

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

June 14, 2021

7:00 PM

An Executive Session will take place at 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 Report

4. APPROVAL OF MINUTES

- a. May 10, 2021

5. APPROVAL OF INVOICES

Pennoni Invoice #1072836	\$ 4,038.00
Pennoni Invoice #1072837	\$ 9,195.87
Gawthrop Greenwood Invoice #241891	\$ 612.41
Gawthrop Greenwood Invoice #243016	\$ 1,900.00
Deckman Pump Invoice #3446	\$ 790.00
Deckman Pump Invoice #3308	\$ 14,747.00 – paid 5/19
Deckman Pump Invoice #3343	\$ 15,577.00 – paid 5/19
Yale Invoice #S117928450.001	\$ 347.57 – paid 5/19
Yale Invoice #S117928450.002	\$ 913.46 – paid 5/19

6. LIAISON REPORTS

7. FINANCIAL REPORTS – (David Ware) Finance Director

- a. May Financial Report

8. OLD BUSINESS

- a.

9. 2021 Goals:

Goal	Status
Ridley Creek Plant Compliance	January, February, March, April and May were all in compliance and met all requirements
Continue to Monitor Upgrades at WGSTP and Westtown Way Pump Station	On – going discussions with West Goshen. West Goshen is going to continue to pursue additional grant funding. Further Discussion 6-14-
Continue to Implement Infiltration and Inflow for the Sewer System	We have continued televising for the month of May. 12,000 L.F.
Caustic Soda Project Mike Ellis is currently working on the Project	\$152,890 DCED grant awarded. Mark and Mike have met to discuss construction designing plans.
Replace sewer line Hershey Mill Estates trunk line replacement	Engineer actively designing plans, bog turtle study, wetland designation. PWD has been clearing the ROW
Hunt Country Pump Station Mag Meter Replacement	2021 – \$15,000.00 – on Hold - possibly apply for grant funding
Hunt Country Pump Station Muffin Monster Replacement	2021 – \$67,000.00 – on Hold – possibly apply for grant funding
Hunt Country Pump Station Bypass Pump	2021 - \$5,000 on hold – possibly apply for grant
Three new meters for Ridley Creek Collection	Hibbered Lane is on line.

10. NEW BUSINESS

- a. Proposal for Ridley Creek STP NPDES Permit Renewal Application
- b. New meter – Ridley Creek Plant – Discussion by Mark

11. CAPACITY REQUESTS

12. ANY OTHER MATTER

13. CORRESPONDENCE AND REPORTS OF INTEREST

14. PUBLIC COMMENT

15. ADJOURNMENT

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

June 11, 2021

To: Municipal Authority
From: Mark Miller
Re: May 2021 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 757,985 per day.

Meters: The meters were read on a daily basis. We did encounter some minor operational glitches after the storms. The Hibberd Lane meter is operational and the average daily flow is 102,853. We received the IP number with Verizon today for remote wireless. It will need to be activated.

C.C. Collection: The pumping stations were visited on a daily basis where routine maintenance was performed. We had received a call from a resident stating they were concerned about a wet area near a manhole. We went down, poked around, and found that the water was from a spring. This prompted us to spend two days clearing the right of way from Fox Crossing up to Margo Lane. We will send letters to the residents that backup to the right of way that runs between Christine and Margo Lane explaining that we will be clearing that area. We received a call for a lateral clog at 601 Hillock Lane. We did not find any problem so we ran the camera down the lateral so we could locate the cleanout by the street. We replaced a dozen caps at several holes that had been hit by mowers.

R.C. Collection: The pump station was visited on a daily basis and the meters were read. We had a pump failure alarm at the Hershey Mill Pump Station, which caused us to pull the pump. We sent it to Deckmens to be checked out. When Deckmens pulled the pump apart, they found a bottom seal had failed. While they had the pump torn down, I asked them to install new

cutters on the pump. They checked the wear on the impeller, which was in good condition.

Willistown informed us that they were going to repave Line Road so before the paving was completed we televised the line, which was clear. However, I will have to clean the line as greases are starting to build up. We also had to install three risers on Manhole R62-R6-R64. Willistown took care of sealing all the manholes. We sent letters out to the residents along Fox Glove Lane and told them we would be clearing the right of way. We cleared the right of way from the cul-de-sac and along the creek. It was noted that at each manhole there was sumps still in place, I advised Mike Ellis of our findings. I recommended to Mike that we should put a note in the bid specifications that the contractors utilize the sumps prior to starting the job to control the dewatering. Our guys attempted to divert the water away from the manholes while they were clearing the right of way. We also had Pipe Data View come out and clean the Hershey Mill trunk line from the tennis courts up to Tanglewood Drive . As a precautionary practice until the line is replaced.

Ridley Creek Plant:

The grit chamber was cleaned out by plugging the main trunk line at 3:00 AM, once the flow stops we use a 4" vacuum line to remove the grit that builds up from the Muffin Monster out to the manhole. The plant operator noticed that the Applebrook Pump had tripped out after several tries to reset the breakers. We determined that the pump needed to be pulled out and taken to Deckmens. On May 28th we found that the meter quit working at the plant. I contacted John Laidley who determined that the meter was struck by lightning, this fried the meter. I have filed a claim with the insurance company and I am currently waiting on the insurance adjuster. I am looking into installing a portable meter at the sampling manhole.

Alarms:

We responded to 27 alarms for May.

PA One Calls:

We responded to over 134 PA One Calls for the month of May.

Monthly Rainfall:

3.19 inches of rain for the month of May.

Lateral repairs or Caps:

We repaired 17 laterals and inspected them.



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**EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT
June 11, 2021**

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic Soda Conversion – An updated progress plan was submitted to the Township for review. A field review meeting with Public Works, the operator, and controls contractor is being scheduled.
- SBR #1 Repairs – We met with Dutchland's structural engineer on-site to discuss CIM and concrete repairs. Dutchland subsequently performed isolated repairs to the CIM coating, minor concrete crack and spall repairs at lifting holes on the deck, and minor concrete spalling repairs at the top of the ribs (where the ribs meet the underside of the deck). We are also finalizing our inspection report for submission in June to track the condition vs. prior tank inspections.

Ridley Creek Collection System Permanent Meters

- We updated the attached memo with recommendations for the RCSTP influent meter and manhole to include costs for contractor installation. Costs in the prior version of the memo were based on Township installation.

Westtown Way Pump Station

- No activity since our last report.

Sanitary Sewer Pipe Rehab

- Supplee Valley – No activity since our last report.
- Hershey's Mill Estates –
 - The wetland delineation and bog turtle habitat investigation reports were submitted to US Fish & Wildlife Service (USFWS) on May 19, 2021. We anticipate the USFWS review will take 60-90 days.
 - Upon receipt of USFWS concurrence, we will submit the Waterways permit application. The extent of wetlands impacts will dictate if the permitting will be a PADEP General Permit or a USACE Individual Permit, which is still being determined. This permitting typically takes 90-120 days for review.
 - An approx. 70% progress plan submission was made to the Township on May 10. We conducted a field review meeting with Mark thereafter which included a meeting with a swim club representative about their pool lateral, for consideration of potentially raising it to allow for greater slope on the interceptor pipes that will be replaced. Public Works subsequently performed an excavation of the lateral and installed a cleanout. We will need to commission an additional field survey to obtain elevations for both the pool lateral cleanout and for storm sewer culverts near the tennis court that may impact the new sewer routing.
 - Schedule – The aforementioned permitting is expected to take another 5-6 months. A 6-month duration would result in bidding in or around December, award in early 2021, and construction thereafter with timeframes to potentially be dictated by environmental agencies.

I&I Program

- No activity since our last report.

New Connections

- No activity since our last report.

Industrial Pretreatment Ordinance

- No activity since our last report. As discussed at the May MA meeting, a headworks study with sampling at the RCSTP need to be conducted to set contaminant limits. It will be determined if the sampling can be conducted as part of any upcoming NPDES Permit Renewal sampling to achieve economies of scale.

END OF REPORT



Executive Summary¹

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge limitations for the month of April 2021. All supplemental reports were submitted with the DMR. Discharge to the Applebrook irrigation lagoon was placed on line. Chemical usage utilized for pH and total alkalinity remained consistent with previous months. Aluminium sulfate solution continued to be reduced while remaining to achieve phosphorus removal. The average daily reduction was from 70.0 to 61.7 gpd. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process. There were no reported odor complaints during the month.

Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported for outfall 001 for the April 2021 DMR.

Table 1

April 2021- Final Effluent - Outfall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total		Fecal Coliform	
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	Average	20	125	10	131	2.5	44	0.5	3	200	1,000
		40		15							
Sample Date											
April 6, 2021	0.356	2.0	5.9	5	14.8	0.579	1.72	0.10	0.30	1	0.0000
April 13, 2021	0.326	2.4	6.5	5	13.6	0.702	1.91	0.17	0.46	5	0.6990
April 20, 2021	0.295	3.5	8.6	7	17.2	0.280	0.69	0.13	0.32	3	0.4771
April 27, 2021	0.331	4.0	11.0	5	13.8	0.148	0.41	0.13	0.36	1	0.0000
Average	0.327	3.0	8.0	6	14.9	0.427	1.18	0.13	0.36	3	0.2940
Minimum	0.295	2.0	5.9	5	13.6	0.148	0.41	0.10	0.30	1	0.0000
Maximum	0.356	4.0	11.0	7	17.2	0.702	1.91	0.17	0.46	5	0.6990

Compliance with the NPDES discharge permit was achieved during April. The monthly average total phosphorus was reported as 0.13 mg/L as compared to the permit limitation of 0.5 mg/L. The TSS samples were consistently in single digits and well below the weekly maximum of 15 mg/L. The monthly average TSS was reported as 6 mg/L as compared to the discharge limitation of 10 mg/L. The TSS weekly averages are presented below in Table 2.

Table 2

April 2021 Final Effluent Weekly TSS Averages	
Week 1	5 mg/L
Week 2	5 mg/L
Week 3	7 mg/L
Week 4	5 mg/L

The final effluent test results demonstrate that the biological treatment process performed well during April and May. Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Daily analysis of the final effluent flow equalization grab sample for total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Discharge to the Applebrook irrigation lagoon, outfall 002 commenced on May 18th.

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility generally remained within the design concentration and organic loading values. The monthly average weekly concentrations were generally observed to be less than the design parameters for the treatment process.

Table 3 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during April 2021.

Table 3

April 2021 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
April 6, 2021	0.528	263	1,159	205	903	31.7	140	32.0	141	5.6	24.7
April 13, 2021	0.488	201	819	300	1,222	28.4	116	35.5	145	6.3	25.7
April 20, 2021	0.446	140	521	12	45	30.8	115	34.0	126	4.6	17.1
April 27, 2021	0.479	347.0	1,386	513	2,049	34.0	136	57.7	230	8.3	33.2
Average	0.4854	238	971	258	1,055	31	126	39.8	161	6.2	25.1
Minimum	0.4459	140	521	12	45	28	115	32.0	126	4.6	17.1
Maximum	0.5283	347	1,386	513	2,049	34	140	57.7	230	8.3	33.2

The foam on the SBR surface reduced to approximately 5% to 20% coverage of the surface area. The foam thickness is approximately 3 to 4 inches with a light to medium brown color. These conditions may contribute to a decrease in clarity within the final effluent post flow equalization basins; however, the clarity is improved after passing through the disc filters. The operation strategy is to lower the MLSS to maintain a F:M ratio of 0.06 while ensuring the ammonia effluent discharge concentration remains within the seasonal limit of 2.5 mg/L.

Table 4 illustrates the available data for the final effluent composite sample data reported for outfall 001 for use with the May 2021 DMR.

Table 4

May 2021- Final Effluent - Outfall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total		Fecal Coliform	
	MGD		lbs/		lbs/		lbs/		lbs/		Geo
	Average	mg/L	month	mg/L	month	mg/L	month	mg/L	month	Geo Mean	Mean
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
		40		15							
Sample Date											
May 4, 2021	0.319	2.7	7.2	6	16.0	0.518	1.38	0.16	0.43	39	1.5911
May 11, 2021	0.326	3.3	9.0	6	16.3	0.346	0.94	0.10	0.27	2	0.3010
May 18, 2021	0.176	2.0	2.9	5	7.3	0.291	0.43	0.12	0.18	1	0.0000
May 25, 2021	0.259										
Average	0.270	2.7	6.4	6	13.2	0.385	0.92	0.13	0.29	14	0.6307
Minimum	0.176	2.0	2.9	5	7.3	0.291	0.43	0.10	0.18	1	0.0000
Maximum	0.326	3.3	9.0	6	16.3	0.518	1.38	0.16	0.43	39	1.5911

Table 5 presents the available pollutant data for the Applebrook discharge reported as outfall 002 on the May 2021 DMR.

Table 5

May 2021 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total		Fecal Coliform	
	MGD		lbs/		lbs/		lbs/		lbs/		Geo
	Average	mg/L	month	mg/L	month	mg/L	month	mg/L	month	Geo Mean	Mean
	0.135	25		30		2.5	44	0.5	3	200	1,000
		40		45							
May 4, 2021	0.0000	No discharge									
May 11, 2021	0.0000										
May 18, 2021	0.1567	2.0	2.6	5.0	6.5	0.3	0.4	0.0	0.0	1.0	0.0
May 25, 2021	0.0509										
Average	0.052	2.0	2.6	5	6.5	0.291	0.38	0.00	0.00	1	0.0000
Minimum	0.000	2.0	2.6	5	6.5	0.291	0.38	0.00	0.00	1	0.0000
Maximum	0.157	2.0	2.6	5	6.5	0.291	0.38	0.00	0.00	1	0.0000

Table 6 represents the influent wastewater collected at the doghouse manhole during May 2021. The influent wastewater pollutant loadings remain within the design criteria for the treatment process and equipment.

Table 6

May 2021 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
	MGD	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
May 4, 2021	0.500	95	395	297	1,237	35.1	146	41.2	172	8.0	33.3
May 11, 2021	0.475	187	741	358	1,419	30.3	120	40.0	159	5.5	21.8
May 18, 2021	0.517	332	1,431	347	1,496	35.5	153	123.0	530	0.6	2.6
May 25, 2021	0.931										
Average	0.6057	205	856	334	1,384	34	140	68.1	287	4.7	19.2
Minimum	0.4754	95	395	297	1,237	30	120	40.0	159	0.6	2.6
Maximum	0.9309	332	1,431	358	1,496	36	153	123.0	530	8.0	33.3

PA DEP

No activity

Significant Rainfall

During May, there seven (7) days when rainfall occurred. There were two (2) events of rainfall exceeding 0.50 inches on one (1) event occurring over three (3) consecutive days.

These events occurred on:

May 4 th	0.80 inches
May 6 th	0.35 inches
May 8 th	0.07 inches
May 27 th	0.28 inches
May 29 th	1.58 inches
May 30 th	0.20 inches
May 31 st	0.20 inches

A total of 3.48 inches of rainfall measured during the month.

Plant operations were adjusted to manage the precipitation to prevent exceedances of the permitted discharge limitations for Outfall 001. Adjustments included reducing aeration minutes per cycle, extending decant minutes per cycle and reducing settling times.

Minor Preventative Maintenance

Flushed chemical feed lines to the SBRs.

Cleaned final effluent weir trough daily

Skimmed surface of disc filters daily

Drained and cleaned disc filters bi-weekly

Cleaned buildings and laboratory

There were no unplanned equipment repairs or maintenance during the month.

