy of the upstream interceptor meters cannot be evaluated yet.

The portable meter should be calibrated and remain at this location to evaluate the accuracy of the upstream portable and permanent interceptor meters.

### Line Road R-238

This meter is installed in Manhole R-238 which is located on the Ridley Creek Interceptor at the transition of the 8-inch to the 10-inch sewer. This manhole is southeast of the intersection of Paoli Pike and Line Road, and the portable meter was installed in August 2014.

Data from early August 2014 through late December 2014 was analyzed. Flows were relatively consistent and are believed to be accurate considering the number of upstream connections. The average flow at this location was 31 gpm. The continuous base flow averaged only 10 gpm which indicates there is limited infiltration in upstream sewers during dry weather periods.

The temporary meter should remain at this location through the next semi-annual sewer flow analysis in March 2015 to allow for continued strategic monitoring of Ridley Creek Interceptor flows and I/I.

### Blacksmith Shop R-021

This temporary meter was installed along the 10-inch Ridley Creek Interceptor sewer in Manhole R-021 which is located by the historic blacksmith shop on the southeast corner of the intersection of N. Chester Road and E. Boot Road. The temporary meter was installed in August 2014.

The temporary meter recorded negative values for velocity from August 2014 to October 2014 which was due to the meter being installed backwards. Data from this period was excluded from our analysis. Additionally, no meter data was provided for late September 2014 or mid-October 2014. The meter was reinstalled correctly on October 1, 2014. The

average flow from October 2, 2014 through October 10, 2014 was 270 gpm. This average flow is consistent with 2010 metering.

The meter malfunctioned after October 10, 2014 with significantly reduced velocities and negative levels. The average base flow from October 2, 2014 through October 10, 2014 was 63 gpm which is approximately 23% of the total flow. The base flow suggests there is I/I in the upstream sewers, but I/I cannot be correlated with rainfall since significant rainfall event did not occur during this monitoring period. However, 2010 meter data indicated significant I/I exists in the upstream sewers and I/I increased during storm events.

Based on early October data, it appears accurate flow data can be obtained at this location despite observed turbulent flows, but frequent maintenance and monitoring is needed to keep it functioning properly. The portable meter can remain in this location with recalibration and weekly monitoring or can be relocated to manhole R-022 on the opposite side of N. Chester Road.

### East Boot Road R-018

This portable meter was installed within Manhole R-018 which is located along Ridley Creek on the 10-inch interceptor sewer. The temporary meter was installed in August 2014.

The meter data is inconsistent between August 2014 and December 2014 with an obvious malfunction for 10 days in November 2014, so the accuracy of the data is questionable. The average flow from August 2014 through September 2014 was 29 gpm, which is low considering the number of upstream connections. The portable meter was calibrated on October 1, 2014 and flows appear to be accurate for the month of October, averaging approximately 75 gpm. The meter malfunctioned in early November 2014. Flows from mid-November 2014 through December steadily increased from 30 gpm to reach nearly 80 gpm by mid-December 2014, which is considered to be a malfunction due to inconsistent level readings.

The average base flow in October 2014 was 20 gpm which is approximately 27% of the total flow. This base flow indicates that there may be continuous infiltration in the upstream sewers. Since a significant rainfall event did not occur during this monitoring period, it cannot be determined if the continuous base flow is correlated with rainfall or if inflow occurs during storms.

The questionable flows suggest the meter needs to be calibrated. The meter should stay at this location.

### East Boot Road R-213

A field investigation on October 1, 2014 confirmed this portable meter is located in Manhole R-213, instead of Manhole R-013, and is located along Ridley Creek on the 10-inch interceptor sewer. The portable meter was installed in August 2014.

The meter malfunctioned from October 31, 2014 through November 18, 2014, so this data was excluded from our analysis. Flows at this location were relatively consistent from early August 2014 through late October averaging approximately 70 gpm with an average base flow of 24 gpm, which comprises approximately 35% of the total flow. Flows from late November 2014 through late December 2014, after the malfunction, were significantly higher averaging 108 gpm with an average base flow of 53 gpm, which comprises nearly 50% of the total flow. If meter data is accurate, there appears to be significant upstream infiltration. There was not a significant rainfall event during this period, so it cannot be determined if the continuous base flow is correlated with rainfall or if inflow occurs during storms.

