

EAST GOSHEN MUNICIPAL AUTHORITY

March 14, 2022

7:00 PM

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE

- a. Ask if anyone will be taping the meeting

2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS

3. SEWER REPORTS

- a. Director of Public Works Report.
b. Penmoni Engineer's Report.
c. Big Fish Environmental Report

4. APPROVAL OF MINUTES

- a. February 14, 2022

5. APPROVAL OF INVOICES

DRBC Invoice #222169	\$	666.00 Pd 3/8/22
Kappe Assoc. #21-554-M	\$	6,831.00 Pd 3/8/22

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. February Financial Report

8. OLD BUSINESS

- a. Sewer Extension Study

9. 2021 Goals:

Goal	Status
Ridley Creek Plant Compliance	January & February were in compliance and met all requirements.
Continue to Monitor Upgrades at WGSTP and Westtown Way Pump Station	On – going
Continue to Implement Infiltration and Inflow for the Sewer System	On-going
Caustic Soda Project	Mike Ellis is vetting the suppliers
Replace sewer line Hershey Mill Estate trunk line replacement	Engineer will bring you up to date under old business. Public Works dug test holes for Pennoni 12-6-2021
Hunt Country Pump Station Mag Meter	On Hold
Hunt Country Pump Station Muffin Monster Replacement	On Hold
Hunt Country Pump Station Bypass Pump	On Hold
Three new meters for Ridley Creek Collection	Hibberd Lane is on line. Ridley Creek Plant is the next meter, in the process of replacing the meter at the plant. <ul style="list-style-type: none"> Ridley Meter and manhole have been ordered (Delivery 3 months)

10. NEW BUSINESS

- a. Consideration of approval of the Glasco UV system quote
- b. Consideration to advertise for the HME Sewer Replacement
- c. Aqua PA. Wastewater purchase of East Whiteland Twp. Wastewater system

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

To: Municipal Authority
From: Mark Miller
Re: March 9, 2022 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 690.638 per day.

Meters: The meters were read on a daily basis.

C.C. Collection: The pump stations were visited on a daily basis. We pumped the wet wells down and cleaned the wet well walls, we had a vac truck come in and vac out the wet wells.

Aqua's contractor struck three laterals. Public Works responded and made the repairs. We televised each lateral before we made the repair.

R.C. Collection: The stations were checked on a daily basis. The wet wells were cleaned and vacuumed out.

Ridley Creek Plant: We did a thorough cleaning of the facility. We had to replace a heater in the SBR building.

I asked John Laidley to look at the main control panel at the plant to see what spare electronic parts are needed (attached). I have asked John to order the ones that are most important. We will start slowly ordering the parts.

Alarms: We responded to 17 alarms for February.

PA One Calls: We responded to over 29 PA One Calls for the month February.

Monthly Rainfall: 3.42 inches of rain for the month of February.

Lateral repairs or Caps: 10 caps were replaced in February.

EAST GOSHEN - RIDLEY CREEK WWTP
 Allen Bradley - PLC Spare Parts Inventory

	ITEM #	SYSTEM <u>COUNT</u>	<u>QUANTITY</u>
CPU 5/05	199	9	1
DIGITAL INPUT	76	12	1
DIGITAL OUTPUT	116	2	1
ANALOG INPUT	99	2	1
ANALOG OUTPUT	774	3	2
POWER SUPPLY	134	5	1
POWER SUPPLY	132		1
DIGITAL INPUT	73	14	1
DIGITAL OUTPUT	127	9	1
ANALOG INPUT	101	3	1
ANALOG OUTPUT	121	4	Obsolete <i>order</i>
DIGITAL OUTPUT	130	2	1
UPS	308	2	1
UPS	102	1	1
ANALOG INPUT	102	2	1
BACKUP SCANNER		2	Obsolete <i>order</i>
ADAPTER		1	Obsolete <i>order</i>
TOTAL			45,240.11

2/15/2022

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CONFINED SPACE HAZARDOUS AREA

PERMIT VALID FOR 8 HOURS ONLY. ALL COPIES OF PERMIT WILL REMAIN AT JOB SITE UNTIL JOB IS COMPLETED.

SITE LOCATION and DESCRIPTION BARKWAY

PURPOSE OF ENTRY WET WELL CLEANING

SUPERVISOR(S) in charge of crews <u>L MILLER</u>	Type of Crew <u>Public works</u>	Phone # <u>610-656-9482</u>
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*DENOTES MINIMUM REQUIREMENTS TO BE COMPLETED AND REVIEWED PRIOR TO ENTRY *

COMMUNICATION PROCEDURES

RESCUE PROCEDURES (PHONE NUMBERS AT BOTTOM)

REQUIREMENTS COMPLETED	DATE	TIME	REQUIREMENTS COMPLETED	DATE	TIME
<input type="checkbox"/> Lock Out/De-energize/Try-Out	___	___	<input checked="" type="checkbox"/> Full Body Harness w/ "D" ring	<u>2/15</u>	<u>7:25</u>
<input type="checkbox"/> Line(s) Broken - Capped - Blanked	___	___	<input checked="" type="checkbox"/> Emergency Escape Retrieval Equipment	<u>2/15</u>	<u>7:25</u>
<input type="checkbox"/> Purge - Flush and Vent	___	___	<input checked="" type="checkbox"/> Lifelines	<u>2/15</u>	<u>7:25</u>
<input checked="" type="checkbox"/> Ventilation	<u>2/15</u>	<u>7:25</u>	<input checked="" type="checkbox"/> Fire Extinguishers	<u>2/15</u>	<u>7:25</u>
<input type="checkbox"/> Secure Area (Post and Flag)	___	___	<input checked="" type="checkbox"/> Lighting (Explosive Proof)	<u>2/15</u>	<u>7:25</u>
<input type="checkbox"/> Breathing Apparatus	___	___	<input checked="" type="checkbox"/> Protective Clothing	<u>2/15</u>	<u>7:25</u>
<input type="checkbox"/> Resuscitator - Inhalator	___	___	<input type="checkbox"/> Respirator(s) (Air Purifying)	___	___
<input checked="" type="checkbox"/> Standby Safety Personnel	<u>2/15</u>	<u>7:25</u>	<input type="checkbox"/> Burning and Welding Permit	___	___

Note: Items that do not apply enter N/A in the blank.

** RECORD CONTINUOUS MONITORING RESULTS EVERY 2 HOURS

CONTINUOUS MONITORING** TEST(S) TO BE TAKEN	PERMISSIBLE ENTRY LEVEL	MONITORING RESULTS					
		7:25	7:40	7:55	8:07		
<input type="checkbox"/> Percent of Oxygen	19.5% to 23.5%	<u>20.8</u>	<u>20.8</u>	___	___	<u>20.8</u>	<u>20.8</u>
<input type="checkbox"/> Lower Flammable Limit	Under 10%	___	___	___	___	___	___
<input type="checkbox"/> Carbon Monoxide	+35 PPM	<u>0</u>	<u>0</u>	___	___	<u>0</u>	<u>0</u>
<input type="checkbox"/> Aromatic Hydrocarbon	+ 1 PPM * 5 PPM	___	___	___	___	___	___
<input type="checkbox"/> Hydrogen Cyanide	(Skin) * 4 PPM	___	___	___	___	___	___
<input type="checkbox"/> Hydrogen Sulfide	+10 PPM * 15 PPM	<u>0</u>	<u>0</u>	___	___	<u>0</u>	<u>0</u>
<input type="checkbox"/> Sulfur Dioxide	+ 2 PPM * 5 PPM	<u>0</u>	<u>0</u>	___	___	<u>0</u>	<u>0</u>
<input type="checkbox"/> Ammonia	* 35 PPM	___	___	___	___	___	___

* Short-term exposure limit: Employee can work in the area up to 15 minutes.

+ 8 hr. Time - Weighted Avg.: Employee can work in area 8 hrs (longer with appropriate respiratory protection).

REMARKS: _____

GAS TESTER NAME & CHECK# <u>MARK VITANZA</u>	INSTRUMENT(S) USED <u>MSA 4602</u>	MODEL &/OR TYPE	SERIAL &/OR UNIT# <u>8/9</u>
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X CONFINED SPACE _____ HAZARDOUS AREA

PERMIT VALID FOR 8 HOURS ONLY. ALL COPIES OF PERMIT WILL REMAIN AT JOB SITE UNTIL JOB IS COMPLETED.

SITE LOCATION and DESCRIPTION Asphalt Pump Station

PURPOSE OF ENTRY Wet well cleaning

SUPERVISOR(S) in charge of crews Steve Bond Type of Crew Public works Phone # 616-692-7171

***DENOTES MINIMUM REQUIREMENTS TO BE COMPLETED AND REVIEWED PRIOR TO ENTRY ***
COMMUNICATION PROCEDURES

RESCUE PROCEDURES (PHONE NUMBERS AT BOTTOM)

REQUIREMENTS COMPLETED	DATE	TIME	REQUIREMENTS COMPLETED	DATE	TIME
<input type="checkbox"/> Lock Out/De-energize/Try-Out	_____	_____	<input checked="" type="checkbox"/> Full Body Harness w/ "D" ring	<u>2/15</u>	<u>9:35</u>
<input type="checkbox"/> Line(s) Broken - Capped - Blanked	_____	_____	<input checked="" type="checkbox"/> Emergency Escape Retrieval Equipment	<u>2/15</u>	<u>9:35</u>
<input type="checkbox"/> Purge - Flush and Vent	_____	_____	<input checked="" type="checkbox"/> Lifelines	<u>2/15</u>	<u>9:35</u>
<input checked="" type="checkbox"/> Ventilation	<u>2/15</u>	<u>9:35</u>	<input checked="" type="checkbox"/> Fire Extinguishers	<u>2/15</u>	<u>9:35</u>
<input type="checkbox"/> Secure Area (Post and Flag)	_____	_____	<input checked="" type="checkbox"/> Lighting (Explosive Proof)	<u>2/15</u>	<u>9:35</u>
<input type="checkbox"/> Breathing Apparatus	_____	_____	<input checked="" type="checkbox"/> Protective Clothing	<u>2/15</u>	<u>9:35</u>
<input type="checkbox"/> Resuscitator - Inhalator	_____	_____	<input checked="" type="checkbox"/> Respirator(s) (Air Purifying)	<u>2/15</u>	<u>9:35</u>
<input checked="" type="checkbox"/> Standby Safety Personnel	<u>2/15</u>	<u>9:35</u>	<input type="checkbox"/> Burning and Welding Permit	_____	_____

Note: Items that do not apply enter N/A in the blank.