Chemical Usage:

May 2021		
Chemical	Daily Average	Total Monthly
Soda Ash	290	9,000
Aluminium Sulfate solution	61.7	1,851

Flow data:

May 2021			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	21,182	683,298	1,165,180
Influent Wastewater to SBRs*	13.944	449,800	528,896
Internal Recycle**	0.0	0	0
Treated Effluent to Disc Filters	13.950	450,003	535,424
Final Effluent Discharge	8.890	287,000	390,000
Applebrook Golf Course	1.159	77,259	161,888

During May, the average monthly influent wastewater flow measured at the "field" flow meter was 683,298 gallons//day as compared to the influent flow into the SBRs as 449,800 gallon/day. The difference between the daily averages is 233,498 gpd. The "field" flow meter is over reporting flows as the flow measured into the SBRs should always be greater than the "field" flow meter due to internal recycle flows from the disc filter and centrifuge. John Laidley was on site on May 27th. The field flow meter is believed to have failed. Plans to relocate the flow meter to the manhole where the influent wastewater sample is collected.

Maintenance and Repair Activities

On May 18th representatives from Pennoni and Dutchland inspected SBR 1.

On May 24th, the Applebrook pump tripped out. The breaker was reset with the outdoor disconnect turned off, and we get full voltage to the disconnect. As soon as the disconnect switch is turned on the breaker trips. Mark was notified and explained that he has a new pump at the shop that his guys will come down and install.

On May 25th, Mark's guys swapped out the Applebrook pump and installed utility water pump #2 which had been rebuilt a little while back.

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
May 10, 2021

The East Goshen Township Municipal Authority held their regular meeting on Monday, May 10, 2021 at 7:00 pm. Due to restrictions caused by the COVID-19 virus, the meeting was held via electronic conferencing Zoom. Members in attendance were: Chairman Dana Pizarro, Phil Mayer, Jack Yahraes, Kevin Cummings, and Walter Wujcik. Also in attendance were: Mark Miller (Director of Public Works), Mike Ellis (Pennoni), Robert Jefferson (Gawthrop), Michael Lynch (Township Supervisor), Scott Towler (Big Fish), Dave Ware (Chief Financial Officer) and Susan Smith (PW Administrative Assistant).

COMMON ACRONYMS:

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

Call to Order & Pledge of Allegiance

Dana called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. There was a moment of silence to remember our military, first responders, police and EMTs. Dana asked if anyone would be recording the meeting. There was no response.

Chairman's Report

1. Dave Ware was introduced and welcomed to the Municipal Authority.
2. Walter reported that he went to the West Goshen meeting. An Engineer and Auditor talked about the do's and don'ts and how other townships run their plants. Tony Bolito talked at the meeting.

Sewer Reports

1. Director of Public Works, Mark Miller's report for April 2021

Monthly Flows: The average daily flow to West Goshen was 760,000 per day.

Meters: The meters were read on a daily basis. The meters were calibrated by Allied Control.

C.C. Collection – We continued with cleaning and televising 20,000 feet of pipe on the collection system

We did five repairs on the system. We did repairs on two manholes on Heather Lane. I had Utility Services come to pressure grout the two manholes. After the grout sealed the leaks, they sprayed a cement finish to the manholes MH 589-591.

We had a problem at the Hershey Mill Pump Station when we received an alarm for pump failure. Pump 1 was pulled and sent to Deckmens.

R.C. Collection – The pump station was visited on a daily basis. We did receive a call from one of the pump station neighbors asking if we could do something with the fence. The fence was installed back in the 80's which was rotted. The PWD bought new fence and installed it.

Ridley Creek Plant – SBR#1 was drained and cleaned and is ready for inspection. The Public Works Dept. cleaned the trunk line into the screen room and vacuumed all the debris.

Note: All the areas that we excavated for I&I has been restored.

Alarms: We responded to 32 alarms in April.

PA One Calls: We responded to over 90 PA One Calls for the month of April.

Rainfall: 2.79 inches for the month of April

Lateral Caps: We replaced 6 lateral caps and inspected them.

Note: We got tired of waiting for PECO to get power for the new meter on Hibberd Lane so Lenni installed a service line from our location up 3 poles and tapped a transformer. John Laidly is due in this week to install the meter so we hope to be in manual operation this week.

2. Pennoni Engineer's Report for April dated May 5, 2021

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic Soda Conversion – The structural design for the tank's concrete slab has been completed and details have been added to the plans. Updated plans are expected to be submitted to the Township for review the week of May 10.

- SBR#1 inspection – We performed a visual condition assessment of the tank on May 5 while it is drained:

- a. Piping, particularly flanges, is corroding as expected and needs to be cleaned and re-coated, as was done on the last tank.

- b. CIM coating conditions are similar to those observed in other tanks. We will contact Dutchland for isolated repair of bubbles.

- c. There was a thin surficial layer of apparent cement that was easily scraped off the interior surface of the two perimeter walls of this tank, neither of which is CIM coated. This is being further evaluated by our structural engineers, but it is not anticipated to be an urgent concern. It will be addressed accordingly in a forthcoming inspection report. Our initial reaction is that coating of these walls should still be pursued to minimize the risk of more aggressive deterioration and maximize the life of the tanks.

- d. Lastly, there was some minor, isolated concrete spalling at the top of the walls, which is consistent with other tanks, and can be repaired accordingly.

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Ridley Creek Collection System Permanent Meters

- No activity since our last report. Updated vendor quotes were previously obtained for a new RCSTP influent meter and manhole.

Westtown Way Pump Station

- We are still awaiting updated design plans, cost estimates, and pump station flow meter data from HRG in follow-up to the March 24 coordination meeting between East Goshen and West Goshen. We are meeting virtually with HRG on May 6 to obtain status updates and schedule for provision of requested documentation.
- We are monitoring grant opportunities for the project, specifically the PA H2O Program and PA DCED Small Water & Sewer Program; however, no timeline has been issued as to if/when these programs will open for applications.

Sanitary Sewer Pipe Rehab

- Supplee Valley – No activity since our last report.
- Hershey’s Mill Estates – Wetland delineation and bog turtle habitat investigation reports are being completed. We anticipate the wetland report will be submitted to the Township the week of May 10 with the bog turtle report to follow. The reports will then be submitted to U.S. Fish and Wildlife Service (USFWS) for their review and comment. Since there is potential habitat in proximity to the work area, the bog turtle report will likely propose avoidance measures in an effort to avoid a Phase 2 bog turtle study, but USFWS could dictate additional requirements. Anticipated time-of-year construction requirements are that work may be limited to October 1 through March 31. Winter work could be beneficial for construction access if the ground is frozen. We anticipate the USFWS review will take 30-60 days.
- Upon receipt of USFWS concurrence, we will submit the Waterways permit application. The extent of wetlands impacts will dictate if the permitting will be a PADEP General Permit or a USACE Individual Permit, which is still being determined. This permitting typically takes 90-120 days for review.
- The aforementioned permitting is expected to take 4-6 months. A 6-month duration would result in bidding in November-December with award in or around January, leaving two months for construction if the time-of-year restrictions apply. We project two months to be an aggressive duration for this work. We will keep a close eye on schedule throughout the process and may need to bid the project in advance of permit issuance.
- We also performed a visual condition assessment of the existing manholes. All but one manhole were found to be in good condition for re-use; the one manhole in poor condition was already planned to be replaced in order to shift the sewer away from the creek.
- 30% preliminary plans were submitted on April 12. Design is continuing and an updated plan submission is anticipated on May 7. A field meeting will then be conducted with Public Works to review the plans and evaluate the construction access route(s), staging and storage

1 areas, and other constructability considerations.

- 2 • Lastly, we initiated preparation of the bid document and specifications.

3 Comments – Mike Lynch spoke about the permit at Hershey Mill Dam which is on hold until May.
4 Phil asked about getting a waiver from DEP to extend but this will not help the bog turtle. Mark
5 Miller mentioned that we will have to go under the stream twice in that area. The wetlands were
6 discussed.

7 **Chapter 94 Reports**

- 8 • We revisited flows in 2020 at the Hicks permanent meter in the Chester Creek collection
9 system in follow-up to an inquiry at the April MA meeting that the peak daily flow at the
10 meter was 0.720 MGD vs. an estimated pipe capacity of 0.750 MGD. Note that this is a peak
11 daily flow, not instantaneous. There was no precipitation the day of or before this peak meter
12 reading, so we question if the reading was accurate. The next highest daily reading for the
13 year was only 0.462 MGD. We will continue to monitor flows at this meter location.

14 **I&I Program**

- 15 • No activity since our last report.

16 **New Connections**

- 17 • No activity since our last report.

18 **Industrial Pretreatment Ordinance**

- 19 • We prepared a draft resolution to set additional contaminant levels that trigger the industrial
20 wastewater provisions and an industrial pretreatment application questionnaire. The documents are
21 expected to be submitted on May 6.
22
23

24 **3. Big Fish Environmental Services –**

25 The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge
26 limitations for the month of March 2021. All supplemental reports were submitted with the DMR.
27 Discharge to the Applebrook irrigation lagoon remained off line. Chemical usage utilized for pH and
28 total alkalinity remained consistent with previous months. No significant mechanical or operational
29 issues were observed during operation of sludge dewatering equipment or SBR treatment process.
30 There were no reported odor complaints during the month.
31

32 Comments – On page 3 under Table 4, Scott commented that the flows dropped when SBR1 was
33 cleaned. Also he spoke about the SBR tan floats. The bond and material is so strong it pulls the
34 concrete away from the walls. Dutchland applied the product.
35

36 **Approval of Minutes**

37 Jack moved to approve the April 12, 2021 minutes as amended. Walter seconded the motion. The
38 motion passed unanimously.
39

40 **Approval of Invoices**

41 Kevin moved to approve payment of the 11 invoices as listed on the agenda. Walter seconded
42 the motion. The motion passed unanimously.

1 **Liaison Reports**

2 1. Conservancy Board – Walter mentioned that Keep East Goshen Beautiful Day went well, and the
3 weather was good. All of the ABCs had someone volunteer to help. We had an abundance of litter
4 that was collected. It was a very successful day. Walter commented that Clymer Woods will be
5 reviewed for the fall planting. Jack commented that the folding sign “litter crew ahead” at the Swiss
6 Farms needs to be fixed. Mark will check it.

7 2. Board of Supervisors – Mike Lynch commented that they named Derek Davis as the new
8 Township Manager. Derek has already met with Dave Ware. Rick Smith will be retiring the end of
9 June. Derek will be making rounds to meet everyone. He was the Assistant Township Manager for
10 West Goshen Township.
11 We are starting a Business Park Task Force this year to see how COVID affected the businesses.
12 Some companies have been interviewed and said they did very well during the pandemic and they are
13 looking forward to getting all of their employees back into the office.

14 We will be opening the Township Building soon but still have social distancing and masks. Jason
15 Lang will be having some classes in the building again.

16 The Hershey Mill Dam project has been put on hold.

17 They will be reviewing the Code of Conduct which requires all members of the ABCs to be in good
18 standing with their township accounts.

19 3. Pipeline Status – Phil mentioned that the Bow Tree area is starting to look good. They are
20 restoring the berm and laying down sod. Mark commented that the pull back from Sunoco in Bow
21 Tree has been completed. They still need to complete the hydro test, then they will restore the
22 ground and it will be finalized.

23
24 **Financial Reports**

25 Dave Ware reviewed the following report:

26 In April, the Municipal Authority recorded \$47,776.45 in revenues (from transfers) and \$50,849.04 in
27 expenses for a negative variance of \$3,072.59. As of April 30, 2021, the fund balance was \$4,890.

28
29 **Old Business**

30 1. Resolution for Expenditures – This is tabled until next month.

31 2. West Goshen Sewer Authority equipment order – HRG provided an updated cost report. Dana
32 feels that one reason the cost has increased from the original budget in 2016 is that the pumps were
33 not included. Mike Ellis spoke with Josh from HRG who will provide updated plans and peak data.
34 Mike reviewed the report in detail. Mike Lynch mentioned that today Shawn Walsh from West
35 Goshen sent an email to the Board of Supervisors which reported that they were unable to get grant
36 funding for this project. He also mentioned that there will be a 40% price increase for the new
37 equipment on July 1st. So, he is recommending that they order it in June. There was a long
38 discussion about the project.

39 3. Installment Note – This is an agreement with Robert and Amanda Gionfriddo to make monthly
40 installments to pay for their sewer hookup. Phil made a motion to approve the Installment Note and
41 Kevin seconded the motion. The motion passed unanimously.

42
43 **Goals**

44 Dana asked Mark to update a few more items.
45
46
47

1 **New Business**

2 **1. Industrial Pretreatment Ordinance** – Mike Ellis explained that they made some edits to limits
3 regarding commercial/industrial wastewater. They are proposing to put the standards into the existing
4 ordinance. He discussed the parameters and a study that would have to be done. The NPDS permit
5 will expire next year. This was postponed at this time. Mike Ellis will look into it further.
6

7 **Any Other Matter** - None
8

9 **Capacity Request** - None
10

11 **Correspondence**- None
12

13 **Public Comment** - None
14

15 **Adjournment**

16 There being no further business Kevin moved to adjourn the meeting. Phil seconded the motion. The
17 motion passed unanimously. The meeting was adjourned at 8:45 pm. and the Authority went into
18 Executive Session.

19 The next regular meeting will be held on Monday, June 7, 2021 at 7:00 pm.
20

21 Respectfully submitted,
22

23
24 Ruth Kiefer, Recording Secretary



INVOICE

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

Rick Smith
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1072836
Invoice Date : 05/27/2021
Project : EGMAU21001
Project Name : 2021 General
Services

For Services Rendered Through 05/16/2021

May Engineer's Report; and prepared for and attended May MA meeting including review of RCSTP operator's report. Prepared draft industrial wastewater ordinance amendment and customer application form, and provided recommendations on developing local wastewater contaminant limits for RCSTP through headworks study. Reviewed NDPES permit re-application notice from DEP and determined application and sampling requirements. Performed on-site structural and coatings condition assessment of SBR #1, initiated summary report, and coordinated with Dutchland for repairs. Provided Westtown Way PS cost estimate info to Township staff.

Billing Limits	Current	Prior	To-Date
Total Billings	4,038.00	4,779.75	8,817.75
Limit			30,000.00
Remaining			21,182.25

Labor

	Hours	Rate	Amount
Authority Engineer	11.25	132.00	1,485.00
Senior Professional	.25	125.00	31.25
Project Professional	2.25	111.00	249.75
Associate Professional	21.00	97.00	2,037.00
Sr. Engineering Technician	2.50	94.00	235.00
Totals	37.25		4,038.00
Total Labor			4,038.00

Total this Invoice \$4,038.00

OK MAF
6-11-21

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

West Goshen Sewer System Consultation
EGMAU21001 Invoice Summary
Invoice Date 5/27/2021

Project: EGMAU21001
Pennoni Job No.: 2021 General Services
Invoice No: 1072836
Invoice Period: 4/19/2021 to 5/16/2021
Initial Authorization: \$ 30,000.00 **Date:** 5/27/2021
Contract Amount: \$ 30,000.00
Previously Invoiced: \$ 4,779.75
Current Invoice: \$ 4,038.00
Invoiced to Date (\$): \$ 8,817.75
Invoiced to Date (%):
Remaining Budget (\$): \$ 21,182.25
Remaining Budget (%): 71%

Budget by Phase:

Phase Name: 2021 General Services
Phase Budget: \$ 30,000.00
Previously Invoiced: \$ 4,779.75
Current Invoice: \$ 4,038.00
Invoiced to Date (\$): \$ 8,817.75
Invoiced to Date (%):
Remaining Budget (\$):
Remaining Budget (%):

Comments: May Engineer's Report; and prepared for and attended May MA meeting including review of RCSTP operator's report. Prepared draft industrial wastewater ordinance amendment and customer application form, and provided recommendations on developing local wastewater contaminant limits for RCSTP through headworks study. Reviewed NDPES permit re-application notice from DEP and determined application and sampling requirements. Performed on-site structural and coatings condition assessment of SBR #1, initiated summary report, and coordinated with Dutchland for repairs. Provided Westtown Way PS cost estimate info to Township staff.