The temporary meter should be calibrated and remain at this location.

### Ashcom R-638

This portable meter was installed in Manhole R-638 located within the Ridley Creek Service Area along the 8-inch sewer line behind Ashcom Drive. The meter captures flows from the Bow Tree development and was installed in early August 2014.

Flows were relatively consistent from August 2014 through early October 2014 averaging 6 gpm. However, this data appears be erroneous since flows at this location are expected to be significantly higher given the number of upstream connections (approximately 150 EDUs). The average flow began to increase in October to early November 2014. The meter was offline from November 9, 2014 to November 18, 2014. Flows from late November 2014 through late December 2014 averaged 20 gpm, which appears to be accurate since it is consistent with the expected flows from upstream connections. The average base flow from late November 2014 through late December 2014 was only 0.7 gpm which indicates little to no infiltration in the upstream sewers during dry weather. There was not a significant rainfall event during this period, so it cannot be determined if the continuous base flow is correlated with rainfall or if inflow occurs during storms.

This meter should be considered for relocation following the March 2015 Semi-Annual Sewer System Status Report 13.

### Tegler R-003

This portable meter is located in Manhole R-003 which is on the 18-inch interceptor sewer within the Ridley Creek Service Area. The meter was installed in August 2014 and is located two manholes upstream from the Ridley Creek Sewage Treatment Plant.

The average flow from August 2014 through early October 2014 was consistent averaging approximately 115 gpm. However, this data is considered inaccurate since flows are much lower than the downstream RCSTP influent flows. The portable meter malfunctioned and was offline from October 10, 2014 through October 24, 2014. The average flow from late October 2014 through late December 2014 was significantly higher averaging 415 gpm which is consistent with typical RCSTP influent flows. The base flow from late October 2014 through late December 2014 varies from 0 gpm to 234 gpm and appears to be correlated with rainfall. We expect this location experiences I/I particularly inflow during storms, but data during larger storm events and a longer period of time is needed to confirm and quantify I/I. Therefore, the portable meter should remain at this location.

# Permanent Chester Creek Service Area Meters

Flow data from the 10 permanent meters throughout the Chester Creek Service Area were analyzed; six of the meters are in gravity interceptor sewers and four of the meters are on pump station discharge pipes. Instantaneous or hourly meter data is not recorded on these meters; therefore only a rough flow analysis can be performed because inflow peaks and continuous base flows are unknown.

The Reservoir Road permanent meter data is highly inconsistent with the Reservoir Road temporary meter data. We estimate the Reservoir Road permanent meter is reading almost 300,000 gpd higher than the Reservoir Road temporary meter. It was only approximately 50,000 gpd higher in early 2014. The Reservoir Road permanent meter data will be re-evaluated in the next few months versus the new downstream portable meter.

Our conclusions for the current period, March 2014 through December 2014, maintain that I/I problems likely exist in the sanitary sewer system of the Chester Creek Service Area and Ridley Creek Service Area. Metered data from this period indicates that I/I is problematic along the Ridley Creek Interceptor.

#### Next 3 Months:

East Goshen Municipal Authority has found the temporary metering to be beneficial in identifying problems in their sewer system. Although not required by the CO&A, the Authority will continue temporary metering and flow analyses. Metering results and analyses will be utilized internally and for Chapter 94 Reporting but will no longer be reported semi-annually to DEP.

We recommend the following actions for the next three months:

- Clean and calibrate all portable meters.
- Continue portable metering at all current locations.

# 2. Action #2: Televising

Televising and visual inspections should take place on an ongoing, as-needed basis in order to discover areas of excessive I/I and to measure the effectiveness of I/I rehabilitation measures.

#### Previous 6+ Months:

### Ridley Creek Service Area

• Cleaned and televised 12,800 feet of sewer pipe.

### Chester Creek Service Area

- Cleaned and televised 2,000 feet of collection sewers in Supplee Valley.
- Cleaned and televised 1,000 feet of the interceptor on Reservoir Road.
- Cleaned and televised 11,200 feet of sewer pipe in July 2014.