**** RECORD CONTINUOUS MONITORING RESULTS EVERY 2 HOURS**

CONTINUOUS MONITORING** TEST(S) TO BE TAKEN	PERMISSIBLE ENTRY LEVEL	MONITORING RESULTS					
<input checked="" type="checkbox"/> Percent of Oxygen	19.5% to 23.5%	<u>20.9</u>	<u>20</u>	<u>20.8</u>	_____	_____	_____
<input type="checkbox"/> Lower Flammable Limit	Under 10%	_____	_____	_____	_____	_____	_____
<input checked="" type="checkbox"/> Carbon Monoxide	+35 PPM	_____	_____	_____	_____	_____	_____
<input type="checkbox"/> Aromatic Hydrocarbon	+ 1 PPM * 5 PPM	_____	_____	_____	_____	_____	_____
<input type="checkbox"/> Hydrogen Cyanide	(Skin) * 4 PPM	_____	_____	_____	_____	_____	_____
<input checked="" type="checkbox"/> Hydrogen Sulfide	+10 PPM * 15 PPM	_____	<u>0</u>	<u>0</u>	_____	_____	_____
<input checked="" type="checkbox"/> Sulfur Dioxide	+ 2 PPM * 5 PPM	<u>0</u>	<u>0</u>	<u>0</u>	_____	_____	_____
<input type="checkbox"/> Ammonia	* 35 PPM	_____	_____	_____	_____	_____	_____

* Short-term exposure limit: Employee can work in the area up to 15 minutes.
+ 8 hr. Time - Weighted Avg.: Employee can work in area 8 hrs (longer with appropriate respiratory protection).

REMARKS: _____

GAS TESTER NAME & CHECK#	INSTRUMENT(S) USED	MODEL &/OR TYPE	SERIAL &/OR UNIT#
<u>Dusty Kilgore</u>	<u>Mettler 4000</u>	_____	_____

SAFETY STANDBY PERSON IS REQUIRED FOR ALL CONFINED SPACE WORK

SAFETY STANDBY PERSON(S)	CHECK #	CONFINED SPACE ENTRANT(S)	CHECK #
<u>Mike Ennis</u>	_____	<u>Camera Spencer</u>	_____
<u>Mark Vitapuzza</u>	_____	_____	_____

SUPERVISOR AUTHORIZING ENTRY _____ Ambulance Fire
ALL ABOVE CONDITIONS SATISFIED Safety M Ennis Gas Coordinator _____
DEPARTMENT Public works PHONE 616-692-7171

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CONFINED SPACE _____ HAZARDOUS AREA

PERMIT VALID FOR 8 HOURS ONLY. ALL COPIES OF PERMIT WILL REMAIN AT JOB SITE UNTIL JOB IS COMPLETED.

SITE LOCATION and DESCRIPTION HUNT COUNTRY

PURPOSE OF ENTRY CLEAN WET WELL

SUPERVISOR(S) in charge of crews KEVIN MULLER Type of Crew Public Works Phone # 610-642-7171

*DENOTES MINIMUM REQUIREMENTS TO BE COMPLETED AND REVIEWED PRIOR TO ENTRY *
COMMUNICATION PROCEDURES _____

RESCUE PROCEDURES (PHONE NUMBERS AT BOTTOM) _____

REQUIREMENTS COMPLETED	DATE	TIME	REQUIREMENTS COMPLETED	DATE	TIME
<input type="checkbox"/> Lock Out/De-energize/Try-Out	_____	_____	<input checked="" type="checkbox"/> Full Body Harness w/ "D" ring	<u>2/15</u>	<u>8:35</u>
<input type="checkbox"/> Line(s) Broken - Capped - Blanked	_____	_____	<input checked="" type="checkbox"/> Emergency Escape Retrieval Equipment	<u>2/15</u>	<u>8:35</u>
<input type="checkbox"/> Purge - Flush and Vent	_____	_____	<input checked="" type="checkbox"/> Lifelines	<u>2/15</u>	<u>8:35</u>
<input checked="" type="checkbox"/> Ventilation	<u>2/15</u>	<u>8:35</u>	<input checked="" type="checkbox"/> Fire Extinguishers	<u>2/15</u>	<u>8:35</u>
<input type="checkbox"/> Secure Area (Post and Flag)	_____	_____	<input checked="" type="checkbox"/> Lighting (Explosive Proof)	<u>2/15</u>	<u>8:35</u>
<input type="checkbox"/> Breathing Apparatus	_____	_____	<input checked="" type="checkbox"/> Protective Clothing	<u>2/15</u>	<u>8:35</u>
<input type="checkbox"/> Resuscitator - Inhalator	_____	_____	<input checked="" type="checkbox"/> Respirator(s) (Air Purifying)	_____	_____
<input checked="" type="checkbox"/> Standby Safety Personnel	<u>2/15</u>	<u>8:35</u>	<input type="checkbox"/> Burning and Welding Permit	_____	_____

Note: Items that do not apply enter N/A in the blank.

** RECORD CONTINUOUS MONITORING RESULTS EVERY 2 HOURS

CONTINUOUS MONITORING** TEST(S) TO BE TAKEN	PERMISSIBLE ENTRY LEVEL	8:40	8:55	MONITORING RESULTS				9:10
<input checked="" type="checkbox"/> Percent of Oxygen	19.5% to 23.5%	<u>20.8</u>	<u>20.8</u>	_____	_____	_____	_____	<u>20.6</u>
<input type="checkbox"/> Lower Flammable Limit	Under 10%	_____	_____	_____	_____	_____	_____	_____
<input checked="" type="checkbox"/> Carbon Monoxide	+35 PPM	<u>0</u>	<u>0</u>	_____	_____	_____	_____	<u>0</u>
<input type="checkbox"/> Aromatic Hydrocarbon	+ 1 PPM * 5 PPM	_____	_____	_____	_____	_____	_____	_____
<input type="checkbox"/> Hydrogen Cyanide (Skin)	* 4 PPM	_____	_____	_____	_____	_____	_____	_____
<input checked="" type="checkbox"/> Hydrogen Sulfide	+10 PPM * 15 PPM	<u>0</u>	<u>0</u>	_____	_____	_____	_____	<u>0</u>
<input checked="" type="checkbox"/> Sulfur Dioxide	+ 2 PPM * 5 PPM	<u>0</u>	<u>0</u>	_____	_____	_____	_____	<u>0</u>
<input type="checkbox"/> Ammonia	* 35 PPM	_____	_____	_____	_____	_____	_____	_____

* Short-term exposure limit: Employee can work in the area up to 15 minutes.

+ 8 hr. Time - Weighted Avg.: Employee can work in area 8 hrs (longer with appropriate respiratory protection).

REMARKS: _____

GAS TESTER NAME & CHECK# MIKE KUNIS INSTRUMENT(S) USED MSA 4 GAS MODEL &/OR TYPE _____ SERIAL &/OR UNIT# _____

SAFETY STANDBY PERSON IS REQUIRED FOR ALL CONFINED SPACE WORK

SAFETY STANDBY PERSON(S) CHECK # MARK VITANZA CONFINED SPACE ENTRANT(S) CHECK # CAROLAN SPENCER

MIKE HOLMES _____

SUPERVISOR AUTHORIZING ENTRY km Ambulance Fire

ALL ABOVE CONDITIONS SATISFIED Safety STEVEN DIENZI Gas Coordinator

DEPARTMENT Public Works PHONE 610-642-7171

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HM 2/15/2022
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CONFINED SPACE **HAZARDOUS AREA**

PERMIT VALID FOR 8 HOURS ONLY. ALL COPIES OF PERMIT WILL REMAIN AT JOB SITE UNTIL JOB IS COMPLETED.

SITE LOCATION and DESCRIPTION HERSHEY MILL PUMP STATION

PURPOSE OF ENTRY WET WELL CLEANING

SUPERVISOR(S) in charge of crews K MILLER Type of Crew PUBLIC WORKS Phone # 610-656-9492

* DENOTES MINIMUM REQUIREMENTS TO BE COMPLETED AND REVIEWED PRIOR TO ENTRY *

COMMUNICATION PROCEDURES VERBAL / HAND SIGNAL

RESCUE PROCEDURES (PHONE NUMBERS AT BOTTOM)

REQUIREMENTS COMPLETED	DATE	TIME	REQUIREMENTS COMPLETED	DATE	TIME
<input type="checkbox"/> Lock Out/De-energize/Try-Out	_____	_____	<input checked="" type="checkbox"/> Full Body Harness w/ "D" ring	2/15	6:10
<input type="checkbox"/> Line(s) Broken - Capped - Blanked	_____	_____	<input checked="" type="checkbox"/> Emergency Escape Retrieval Equipment	2/15	6:10
<input type="checkbox"/> Purge - Flush and Vent	_____	_____	<input checked="" type="checkbox"/> Lifelines	2/15	6:10
<input checked="" type="checkbox"/> Ventilation	_____	_____	<input checked="" type="checkbox"/> Fire Extinguishers	2/15	6:10
<input type="checkbox"/> Secure Area (Post and Flag)	_____	_____	<input checked="" type="checkbox"/> Lighting (Explosive Proof)	2/15	6:10
<input type="checkbox"/> Breathing Apparatus	_____	_____	<input checked="" type="checkbox"/> Protective Clothing	2/15	6:10
<input type="checkbox"/> Resuscitator - Inhalator	_____	_____	<input checked="" type="checkbox"/> Respirator(s) (Air Purifying)	2/15	6:10
<input checked="" type="checkbox"/> Standby Safety Personnel	2/15	6:10	<input type="checkbox"/> Burning and Welding Permit	_____	_____

Note: Items that do not apply enter N/A in the blank.