INVOICE

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

Rick Smith
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1072837
Invoice Date : 05/27/2021
Project : EGMAU21004
Project Name : HM Estates Sewer
Design & Permitting

For Services Rendered Through 05/16/2021

Completed and submitted wetland and bog turtle habitat assessment reports to US Fish & Wildlife Service and Township. Continued design, specs, and plan preparation, provided updated progress plan submission to Township, attended site visit with M. Miller to review plans, sewer routing, and construction access. Initiated DEP GP-11 permit application.

Phase Code / Name	Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
01 -- Wetland & Watercourse Investigation	\$6,750.00	\$6,412.50	100.00%	\$6,750.00	\$337.50
02 -- Phase I Bog Turtle Habitat Assessment	\$6,750.00	\$6,412.50	100.00%	\$6,750.00	\$337.50
03 -- Survey	\$17,200.00	\$17,200.00	100.00%	\$17,200.00	\$0.00
04 -- Design	\$26,100.00	\$5,726.02	53.28%	\$13,906.96	\$8,180.94
05 -- Permitting	\$8,000.00	\$245.93	7.32%	\$585.86	\$339.93
Total :	\$64,800.00	\$35,996.95		\$45,192.82	\$9,195.87

Amount Due This Invoice

\$9,195.87

*oh mlt
6-11-21*

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



Gawthrop Greenwood, PC
Attorneys at Law

17 East Gay Street, Suite 100 | (p) 610-696-822
West Chester, PA 19381-0562 | (f) 610-344-092
gglaw@gawthrop.com | www.gawthrop.com

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
05/12/2021
Client No: 6604-001M
Invoice No. 241891

General Authority Services

Fees

		Hours	
04/09/2021			
RCJ	Review and analyze options with litigation (J.Larkin); and email (1) containing conclusion.	0.80	
04/12/2021			
RCJ	Review materials provided by client in preparation for general meeting of EGMA.	0.40	
RCJ	Attend EGMA general meeting.	1.50	
04/13/2021			
PMM	Email from M. Miller regarding resolution for Authority.	0.20	
	For Current Services Rendered	2.90	580.00

Recapitulation

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Patrick M. McKenna	0.20	\$200.00	\$40.00
Robert C. Jefferson	2.70	200.00	540.00

Expenses

Westlaw research charges	32.41
Total Expenses Thru 04/30/2021	32.41
Previous Balance	\$2,437.10
Total Current Charges	612.41

04/19/2021	Payment	-880.00
04/19/2021	Payment	-1,557.10
	Total Payments	-2,437.10

ok Max
6-11-21

East Goshen Municipal Authority

General Authority Services

Page: 2
05/12/2021
Client No: 6604-001M
Invoice No. 241891

Balance Due

\$612.41

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



Gawthrop Greenwood, PC
Attorneys at Law

17 East Gay Street, Suite 100 (p) 610-696-822
West Chester, PA 19381-0562 (f) 610-344-092
gglaw@gawthrop.com www.gawthrop.com

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

OK MW
6-11-21

Page: 1
06/07/2021
Client No: 6604-001M
Invoice No: 243016

General Authority Services

Fees

		Hours
05/07/2021		
PMM	Email from S. Smith with agenda for meeting.	0.20
JVR	Legal research regarding potential causes of action client might bring related to proposed improvements of PS13 and extract particular clauses from contract that support legal theory;	1.40
05/10/2021		
RCJ	Attend EGMA general meeting and executive session.	2.30
RCJ	Review materials for the meeting.	0.50
PMM	Emails (2) to/from D. Pizzaro, R. Smith and M. Miller regarding West Goshen agreement.	0.40
05/11/2021		
RCJ	Email (1) to R. Smith, M. Miller, and P. McKenna regarding scheduling a meeting; attend virtual meeting with R. Smith, M. Miller, and P. McKenna; draft and revise proposed response to email received from W. Goshen Township Municipal Authority.	2.20
PMM	Zoom call with R. Smith and M. Miller regarding response to West Goshen Municipal Authority pump replacement.	0.50
05/13/2021		
RCJ	Voice message (1) received from D. Pizarro regarding privilege; and draft and revise letter response.	0.40
PMM	Telephone conference with D. Pizzaro regarding response to WGTMA; Revise letter to West Goshen.	0.40
05/14/2021		
PMM	Email from D. Pizzaro regarding letter to West Goshen Township.	0.20
05/19/2021		
PMM	Emails (6) from R. Smith, D. Pizarro, P. Mayer, W. Wujcik, K. Cummings regarding draft letter to WGTMA for pump replacements.	1.00
	For Current Services Rendered	9.50

1,900.00

East Goshen Municipal Authority

General Authority Services

Page: 2

06/07/2021

Client No:

6604-001M

Invoice No.

243016

Recapitulation

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
John V. Rafferty	1.40	\$200.00	\$280.00
Patrick M. McKenna	2.70	200.00	540.00
Robert C. Jefferson	5.40	200.00	1,080.00

Previous Balance

~~\$612.41~~

Total Current Charges

1,900.00

Balance Due

\$2,512.41

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



Gawthrop Greenwood, PC
Attorneys at Law

17 East Gay Street, Suite 100 | (p) 610-696-8211
West Chester, PA 19381-0562 | (f) 610-344-0911
gglaw@gawthrop.com | www.gawthrop.com

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
06/07/2021
Client No: 6604M

Previous Balance	Fees	Expenses	Payments	Balance
6604-001 General Authority Services				
612.41	1,900.00	0.00	0.00	<u>\$2,512.41</u>

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

Deckman Motor & Pump, Inc.
49 W. Front Street
Bridgeport, PA 19405
610-272-6944



DECKMAN
MOTOR & PUMP INC

BILL TO

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

SHIP TO

Mark-cell 610-656-2742
called 5-27 *aj*

INVOICE 3446

DATE 05/27/2021 TERMS Net 30

SHIP VIA

Cust Pick Up

TECH

JSP

WORK ORDER #

22823

ITEM	DESCRIPTION	QTY	EACH	AMOUNT
RBM	Rebuilt - Hydromatic Explosion Proof Pump Model: HPGFHX500EC, S/N: 10579477 Date: 11-18, 9.75 Impeller, 5 HP, 1750 RPM, 3 Phase, 230 Volt - Clean, sandblast, sharpen cutter, install new seal probes, seals, o-rings add oil and paint	1	790.00	790.00

TOTAL DUE

\$790.00

APPROVED BY: *[Signature]*

DATE PAID: _____

CHECK #: _____

CHARGED TO: *07429.1504*

Hunt Country

*ok M&P
C-11-21*

Picked Up/Received By: _____

We Appreciate Your Business

We Accept Visa, MasterCard, Discover & American Express

Deckman Motor & Pump, Inc.
49 W. Front Street
Bridgeport, PA 19405
610-272-6944

65335



DECKMAN
MOTOR & PUMP INC

BILL TO
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

SHIP TO
Mark-cell 610-656-2742

INVOICE 3308

DATE 04/19/2021 **TERMS** Net 30

SHIP VIA
Cust Pick Up

P.O. NUMBER
Ashbridge

TECH
JSP

WORK ORDER #
22595

ITEM	DESCRIPTION	QTY	EACH	AMOUNT
RBM	Rebuilt - Fairbanks Morse Pump Serial No: 1495773-0, 40 HP, 1761 RPM, 3 Phase, 460 Volt, 250T Frame	1	14,747.00	14,747.00

TOTAL DUE

\$14,747.00

*oh MSA
Ashbridge 6/11/21*

APPROVED BY: _____

DATE PAID: _____

CHECK #: _____

CHARGED TO: 07429.1502

Picked Up/Received By: _____

[Signature]

PAID
5/19

We Appreciate Your Business

We Accept Visa, MasterCard, Discover & American Express

Deckman Motor & Pump, Inc.
49 W. Front Street
Bridgeport, PA 19405
610-272-6944



DECKMAN
MOTOR & PUMPING

BILL TO

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

SHIP TO

Mark-cell 610-656-2742

INVOICE 3308

DATE 04/19/2021 TERMS Net 30

SHIP VIA

Cust Pick Up

P.O. NUMBER

Ashbridge

TECH

JSP

WORK ORDER #

22595

ITEM	DESCRIPTION	QTY	EACH	AMOUNT
RBM	Rebuilt - Fairbanks Morse Pump Serial No: 1495773-0, 40 HP, 1761 RPM, 3 Phase, 460 Volt, 250T Frame	1	14,747.00	14,747.00

TOTAL DUE

\$14,747.00

APPROVED BY: WJP

DATE PAID: _____

CHECK #: _____

CHARGED TO: _____

Capital Reserve

Picked Up/Received By: WJP

We Appreciate Your Business

We Accept Visa, MasterCard, Discover & American Express

Deckman Motor & Pump, Inc.
49 W. Front Street
Bridgeport, PA 19405
610-272-6944

65836



DECKMAN
MOTOR & PUMP INC

BILL TO

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

SHIP TO

Mark-cell 610-656-2742
called 4-27 *aj*

INVOICE 3343

DATE 04/27/2021 **TERMS** Net 30

SHIP VIA

Cust Pick Up

P.O. NUMBER

Ashbridge

TECH

LTS

WORK ORDER #

22592

ITEM	DESCRIPTION	QTY	EACH	AMOUNT
RBM	Rebuilt - Fairbanks Morse Pump, Serial No: 1495773-2, Date: 102, 40 HP, 1761 RPM, 460 Volt, 3 Phase, 250T Frame	1	15,577.00	15,577.00

TOTAL DUE

\$15,577.00

*ok Mark
Ashbridge 6/11/21*

APPROVED BY: _____
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07429,1502

PAID
5/19

Picked Up/Received By: _____

We Appreciate Your Business

We Accept Visa, MasterCard, Discover & American Express

Deckman Motor & Pump, Inc.
49 W. Front Street
Bridgeport, PA 19405
610-272-6944



DECKMAN
MOTOR & PUMPING

BILL TO

East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

SHIP TO

Mark-cell 610-656-2742
called 4-27 *aj*

INVOICE 3343

DATE 04/27/2021 TERMS Net 30

SHIP VIA

Cust Pick Up

P.O. NUMBER

Ashbridge

TECH

LTS

WORK ORDER #

22592

ITEM	DESCRIPTION	QTY	EACH	AMOUNT
RBM	Rebuilt - Fairbanks Morse Pump, Serial No: 1495773-2, Date: 102, 40 HP, 1761 RPM, 460 Volt, 3 Phase, 250T Frame	1	15,577.00	15,577.00

TOTAL DUE

\$15,577.00

APPROVED BY: *MA*

DATE PAID: _____

CHECK #: _____

CHARGED TO: _____

Capital Reserve

Picked Up/Received By: *[Signature]*

We Appreciate Your Business

We Accept Visa, MasterCard, Discover & American Express



A.U.S. Electrical Services Inc. Company
200 GARFIELD AVENUE
WEST CHESTER PA 19380-4512
610-719-9253 Fax

INVOICE

65384

CUSTOMER NUMBER	SUB ACCOUNT #
117491	117491
INVOICE NUMBER	INVOICE DATE
S117928450.001	04/26/21
REMIT TO:	
US ELECTRICAL SERVICES, INC. PO BOX 412485 BOSTON MA 02241-2485	

APPROVED BY: ML
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07429-1505
SHIP TO:

BILL TO:

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER PA 19380-6107

OK MM
6/11/21

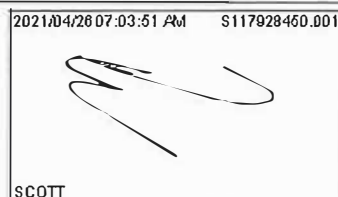
EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER PA 19380-6107

CUSTOMER PO #		JOB NAME / RELEASE #	ORDERED BY	SALESPERSON	
E BOOT RD FLOW METER				HOUSE ACCOUNT	
WRITER		SHIP VIA	TERMS	SHIP DATE	ORDER DATE
DAVID A SMITH		WILL CALL	NET 15TH	04/26/21	04/23/21
ORDER QTY	SHIP QTY	DESCRIPTION		UNIT PRICE	EXT PRICE
1ea	1ea	MILB 6003 PLSTC MTR CLOSING PL		4.980 ea	4.98
1ea	1ea	HIGHLI 910L-1G2GE2 9 ROUND PLASTIC SPLICE BOX		43.180 ea	43.18
20ft	20ft	PVC SCH 40 2" X 10' PIPE		247.750 c	49.55
2ea	2ea	KRY 078545 SCH40 2" X 90D PVC ELBOW 40STD2090		358.090 c	7.16
6ea	6ea	KRY 078006 CP20 2" PVC COUPLING		90.600 c	5.44
4ea	4ea	KRY 078293 MEB20 2" ENDBELL		918.520 c	36.74
2ea	2ea	BLINE B2213-PA-ZN 2" EMT-HW STRAP		427.960 c	8.56
2ea	2ea	KRY 078089 TA20 2" PVC MALE TERMINAL ADAPTER		137.070 c	2.74
2ea	2ea	CRS 936 2" PLASTIC INSULATING BUSHING 105 DEG C		59.410 c	1.19
2ea	2ea	CRS 16X 2-IN STEEL LOCKNUT		43.870 c	0.88
40ft	40ft	BLINE B22SH-120GLV 1-5/8" X 1-5/8" X 10' 12GA 9/16" X 1-1/8" SLOTTED HOLES GALVANIZED		230.870 c	92.35
10ft	10ft	PVC SCH 40 3/4" X 10' PIPE		81.540 c	8.15
1ea	1ea	KRY 078085 TA07 3/4" PVC TERMINAL ADAPTER		48.750 c	0.49
1ea	1ea	CRS 12X 3/4 STEEL LOCKNUT		10.450 c	0.10
2ea	2ea	CAD 615880 5/8" X 8FT CU GROUND ROD		29.010 ea	58.02
2ea	2ea	CAD CP58 5/8" GROUND ROD CLAMP		2.690 ea	5.38
20ft	20ft	WCU BARE 6 CU SOLID 1000' REEL		695.220 m	13.90
10ft	10ft	WCU THHN 6 CU STR BLACK 1000' REEL		875.910 m	8.76

PAID

Invoice is due by 06/15/21.