#### Next 3 Months:

#### Ridley Creek Service Area

Continue smoke testing within the Ridley Creek Interceptor

#### Chester Creek Service Area

None

### 3. Action #3: System Hydraulic Characterization

The sanitary sewer collection system tributary to the Ridley Creek Sewage Treatment Plant should be modeled and hydraulically evaluated in order to determine if any physical constraints exist which would not allow for the conveyance of peak wet weather flow.

• The System Hydraulic Characterization was completed and submitted to DEP in November 2009 as required by the CO&A.

#### 4. Action #4: Rehabilitation

Areas within the sewer systems which have been identified as needing rehabilitation, per the investigations mentioned above, should be rehabilitated.

# Current Period (March 2014-December 2014):

### Ridley Creek Service Area

- Raised and sealed manholes on the interceptor.
- Lateral cleanout replacements.

#### Chester Creek Service Area

- Replaced valve pit top at Ashbridge Pump Station.
- Grouted Barkway Pump Station wet well leaks.
- Cleared lateral blockages.
- Repaired force main break at Manley Road and Pheasant Run Road.
- Lateral cleanout replacements.
- Repaired broken lateral on Red Maple Lane.
- Replaced 180 feet of 8" pipe between Forrest Lane and Willow Pond due to several sags and two sections of crushed pipe.
- Replaced all manhole castings on Wilson Drive and Morstein Road.

#### Next 3 Months:

• Continue to conduct rehabilitation of sewers, manholes, and laterals as determined by ongoing investigations, including repair of leaks and replacement of cleanout caps and cleanout pipes that have pulled out of lateral piping.

### 5. Action #5: Post-Rehabilitation Flow Metering

Flow metering should take place in areas that have been rehabilitated in order to document the effectiveness of the rehabilitative work. The metering should take place during both the fall and spring of the year.

### Current Period (March 2014-December 2014):

A few large leaks were repaired along the Chester Creek Interceptor prior to March 2014 which only resulted in a flow reduction of approximately 30,000 gpd per the Reservoir Road temporary meter data. The flow reduction was expected to be significantly greater (around 100,000 gpd) based on visual observation of the leaks.

#### Next 3 Months:

Data from the Ridley Creek Influent STP meter will be reviewed to determine the effectiveness of any repairs in the Ridley Creek Service Area.

# 6. Action #6: House Lateral Investigation Program

The House Lateral Investigation Program ("HLIP") was implemented in conformance with the provisions of the HLIP contained in the February 28, 2008, letter from East Goshen.

### Previous 6+ Months:

- Continued to replace cleanout caps at no charge to property owners in the Ridley Creek and Chester Creek Service Areas upon request by property owners or observation by Public Works or Codes Department staff.
- Continued to repair defective laterals and cleanouts for property owners to ensure that the work is done properly as indicated in Action #4.
- Re-occupancy inspections were performed at the sale of residences and commercial establishments throughout the Township looking for direct inflow from building sump pumps.

#### Next 3 Months:

- Continue to inspect sanitary sewer cleanouts/vents in conjunction with the televising efforts performed under Action #2.
- Continue Township policy regarding replacement of cleanouts, vent caps, and laterals.
- Continue re-occupancy inspections at the sale of properties including looking for direct inflow from building sump pumps.
- Repair of defective laterals and cleanouts by the Township for property owners to ensure that the work is done properly.

# 7. Action #7: Reporting

Semi-Annual Status Reports should be submitted to the East Goshen Municipal Authority to describe the progress made towards achieving the previous Corrective Action milestone events.

### Previous 6+ Months:

• Submitted Semi-Annual Sewer System Status #11 to the Municipal Authority on April 16, 2014.

### Next 3 Months:

• Prepare and submit the Semi-Annual Sewer System Status #13 to the Municipal Authority by April 30, 2015.

If you should have any questions, please do not hesitate to contact me.

Sincerely,

PENNONI ASSOCIATES INC.

Michael J Ellis, P.E. Authorit Engineer

ajd/

Enclosures:

Figure 1

cc:

Mark Miller, Public Works Director

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