**** RECORD CONTINUOUS MONITORING RESULTS EVERY 2 HOURS**

CONTINUOUS MONITORING** TEST(S) TO BE TAKEN	PERMISSIBLE ENTRY LEVEL	6:22	MONITORING RESULTS	6:37	6:50
<input type="checkbox"/> Percent of Oxygen	19.5% to 23.5%	20.6	_____	20.6	20.6
<input type="checkbox"/> Lower Flammable Limit	Under 10%	_____	_____	_____	_____
<input type="checkbox"/> Carbon Monoxide	+35 PPM	0	_____	0	0
<input type="checkbox"/> Aromatic Hydrocarbon	+ 1 PPM * 5 PPM	_____	_____	_____	_____
<input type="checkbox"/> Hydrogen Cyanide	(Skin) * 4 PPM	_____	_____	_____	_____
<input type="checkbox"/> Hydrogen Sulfide	+10 PPM * 15 PPM	0	_____	0	0
<input type="checkbox"/> Sulfur Dioxide	+ 2 PPM * 5 PPM	0	_____	0	0
<input type="checkbox"/> Ammonia	* 35 PPM	_____	_____	_____	_____

* Short-term exposure limit: Employee can work in the area up to 15 minutes.

+ 8 hr. Time - Weighted Avg.: Employee can work in area 8 hrs (longer with appropriate respiratory protection).

REMARKS: _____

GAS TESTER NAME & CHECK# VINCE D'AMICO INSTRUMENT(S) USED MGA 1000 MODEL &/OR TYPE _____ SERIAL &/OR UNIT# 9

SAFETY STANDBY PERSON IS REQUIRED FOR ALL CONFINED SPACE WORK

SAFETY STANDBY PERSON(S) CHECK # MIKE ENNIS CONFINED SPACE ENTRANT(S) CHECK # MARK UJANZA

SUPERVISOR AUTHORIZING ENTRY [Signature] Ambulance Fire CAPT 56
ALL ABOVE CONDITIONS SATISFIED Safety Gas Coordinator
DEPARTMENT PUBLIC WORKS PHONE 610-692-1171

EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT
March 11, 2022

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic Soda Conversion – We prepared scoping to add an outside safety shower with tempered water feed to the shower location, as per comments from the chemical supplier. We plan to provide vendor selection recommendations and quotes for the tank and chemical feed pump & piping systems for consideration at the April MA meeting.
- UV Disinfection System – We continued design and product evaluations for the temporary bypass approach, crane, electric and controls needs, and hydraulics of the system. We conducted on-site scoping meetings with the Township, operator, Glasco technical representatives and vendor, electrical contractor, mechanical contractor, and controls integrator. Glasco provided a finalized quote for the UV equipment and bypass (“pilot”) system afterwards. Budgetary quotes were also provided afterward by the electrical, mechanical, and controls contractors. A memo summarizing the quotes is submitted under separate cover. **We recommend Glasco’s Costars quote be awarded subject to scheduling impacts of the grant funding described below.**

The lead time for the Glasco equipment is approximately 5 months, which would be circa August 2022 if awarded in March. It is recommended to wait to install the system until after hurricane season since it will be risky for the temporary bypass UV system to handle a storm event like Hurricane Ida. Therefore, construction would be projected to occur in the October-November timeframe, provided the Glasco equipment is ordered by the end of April.

We are also assisting the Township with the Commonwealth Financing Authority (CFA) Local Share Account (LSA) grant application. According to PA DCED, grant awards are expected to occur around November. No grant funds can be authorized or expended prior to “receiving CFA approval”. It is not yet known if that “approval” means the grant award or the follow-up grant contract execution, which could be at least 1-2 months after award. Therefore, no equipment or construction contracts to be funded by the grant could be authorized until the November-December timeframe, at the earliest. If the Glasco equipment is part of the grant, the Glasco lead time would then not start until then so this would become a mid-2023 construction project. Alternatively, if the grant is pursued for a lesser amount of approximately \$160K vs. the currently planned \$199K, the grant funding would only cover the contractor work (not Glasco’s equipment) so the Glasco quote could be approved now. Further discussion on the funding and scheduling is occurring at the time of this report; decisions will need to be made by March 15, which is the due date for the grant applications.

- NPDES Permit Renewal – The public review comment period has ended, and DEP indicated the final permit will be issued shortly with no changes from the draft version that was provided for public review.
- Influent Flow Meter Replacement – It is our understanding that the manhole and meter have been ordered, and delivery is expected in the July timeframe.

Ridley Creek Collection System Permanent Meters

- No activity since our last report.

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 – We finalized and submitted the GP-11 "Stream Obstructions" plans and permit application to DEP on March 8. Attached is an email summarizing the status and projected schedule moving forward. Per follow-up with a material supplier, 8" ductile iron pipe (DIP) is readily available, but 12" DIP is a 20-week lead time. Most of the project is 8" DIP, but there is some 12" DIP at the downstream end. The overall construction duration may therefore be a couple months longer than projected in the email.

We are also assisting the Township with the LSA grant application for this project. The scheduling impacts for this project would be the same as described above for the UV Replacement project, and further consideration is ongoing at the time of this report. If not using LSA grant funding at all, we project that construction would begin in late summer 2022. If using LSA grant funding, the project schedule would be pushed back approximately 6 months because construction contracts cannot be awarded until the grant is "approved". In that case, construction would then be projected to occur in spring-summer 2023.

If not using LSA funding, the project can move forward now, and we request authority to advertise the construction contract per the attached schedule.

I&I Program

- No activity since our last report.

New Connections

- Sewer Extension Study – No activity since our last report.

Chapter 94 Reports

- We continued data analysis and preparation of the 2021 Chapter 94 Annual Sewer Facilities Reports for the Ridley Creek, Chester Creek (West Goshen), and Westtown Service Areas. The reports will be finalized and submitted to DEP prior to the March 31 deadline.

Industrial Pretreatment Ordinance

- No activity since our last report. As discussed at the May 2021 MA meeting, a headworks study with sampling at the RCSTP can be conducted to set contaminant limits.

END OF REPORT



Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge limitations for the month of February 2022. All supplemental reports for January 2022 were submitted with the DMR. Discharge to the Applebrook irrigation lagoon remained in service. Chemical usage utilized for pH and total alkalinity remained consistent with previous months. Aluminium sulfate solution volumes slightly decreased during February to 69.9 gpd as compared to January at 70.1 gpd to achieve phosphorus removal. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process. There were no odor complaints during the month.

Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported for outfall 001 for the February 2022 DMR.

Table 1

Compliance with the NPDES discharge permit was achieved during February. The monthly average total phosphorus was reported as 0.10 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 4 mg/L as compared to the discharge limitation of 10 mg/L. The TSS weekly averages are presented below in Table 2.

Table 2

February 2021 Final Effluent Weekly TSS Averages	
Week 1	14.8 mg/L
Week 2	4.0 mg/L
Week 3	6.5 mg/L
Week 4	9.2 mg/L

The final effluent test results demonstrate that the biological treatment process performed well during February. 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 continued through January.

Table 3 presents the available pollutant data for the Applebrook discharge reported as outfall 002 on the February 2022 DMR.

Table 3

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 4 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during February 2022.

Table 4

The foam on the SBR surface reduced to approximately 5% to 10% 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.

Pennoni Associates

Provided data for Chapter 94 Report.

Chemical Usage:

February 2022		
Chemical	Daily Average	Total Monthly
Soda Ash, pounds	300	8,400
Aluminium Sulfate solution, gal	69.9	1,957

Flow data:

February 2022			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	12.307	439,540	753,200
Influent Wastewater to SBRs*	12.635	451,250	652,288
Internal Recycle**	0.581	20,779	96,014

Treated Effluent to Disc Filters	12.536	447,703	601,728
Final Effluent Discharge	8.803	315,000	408,000
Applebrook Golf Course	1.3856	49,487	59,248

During February, the average monthly influent wastewater flow measured at the "field" flow meter was 439,540 gallons/day as compared to the influent flow into the SBRs as 451,250 gallon/day. The difference between the daily averages is 11,710 gpd, with the "field" flow meter measurements recorded should be less than the influent to the SBR. These values would be considered typical as the flow volume into the SBRs includes internal recycle flows from the centrifuge and disk filters.

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

Significant Rainfall

During February, there were nine (9) days when rainfall or snow occurred. There were two (2) events where the rainfall exceeded 0.5 inches in a 24-hour period.

February 4th 0.70 inches rainfall

February 13th 0.50 inches snow

February 25th 0.97 inches rainfall

During February 3rd through February 5th there were three consecutive days of rainfall for a total of 1.38 inches.

The total rainfall for the month of February was a total 2.84 inches.

Maintenance and Repair Activities

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DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
February 14, 2022

The East Goshen Township Municipal Authority held their regular meeting on Monday, February 14, 2022 at 7:00 pm. at the Township Building. Members in attendance were: Walter Wujick, Chairman; Kevin Cummings, Vice Chairman; and Jack Yahraes.

Also in attendance were: David Ware (Financial Director), Mike Ellis (Pennoni), Mike Lynch (Township Supervisor), Patrick McKenna (Attorney), and Scott Towler (via phone).

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

Walter called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. He asked for a moment of silence for our First Responders, Police and Mark Miller’s wife. Walter asked if anyone would be recording the meeting. There was no response.

Chairman’s Report

1. Annual Planning Session – Walter recapped the accomplishments and goals. The Supervisors showed interest in the dollars involved. Mike Lynch mentioned that they are keeping the possible expansion of the sewer system front and center. Kevin commented that they need to do it differently this time. Provide good communication through letters to the residents involved. Do small group meetings to avoid a public setting. Jack commented that the last time, the residents came to the Municipal Authority meeting before the MA was ready.

2. Jack attended the West Goshen Sewer Authority meeting. Westtown owes \$125,000 more. There are 588 on the Greystone sewer. The average is 3.83M gallons/day. They are polling unsewered neighborhoods. Kevin commented that we should get their polling format. The WTWPS status is no action before September.

1 **SEWER REPORTS**

2 **1. Director of Public Works, Mark Miller's report for January 2022**

3 **Monthly Flows** – The average daily flow to West Goshen was 677,257 per day.