For complete Terms & Conditions go to:
<https://tinyurl.com/Yale-Customer-TC>



SCOTT

Subtotal	347.57
Shipping Chgs	0.00
Tax	0.00
Payments	0.00
Amount Due	347.57

A US Electrical Company

Visit us at www.usesi.com

TO VIEW ONLINE GO TO: [HTTP://USESI.BILLTRUST.COM](http://usesi.billtrust.com) USE THIS ENROLLMENT TOKEN: VHD QLP SLM



A U.S. Electrical Services Inc. Company
200 GARFIELD AVENUE
WEST CHESTER PA 19380-4512
610-719-9253 Fax

INVOICE

CUSTOMER NUMBER	SUB ACCOUNT #
117491	117491
INVOICE NUMBER	INVOICE DATE
S117928450.002	04/26/21
REMIT TO:	
US ELECTRICAL SERVICES, INC. PO BOX 412485 BOSTON MA 02241-2485	

APPROVED BY: MLA
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07429-1505

BILL TO:

SHIP TO:

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER PA 19380-6107

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER PA 19380-6107

OK MEX
6-11-21
Hilbrow

CUSTOMER PO #		JOB NAME / RELEASE #		ORDERED BY		SALESPERSON	
E BOOT RD FLOW METER						HOUSE ACCOUNT	
WRITER		SHIP VIA		TERMS		SHIP DATE	ORDER DATE
DAVID A SMITH		WILL CALL		NET 15TH		04/26/21	04/23/21
ORDER QTY	SHIP QTY	DESCRIPTION				UNIT PRICE	EXT PRICE
1ea	1ea	MILB U1980-O-KK-BL 200A METER SOCKET !! TAGGED ITEM !!				83.430 ea	83.43
1ea	1ea	DIV S00740 COLD GALV SPRAY !! TAGGED ITEM !!				13.960 ea	13.96
200ft	200ft	WAL URD 2-2-4 STEPHENS MASTER REEL Cuts: 1 @ 200 ft !! TAGGED ITEM !!				1133.070 m	226.61
600ft	600ft	WAL AIR 2-2-2 CONCH MASTER REEL Cuts: 1 @ 600 ft !! TAGGED ITEM !!				827.000 m	496.20
10ea	10ea	BLKBRN W62-1 WEDGE GRIP CLAMP !! TAGGED ITEM !!				6.780 ea	67.80
6ea	6ea	MWMFG MW1020 7/16X4-3/4 DRIVE HOOK !! TAGGED ITEM !!				424.250 c	25.46
PAID 5/19							

PAID
5/19



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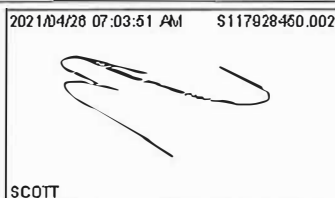
Invoice is due by 06/15/21.

For complete Terms & Conditions go to:
<https://tinyurl.com/Yale-Customer-TC>

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Subtotal	913.46
Shipping Chgs	0.00
Tax	0.00
Payments	0.00
Amount Due	913.46

Memo

To: Municipal Authority
From: Dave Ware
Re: MA May 2021 Financial Report
Date: May 10, 2021

In May, 2021, the Municipal Authority recorded \$58,417 in revenues (from transfers) and \$54,233 expenses, for a positive variance of \$4,184. As of May 31, 2021, the fund balance was \$9,073.

A complete list of 2021 YTD MA revenues and expenses is attached.

I will "see" you all at the meeting on June, 14, 2021 at 7PM.

EAST GOSHEN TOWNSHIP
Other Funds
May 2021
Municipal Authority

Account Title	Acct #	Annual Budget	Y-T-D Budget	Y-T-D Actual	Y-T-D Variance	M-T-D Budget	M-T-D Actual	M-T-D Variance
REVENUE								
INTEREST EARNINGS	07341 1000			1.75	1.75		0.19	0.19
CAPITAL RESERVE-INTEREST	07341 1010							
INTEREST EARNED - CONSTRUCTION	07341 1020							
DGED GRANT	07354 0400	152,980						
C.C. TAPPING FEES	07364 1100			2,060.00	2,060.00		2,060.00	2,060.00
R.C.TAPPING FEES	07364 1110							
M.C. LOAN PAYMENTS	07364 1120							
CONNECTION FEES - SEWER	07364 1130			1,127.52	1,127.52			
MISCELLANEOUS REVENUE	07380 1000	565	424	564.48	140.48			
TRANSFER FROM GENERAL ACCT	07392 0100							
TRANSFER FROM SEWER OPERATING	07392 0500	279,915	189,338	41,801.23	(147,536.50)	10,977	5,299.25	(5,678.11)
TRANSFER FROM SEWER CAP RESV	07392 0501							
TRANSFER-ANNUAL CAP.RESERVE	07392 0510							
GRANT REVENUE	07392 0800							
LOAN PROCEEDS - SEWER PROJECT	07392 0804							
TRANSFER FROM SEWER CAP RESERVE	07392 0900	122,000	49,167	144,530.31	95,362.86	116	51,057.74	50,942.17
TOTAL REVENUE		555,460	238,929	190,085.29	(48,843.89)	11,093	58,417.18	47,324.25
EXPENSES								
ADMINISTRATIVE WAGES	07424 1400	30,000	7,500	7,373.83	126.17			
R.C. LOAN ISSUANCE COSTS	07424 1500							
MISCELLANEOUS EXPENSE	07424 3000			1,518.25	(1,518.25)			
MUNIC.AUTH.-AUDITING	07424 3110	9,440	9,440	10,000.00	(560.00)	2,585		2,585.48
ENGINEERING SERVICES	07424 3130	60,900	32,042	20,512.31	11,529.66	7,301	3,141.25	4,159.44
LEGAL SERVICES	07424 3140	8,120	2,831	3,277.10	(446.54)	572		571.83
W.G. C.C.STP-UPGRADE	07424 7400							
MANHOLE COVER REPLACEMENTS	07424 7405							
C.C. CAPITAL - METERS	07424 7410							
C.C. CAPITAL- COLLECTION	07424 7420							
C.C. CAPITAL- INTERCEPTOR	07424 7430							
CAPITAL PROJ.-ENGINEERING	07424 7431							
R.C. CAPITAL-STP	07424 7440							
R.C. CAPITAL - COLLECTION	07424 7450							
R.C.-CAP. PROJ.-ENGINEER	07424 7451							
CAP.REPLACEMENT R.C.	07424 7490							
CAPITAL REPLACEMENT ASHBRIDGE	07424 7491							
HERSHEY MILL STATION - ENGINEER	07426 1000							
HERSHEY MILL STATION - CONSTRUCTION	07426 2000							
TALLWADGE DRIVE	07426 3000							

EAST GOSHEN TOWNSHIP
Other Funds
May 2021
Municipal Authority

Account Title	Acct #	Annual Budget	Y-T-D Budget	Y-T-D Actual	Y-T-D Variance	M-T-D Budget	M-T-D Actual	M-T-D Variance
RESERVOIR PUMP STATION - ENGINEER	07428 1000							
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000							
RELINING	07429 1500							
BARKWAY PUMP STATION CAPITAL	07429 1501			5,117.00	(5,117.00)			
ASHBRIDGE PUMP STATION CAPITAL	07429 1502			30,324.00	(30,324.00)		30,324.00	(30,324.00)
HERSHEYS MILL PUMP STATION CAPITAL	07429 1503			20,847.77	(20,847.77)		12,338.20	(12,338.20)
HUNT CO PUMP STATION CAPITAL	07429 1504	87,000	9,651	6,831.00	2,820.29	762		762.16
RCSTP CAPITAL	07429 1505	230,000		81,410.54	(81,410.54)		8,395.54	(8,395.54)
ASBESTOS CONCRETE ENGINEERING	07429 3130							
DIVERSION PROJ.- LEGAL	07429 3166							
WEST GOSHEN CAPITAL	07429 6100							
M.C.-DVRFA-DEBT SERVICE	07471 1000							
M.A.-R.C. DEBT SERVICE	07471 1010							
DVRFA PUMPING STATIONS - PRINCIPAL	07471 2000							
M.C.-DVRFA-INTEREST PAYMN	07472 1000							
M.A.-R.C. INTEREST	07472 1010							
DVRFA PUMPING STATIONS - INTEREST	07472 2000							
Bank Fees	07491 5001			172.50	(172.50)		34.50	(34.50)
TRANSFER TO GENERAL FUND	07492 0100							
TRANSFER TO SEW.OPERATING	07492 0500							
TRF TO SEWER CAPITAL RESERVE FUND	07492 0550							
TRANSFER TO AUTHORITY CAP FUND	07492 0990							
TOTAL EXPENSES		425,460	61,464	187,384.30	(125,920.48)	11,220	54,233.49	(43,013.33)
NET RESULT FROM OPERATIONS		130,000	177,465	2,700.99	(174,764.37)	(127)	4,183.69	4,310.92

Municipal Authority
May 2021 YTD Financials

Account #	Description	Per	Src	Trx#	Debits	Credits	Balance	Date	Check#	ID #	Name	Description	Description 2
07341-1000	BEGINNING BALANCE						0						
07341-1000	INTEREST EARNINGS	2101	JE	76976	34.5	0	0	1/5/2021	BANK FEES		REIMBURSE S/R FOR DEC. 2020	BANK FEES	
07341-1000	INTEREST EARNINGS	2102	JE	77346	0	34.5	0	2/8/2021	REVERSE		REVERSE & CORRECT TRX. 76976	BANK FEE CHARGES	
07341-1000	INTEREST EARNINGS	2102	JE	77356	0	0.49	0	2/8/2021	INTEREST		INTEREST EARNED JANUARY 2021		7100.1035
07341-1000	INTEREST EARNINGS	2102	JE	77638	0	0.44	0	2/28/2021	INTEREST		INTEREST EARNED FEBRUARY 2021		7100.1035
07341-1000	INTEREST EARNINGS	2103	JE	78076	0	0.47	0	3/31/2021	INTEREST		INTEREST EARNED MARCH 2021		7100.103
07341-1000	INTEREST EARNINGS	2104	JE	78492	0	0.16	0	5/3/2021	INTEREST		INTEREST EARNED APRIL 2021		7100.1035
07341-1000	INTEREST EARNINGS	2105	JE	78908	0	0.19	0	5/31/2021	INTEREST		INTEREST EARNED MAY 2021		7100.1035
07364-1100	BEGINNING BALANCE						0						
07364-1100	C.C. TAPPING FEES	2105	RE	78657	0	2000	0	5/12/2021	78657 1		TAP IN FEE 1331 E STRASBURG RD	C.C. TAPPING FEES	
07364-1100	C.C. TAPPING FEES	2105	RE	78659	0	60	0	5/12/2021	78659 1		SEWER INSP.1331 E STRASBURG RD	C.C. TAPPING FEES	
07364-1130	BEGINNING BALANCE						0						
07364-1130	CONNECTION FEES - SEWER	2101	CR	77256	0	423	0	1/28/2021	2694 012022 1		STOFFLET, MICHAEL		
07364-1130	CONNECTION FEES - SEWER	2101	JE	77257	141.12	0	0	1/28/2021	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT	INTERST PORTION - STOFFLET	
07364-1130	CONNECTION FEES - SEWER	2102	CR	77466	0	423	0	2/17/2021	745 012023 1		JACOBS, ROBERT & CHERYL		
07364-1130	CONNECTION FEES - SEWER	2102	JE	77467	141.12	0	0	2/17/2021	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - JACOBS	
07364-1130	CONNECTION FEES - SEWER	2103	CR	77801	0	423	0	3/11/2021	4276 012021 1		GEORGE SMITH & CHRISTINA CONLE		
07364-1130	CONNECTION FEES - SEWER	2103	CR	78004	0	423	0	3/26/2021	8842992 012024 1		PAPPANO, JOSEPH & PATRICIA		
07364-1130	CONNECTION FEES - SEWER	2103	JE	77802	141.12	0	0	3/11/2021	PINEROCK		INTEREST PORTION - CONLEY	SMITH	
07364-1130	CONNECTION FEES - SEWER	2103	JE	78005	141.12	0	0	3/26/2021	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - PAPPANO	
07380-1000	BEGINNING BALANCE						0						
07380-1000	MISCELLANEOUS REVENUE	2101	JE	77257	0	141.12	0	1/28/2021	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT	INTERST PORTION - STOFFLET	
07380-1000	MISCELLANEOUS REVENUE	2102	JE	77467	0	141.12	0	2/17/2021	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - JACOBS	
07380-1000	MISCELLANEOUS REVENUE	2103	JE	77802	0	141.12	0	3/11/2021	PINEROCK		INTEREST PORTION - CONLEY	SMITH	
07380-1000	MISCELLANEOUS REVENUE	2103	JE	78005	0	141.12	0	3/26/2021	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - PAPPANO	
07392-0500	BEGINNING BALANCE						0						
07392-0500	TRANSFER FROM SEWER OPERATING	2101	JE	77062	0	66	0	1/12/2021	XFER		XFER \$ FROM SEWER TO MA RE:	JANUARY EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2101	JE	77072	0.01	0	0	1/13/2021	ADJUST		ADJUST TRX. 76744		
07392-0500	TRANSFER FROM SEWER OPERATING	2102	JE	77393	0	3031.25	0	2/9/2021	XFER		XFER FUNDS TO MA FROM SEWER &	SEWER CAP. RE:FEB 2021 EXP.	
07392-0500	TRANSFER FROM SEWER OPERATING	2103	JE	77621	0	2525	0	3/1/2021	XFER		XFER \$ TO MA FROM SEWER RE: MA	EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2103	JE	77775	0	3813	0	3/10/2021	XFER		XFER \$ TO MA FROM SEWER FUND		
07392-0500	TRANSFER FROM SEWER OPERATING	2103	JE	77959	0	5955	0	3/24/2021	XFER		XFER \$ FROM 05 TO 07 MA		
07392-0500	TRANSFER FROM SEWER OPERATING	2103	JE	78050	0	7373.83	0	3/31/2021	XFER		XFER \$ TO MA FROM 05		
07392-0500	TRANSFER FROM SEWER OPERATING	2104	JE	78253	0	13737.91	0	4/15/2021	XFER		XFER \$ FR: SEWER OPER. TO MA		
07392-0500	TRANSFER FROM SEWER OPERATING	2105	JE	78480	0	2158	0	5/3/2021	XFER		XFER \$ FROM SEWER TO MA TO	COVER EXPENSE	
07392-0500	TRANSFER FROM SEWER OPERATING	2105	JE	78625	0	3141.25	0	5/12/2021	XFER		XFER \$ FROM SEWER & SEWER CAP.	RESERVE TO MA	
07392-0900	BEGINNING BALANCE						0						
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2102	JE	77393	0	12162.92	0	2/9/2021	XFER		XFER FUNDS TO MA FROM SEWER &	SEWER CAP. RE:FEB 2021 EXP.	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2102	JE	77434	0	15035.91	0	2/12/2021	XFER		XFER \$ FROM 09 TO 07		
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2103	JE	77623	0	15721.12	0	3/1/2021	XFER		XFER \$ FROM SEWER CAPITAL TO	MA RE: EXPENSES	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2103	JE	77777	0	10188.22	0	3/10/2021	XFER		XFER \$ TO MA FROM SEWER CAP.	RESERVE	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2103	JE	77779	0	5785.09	0	3/10/2021	XFER		XFER \$ TO MA FROM SEWER CAP.	RESERVE	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2103	JE	77827	382.02	0	0	3/12/2021	XFER		RETURN \$ TO 09 FROM 07 RE:	XFER ERROR 2/9/21	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2103	JE	77957	0	922.95	0	3/24/2021	XFER		XFER \$ FROM 09 TO 07 MA		
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2104	JE	78255	0	33111.72	0	4/15/2021	XFER		XFER \$ FR: SEWER CAPITAL TO MA		
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2104	JE	78369	0	926.66	0	4/26/2021	XFER		XFER \$ FROM SEWER CAPITAL 09 -	MUNICIPAL AUTH. 07	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2105	JE	78625	0	16313.2	0	5/12/2021	XFER		XFER \$ FROM SEWER & SEWER CAP.	RESERVE TO MA	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2105	JE	78746	0	31885.04	0	5/19/2021	XFER		XFER \$ FROM SEWER CAP.RESERVE	TO MUN.AUTHORITY	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2105	JE	78802	0	2859.5	0	5/25/2021	XFER		XFER \$ TO MA FROM SEWER	CAPITAL	
07424-1400	BEGINNING BALANCE						0						
07424-1400	ADMINISTRATIVE WAGES	2103	CD	78032	7373.83	0	0	3/30/2021	3264	425	EAST GOSHEN TOWNSHIP - GENERAL	QTR.1-2021 REIMBURSEMENT	
07424-3000	BEGINNING BALANCE						0						
07424-3000	MISCELLANEOUS EXPENSE	2103	CD	77949	638	0	0	3/24/2021	3261	3871	DELAWARE RIVER BASIN COMMISSION	2021 ANNUAL FEE	
07424-3000	MISCELLANEOUS EXPENSE	2104	CD	78161	880.25	0	0	4/8/2021	3265	2132	PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC	2021 ACTIVE MEMBERSHIP DUES	
07424-3110	BEGINNING BALANCE						0						
07424-3110	MUNIC.AUTH.-AUDITING	2102	CD	77571	2525	0	0	2/26/2021	3253	808	MAILLIE FALCONIERO & CO.	PROGRESS BILLING AUDIT EGT MUN.AUTH	
07424-3110	MUNIC.AUTH.-AUDITING	2103	CD	77949	5317	0	0	3/24/2021	3263	808	MAILLIE FALCONIERO & CO.	FINANCIAL STMTS. & AUDIT 2020	
07424-3110	MUNIC.AUTH.-AUDITING	2104	CD	78451	2158	0	0	4/29/2021	3271	808	MAILLIE FALCONIERO & CO.	BAL. DUE RE: MUNICIPAL AUTH. 2020	AUDIT
07424-3130	BEGINNING BALANCE						0						
07424-3130	ENGINEERING SERVICES	2101	CD	77095	66	0	0	1/12/2021	3243	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 12/6/20 GEN.SERVICES	
07424-3130	ENGINEERING SERVICES	2102	CD	77394	3031.25	0	0	2/9/2021	3245	1052	PENNONI ASSOCIATES INC.	SERVICE THRU 12/31/20 2020 GEN.SERV	
07424-3130	ENGINEERING SERVICES	2103	CD	77786	2973	0	0	3/10/2021	3259	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 2/14/21 2020 CHAP.94	
07424-3130	ENGINEERING SERVICES	2104	CD	78252	11300.81	0	0	4/15/2021	3268	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 3/21/21 RCSTP CAUSTIC	SODA CONVERSION
07424-3130	ENGINEERING SERVICES	2105	CD	78624	3141.25	0	0	5/12/2021	3272	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 4/18/21 2020 CHAP.94	
07424-3140	BEGINNING BALANCE						0						