4
5 **Meters:** The meters were read on a daily basis. The mag meter that was damaged during Hurricane
6 Ida at Hershey Mill has been replaced and a new meter is in full operation with an average daily flow
7 of 76,000 gpd.

8
9 **C.C. Collection:** The pump stations were visited on a daily basis, routine maintenance was
10 performed, and the FOG rods were pulled and cleaned. The levels for the pump controls were reset
11 once the rods were secured. We cleared the sewer right of ways. The manhole covers were pulled,
12 and the conditions of each manhole were checked. Interceptor line: The right of way line was cleared
13 from Wilson Drive down to the Hicks Farm. We found that a section of the line was exposed from
14 the remnants of hurricane Ida.

15
16 **R.C. Collection:** The stations were checked on a daily basis. The lift station was cleaned as well as
17 the level sensor.

18
19 **Ridley Creek Plant:** The Public Works Department spent hours with maintenance work inside and
20 outside of the plant. We replaced the old T8 light bulbs with LED bulbs. We also installed new LED
21 lights in the SBR building. What a difference the lighting has made.
22 We also cleared that area outside the fence. The ground was frozen so we installed a sump pipe in the
23 area where the new metering pit will be installed. The new meter and manhole have been ordered.
24 They also cleared the right of way from the plant up to the golf course.

25
26 **Alarms:** We responded to 41 alarms for January.

27
28 **PA One Calls:** We responded to over 56 PA One Calls for the month of January.

29
30 **Monthly Rainfall:** 4.05 inches of rain for the month of January.

31
32 **Lateral Repairs or Caps:** None

33
34
35 **2. Pennoni Engineer's Report dated February 11, 2022**

36 **Ridley Creek Sewage Treatment Plant (RCSTP)**

- 37
- 38 • Caustic Soda Conversion – We are continuing to finalize vendor selection and quotes for the tank and feed piping systems.
 - 39 • UV Disinfection System – We continued evaluation of alternative products for the UV replacement including field visits to Trojan and Glasco systems in Upper Gwynned Township and Hazleton, PA accordingly. Vendors provided updated pricing quotes, concept designs, and product information. We also coordinated with Lenni Electric for a quote for the associated electrical work and with a mechanical contractor for installation of the permanent UV banks and temporary UV bypass system. An alternatives evaluation and recommendation
- 40
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1 summary memo is submitted under separate cover. Additionally, we are researching grant
2 opportunities for the project.

- 3 • NPDES Permit Renewal – We received and responded to minor comments from DEP on the
4 application. DEP submitted the draft permit thereafter, which we are currently reviewing. The
5 draft permit does not change any contaminant limits, but it does add requirements to start
6 sampling and reporting for influent CBOD and effluent E.Coli, UV intensity, total nitrogen, total
7 copper, and total zinc. Mike E. feels it will go out for public review and be done by May.
- 8 • Influent Flow Meter Replacement – We revisited the location and depth of the proposed new
9 metering manhole with Mark, and we obtained updated quotes for the manhole and ultrasonic
10 flow meter. The materials have been ordered, and delivery is expected in approximately five
11 months.

12 **Ridley Creek Collection System Permanent Meters**

- 13 • No activity since our last report.

14 **Westtown Way Pump Station**

- 15 • No activity since our last report.

16 **Sanitary Sewer Pipe Rehab**

- 17 • Supplee Valley – No activity since our last report.
- 18 • Hershey’s Mill Estates –We submitted a summary report of the geotechnical investigation and
19 resultant recommendations. We are finalizing the design plans, bid documents, and GP-11 permit
20 application, and updating the cost estimate. Mike E. mentioned that he sent the geotechnical report to
21 the MA members today. Contractors will have a good profile to look at. Mike L. spoke about
22 applying for a grant for this project.

23 **I&I Program**

- 24 • No activity since our last report.

25 **New Connections**

26 Sewer Extension Study – We drafted a summary memo for the study conclusions for presentation by
27 the MA to the Township BOS.

28 **Charter 94 Reports**

29 We initiated data analysis and preparation of the 2021 Chapter 94 Annual Sewer Facilities Reports for
30 the Ridley Creek, Chester Creek (West Goshen), and Westtown Service Areas.

31 **Industrial Pretreatment Ordinance**

- 32 • No activity since our last report. As discussed at the May MA meeting, a headworks study
33 with sampling at the RCSTP can be conducted to set contaminant limits.

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

37 The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge
38 limitations for the month of December 2021. All supplemental reports for December 2021 were

1 submitted with the DMR. Discharge to the Applebrook irrigation lagoon remained in service.
2 Chemical usage utilized for pH and total alkalinity remained consistent with previous months.
3 Aluminium sulfate solution volumes slightly decreased during January to 70.1 gpd as compared to
4 December at 75 gpd to achieve phosphorus removal. No significant mechanical or operational issues
5 were observed during operation of sludge dewatering equipment or SBR treatment process. There
6 were no odor complaints during the month.

7 Scott mentioned that he can give more current data to the MA since the new lab gets data done
8 sooner. It appears that issues with UV were occurring before the tropical storm. He spoke about
9 Public Works keeping the plant clean. Mike E. mentioned effluent. Scott described the process and
10 results. It is monitored every day.

11 Approval of Minutes

12 Jack moved to approve the January 10, 2021 minutes as amended. Kevin seconded the motion. The
13 motion passed unanimously.
14
15

16 Approval of Invoices

17 1. Kevin moved to approve the following Pennoni invoices:

18 Invoice #1103752 \$1,217.25

19 Invoice #1103753 \$5,664.50

20 Jack seconded the motion. The motion passed unanimously.
21
22

23 2. The invoice shown as West Goshen Twp. #EG-4-21-O&M for \$163,742.44 was the invoice that
24 West Goshen sends for flow charges. This is approved by the BOS. Mike L. asked if the MA want
25 to see MA related invoices that the BOS approves. Dave checked with Mike Moffa. The cost has
26 stayed pretty close. He will look into this.
27

28 3. Jack moved to approve the following invoices from Gawthrop:

29 Invoice #254159 \$ 660.00

30 Invoice #251594 \$ 540.00 Paid

31 Kevin seconded the motion. The motion passed unanimously.
32
33

34 Liaison Reports

35 1. Conservancy Board – Walter reported that they did some more mulching in Clymer’s Woods.
36 They will be contacting everyone next month about Keep East Goshen Beautiful Day scheduled for
37 Saturday April 23rd, rain date April 30th.
38

39 2. Board of Supervisors – Mike reported that they are starting negotiations with WEGO. East
40 Goshen wants to do a services study, but Westtown does not. Hershey Mill Park project is taking
41 longer than expected. Now it will probably be done in August.
42

43 Financial Reports

44 1. January Financial Report - Dave Ware reviewed the following report:

45 In January 2022, the Municipal Authority recorded \$24,483 in revenues (transfers from Sewer
46 Operating and Sewer Capital Reserve) and \$27,399 in expenses (2022 PA MA member dues,

1 Engineering, Legal Services, Pump Station pumps, Muffin Monster), for a negative variance of
2 (\$2,916). As of January 31, 2021, the fund balance was \$8,704.

3
4
5 **Old Business**

6 None

7
8 **Goals**

9 The goals were reviewed.

10
11 **New Business**

12 **1. HRG Letter -** Dave received a letter from HRG about costs for West Goshen. Everyone feels
13 these are the original costs. They discussed possible increases. Dave tried to contact HRG but had
14 no response. He wants more information about the agreement with West Goshen. Patrick will email
15 him the agreement.

16
17 **2. Audit Engagement Letter -** The Maillie's Audit Engagement Letter for the year ending December
18 31, 2021 was reviewed. A new item is now available called Key Audit Matters (KAMs). Dave
19 explained what this audit provides. He feels comfortable with the internal controls in place with East
20 Goshen and doesn't think we need this extra audit item. If we don't want KAMs at this time, we just
21 sign Maillie's letter and return it. Jack moved to accept Maillie's engagement letter and have Walter
22 sign it. Kevin seconded the motion. The motion passed unanimously

23
24 **3. RCSTP UV System -** Mike Ellis has done the due diligence and visited both Glasco and Trojan
25 facilities. The Glasco system, which is less costly, is the best system for East Goshen. He explained
26 how the system works under all conditions. Glasco is easier to maintain. It will go through Costars.
27 Mike wants to have a group meeting with all of the contractors in the next few weeks.
28 Jack moved to encourage Mike to continue with Glasco for this project. Kevin seconded the motion.
29 The motion passed unanimously.

30
31 **Capacity Request -** None

32
33 **Any Other Matter -** None

34
35 **Correspondence-** None

36
37 **Public Comment -** None

38
39 **Adjournment**

40 There being no further business Kevin moved to adjourn the meeting. Jack seconded the motion.
41 The motion passed unanimously. The meeting was adjourned at 8:45 pm.
42 The next regular meeting will be held on Monday, March 14, 2022 at 7:00 pm.

43
44 Respectfully submitted,

45
46
47 Ruth Kiefer, Recording Secretary

68043



Letter Date: 03/01/2022
Invoice ID: 222169
Docket Number: D-2000-030 CP
Customer ID: 31
Amount Due: \$660.00
Due Date: 04/01/2022

March 1, 2022

East Goshen Municipal Authority
C/O Accounts Payable
1580 PAOLI PIKE
WEST CHESTER, PA 19380-6107

For additional information:
Website: www.drbc.net/fees
Email: annualfee@drbc.gov
Phone: 609-477-7255



Dear Docket Holder:

In accordance with Delaware River Basin Commission (DRBC) Resolution No. 2016-09, codified in relevant part at 18 CFR 401.43, each withdrawal and/or discharge project for which a water allocation and/or wastewater discharge approval has been issued pursuant to the Delaware River Basin Compact and implementing regulations ("Approval") is subject to DRBC's annual monitoring and coordination fee ("annual fee"). The annual fee corresponds to the volume of the monthly allocation and/or daily discharge capacity - whether express or implicit - established by the Approval. The allocation/discharge volumes and corresponding fees are shown in the schedule on the reverse of this invoice.

If an entity has received an Approval (or Approvals) for both water allocation and wastewater discharge activities, separate invoices will be issued for these separate activities. This invoice includes the annual fee for the facility and activity identified below for calendar year 2022. The invoiced amount was calculated based on the monthly allocation (in MGM) or daily discharge capacity (in MGD) approved as of January 1, 2022.

This invoice pertains to the Daily Discharge Capacity approved by D-2000-030 CP and is based on an amount of 0.750 MGD.

Note: If you would like future annual fee invoices sent via e-mail, please send an e-mail to accounting@drbc.gov and include the current invoice number(s) that are affected and we will update our records for the future annual fee mailings.

Detach here and return coupon with payment

East Goshen Municipal Authority

Letter Date: 03/01/2022
Invoice ID: 222169
Docket Number: D-2000-030 CP
Customer ID: 31
Amount Due: \$660.00
Due Date: 04/01/2022

PAID
3/8

Make check payable to
Delaware River Basin Commission

Amount Enclosed: \$ _____

Delaware River Basin Commission
PO Box 788801
Philadelphia, PA 19178-8801

[Handwritten signature]
3/8/22



Check here to indicate address change and complete form on reverse

07424.3000

0000000031200002221699900000004012022000000000660001



Kappe Associates, Inc.
 100 Wormans Mill Court
 Frederick, Md. 21701
 Tele# 301-846-0200
 Fax# 301-846-0808
 www.kappe-inc.com

60044

Invoice

Date	Invoice #
2/8/22	21-554-M

Bill To
East Goshen Township 1580 Paoli Pike West Chester, PA. 19380

PAID
 3/8

P.O. No. 1	Project
Verbal Mark M...	21-554-M

Description	Quantity	Rate	Amount
HERSHEY MILL PUMPING STATION Station Flow Meter E & H Promag D 400 Magnetic Flow Meter Install and Commission APPROVED BY: <u>MSD</u> <i>[Signature]</i> 2/8/22 DATE PAID: _____ CHECK #: _____ CHARGED TO: <u>07429,1503</u> Capital Replacmer R.C. Collection This was due to EDA.	1	6,831.00	6,831.00

Terms: Net 30 Days - 1.5% per month interest on unpaid balance over 30 days.	Total	\$6,831.00
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Memo

To: Municipal Authority
From: Dave Ware
Re: MA February 2022 Financial Report
Date: March 10, 2022

In February 2022, the Municipal Authority recorded \$7,965 in revenues (connection fees, and transfer from Sewer Operating and Sewer Capital Reserve) and \$7,542 in expenses (Engineering General Services, Engineering for Hershey's Mill Estates, and Legal Services), for a positive variance of \$423. As of February 28, 2022, the fund balance was \$9,127.

A complete list of 2022 full year MA revenues and expenses is attached.

EAST GOSHEN TOWNSHIP
Other Funds
February 2022
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			0.37	0.37		0.18	0.18
DCED GRANT	07354 0400	152,980						
C.C. TAPPING FEES	07364 1100	2,000						
R.C.TAPPING FEES	07364 1110	2,000						
CONNECTION FEES - SEWER	07364 1130	1,000	167	281.88	114.48	84	281.88	198.18
MISCELLANEOUS REVENUE	07380 1000			141.12	141.12		141.12	141.12
TRANSFER FROM SEWER OPERATING	07392 0500	130,000		11,821.50	11,821.50		6,324.50	6,324.50
TRANSFER FROM SEWER CAP RESERVE	07392 0900	476,930	72,230	20,203.38	(52,026.47)	72,230	1,217.25	(71,012.60)
TOTAL REVENUE		764,910	72,397	32,448.25	(39,949.00)	72,314	7,964.93	(64,348.62)
EXPENSES								
ADMINISTRATIVE WAGES	07424 1400	30,529						
MISCELLANEOUS EXPENSE	07424 3000	1,500		880.25	(880.25)			
MUNIC.AUTH.-AUDITING	07424 3110	10,300	2,601		2,600.75	2,601		2,600.75
ENGINEERING SERVICES	07424 3130	45,000	2,516	9,741.25	(7,224.91)	2,463	5,664.50	(3,201.78)
LEGAL SERVICES	07424 3140	8,000		1,200.00	(1,200.00)		660.00	(660.00)
R.C. CAPITAL-STP	07424 7440	315,000						
CAP.REPLACEMENT R.C.	07424 7490	41,400						
RELINING	07426 3001	130,000						
BARKWAY PUMP STATION CAPITAL	07429 1501			2,215.00	(2,215.00)			
HERSHEYS MILL PUMP STATION CAPITAL	07429 1503			19,033.95	(19,033.95)		1,217.25	(1,217.25)
HUNT CO PUMP STATION CAPITAL	07429 1504			1,870.00	(1,870.00)			
RCSTP CAPITAL	07429 1505	46,897	29,664		29,663.53	29,664		29,663.53
WEST GOSHEN CAPITAL	07429 6100	136,284						
TOTAL EXPENSES		764,910	34,781	34,940.45	(159.83)	34,727	7,541.75	27,185.25
NET RESULT FROM OPERATIONS			37,617	(2,492.20)	(40,108.83)	37,587	423.18	(37,163.37)

MUNICIPAL AUTHORITY January 31, 2022 YTD Financials

Account #	Description	Per	Src	Trx#	Debits	Credits	Balance	Date	Check#	Name	Description
07341-1000	BEGINNING BALANCE						0				
07341-1000	INTEREST EARNINGS	2201	JE	82114	-	0.19	0	1/31/2022	INTEREST	INTEREST EARNED JANUARY 2022	07 FUND
07341-1000	INTEREST EARNINGS	2202	JE	82467	-	0.18	0	44620	INTEREST	INTEREST EARNED FEBRUARY 2022	7100.1035
07364-1130	BEGINNING BALANCE						0				
07364-1130	CONNECTION FEES - SEWER	2202	CR	82091	-	423.00	0	2/2/2022	2714	STOFFLET, MICHAEL	
07364-1130	CONNECTION FEES - SEWER	2202	JE	82092	141.12	-	0	44594	PINE RK	ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - STOFFLET
07380-1000	BEGINNING BALANCE						0				
07380-1000	MISCELLANEOUS REVENUE	2202	JE	82092	-	141.12	0	44594	PINE RK	ANNUAL PINE ROCK INSTALLMENT	INTEREST PORTION - STOFFLET
07392-0500	BEGINNING BALANCE						0				
07392-0500	TRANSFER FROM SEWER OPERATING	2201	JE	81851	-	5,497.00	0	44574	XFER	XFER \$ TO MA FROM SEWER &	SEWER CAP.RE: DEC.EXPENSES
07392-0500	TRANSFER FROM SEWER OPERATING	2202	JE	82281	-	6,324.50	0	44608	XFER	XFER \$ FROM 05 & 09 RE: JAN.	2022 MA EXPENSES
07392-0900	BEGINNING BALANCE						0				
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2201	JE	81851	-	18,986.13	0	44574	XFER	XFER \$ TO MA FROM SEWER &	SEWER CAP.RE: DEC.EXPENSES
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2202	JE	82281	-	1,217.25	0	44608	XFER	XFER \$ FROM 05 & 09 RE: JAN.	2022 MA EXPENSES
07424-3000	BEGINNING BALANCE						0				
07424-3000	MISCELLANEOUS EXPENSE	2201	CD	81850	880.25	-	0	44574		3303 PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC	2022 ACTIVE MEMBERSHIP DUES
07424-3130	BEGINNING BALANCE						0				
07424-3130	ENGINEERING SERVICES	2201	CD	81850	4,076.75	-	0	44574		3302 PENNONI ASSOCIATES INC.	SERVICES THRU 12/19/21 2021 GEN.SER
07424-3130	ENGINEERING SERVICES	2202	CD	82280	5,664.50	-	0	44608		3305 PENNONI ASSOCIATES INC.	SERVICES THRU 1/16/22 - GEN.SERVICE
07424-3140	BEGINNING BALANCE						0				
07424-3140	LEGAL SERVICES	2201	CD	81850	540.00	-	0	44574		3300 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - NOVEMBER 2021
07424-3140	LEGAL SERVICES	2202	CD	82280	660.00	-	0	44608		3304 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - DEC.2021 GEN.AUTH.
07429-1501	BEGINNING BALANCE						0				
07429-1501	BARKWAY PUMP STATION CAPITAL	2201	CD	81850	2,215.00	-	0	44574		3299 DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMP
07429-1503	BEGINNING BALANCE						0				
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2201	CD	81850	2,709.00	-	0	44574		3299 DECKMAN MOTOR & PUMP INC.	2 - REBUILT HYDROMATIC PUMPS
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2201	CD	81850	11,255.01	-	0	44574		3301 JWC ENVIRONMENTAL	MUFFIN MONSTER
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2201	CD	81850	3,852.69	-	0	44574		3302 PENNONI ASSOCIATES INC.	SERVICES THRU 12/19/21 HM ESTATES
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2202	CD	82280	1,217.25	-	0	44608		3305 PENNONI ASSOCIATES INC.	SERVICES THRU 1/16/22 - HM ESTATES
07429-1504	BEGINNING BALANCE						0				
07429-1504	HUNT CO PUMP STATION CAPITAL	2201	CD	81850	1,870.00	-	0	44574		3299 DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMP

MEMORANDUM

TO: East Goshen Municipal Authority
Mark Miller, Public Works Director

CC: Derek Davis, Township Manager
Dave Ware, Finance Director
Big Fish Environmental

FROM: Michael Ellis, PE
Tim Daily, PE

DATE: March 11, 2022

SUBJECT: RCSTP UV System Replacement – Cost Summary

This memo outlines the work and associated costs for the installation of the new Glasco Vertical Ultraviolet (UV) Disinfection System at the Ridley Creek Sewage Treatment Plant (RCSTP) in East Goshen Township (EGT), following the recommendations made in the RCSTP UV System Replacement Memo, dated February 11, 2022, and the site meeting conducted on March 3, 2022.