Municipal Authority
May 2021 YTD Financials

07424-3140	LEGAL SERVICES	2103	CD	77786	840	0	0	3/10/2021	3258	528	GAWTHROP GREENWOOD & HALSTED	LEGAL SERV. - DECEMBER 2020	
07424-3140	LEGAL SERVICES	2104	CD	78252	2437.1	0	0	4/15/2021	3267	528	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - 2/5-2/9/21 GEN.AUTH	
07429-1501	BEGINNING BALANCE												
07429-1501	BARKWAY PUMP STATION CAPITAL	2104	CD	78252	5117	0	0	4/15/2021	3266	356	DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMPS	
07429-1502	BEGINNING BALANCE												
07429-1502	ASHBRIDGE PUMP STATION CAPITAL	2105	CD	78743	30324	0	0	5/19/2021	3273	356	DECKMAN MOTOR & PUMP INC.	REBUILT FAIRBANKS MORSE PUMP -	ASHBRIDGE - S/N 1495773-0
07429-1503	BEGINNING BALANCE												
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2103	CD	77786	5815.53	0	0	3/10/2021	3259	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 2/14/21 HM ESTATES	SEWER DESIGN & PERMITTING
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2104	CD	78252	2786	0	0	4/15/2021	3266	356	DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMPS	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2104	CD	78359	-91.96	0	0	4/26/2021	3269	293	COLONIAL ELECTRIC SUPPLY	CRED. RE: PARALLEL REEL AXLE	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2105	CD	78624	12338.2	0	0	5/12/2021	3272	1052	PENNONI ASSOCIATES INC.	SERV.THURU 4/18/21 HM ESTATES SEWER	
07429-1504	BEGINNING BALANCE												
07429-1504	HUNT CO PUMP STATION CAPITAL	2104	CD	78252	6831	0	0	4/15/2021	3266	356	DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMPS	
07429-1505	BEGINNING BALANCE												
07429-1505	RCSTP CAPITAL	2102	CD	77394	462	0	0	2/9/2021	3244	813	MAIN LINE CONCRETE	2 YDS CONCRETE 4000 PSI	
07429-1505	RCSTP CAPITAL	2102	CD	77394	5552.5	0	0	2/9/2021	3245	1052	PENNONI ASSOCIATES INC.	SERVICE THRU 1/17/21 HERSH.MILL	ESTATES SEWER REPLACEMENT
07429-1505	RCSTP CAPITAL	2102	CD	77394	5766.4	0	0	2/9/2021	3246	550	XYLEM DEWATERING SOLUTIONS INC.	8X50' HEAVY DUTY LAYFLAT HOSE	
07429-1505	RCSTP CAPITAL	2102	CD	77433	1647	0	0	2/12/2021	3247	293	COLONIAL ELECTRIC SUPPLY	HAMMOND ELECTRIC BOX	
07429-1505	RCSTP CAPITAL	2102	CD	77433	7004.16	0	0	2/12/2021	3248	598	HANSON AGGREGATES PENNSYLVANIA LLC	203.31 TONS 1/4 STONE	
07429-1505	RCSTP CAPITAL	2102	CD	77433	472.5	0	0	2/12/2021	3249	1849	HICKS BROTHERS LLC	63 SMALL BALES OF STRAW	
07429-1505	RCSTP CAPITAL	2102	CD	77433	127.05	0	0	2/12/2021	3250	739	KNOX EQUIPMENT RENTALS INC.	MULCHER RENTAL 1/21/21 HIBBERD LANE	
07429-1505	RCSTP CAPITAL	2102	CD	77433	2258	0	0	2/12/2021	3251	3151	TRENCHTECH INC.	SHORE RENT & NYLON LIFTING SLING	1/7-1/20/21
07429-1505	RCSTP CAPITAL	2102	CD	77433	3527.2	0	0	2/12/2021	3252	550	XYLEM DEWATERING SOLUTIONS INC.	DRI-PRIME PUMP, HOSES & SUCTION	SCREEN RENTAL
07429-1505	RCSTP CAPITAL	2102	CD	77620	542.92	0	0	3/1/2021	3254	293	COLONIAL ELECTRIC SUPPLY	PVC CONDUITS, PANELS, LOCKNUTS &	VARIOUS ELECTRICAL PARTS
07429-1505	RCSTP CAPITAL	2102	CD	77620	1112.2	0	0	3/1/2021	3255	1668	EXETER SUPPLY COMPANY INC	MAX ADAPTERS (4)	
07429-1505	RCSTP CAPITAL	2102	CD	77620	14066	0	0	3/1/2021	3256	1876	FOLEY INC.	TRACK LOADER RENTAL 1/11-1/20/21	
07429-1505	RCSTP CAPITAL	2103	CD	77786	5761	0	0	3/10/2021	3257	1876	FOLEY INC.	EXCAVATOR, COUPLER & BUCKET RENTAL	1/11-1/28/21 HIBBERD LANE
07429-1505	RCSTP CAPITAL	2103	CD	77786	4372.69	0	0	3/10/2021	3259	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 2/14/21 RCSTP CAUSTIC	SODA CONVERSION
07429-1505	RCSTP CAPITAL	2103	CD	77786	24.09	0	0	3/10/2021	3260	1983	YALE ELECTRIC SUPPLY CO	NON-METALLIC CONNECTORS, COUPLING &	BLACK WIRING
07429-1505	RCSTP CAPITAL	2103	CD	77949	922.95	0	0	3/24/2021	3262	765	LEC - LENNI ELECTRIC CORPORATION	RACK FOR FLOW METER - HIBBERD	
07429-1505	RCSTP CAPITAL	2104	CD	78252	18377.72	0	0	4/15/2021	3268	1052	PENNONI ASSOCIATES INC.	SERV. THRU 3/21/21 HM ESTATES SEWER	
07429-1505	RCSTP CAPITAL	2104	CD	78359	401.6	0	0	4/26/2021	3269	293	COLONIAL ELECTRIC SUPPLY	PVC CONDUITS, BELL ENDS, STEEL LOCK	NUTS & POLE RISERS
07429-1505	RCSTP CAPITAL	2104	CD	78359	617.02	0	0	4/26/2021	3270	550	XYLEM DEWATERING SOLUTIONS INC.	SALES TAX RE: INVOICE #401064279	
07429-1505	RCSTP CAPITAL	2105	CD	78624	3975	0	0	5/12/2021	3272	1052	PENNONI ASSOCIATES INC.	SERV.THURU 4/18/21 RCSTP CAUSTIC SODA	
07429-1505	RCSTP CAPITAL	2105	CD	78743	1561.04	0	0	5/19/2021	3274	1983	YALE ELECTRIC SUPPLY CO	WIRE, POLE RISER & PARTS FOR PECO	CONDUIT
07429-1505	RCSTP CAPITAL	2105	CD	78797	2859.5	0	0	5/25/2021	3275	765	LEC - LENNI ELECTRIC CORPORATION	ELECTRICAL SERVICE RE: HIBBERD LANE	FLOW METER
07491-5001	BEGINNING BALANCE												
07491-5001	Bank Fees	2102	EX	77369	34.5	0	0	2/9/2021	77369	1	REIMB. S/R - JAN.2021 BANK FEES	Bank Fees	
07491-5001	Bank Fees	2102	JE	77346	34.5	0	0	2/8/2021	REVERSE		REVERSE & CORRECT TRX. 76976	BANK FEE CHARGES	
07491-5001	Bank Fees	2103	EX	77652	34.5	0	0	3/2/2021	77652	1	REIMB.S/R - FEB.2021 BANK FEES	Bank Fees	
07491-5001	Bank Fees	2104	EX	78095	34.5	0	0	4/1/2021	78095	1	REIMB.S/R - 3/2021 BANK FEES	Bank Fees	
07491-5001	Bank Fees	2105	EX	78504	34.5	0	0	5/4/2021	78504	1	REIMB.S/R FOR APRIL BANK FEES	Bank Fees	
07491-5001	Bank Fees	2106	EX	78925	34.5	0	0	6/2/2021	78925	1	REIMB. S/R MAY 2021 BANK FEES	Bank Fees	



Christiana Executive Campus
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Newark, DE 19713
T: 302-655-4451
F: 302-654-2895
www.pennoni.com

June 3, 2021

EGMAU21005P

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

RE: Proposal for Ridley Creek STP NPDES Permit Renewal Application

Dear Mr. Smith:

Pennoni Associates Inc. (Pennoni) is pleased to submit the following proposal to the East Goshen Municipal Authority to prepare the permit renewal application for the Ridley Creek Sewage Treatment Plant (RCSTP) National Pollutant Discharge Elimination System (NPDES) permit.

SCOPE OF SERVICES

NPDES Permits are valid for five years. The current NPDES Permit for the RCSTP expires on April 30, 2022. The permit renewal application must be submitted to PADEP by November 1, 2021, as stated in the attached letter from PADEP.

Pennoni will prepare and submit the permit renewal application and associated required documentation to PADEP. We will also respond to questions and comments from PADEP, and we will review PADEP's issued permit (following their review) during PADEP's required public review period.

DELIVERABLES

Deliverables consist of the NPDES Permit application and relevant documents required for the application submission.

SCHEDULE

Performance of services will commence upon receipt of Notice to Proceed (NTP). The permit application will be submitted to PADEP by November 1, 2021, provided the NTP is issued in June 2021.

FEE

Pennoni will provide the above referenced scope of services on a Time and Materials basis per our annual hourly rate schedule for an estimated fee of \$7,000.

The client will be responsible for providing the required \$500 application fee to PADEP and for performing any required sampling.

BILLING AND PAYMENT

Invoices will be submitted monthly. Payment is due within 30 days of invoicing.

Thank you for the opportunity to provide our professional services to East Goshen Municipal Authority. If you wish to discuss any of the above, please do not hesitate to contact me at 302-351-5236 or mellis@pennoni.com.

If this proposal is acceptable, please execute by signing and returning a copy to this office to serve as our Notice to Proceed.

Respectfully submitted,

PENNONI ASSOCIATES INC.


Michael J. Ellis, PE
Authority Engineer

ACCEPTED BY:

(Sign)

(Name, Title)

East Goshen Municipal Authority

DATE:



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

BUREAU OF CLEAN WATER

May 1, 2021

EAST GOSHEN MUNI AUTH CHESTER CNTY
1580 PAOLI PIKE
WEST CHESTER PA 19380-6107



Re: Sewage
RIDLEY CREEK STP
NPDES Permit No. PA0050504
East Goshen Township, Chester County

Dear Permittee:

Your NPDES permit, No. PA0050504, will expire on April 30, 2022. If you will be continuing to discharge as approved by the existing NPDES permit, an application to renew the permit **must be received** by the Department no later than November 1, 2021. You may be subject to enforcement action if the permit application is not received by the application deadline.

Application forms can be obtained through the Department's website, www.dep.pa.gov, by selecting Businesses - Water - The Bureau of Clean Water - Wastewater Management - NPDES and WQM Permitting Programs. Select the appropriate NPDES application form for your facility from the list provided.

According to our records, the fee category for the facility covered by this permit is Minor Sewage Facility ≥ 0.05 and < 1 MGD, which has an application fee of \$500 in accordance with DEP's regulation at 25 Pa. Code § 92a.26.

Mail your completed application along with the application fee to:

**DEP Southeast Regional Office
Clean Water Program
2 E MAIN ST
NORRISTOWN PA 19401**

It is important that you read and follow the application instructions carefully. Please note that if the facility is no longer discharging to waters of the Commonwealth, or will no longer discharge after April 30, 2022, a written request to terminate the permit should be submitted as soon as you become aware of the elimination of the discharge(s). This request should also explain how the discharge(s) were or will be eliminated.

Questions concerning the completion of application should be directed to the DEP Southeast Regional Office at 484-250-5970.

Sincerely,

Sean M. Furjanic, P.E.
Environmental Program Manager
NPDES Permitting Division



Christiana Executive Campus
121 Continental Drive, Suite 207
Newark, DE 19713
T: 302-655-4451
F: 302-654-2895

www.pennoni.com

MEMORANDUM

TO: Mark Miller, Public Works Director
CC: Rick Smith, Township Manager
John Altshul, Assistant Township Manager
East Goshen Municipal Authority
FROM: Michael Ellis, PE
DATE: August 6, 2020
Revised: May 28, 2021
SUBJECT: RCSTP Permanent Flow Meter

This memo was revised on May 28, 2021. Changes to the memo include the removal of platform information and pricing estimates, as well as updates to manhole, meter, and electric installation costs.

The memo outlines the evaluation and recommendations of several operation alternatives to the sanitary sewer flow meter within the influent manhole located in the wetland area outside the fence line at the Ridley Creek Sewage Treatment Plant (RCSTP), in line with recommendations made in the RCSTP Monthly Operations Report, dated July 2020.