BACKGROUND

The RCSTP is in need of a new UV disinfection system. The facility currently utilizes a Siemens two bank horizontal UV system from 2009. The existing UV system has damage to its electrical connections and ballasts, and many of the lamps in the second bank are not functional. Siemens no longer manufactures UV systems, making replacement parts (i.e., ballasts, sleeves, lamps) nearly impossible to come by. After evaluation of available products, it was concluded that the Glasco VCS-40-A150-2 be selected as the replacement for the existing RCSTP UV system for reasons outlined in the RCSTP UV System Replacement Memo, dated February 11, 2022.

After the Glasco UV system was selected as the replacement system for the RCSTP, an on-site meeting between Pennoni, East Goshen Public Works, Big Fish Environmental, Glasco, and electrical (Lenni), controls (Kappe), and mechanical (Zimmerman) contractors was held on March 3, 2022, to discuss the detailed scopes of work and any additional add-on items for the installation of the new Glasco UV system. A finalized quote from Glasco has since been obtained, as well as budgetary quotes from the electrical, controls, and mechanical contractors.

SEQUENCE OF CONSTRUCTION

As part of the installation of the Glasco VCS-40-A150-2 UV system, an overhead jib crane, temporary bypass system, and modifications to the existing UV channel are to be constructed. The sequence of construction and descriptions of the work follows.

1. Overhead Jib Crane

A jib crane with electric chain hoist and motor driven trolley, to be purchased directly by EGT and installed by the mechanical contractor, is to be mounted on the wall above the permanent UV system inside the Treatment Building. After mounting the jib crane, run electrical connections to power the

crane. The purpose of this crane is to lift the Glasco UV modules out of the permanent UV channel, allowing for easy maintenance and replacement of the modules as necessary. In the event of time constraints, the crane can be installed and powered at any time prior to the installation of the first UV module in the permanent channel, as described in #3 below.

2. Temporary Bypass System

A temporary bypass (“pilot”) system will be installed before the construction of the new UV system begins in order to prevent disruptions in the UV disinfection process at the RCSTP. The temporary tank, provided by Glasco, will be located outside, adjacent to the effluent storage tank. EGT Public Works will core the exterior concrete wall of the Treatment Building to allow for power and equipment connections to reach the temporary system. The ballast control center (BCC)/system control center (SCC) and air compressor provided by Glasco will be installed in their permanent locations inside the Treatment Building and connected to the temporary system. The Glasco BCC/SCC and air compressor will also connect to the permanent UV system after the temporary system is no longer needed. Temporary bypass pumps provided by EGT Public Works are to be placed in the filter discharge boxes to bypass the effluent flow to the temporary UV system. One of the two new Glasco UV modules will be installed in the temporary UV chamber to provide the UV disinfection. The second UV module will remain in storage until modifications of the permanent UV channel are completed. After the temporary system has been setup, run the temporary system for a day, take an effluent sample, and have it analyzed for fecal coliform. Continue to run the temporary system while awaiting test results. If fecal coliform is acceptably within the NPDES discharge limits, continue to run the temporary system and begin next step in the sequence of construction.

3. UV Channel Modifications

After the temporary UV system is operational, the existing UV controls will be disconnected, and the existing UV equipment can be demolished. The existing finger weir will then be removed to allow the UV channel modifications to begin. Modifications include raising the UV channel walls, installing the UV channel baffle, and raising the finger weir support. When the modifications are completed, the finger weir will be reinstalled and a CIH elastomeric membrane coating will be applied to the channel walls. The second Glasco UV module will then be installed in the finished channel and connected to the BCC/SCC and air compressor. After the permanent UV system is operational, the temporary UV system will be turned offline and deconstructed. The UV module in the temporary system will then also be installed in the permanent channel and brought online.

SCOPES OF WORK

1. East Goshen Public Works

EGT/Public Works will be responsible for the following:

- Purchasing the Glasco UV System
- Purchasing the Overhead Jib Crane
- Raising the Existing Concrete Channel Walls
- Installing and Infilling the Wall Baffle
- Construction of the Effluent Finger Weir Support
- Off-Loading and Storing Equipment
- Providing the Temporary Effluent Bypass Pumps and Hose
- Coring and Filling the Exterior Wall for Connection to Temporary System

A breakdown of the roughly estimated material (i.e. concrete), labor, and installation costs expected to be required by EGT is in the table below. The estimated material and labor cost does not include purchasing the Glasco UV system.

Estimated Material & Labor Cost	Estimated Overhead Jib Crane Cost	Estimated Total Cost
\$10,000	\$15,000	\$25,000

2. Glasco – Equipment

Glasco will provide the UV system modules, temporary UV channel, BCC/SCC, spare parts, and startup training. Glasco will not be responsible for any installation of equipment or the electrical requirements. See the attached proposal from Glasco for a breakdown of the provided equipment and associated costs.

3. Electric

The electrical contractor will be responsible for the following electrical construction associated with the installation of the temporary bypass system, permanent UV system, and jib crane:

- Provide Power to Bypass Pumps
- Install and Wire Motor Starters and Floats (x2)
- Interconnect UV Module in Temporary Channel with BCC/SCC
- Install and Wire BCC/SCC
- Install 30KVA 480-240 Transformer and Fused Over Current Protection
- Run Power to New Air Compressor
- Connect Power and Data Cables from BCC/SCC to UV Modules
- Interconnect Existing Control Panel with BCC/SCC
- Install Conduit, Wire, Local Disconnect, and Connection of New Crane Hoist

Additional information and a breakdown of the material, estimated labor, and installation costs can be found in the attached budgetary quote from Lenni.

4. Kappe – Controls

Kappe will be responsible for the following modifications to the existing Filter Feed Control Panel (FFCP) to establish connection to the Glasco UV system control panel:

- Add display screen to the FFCP Human Machine Interface (HMI) showing information from the Glasco UV control panel
- Provide remote access to the FFCP
- Connect analog signals to the FFCP to monitor real time, average daily, and daily minimum UV light intensity for each UV module
- Create alarm signals from the Glasco UV control panel to be monitored at the FFCP

Kappe will not be responsible for any field conduit or wiring. See the attached quote from Kappe for a summary of the proposed work and associated budgetary cost.

5. Mechanical

The mechanical contractor will be responsible for the demolition of the existing UV system equipment, installation of the temporary UV system, removal, field fabrication and reinstallation of the UV finger

weir, installation of the overhead jib crane, and installation of the two Glasco UV modules. The mechanical contractor will not be responsible for any electrical connections. A more detailed scope of work and related costs is outlined in the attached budgetary quote from Zimmerman.

PRICING

A summary of the total costs by service is in the table below.

	Estimated Total Cost
EGT Public Works	\$25,000
Glasco – Vendor	\$134,985
Electric	\$71,804
Kappe – Controls	\$15,760
Mechanical	\$47,500
Pennoni – Engineering	\$15,000
Estimated Total	\$310,049

LIST OF ATTACHMENTS

- Glasco UV Disinfection Proposal
- Lenni Electric Quote
- Kappe Controls Quote
- Zimmerman Mechanical Quote



E&W Equipment Co. LLC
 901 School Street
 Moosic, PA 18507
 Phone: 570-677-1919
 e-mail: jconnor@ewequipment.com

PROPOSAL 2022-02-08 REV-1

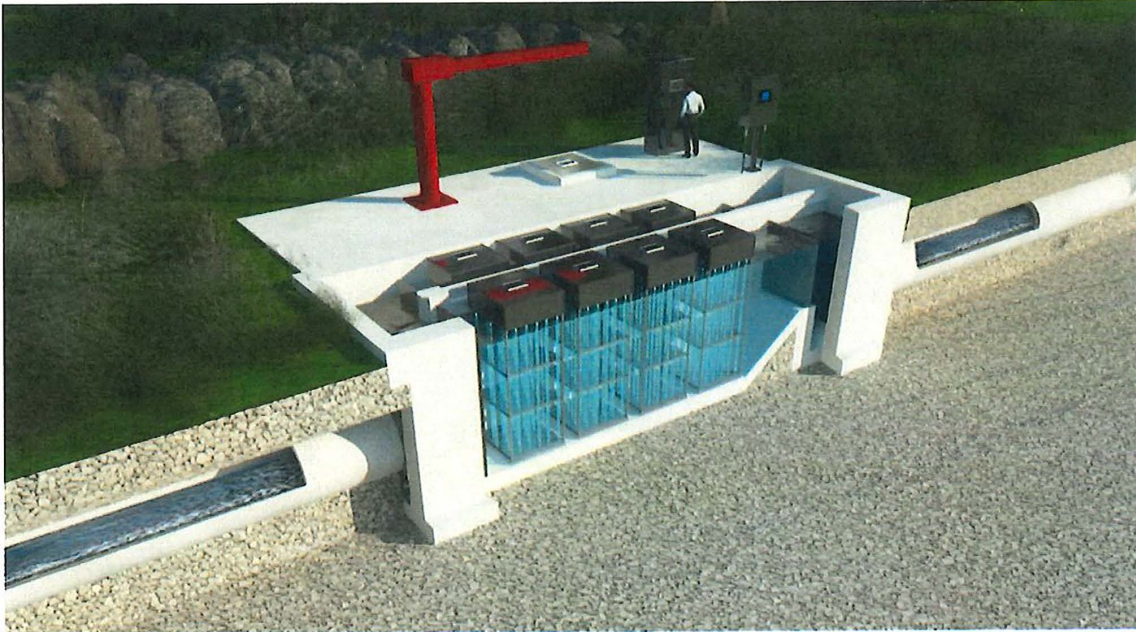
TO East Goshen Township Municipal Authority
 PROJECT Ridley Creek Wastewater UV Disinfection System
 LOCATION East Goshen Township, PA
 DATE 2022-03-08

Per your request and through E&W Equipment’s association with Glasco UV, we offer this proposal for purchase of a Glasco UV disinfection system from E&W Equipment through the PA COSTARS program (COSTARS Contract #016-095). The proposed UV system consists of VCS-40-A150-2 X 2 to be installed within the existing UV Channel that would be modified to accommodate the new system. The proposal also includes a painted steel channel to be used with one of the new UV modules as temporary disinfection while the channel modifications are being constructed. Installation would be by others.

The proposed UV disinfection equipment is based on the following design information:

PROPOSED UV DESIGN BASIS:

Project Type:	
Wastewater	
Channel Type	Existing concrete open channel to be modified
Orientation	Vertical 30"
System Name	VCS-40-A150-2
Lamp Technology	Low pressure amalgam 150 W
Flow rate range	
Peak hydraulic flow	3.0 MGD
Average flow	0.7 MGD
Redundancy	N+1
Location	Indoors
Water Quality	
UV transmission %	65%
Influent fecal counts	200,000 fc/100 ml
Water temp.	33-90° F
TSS	<30 mg/l
BOD	<30 mg/l
Discharge permit	<200 fc/100 ml
Design UV dosage	30 mJ
Dimensions	
Channel length	See drawing
Channel width	23"
Channel height	See drawing
Water level	29"
Level control	Finger weir (existing to be relocated by others)
Ballast Control Center	Freestanding NEMA 4x Stainless w A/C



PROPOSED UV EQUIPMENT OVERVIEW:

Model Name	VCS-40-A150-2 X 2
System type	Vertical
Configuration	Open Channel
Lamp type	Low pressure amalgam 150 W
Channels	1
Modules per channel	2
Lamps per module	40
Lamps per channel	40
UV monitoring	0-100% - 4-20 ma
Auto quartz cleaning	Pneumatic
Lamp status	Green LEDs
Remote control	H/O/A
Voltage	220-240 Volt
kW/hr	6 kW (per module)
Weight	300 lbs
Integration	
UV output	4-20 mA from UV
Flow signal	4-20 mA to UV
Basic PLC	AB MicroLogix
Remote control	H/O/A

Modules receive a flow signal and segments are turned on and off as needed. This saves energy and lamp hours.

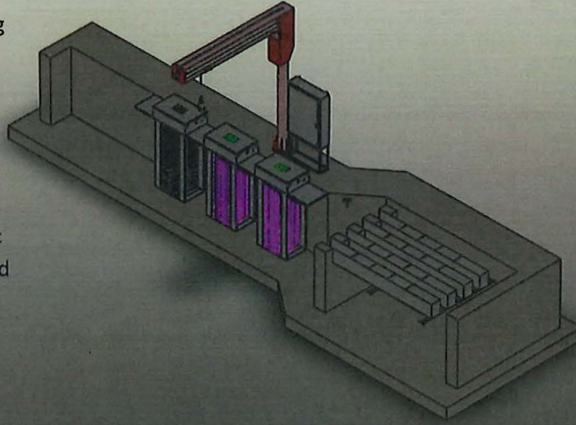
A level control weir ensures that the lamps are submerged regardless of flow rate. 30" arc length needs to be under water.

Modules have an automatic quartz cleaning mechanism. A compressed air source is required and can be provided as an option.

Lamps can be changed without removing the module.

A hoist can be used for seasonal or periodic out of channel cleaning and can be provided as an option.

A remote Ballast Control Center with A/C sits above the channel and attaches to the modules with power, data and air.



PROPOSED SCOPE OF ENGINEERING SERVICES

The following documentation will be provided at the time of submittal:

- Installation Operation and Maintenance manual
- Layout drawings
- P+ID drawings
- Panel and wiring drawings
- Ladder logic diagrams
- Terminal block diagrams
- Warranty requirements
- Long term storage requirements
- Bills of materials
- Equipment descriptions
- Equipment brochures
- UV Head loss calculations
- and other relevant documentation.

PROPOSED SCOPE OF SUPPLY:

Quantity	Description
Two (2)	VCS-40-A150-2 Vertical modules with automatic cleaning and low-pressure amalgam lamps. Lamps are 30" and are 150 watts.
One (1)	Ballast Control Center (BCC) / System Control Center (SCC) (PLC), NEMA 4X modified Type 304 SS enclosure with AB MicroLogix PLC with AB touch screen OUI. System will be air conditioned. With mounting legs to clear drain.
One (1)	Automatic quartz cleaning system center with air compressor
One (1)	Low level sensor
One (1)	Conduit with connectors to bring power to module in the temporary channel – approximately 20' in length
One (1)	Temporary channel constructed of painted carbon steel
Two (2)	Operator safety kit for UV system
Three (3)	O&M Manuals
Spares	
Eight (8)	UV Lamps
One (1)	Ballast
Eight (8)	Quartz Sleeves
Eight (8)	Seals and Wiper Rings

COSTARS Price Proposal	
UV Disinfection System, 1.5 MGD temporary channel, controls, accessories, and spare parts	\$127,985.00
Startup and Training for Temporary Unit	\$3,500.00
Startup and Training for Permanent Unit	\$3,500.00
Total (including all options)	\$134,985.00

Commercial Offering:

TERMS: Net 30 days
 30% upon approved drawings
 60% upon equipment delivery (or upon notification of ready and holding)
 10% upon start-up or within six (6) months from delivery, whichever occurs first

FREIGHT: Included in proposal

SUBMITTAL: 4 to 6 weeks after release of order

DELIVERY: 16-18 weeks after receipt of approved submittals

Proposal Accepted by: _____

Signature: _____ Date: _____

Notes:

1. E&W Equipment proposes to furnish materials and/or equipment for the above project. Any items not shown above as detailed under 'SCOPE OF SUPPLY', or other attachments to this proposal, are EXCLUDED.
2. Any order resulting from this proposal is subject to the COSTARS Contract Standard Terms and Conditions, COSTARS Contract Special Terms and Conditions, and the attached Terms and Conditions in addition to the following understandings:
 - a. Prices noted will be held valid for a period of 90 days from the date of the proposal.
 - b. Prices are in US Dollars.
 - c. Local or state taxes are not included in this proposal.
3. Purchase Orders shall be issued to E&W Equipment Company, LLC, 901 School Street, Moosic, PA 18507 and electronically to jconnor@ewequipment.com.
4. Items not included in this scope of supply include but are not limited to the following:
 - a) Structure above UV modules to protect from direct heat as well as from inclement weather.
 - b) Mechanical installation labor for installing equipment, cabling and instrumentation.
 - c) Lightning surge protection and electrical ground connection.
 - d) Unloading of components.
 - e) Placement in storage of all components.
 - f) All required equipment, labor, analysis, etc. for any on-site biological performance tests that may be required (regular support for operational tests is provided).
 - g) Supply and installation of electrical conduit and wiring for power supply and controls of UV system.
 - h) Any civil and/or mechanical work required to support or install the UV system or its associated controls. This includes concrete pads and/or Unistrut.
 - i) Power surge protection and lightning strike protection devices to be provided by contractor.
 - j) All transformers, circuit breakers and disconnect devices prior to the UV system enclosures are to be provided by electrical contractor.
 - k) Labor and installation of UV modules and electrical enclosures.
 - l) Contractor to supply stainless steel anchor bolts for component installation.

Glasco UV Warranty

The warranty period is 18 months from date of delivery or 12 months from date of the Certification of Substantial Completion whichever comes first. It covers all failures due to defects in material and/or workmanship excluding consumables (see separate lamp and ballast warranties below).

This warranty shall not apply to any failure or defect which results from the Equipment not being operated and maintained in strict accordance with instructions specified in Glasco UV's Instructions Manual or which results from mishandling, misuse, neglect, improper storage, improper operation of the Equipment with other equipment furnished by the Customer or by other third parties or from defects in designs or specifications furnished by or on behalf of the Customer by a person other than Glasco UV. In addition, this warranty shall not apply to Equipment that has been altered or repaired after start-up by any one except:

- Authorized representatives of Glasco UV, or
- Customer acting under specific instructions from Glasco UV.

Customer must notify Glasco UV in writing within 5 days of the date of any Equipment failure. This notification shall include a description of the problem, a copy of the operator's log, a copy of the Customer's maintenance record and any analytical results detailing the problem. If Customer has not maintained the operator's log and maintenance record in the manner directed in the Operation and Maintenance manual, or does not notify Glasco UV of the problem as specified above, this warranty may, in Glasco UV's discretion, be invalid.

Customer will fully cooperate with Glasco UV, in the manner requested by Glasco UV, in attempting to diagnose and resolve the problem by way of telephone support. If the problem can be diagnosed by telephone support and a replacement part is required, Glasco UV will either, at Glasco UV's expense, ship a repaired, reworked or new part to the Customer who will install such part as directed by Glasco UV or will direct Customer to acquire, at Glasco UV's expense, such part from a third party and then install such part as directed by Glasco UV.

This warranty is the exclusive remedy of the Customer for all claims based on a failure of or defect in the Equipment, whether the claim is based on contract (including fundamental breach), tort (including negligence), strict liability or otherwise. This warranty is lieu of all other warranties whether written, oral, implied or statutory. Without limitation, no warranty of merchantability or fitness for a particular purpose shall apply to the Equipment.

Lamp Warranty

Each low pressure, high output lamp is guaranteed for 13,000 hours operating time under normal operating conditions. Normal operating conditions include:

- On/off cycles max. 4 per 24 operating hours,
- Voltage fluctuations according to DIN IEC 38.

In case of premature lamp failure, the client is requested to send the lamp back to Glasco UV together with the information of UV unit serial number, hours run and on/off cycles. Glasco UV then offers the following:

- Lamp failure before 9,000 h: Glasco UV will send a replacement lamp free of charge,
- Lamp failure after 9,000 h: Glasco UV will issue a credit proportional to the hours not used.

Upon return to our facilities in Mahwah, NJ, we will dispose/recycle all used and failed lamps at no charge to the client.