BACKGROUND

The RCSTP operation system utilizes five flow meters and four level sensors to measure and record wastewater flows entering the treatment plant, within the treatment process, and discharge into the receiving stream. The influent wastewater entering the treatment plant from the community, excluding any recycle wastewater flow, is used to measure the hydraulic loading reported in the annual Chapter 94 Report to the PA DEP. Over the years, the performance of the influent "field" flow meter used to measure the influent wastewater from the community has become inconsistent despite annual calibration. The measurements from this "field" flow meter have been exceeding the daily total flow volumes measured by the influent SBR and influent to the disc filter flow meters, which include the internal recycle flow from the disc filter backwash and sludge dewatering. "Field" flow measurements that exceed flow measurements into the SBRs equates to a "loss" of available hydraulic capacity for the addition of new customers or diversion of flow from West Goshen, and the possible perception of "lost" flow between the "field" and SBR flow meters. Therefore, accurate accounting of the influent wastewater hydraulic loading, excluding the recycle flows, is pertinent.

In May 2020, a portable flow meter was installed within the influent doghouse manhole, located inside the treatment facility fence line prior to the manhole entering the Screening Building, to gather daily flow volume measurements for comparison against the inconsistent "field" flow meter. The report described that the portable flow meter measurements were considerably lower compared to the "field," influent SBR, and influent to the disc filter flow meters. We anticipate that this is the result of the location of the portable flow meter. The location of the meter is not suitable because of the lack of straight length of influent pipe required for proper flow meter installation. As a result, the following alternative options for providing accurate flow measurements to report in Chapter 94 Reports include:

1. Do Nothing – Leave both flow meters as is.
2. Install a New Influent Flow Meter Chamber – Install a new influent flow meter chamber and manhole near/within the fence line, coupled with the location of the existing influent “field” and doghouse manholes, to provide metering exactly at the desired DEP location.
3. Reconfigure the Existing “Field” Flow Meter Manhole – Retrofit metering into the existing manhole by installing a flume and an ultrasonic flow meter above the flow channel to provide more reliable metering.
4. Install a Flow Meter for the Internal Recycle Flow – Install a flow meter prior to the influent pump wet well or at the entry point into the recycle flow chamber.

The attached Permanent Meter exhibit shows the existing doghouse manhole location and a possible proposed permanent influent metering manhole.

PRODUCTS

We evaluated different metering products, installations, and configurations to determine the most suitable metering device and installation type for the proposed locations. Additionally, the geometry of the existing sewer mains can impact the effectiveness and suitability of each metering device.

There are two primary styles of permanent metering devices, as well as several types of transducers within each style, for which we offer the following summary and evaluation:

1. In-Flow Sensors – These sensor types are mounted within a fully enclosed section of the sanitary pipe up- or down-stream of an existing manhole. These sensors make direct contact with the sanitary flow and measure depth, velocity, and temperature. Different sensor sub-types can be mounted to the bottom or top of the sanitary pipe. Sensor types include ultrasonic and pressure sensors.
 - o PROS:
 - Accurate and consistent measurements when flow height is within acceptable range.
 - Ability to cross check results by installing sensors both up- and down-stream of a manhole.
 - Installation does not necessarily require additional structures, such as manholes or drop-in flumes.
 - o CONS:
 - Devices mounted within an enclosed pipe section can be difficult to install and maintain due to tight access within the manhole and the need to bypass pipe sanitary flow for maintenance. Access into any manhole requires confined space entry procedures and safety concerns.
 - Devices in direct contact with sanitary flow are more susceptible to debris build-up blocking sensors.
 - These devices require a minimum flow depth to function properly and measure accurately.
 - Ultrasonic sensors require a water surface to determine flow height and will not function under surcharged conditions; therefore, an additional pressure sensor is required to determine flow height while surcharged.
 - Mounting bands can creep/drift downstream over time, reducing metering accuracy and increasing difficulty of maintenance.
 - Sensors must be calibrated to the existing pipe cross section dimensions and require re-calibration as standard maintenance.

2. Long-Range Sensors – These non-contact sensor types are mounted above the existing flow channel or above a flume within an existing or prefabricated manhole. Sensor types include ultrasonic and laser transducers. The laser style metering devices have a similar capability but at a cost of more than double the cost of the non-contact ultrasonic device.
 - o PROS:
 - Allows for installation of prefabricated drop-in flumes in order to establish precise channel cross sectional areas for device calibration.
 - Non-contact sensors are unaffected by sanitary flow debris under standard flow conditions.
 - o CONS:
 - Accuracy is susceptible to turbid flow when passing through existing worn manhole channels.
 - Not suitable for existing manholes with more than one inflow.
 - Laser sensors will not function in surcharged conditions and require an additional ultrasonic sensor with the added pressure sensor as a back-up during surcharged periods.

The long-range non-contact ultrasonic sensors are the most appropriate product for the proposed metering locations. This sensor style will measure both elevation and flow velocity under normal flow conditions, as well as surcharged conditions. This sensor can be installed within an existing or prefabricated manhole for ease of access and maintenance.

SITE GEOMETRY

Site geometry also plays a role in determining the applicability and effectiveness of each sensor type. While some sensors do advertise higher accuracy than others under turbulent conditions, the accuracy of all sensor types is affected by the turbulent flow through a manhole or pipe. Installing sensors in manholes with single channel flow and providing minimum lengths of straight pipe before and after the manhole can increase sensor accuracy. Installing drop-in flumes or prefabricated manholes will also improve sensor accuracy.

The existing manhole conditions and proposed metering locations generally precludes the use of an in-flow sensor due to the existing pipe angles and limited space. The site geometry and feasibility of the proposed alternative options are the following:

1. Do Nothing – This is not a viable option to provide for regulatory compliance.
2. Install a New Influent Flow Meter Chamber – Although there is limited available space with proximity to wetlands, installation of a new manhole and flow meter between the existing “field” flow meter manhole and the downstream doghouse manhole inside the fence line can be installed on the influent sewer outside of the fenced area and the wetlands. The pipe run entering the treatment plant site under the fence is approximately 70 linear feet in length allowing for enough space to install a new metering manhole 25 feet downstream of the upstream manhole where no bends/drops/etc. will be within 25 times the existing pipe diameter.
3. Reconfigure the Existing “Field” Flow Meter Manhole – The location of the existing manhole is within a wetland, making this location difficult to maintain and access. In addition, the existing manhole lacks straight channel flow and contains a secondary inflow channel, which will increase turbulence and significantly reduce the accuracy of any installed sensors. This location has proven to be both unreliable and inaccurate for gravity flow metering and has not been used for reasons noted.

4. Install a Flow Meter for the Internal Recycle Flow – There are significant bends in the upstream flow channels of the recycle line, which reduce the accuracy of any installed sensor. Where the channel is straight, there is little to no space for the installation of a meter due to the proximity of the screen building and influent wet well/valve chamber.

Therefore, as a result of these challenging geometries, we recommend the installation of a new influent flow meter chamber between the existing “field” flow meter and doghouse manholes.

RECOMMENDATIONS AND PRICING

Based on our evaluation of available products and the existing conditions of the “field” flow meter and doghouse manhole, we recommend the following products be considered for installation:

1. TRACOM prefabricated fiberglass manhole with dome top (for non-traffic areas), and integrated 18” Palmer-Bowlus flume
2. Teledyne Isco Signature Ultrasonic Flowmeter System
3. Teledyne Isco Model Ci LTE Cellular Modem Module

The prefabricated Palmer-Bowlus flume is available from TRACOM. The Palmer-Bowlus flume is recommended over a standard manhole channel for increased accuracy in metering. The Palmer-Bowlus flume is also recommended over a Parshall flume because a Parshall flume requires a drop in the channel elevation which cannot be provided when installing the manhole within the existing pipe slope.

The Teledyne Isco Signature Ultrasonic Flowmeter System, and all associated parts, come with a one-year warranty. HARTCO works with an Isco Factory Certified Flow Service Provider who can help calibrate the meters, provide training, and offer preventative maintenance and service agreements for an additional cost. For the East Goshen area, the Isco Factory Certified Flow Service Provider is WG Malden. The representative to contact is Bob Heine (717-629-2201; Rheine@wgmalden.com).

We requested additional quotes on January 29, 2021 for the proposed site to include a prefabricated manhole structure with dome top and an Isco Signature ultrasonic meter package. The estimated pricing only covers the material costs of the products. Labor and installation costs are not included. Purchase of a prefabricated manhole structure with a 14-foot depth will approximately cost \$16,500 (TRACOM Quote #091720S01M00). The Isco Signature meter package through HARTCO Environmental is approximately \$5,000 (HARTCO Quote #MGBOQ2355).

The installation will require excavation and backfill, reconnection of the existing sanitary sewer piping, electric power feeds routed to each location from an available local source, and bypass pumping during the installation. The installation when complete will include a new manhole and non-contact meter system with power feed, data monitoring through cellular network, and remote system data access for various flow measurements including instantaneous flow and totalized flow. The addition of an influent metering manhole will provide data for direct reporting needed for the PADEP annual report with improved reliability, accessibility and accuracy provided by the location, pipe configuration and equipment.

A breakdown of the material and estimated labor and installation costs are in the table below.

Site	Material Cost of Manhole	Material Cost of Meter	*Estimated Labor and Installation Cost	Estimated Total Cost
RCSTP Influent Meter	\$16,500	\$5,000	\$20,000	\$41,500

*Estimated Labor and Installation Cost includes the following estimates: Manhole Installation = \$13,000; Meter Installation = \$2,000; Electric Installation = \$5,000.

LIST OF ATTACHMENTS

- RCSTP Permanent Flow Meter Exhibit
- TRACOM Quote #091720S01M00: 14-foot Prefabricated Manhole Structure
- HARTCO Quote #MGBOQ2355: Signature Ultrasonic Meter Package
- Signature Ultrasonic Flowmeter Specifications





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sales@tracomfrp.com

6575-A Industrial Way - Alpharetta, Georgia 30004 - USA

QUOTATION # 091720S01M00

TO: East Goshen Township
1580 Paoli Pike
West Chester, PA 19380
ATTN: Mark Miller

SHIP TO: West Chester, PA
DATE: 1/28/2021
PROJECT: East Goshen Township
PREPARED BY: Sheldon Michael

ITEM	QTY	PART #	DESCRIPTION	PRICE
A	1	MH-4D-PB	Packaged Metering Manhole, 4'-0" diameter x 14'-0" deep	\$14,400
	1	COMP-4D	-Dome Top, fiberglass, for non-traffic area applications, 1000 lbs. top load	
	1	INST-PB18	-18" Palmer-Bowlus Flume, (Permanent) 4D+1" style, with: <i>-White interior Isophthalic gel coating, Gray exterior coating</i> <i>-Inlet and outlet end adapters</i>	
	2	70-18	-Pipe stubs, 18" diameter, FRP or PVC	
	2	72-18x18	-Flexible PVC boots (18" by 18")	
	1	ULT-FIXED-I	-Ultrasonic mounting bracket, fixed height, 304 S.S.	
	1	2"NPT	-2" NPT coupling	
	16	LADDER	-FRP ladder with reinforced ladder rungs having a photoluminescent non-slip top surface -Integral base mounting flange with polystyrene pad	

B	1	FREIGHT	Estimated Freight to: West Chester, PA	\$1,850

Quotation based upon: Email revision request from Erika Addison – 1/28/2021



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NOTES/EXCEPTIONS

General Notes

Prices: F.O.B. Factory, Freight Prepaid and Add, and Valid Only in the Quantities Shown.

Lead-time: Average lead time is 10-12 weeks. Actual lead-times may be longer or shorter due to order volume, size, and/or component lead-time. All lead times are ARO of approved submittals.

Proposal: In US dollars. Valid for thirty (30) days from the date of quotation and only with the FULL, UNALTERED ACCEPTANCE of the attached terms and conditions.

Terms: Payment upon shipment. Net 30 from date of shipment to approved accounts. Retainage is not allowed. Failure to pay within the terms will suspend the warranty and require a warranty reactivation fee.

Prices quoted are net to you, and do not include freight, installation, start-up assistance, taxes, or any items, goods or services not specifically listed, regardless of specification. Freight, if quoted, is an estimate only, actual freight charges will apply.

Orders canceled after release to production shall incur a minimum, non-refundable cancellation fee of 10% (\$100 minimum).

Address all purchase orders to:

Tracom, Inc.
6575-A Industrial Way
Alpharetta, Georgia 30004

Exceptions

-GENERAL EXCEPTION – This quote is per the Quotation based upon: section on the bottom of page 1.

-GENERAL EXCEPTION – Any items not included in the written scope listed below DESCRIPTION on page 1 is to be assumed as "BY OTHER". Examples include, but are not limited to: Engineering Services, Certifications, Accessories, Site-Services, Hard Copies of Submittals, Project Specific O&M Manuals (beyond Tracom's informational Submittal).



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TERMS AND CONDITIONS OF SALE:

1. **BUYER'S TERMS AND CONDITIONS:** Under no conditions shall any term or condition on Buyer's business form(s), that are inconsistent with the terms and conditions of TRACOM as expressed herein, be considered valid or part of any resulting contract, unless expressly agreed to in writing at the time of quotation by an authorized employee of TRACOM (the Seller).
2. **GOVERNING LAW, VENUE, AND JURISDICTION:** All purchase agreements shall be governed by and construed under the Uniform Commercial Code as adopted by the State of Georgia as effective and in force on the date of order acceptance. Both the Seller and the Buyer shall agree to the sole jurisdiction of the courts of the State of Georgia for any suit brought by either party.
3. **ACCEPTANCE OF PURCHASE ORDER:** No purchase order is considered to be valid unless accepted by an authorized employee of the Seller at its primary office location. The Seller may accept or decline purchase orders at its convenience, without recourse by the Buyer.
4. **FREIGHT:** All prices are in U.S. dollars, F.O.B. FACTORY with transportation charges prepaid and added, and valid only in the quantities quoted, unless expressly agreed to in writing at the time of quotation by an authorized employee of the Seller. The purchaser agrees that freight estimates given the Seller's employees are estimates only and that the purchaser is solely responsible for the payment of said freight charges unless expressly agreed to in writing at the time of quotation by an authorized employee of the Seller. The Buyer shall reimburse the Seller for all freight cost forthwith upon demand.
5. **TIME OF SHIPMENT:** The Seller provides estimated delivery dates only for the convenience of the customer. The Seller shall not be liable for any delay or failure to produce, process, ship, or deliver occasioned by Force Majeure to include all circumstance or actions beyond the Seller's direct and immediate control. The Seller is not relieved from making shipment or the Buyer from accepting delivery at the agreed upon price when the cause interfering with delivery is removed. If shipment of completed equipment or any completed part is delayed due to the Buyer's request, the Buyer is expected to make payment of all periodic or partial invoices. Risk of loss shall pass to the Buyer upon delivery to the carrier on shipments made F.O.B. Factory.
6. **BANKRUPTCY:** In the event that (a) the Buyer files a voluntary petition initiating any proceedings under the United States Bankruptcy Court with respect to itself; (b) Any involuntary petition initiating a proceeding under the United States Bankruptcy Court is filed against the Buyer and such petition is not dismissed within thirty (30) days; (c) The Buyer is adjudicated as bankrupt; (d) The Buyer makes and assignment for the benefit of its creditors or takes the benefits of any insolvency laws; (e) A receiver is appointed for the Buyer or for a substantial part of its property and such appointment is not discharged within sixty (60) days; (f) The Buyer shall admit in writing its inability to pay its debts generally as they come due; (g) Any governmental body or agency condemns or requisitions any significant asset of the Buyer; (h) The Buyer fails to post security requested by the Seller within fifteen (15) days after the request; or (i) the Buyer commits any breach of contract and fails to remedy such breach within seven (7) days after giving notice to thereof to the Seller, then in any and all such cases the Seller may by notice to the Buyer in writing, fax, cable or telegram cancel any existing or resulting contract so far as any future performance by the Seller is concerned but without prejudice to the rights and remedies provided by the State of Georgia to either party arising of any antecedent performance or breach.
7. **EXCLUSION OF CONSEQUENTIAL DAMAGES:** The Buyer specifically understands and agrees that under no circumstances shall the Seller be held liable for economic, special, incidental, or consequential damages or losses of any kind whatsoever, including but not limited to, loss of anticipated profits and any other loss caused by reason of the non-operation or late arrival of the goods. This exclusion is applicable to claims for breach of warranty, tortious conduct or any other cause of action against the Seller.
8. **TORT LIABILITY:** The Buyer specifically understands and agrees that the Seller and its officers, agents, and employees shall not be liable in tort-whenever based on negligence, strict liability, or any other theory of tort liability- for any action or failure to act in respect to the manufacturer, preparation for sale, sale, delivery, or servicing of the product(s). It is the parties' intent to absolve and protect the Seller and Seller's officers, agents, and employees from any and all tort liability.
9. **PRICES:** The price of goods shall be valid only as long as the term expressly stated on the quotation. In the event that the period of validity is not expressly stated in the quotation, the quotation shall be assumed to be in effect for thirty (30) days from the date of the offering.
10. **CANCELTION:** The Buyer may cancel their order by written notice at any time, provided that the Buyer pays cancellation charges based on the percentage of work completed. Orders cancelled after release to production shall incur a minimum non-refundable cancellation fee of 10% (\$100 minimum).
11. **RESTOCKING:** Those items deemed by the Seller to be either stock in nature or items with sufficient potential for resale may be considered for return by the Seller. Restocking charges shall be 15% for all stock items. The Seller shall be the sole determining party as to the stock nature or salability of its items. As such, restocking fees shall be determined solely by the Seller. Due to their customer nature, packaged metering manholes, buildings, and weir boxes shall not be returnable, unless with prior written consent of the Seller. Flumes exceeding common sizes (12" – Parshall, 18" – Palmer-Bowlus, 1.5' – H-flumes, Extra Large 60 Degree – Trapezoidal, 36" L – Cutthroat, 100mm – RBC) or flumes with optional equipment/accessories may be deemed to be custom in nature or of a sufficiently small market that they may be non-returnable or subject to additional restocking fees. The Buyer agrees to payment of all restocking or cancellation fees within the credit terms extended by the Seller. No items shall be returned by the Buyer without the express written consent of the Seller. The Buyer shall be responsible for the prepayment of all freight charges incurred during the return of all restocked items. Restocking fees shall not be applicable to freight or service charges already incurred by the Seller.
12. **THE EXTENSION OF CREDIT:** Credit shall be provided to the Purchaser solely at the discretion of the Seller. The Seller reserves the right to change payment terms at any time prior to shipment and/or invoicing.
13. **CREDIT, NON WAIVER:** If the Buyer fails to fulfill the terms of payment in every respect, the Seller is not obligated to make delivery and may resort to the remedies provided under the law or herein. The Seller reserves the right, previous to making delivery, to require from the Buyer satisfactory security performance of the Buyer's obligations.



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14. **ORDER DISCREPANCY:** In the event that the Buyer discovers any discrepancies with the order, receives any incorrect merchandise, or finds that goods are damaged; the Buyer agrees to complete and return the Order Discrepancy Form (OD-F) to the Seller within twenty-four (24) hours of receipt. The Buyer shall be solely responsible for contacting and making arrangements with the freight company for inspection of the goods, and if necessary filing a claim for damage. The Buyer further agrees to notify the Seller within ten (10) days of receipt of any shortage or inaccuracy in the order. In the event that the Buyer does not notify the Seller within the ten (10) day period, any repair, replacement, or correction of the delivered goods shall be at the discretion and pleasure of the Seller. The Buyer understands and agrees that the Seller is not responsible for the correction of order discrepancies brought to the Seller's attention after the ten (10) day notification period has passed. The Buyer shall be liable, after the notification period, for any and all freight charges to the Seller's facility in the event that the Seller allows repair, replacement, or correction. The Seller's Standard Statement of Warranty (W-F) shall govern warranty repair or replacement of merchandise.

15. **INVOICING AND BILLING:** For purposes of invoicing and billing, each shipment hereunder shall be treated as a separate and independent contract.

THE INVOICE DUE DATE SHALL BE CALCULATED FROM THE DATE THE TIME IS TRANSFERRED TO THE FREIGHT CARRIER (OR THE DATE OF COMPLETION IF THE CUSTOMER IS TO ARRANGE PICK-UP). NO OTHER TIMEFRAME SHALL APPLY.

POSTDATED, UNSIGNED, OR INCORRECT PAYMENTS SHALL NOT BE ACCEPTABLE.

Payment must be received at TRACOM, Inc.'s office by the due date of the invoice. Payment must be correct, complete, and unencumbered. Interest penalties shall accrue until the payment is correct, complete, and unencumbered.

16. **RETAINAGE:** As a standard, the Seller does not accept retainage on any order issued by the Purchaser. In the event that the Seller accepts retainage, acceptance must be in writing and accompanied by a definite and mutually agreed upon method of execution to be considered to be in effect.
17. **LATE PAYMENT AND COLLECTION:** The Buyer agrees to pay in full any and all late charges as outlined below and in any manner reasonably requested by the Seller or the Seller's agents:
- a. Accounts will accrue late charges in the amount of 1 1/2 percent per month (or portion thereof) that the complete sale price (including freight) has not been executed
 - b. All delinquent accounts shall be forwarded to **Dun and Bradstreet Receivables Management Service** for collection
 - c. The Purchaser shall be solely responsible for any and all outstanding invoice amount plus any and all reasonable collection charges as stated herein.
 - d. Collection charges shall be determined by the following fee schedule:

<u>Collection Rate</u>	<u>Age (Days) of Oldest Invoice</u>
8%	1-119
14%	120-179
22%	180-269
30%	270-359
33 1/3%	360 plus

- e. The minimum charge is \$100.00.
- f. In the event that attorney intervention is required in the collection of the account, additional charges set by Dun and Bradstreet will apply.

18. **WARRANTY:** Seller warrants equipment per the Statement of Warranty Form in effect at the time of order. Damage during transit to the point of delivery must be claimed within the time frame and in the manner expressed in the Order Discrepancy Form (OD-F) provided with the packing list. Failure to file claims within the time frame and in the manner expressed in the Order Discrepancy Form may result in claims being waived. Damage due to improper storage, subsequent reshipment, transportation, or movement of the unit shall not be warranted.

FAILURE TO PAY WITHIN THE PAYMENT TERMS EXTENDED BY TRACOM WILL SUSPEND THE TERMS OF THE WARRANTY AND SHALL RESULT IN THE NOTIFICATION OF ALL AFFECTED PARTIES.

Should payment become greater than 28 days past due, reestablishment of the warranty shall require a warranty fee of 1% of the invoice amount per week (or portion thereof) beyond 28 days past due.

QUOTATION



Reference: REV.1

Quotation Number
(Please refer to this number when ordering)

Number MGBOQ2355

Date Jan 29, 2021

East Goshen Township
Mark Miller
1580 Paoli Pike
West Chester, PA 19380

Phone (610) 692-8950
Fax

Please Address Purchase Order To:

Teledyne Isco
4700 Superior Street
Lincoln, NE 68504

Isco Phone (800) 228-4373

Hartco Phone (856) 324-0165
Fax (856) 324-0176

Line	Qty	Catalog Number	Description	Unit Price	Ext. Price
1	1	684310000	Signature® Ultrasonic flowmeter system. Starting price includes base station 624300005, TIENet 310 ultrasonic level sensor with 32.8 ft (10 m) cable, and coupon for ISCO Open Channel flowmeter Handbook. The price will change as configured options are added to meet customer specifications. Configured options may include mounting hardware, cable lengths, power, I/O, interfaces, communication, totalizer, and rain gauge connector.	\$3,550.00	\$3,550.00
2	1	604307015	Battery backup kit for Signature® meter. Includes model 946 lead-acid battery, adapter cable, and mounting hardware.	\$329.00	\$329.00
3	1	604304044	Power cord, 8 foot (2.5 m) long, for North America. Includes cord grip fitting (604304022).	\$29.00	\$29.00
4	1	604307104	Ci LTE cellular modem with magnetic mount antenna for Signature® meter. Serial-Over-Internet-protocol (SOIP) technology eliminates need for computer telephone modems. Requires Verizon service. Contact the factory for details regarding Verizon service requirements.	\$1,038.00	\$1,038.00
5	1	FC5	\$2500.00 - \$4999.99	\$70.00	\$70.00
Total					\$5,016.00

**Teledyne
Isco**

Teledyne Isco
4700 Superior Street
Lincoln, NE 68504-1398

Phone: (800) 228-4373
Phone: (402) 464-0231
Fax: (402) 465-3022

Federal I.D. No.: 95-4888283
Duns No.: 07-832-7063

Terms & Conditions

Prices are F.O.B Factory - prepaid and Added.
Charges for expedited or premium transportation shall be for
the account of the purchaser.
Estimated shipment 2 week(s) after receipt of order.
Prices include packing for domestic shipment.
Any applicable sales tax is not included unless noted.

These prices are valid for 30 days.

By: _____

Matt Gurkin

Manager

Please contact me if I can be of further assistance.

**Teledyne
Isco**

Teledyne Isco
4700 Superior Street
Lincoln, NE 68504-1398

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Federal I.D. No.: 95-4888283
Duns No.: 07-832-7063

Signature® Flow Meter Expansion Box

Custom Networking for Your Site Needs

Application Note



Expertise in Flow

Signature® Flow Meter



Standard Features:

- Multi-parameter data logging
- Program & summary reports
- Data integrity verification
- Triggering, sampler enabling
- Compatible w/ Flowlink® software
- Multiple simultaneous flow technologies
- pH and temperature input
- SDI-12 input
- RS-485 input
- RS-485 output
- Analog outputs
- Remote communication via cell phone or Ethernet

TIENet™ Expansion Box



- Rated IP67 (NEMA 4X, 6) w/ appropriate ID conduit connection, cord-grip fittings, or plugs
- Up to 3 TIENet terminal connections
- Option card mounting

TIENet™ 308 4-20mA 2-Channel Analog Output Card



"The Future of Flow!"

Flow monitoring site requirements can often call for cable connections that are different from the available standard cable lengths of the devices.

The optional water-tight Signature Expansion Box enables a variety of configurations for adding length, as well as connecting multiple devices at once. The Expansion Box connects to a TIENet™ terminal strip in the Signature, and contains three additional strips inside, as well as a TIENet connection for an option card.

Adding Length Between Signature and Sensors

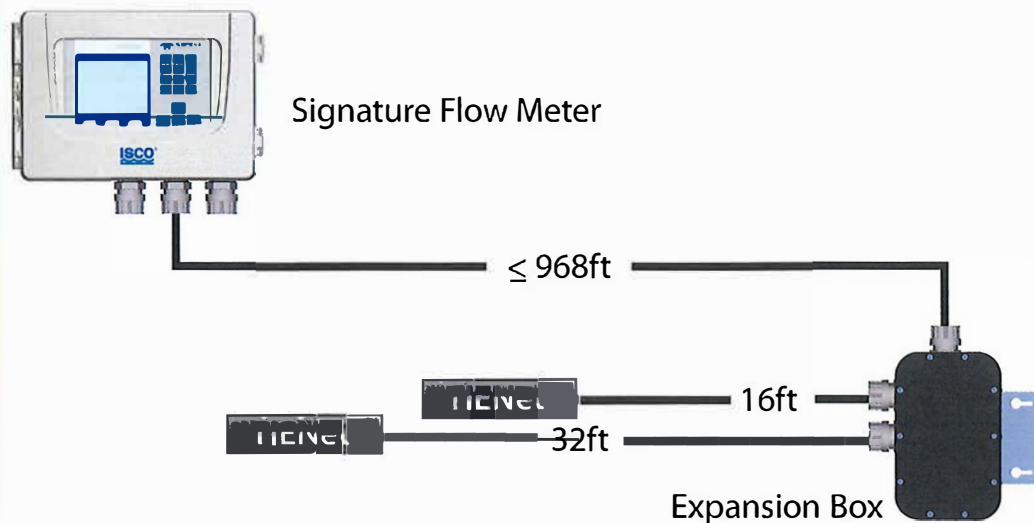
Distance can be increased by installing the Expansion Box closer to the field-mounted TIENet device(s) and adding a custom-length TIENet cable between the box and the Signature. The maximum recommended distance between the LaserFlow sensor and its power source is 45.7 meters (150 feet). The maximum recommended distance between all other system components is 305 meters (1,000 feet). Longer distances may result in signal degradation and drops in voltage.

The exception to this rule is the internally mounted TIENet 308 Analog Output Card, which can operate at up to 914 meters (3,000 feet) from the next device, for a maximum total of 1,219 meters (4,000 feet).

A Signature flow monitoring system can include up to nine TIENet™ devices connected to one Signature Flow Meter. When calculating the length of bulk cable required, factor in the length of the longest sensor cable.



TIENet Device	Standard Cable Length
301 pH Device	5m, 10m, 23m
310 Ultrasonic Sensor	16ft, 32ft, 75ft
306 Sampler Interface	5m, 10m, 23m
360 Laser Velocity Sensor	16ft, 32ft, 75ft
350 Area Velocity Sensor	5m, 10m, 23m 16ft, 32ft, 75ft LaserFlow surcharge kit: 350 w/ 2ft cable & TIENet plug



☒ Note

Cabling should be kept as short as possible in all installations.

Area Velocity Applications

Signature systems using the expansion box with the TIENet 350 Area Velocity sensor must have a means to vent the sensor's reference air line.

Distance of 100 Feet or Less:

If the total distance is 30.5 meters (100 feet) or less, the Signature's air system will normally supply adequate desiccated air through the TIENet cable air line to the interior of the expansion box. This means the 350 AV sensor is referenced at the Signature's installation location.

The un-vented TIENet expansion box can be used for these applications.

Distances Greater than 100 Feet:

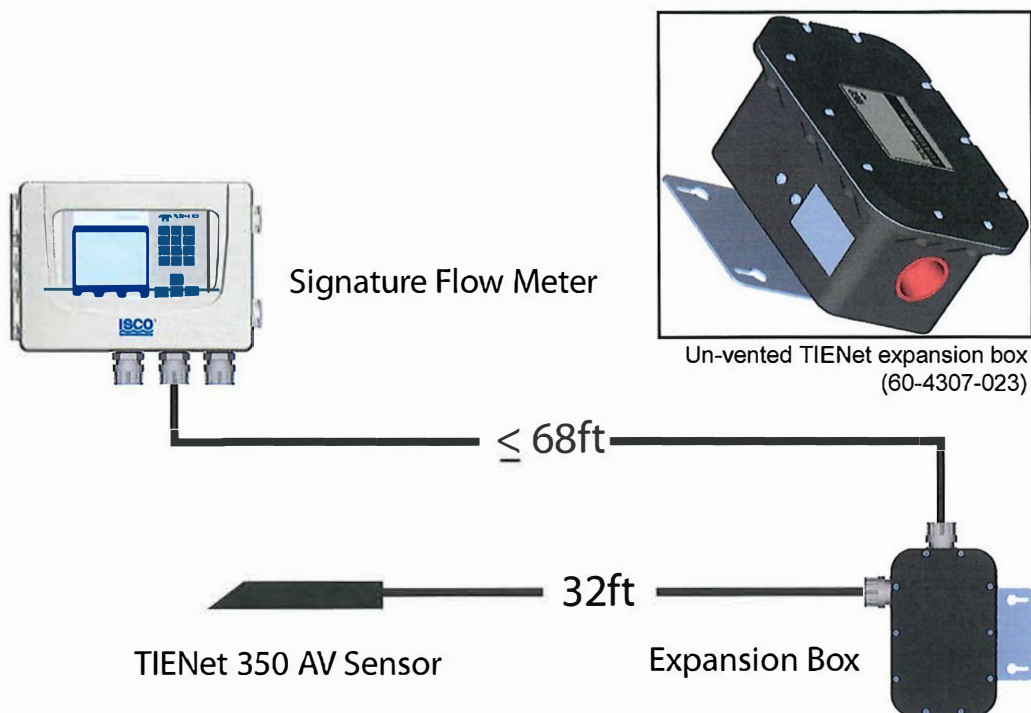
If the total distance is greater than 30.5 meters (100 feet), or a different reference location is required, the reference air line must be vented outside the expansion box.

The TIENet expansion box with reference air is designed for this purpose. The desiccator tube mounted on the side vents dried air to its interior.

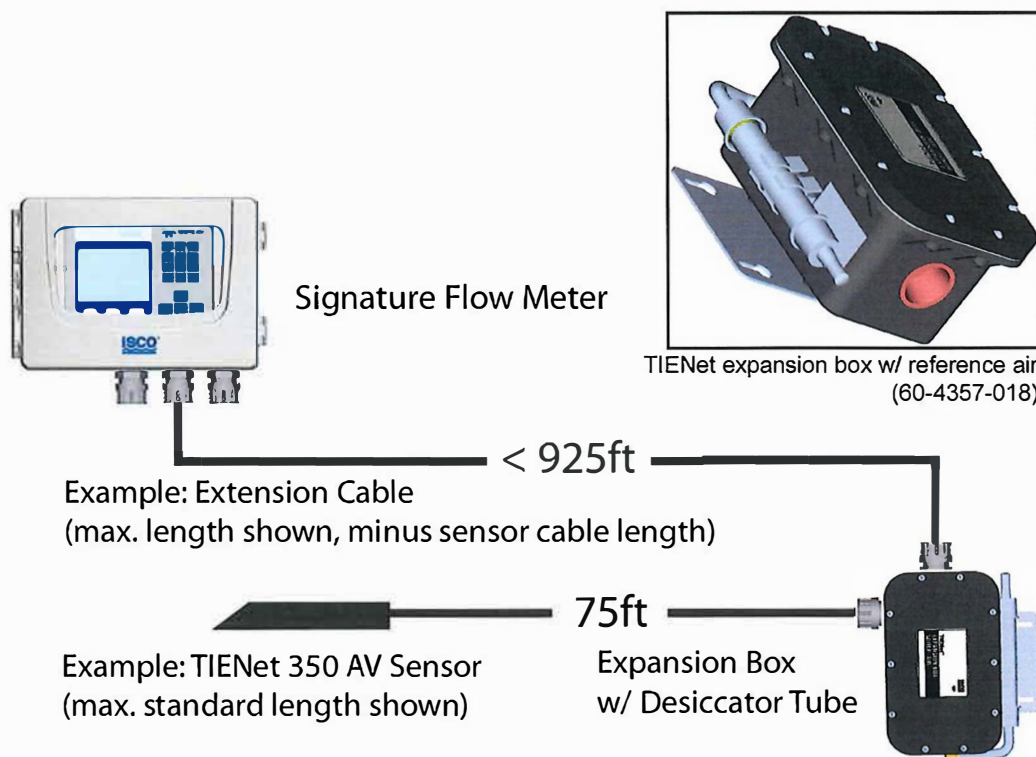
Surcharge Option for LaserFlow™

When configuring extended distances for a LaserFlow system with the optional surcharge kit installed, factor in the length of both the LaserFlow sensor cable, and the 2-foot terminated 350 AV sensor cable.

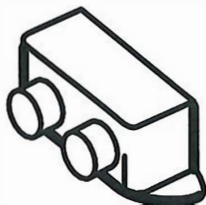
Distance of 100ft or less: Normal venting inside the Signature Flow Meter.



Distance of 100 to 1,000 ft or different reference location: Vent outside the box.



**External TIENet™ Devices from
Teledyne Isco:**



301 pH Device



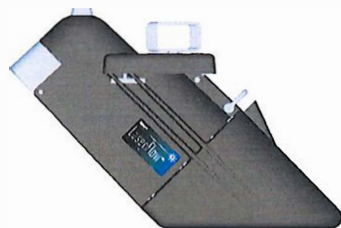
306 Sampler Interface



310 Ultrasonic Level Sensor



350 Area Velocity Sensor

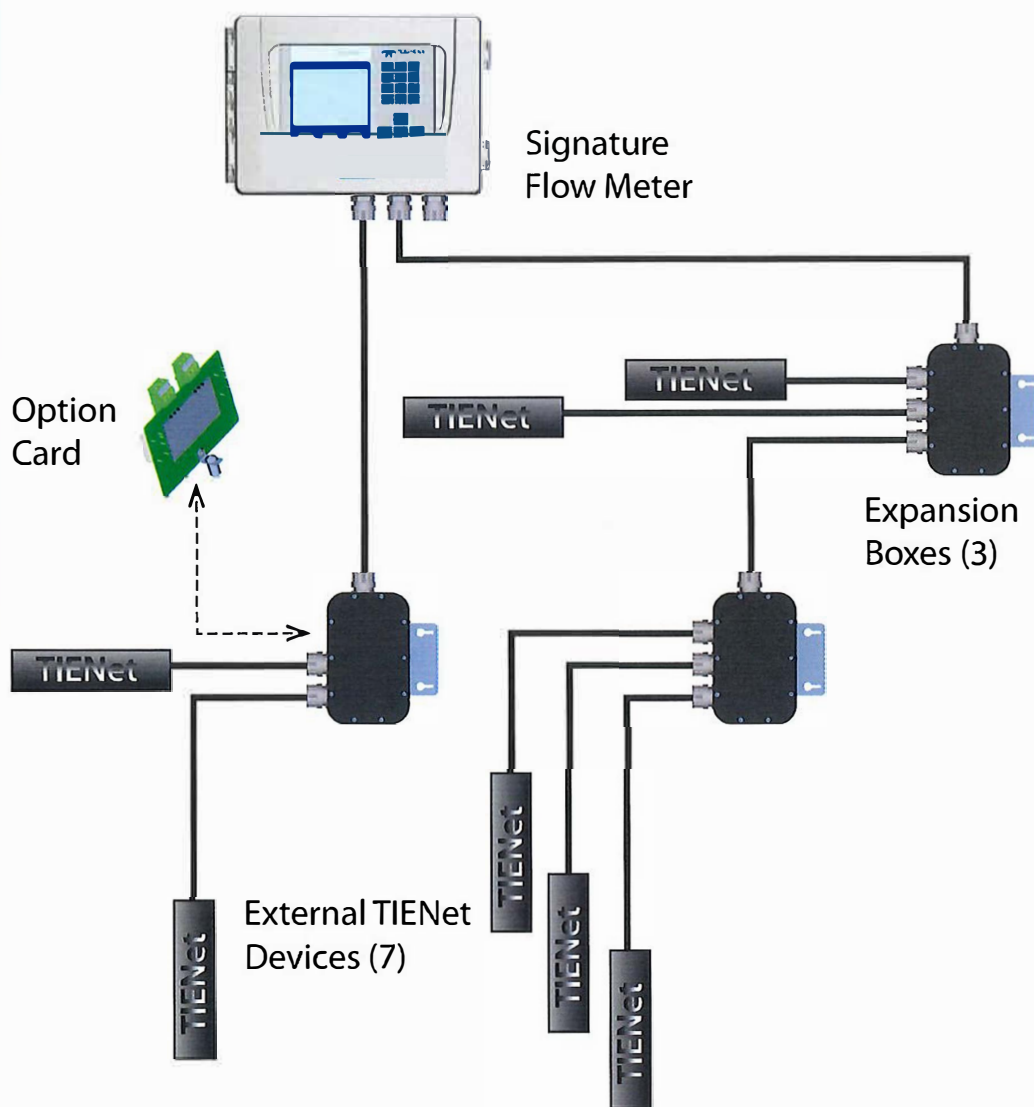


360 LaserFlow Velocity Sensor

Configuring Multiple TIENet Devices

As mentioned earlier, the Signature Flow Meter can have up to 9 connected TIENet devices running independently and simultaneously, including the internal 300 circuit board (all Signature flow meters), internal option cards, and 330 Bubbler Module.

Depending on the needs of the monitoring site, multiple expansion boxes can be used to connect multiple devices, creating any number of possible daisy-chain configurations.



Teledyne Isco

P.O. Box 82531, Lincoln, Nebraska, 68501 USA
USA & Canada: (800) 228-4373 • Phone: (402) 464-0231 • Fax: (402) 465-3091
Web site: www.isco.com • E-mail: IscoInfo@teledyne.com

Teledyne Isco is continually improving its products and reserves the right to change specifications without notice.
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BOARD OF SUPERVISORS
EAST GOSHEN TOWNSHIP
CHESTER COUNTY
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

FYI

May 27, 2021

Dear Property Owner:

The purpose of this letter is to inform you that East Goshen Township has received a Zoning Hearing Board Application for 14 Reservoir Rd., West Chester PA 19380. The property owners, Jeffery and Michelle Glosson (Applicant), are seeking dimensional relief from the Township Zoning ordinance regulating "Flag Lots".

The applicant proposes to subdivide the property and create a Flag Lot and to develop that lot with a new single family home. In order to do that, the applicant needs a variance from the Township Zoning Ordinance.

The applicant is specifically seeking relief from §240-23.B(2)(b)[2][e], which requires a minimum width of 40 feet for the "Flag Pole" portion of the flag lot. The applicant is requesting a flag pole width of 24 feet; 16 feet of relief from the requirement. The proposed flag lot meets all other zoning requirements.

Pursuant to Township policy, property owners within 1000 feet of the subject property are notified when Zoning Hearing Board applications are received.

All property owners within 1000 feet of the property are notified of these types of applications. **The scheduled public meetings for review and potential approval of this application are as follows, AND ARE SUBJECT TO CHANGE WITHOUT ADDITIONAL WRITTEN NOTICE:**

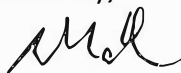
June 2, 2021 - Planning Commission meeting (7:00 pm, virtually via ZOOM)

July 6, 2021 - Board of Supervisors meeting (7:00 pm, virtually via ZOOM)

July 15, 2021 - Zoning Hearing Board hearing (7:00 pm, in-person at the TWP Building)

The ZOOM meeting information for the June 2nd and July 7th meetings will available on the Township website prior to those meeting dates, go to www.eastgoshen.org to find that information. **The application materials are available at the Township building for review during normal business hours.** Call the Township if you have questions on how to observe or participate in the meetings and or the hearing.

Sincerely,



Mark A. Gordon
Township Zoning Officer



The Authorities

PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOCIATION

FYI

Notification of Voter Delegate

TO: PMAA Member Authorities

FROM: Douglas E. Bilheimer
Executive Director

DATE: June 7, 2021

The PMAA Board of Directors' voted April 18, 1994, to implement, by its resolution, certain administrative recommendations set forth by the PMAA By-Law Revision Committee. These do not require prior amendment of the By-Laws because the existing By-Laws (Article IX, Sections 1 and 2) do provide the basic authorization for voting at meetings: one vote per active member to be cast by a delegate chosen by its own board of directors. The procedures approved by the Board are as follows:

1. Fifteen days before the meeting, each member authority will notify the Executive Director of the name of its official voting at the meeting and also the name of an alternate delegate, both of whom have been approved by the members' Board of Directors. The delegates shall either be an elected or an appointed official of the applicable authority.
2. As part of the registration procedure at the Annual Meeting, the named delegate shall be handed a "card", which he or she may hold up to cast the vote of that authority. It shall be the responsibility of each delegate, in the event he or she is not on the floor, to hand the card to the appropriate alternate delegate.
3. The presiding officer at the Annual Meeting shall have the discretion in each vote to designate voting by voice, by a show of delegate cards, or by written ballot, unless upon motion duly made and adopted the Body itself votes to require written ballots.
4. In pursuance of the powers of the presiding officer, the President may designate a time limit for floor remarks by each person speaking, which shall be stated by the presiding officer at the opening of the meeting.

Please note, this form **does not** need returned to our office if no one from your authority is attending the conference.

DEB/kaw
Attachment

Notification of Voting Delegate & Alternate

Our Authority's Board of Directors hereby name the following individuals to serve as Voting Delegate and Alternate Delegate:

Voting Delegate

Name: _____

Title: _____

Alternate Delegate

Name: _____

Title: _____

Authority submitting this information:

Authority: _____

Address: _____

City: _____ State: _____ Zip: _____

Designated Voting Delegate or Alternate Delegate will receive an identification card at the Registration Booth at the PMAA Annual Conference.

**Please note this form must be returned to the
PMAA office by Friday, August 20, 2021.**



The Authorities

PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOCIATION

FYI

A u t h o r i t y M e m b e r

Are you taking full advantage of your PMAA membership?

Your authority currently participates in one or more of our endorsed programs. Authorities participating in all group programs will save thousands of dollars. Savings gained by participation in the PMAA endorsed programs, will offset your PMAA dues and result in significant additional savings.

- **PMAA Unemployment Compensation Trust**

The average authority participating in this program saves \$400 annually per employee. How many employees do you have? Join the over 270 authorities participating in the PMAA UC plan.

- **The PMAA Insurance Trust**

Is a customizable Life and Disability plan with flexibility and higher benefit levels. Authorities participating in our program see an average annual savings of between 10-30%, versus their current insurance broker.

- **Kinect Energy Group**

Savings are accrued by negotiating the most favorable contract language on your authority's energy usage.

- **PennBid**

For authorities using PennBid, the cost savings range between 60-80% of the bid management costs incurred during the traditional paper-based process.

- **1MARK**

A web-based solution that provides authorities with a low-cost, monthly subscription plan for managing PA-1 Call tickets. Your authority can save more than \$1,500 annually.

- **Municipal Risk Management (MRM Inc.)**

This insurance program has been providing Workers Comp coverage as well as Property, Casualty and Liability options to authorities for over three decades.

- **PA Local Government Investment Trust (PLGIT)**

A money market trust fund administered by, and for, local government units. Daily liquidity, no minimums, a proven competitive rate of return, and no service charges or fees are just some of the benefits that are offered. With PLGIT there are zero out-of-pocket fees for most services and zero hidden costs.

Over the next few months we have scheduled webinars to educate you about these programs and relay how each one saves Authority dollars. Presented from 1:00-2:00 PM on the following dates, free of charge. To register, visit our website: municipalauthorities.org/events

- | | |
|--------------------------------|---|
| - May 26 th – | Municipal Risk Management (MRM) & National Insurance Services (NIS) |
| - June 30 th – | Kinect Energy & 1Mark |
| - July 28 th – | PA Local Government Investment Trust (PLGIT) & PennBid |
| - September 22 nd – | PMAA Unemployment Compensation Trust |

Sincerely,

Michael T. Baer

1000 North Front Street, Suite 401, Wormleysburg, PA 17043
717-737-7655 • 717-737-8431 (f) • info@municipalauthorities.org

m u n i c i p a l a u t h o r i t i e s . o r g