Terms & Conditions

1. **Applicable Terms.** These terms govern the purchase and sale of the equipment and related services, if any (collectively, "Equipment"), referred to in Seller's purchase order, quotation, proposal or acknowledgment, as the case may be ("Seller's Documentation"). Whether these terms are included in an offer or an acceptance by Seller, such offer or acceptance is conditioned on Buyer's assent to these terms. Seller rejects all additional or different terms in any of Buyer's forms or documents.
2. **Payment.** Buyer shall pay Seller the full purchase price as set forth in Seller's Documentation. Unless Seller's Documentation provides otherwise, freight, storage, insurance and all taxes, duties or other governmental charges relating to the Equipment shall be paid by Buyer. If Seller is required to pay any such charges, Buyer shall immediately reimburse Seller. All payments are due within 30 days after receipt of invoice. Buyer shall be charged the lower of 1 ½% interest per month or the maximum legal rate on all amounts not received by the due date and shall pay all of Seller's reasonable costs (including attorneys' fees) of collecting amounts due but unpaid. All orders are subject to credit approval.
3. **Delivery.** Delivery of the Equipment shall be in material compliance with the schedule in Seller's Documentation. Unless Seller's Documentation provides otherwise, Delivery terms are F.O.B. Seller's facility.
4. **Ownership of Materials.** All devices, designs (including drawings, plans and specifications), estimates, prices, notes, electronic data and other documents or information prepared or disclosed by Seller, and all related intellectual property rights, shall remain Seller's property. Seller grants Buyer a non-exclusive, non-transferable license to use any such material solely for Buyer's use of the Equipment. Buyer shall not disclose any such material to third parties without Seller's prior written consent.
5. **Changes.** Seller shall not implement any changes in the scope of work described in Seller's Documentation unless Buyer and Seller agree in writing to the details of the change and any resulting price, schedule or other contractual modifications. This includes any changes necessitated by a change in applicable law occurring after the effective date of any contract including these terms.
6. **Warranty.** Subject to the following sentence, Seller warrants to Buyer that the Equipment shall materially conform to the description in Seller's Documentation and shall be free from defects in material and workmanship. The foregoing warranty shall not apply to any Equipment that is specified or otherwise demanded by Buyer and is not manufactured or selected by Seller, as to which (i) Seller hereby assigns to Buyer, to the extent assignable, any warranties made to Seller and (ii) Seller shall have no other liability to Buyer under warranty, tort or any other legal theory. If Buyer gives Seller prompt written notice of breach of this warranty within 18 months from delivery or 1 year from acceptance, whichever occurs first (the "Warranty Period"), Seller shall, at its sole option and as Buyer's sole remedy, repair or replace the subject parts or refund the purchase price therefore. If Seller determines that any claimed breach is not, in fact, covered by this warranty, Buyer shall pay Seller its then customary charges for any repair or replacement made by Seller. Seller's warranty is conditioned on Buyer's (a) operating and maintaining the Equipment in accordance with Seller's instructions, (b) not making any unauthorized repairs or alterations, and (c) not being in default of any payment obligation to Seller. Seller's warranty does not cover damage caused by chemical action or abrasive material, misuse or improper installation (unless installed by Seller). THE WARRANTIES SET FORTH IN THIS SECTION ARE SELLER'S SOLE AND EXCLUSIVE WARRANTIES AND ARE SUBJECT TO SECTION 10 BELOW. SELLER MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE.
7. **Indemnity.** Seller shall indemnify, defend and hold Buyer harmless from any claim, cause of action or liability incurred by Buyer as a result of third party claims for personal injury, death or damage to tangible property, to the extent caused by Seller's negligence. Seller shall have the sole authority to direct the defense of and settle any indemnified claim. Seller's indemnification is conditioned on Buyer (a) promptly, within the Warranty Period, notifying Seller of any claim, and (b) providing reasonable cooperation in the defense of any claim.
8. **Force Majeure.** Neither Seller nor Buyer shall have any liability for any breach (except for breach of payment obligations) caused by extreme weather or other act of God, strike or other labor shortage or disturbance, fire, accident, war or civil disturbance, delay of carriers, failure of normal sources of supply, act of government or any other cause beyond such party's reasonable control.
9. **Cancellation.** If Buyer cancels or suspends its order for any reason other than Seller's breach, Buyer shall promptly pay Seller for work performed prior to cancellation or suspension and any other direct costs incurred by Seller as a result of such cancellation or suspension.
10. **LIMITATION OF LIABILITY.** NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, SELLER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND SELLER'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE EQUIPMENT SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE EQUIPMENT. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY.
11. **Reservation Clause.** Buyer acknowledges that Seller is required to comply with applicable export laws and regulations relating to the sale, exportation, transfer, assignment, disposal and usage of the Equipment provided under this Agreement, including any export license requirements. Buyer agrees that such Equipment shall not at any time directly or indirectly be used, exported, sold, transferred, assigned or otherwise disposed of in a manner which will result in non-compliance with such applicable export laws and regulations. It shall be a condition of the continuing performance by Seller of its obligations hereunder that compliance with such export laws and regulations be maintained at all times. BUYER AGREES TO INDEMNIFY AND HOLD SELLER HARMLESS FROM ANY AND ALL COSTS, LIABILITIES, PENALTIES, SANCTIONS AND FINES RELATED TO NON-COMPLIANCE WITH APPLICABLE EXPORT LAWS AND REGULATIONS.
12. **Miscellaneous.** If these terms are issued in connection with a government contract, they shall be deemed to include those federal acquisition regulations that are required by law to be included. These terms, together with any quotation, purchase order or acknowledgement issued or signed by the Seller, comprise the complete and exclusive statement of the agreement between the parties (the "Agreement") and supersede any terms contained in Buyer's documents, unless separately signed by Seller. No part of the Agreement may be changed or cancelled except by a written document signed by Seller and Buyer. No course of dealing or performance, usage of trade or failure to enforce any term shall be used to modify the Agreement. If any of these terms is unenforceable, such term shall be limited only to the extent necessary to make it enforceable, and all other terms shall remain in full force and effect. Buyer may not assign or permit any other transfer of the Agreement without Seller's prior written consent. The Agreement shall be governed by the laws of the State of New Jersey without regard to its conflict of laws provisions.



March 8, 2022

Pennoni
1900 Market St, Suite 300
Philadelphia, PA 19103

Re: East Goshen Twp UV System Electric Budget

We are pleased to offer the following budget pricing for the electrical construction associated with the installation of the new UV system at the Ridley Creek WWTP.


- 1-Temporary power to bypass pumps
- 2-Install and wire motor starters and floats
- 1-Interconnect temp UV module with BCC/SCC
- 1-Install and wire BCC/SCC
- 1-Install 30KVA 480-240 transformer and fused over current protection
- 1-Run power to new air compressor
- 1-Connect power and data cables from BCC/SCC to UV modules
- 1-Interconnect existing effluent flow meter to BCC/SCC
- 1-Interconnect filter control panel with BCC/SCC
- 1-Install conduit, wire, local disconnect and connection of new crane hoist

Material (supplied by EGT)	\$27,824.00
Labor 477 hrs. @ \$90.00	\$42,930.00
Service trucks 10days X 2 @\$40.00	\$800.00
Disposables and hardware	<u>\$250.00</u>
Total Budget	\$71,804.00

- Note:
- all conduit, elbows, fittings to be PVC coated steel
 - all hardware to be stainless steel
 - all disconnect switches to be NEMA 4X Stainless Steel

If you have any questions or require additional information, please contact me directly @ 610-636-6511

Sincerely,
LENNI ELECTRIC CORPORATION



James C Hallman Jr
C&I Division

Kappe Associates, Inc.

PO Box 893191 Main Street
Emmaus, PA 18049

Page 1 of 2

Phone: 484-942-0721

<i>Company:</i> Pennoni	<i>Date:</i> 3/10/2022
<i>Address:</i> 121 Continental Drive, Suite 207 Newark, DE 19713	<i>Phone :</i> 302-655-4451
<i>Attention:</i> Mike Ellis	<i>FAX :</i> 302-654-2895
<i>Reference:</i> East Goshen- Ridley Creek STP UV Disinfection System Replacement	<i>Email:</i> MEllis@Pennoni.com

Dear Mike.

We would like to offer you the following proposal for your consideration.

Ridley Creek STP – UV Disinfection Equipment Upgrade Remote Access and UV Light Intensity Monitor.

We will provide the following modifications to the existing Filter Feed Control Panel. (FFCP).

- The Human Machine Interface (HMI) in the FFCP will display a representation of select information from the Allen Bradley HMI in the Glasco UV Control Panel (UVCP).
- The Operator will then be able to view the display screens from the FFCP remotely. Access to the FFCP HMI will be through a remote link in the existing desk top computer.
- The FFCP will monitor two UV light intensity analog signals. One from each UV module provided at the UVCP. A real time value, average daily value, and daily minimum will be available. The data will be logged.

- A separate discrete signal from the UVCP representing a common alarm or system failure will be monitored at the FFCP.

To establish a communication connection between the UVCP and the FFCP the UVCP must provide an Allen Bradley HMI Panel View Plus 7, 4 to 20 milliamp signals for each UV Light intensity, and a dry contact output for common alarm.

Not included: Field conduit or wiring as required.

Price **\$ 15,760.00**

PRICING: Does not include any state sales or use tax. Price is good for 60 days.

TERMS: The sale is FOB factory. Invoices for equipment are issued when shipment is made. The terms of payment are net 30 days from the invoice date. Late payment charges of 1 ½ % per month are added to the invoice.

This quotation is based on our interpretation of the request for proposal provided at the time of this quote. It includes only those materials and services listed and are subject to the correction of errors. Deviations will modify these prices.

To accept this proposal please sign below.

Date _____ P. O. _____

Signature _____

Please feel free to call me if you have any questions

Best Regards,

John Laidley

Zimmerman Environmental LLC

33 Cubbler Ct Bechtelsville PA 19505 | 484-374-8169 | zimmermanenv@gmail.com 3/10/2022

Tim Daily PE Pennoni

1900 market St, Suite 300

Philadelphia PA 19103

The following proposal is for the installation of (1) GALCO Temporary UV System, removal field fabrication and reinstallation of (1) UV Finger Weir, Installation of (1) overhead jib crane, demo of existing UV equipment and installation of (2) New UV POD VCS-A150 at the East Goshen Ridley Creek WTP. See attached (Mechanical Equipment Installation) scope of work.

East Goshen Township will be purchasing the UV Systems, supplying the overhead jib crane, raise the existing concrete walls, install and infill wall baffle, construction of effluent finger weir support wall, off loading and storing of equipment, and supply and operation of temporary effluent bypassing pumps and hose.

Lenni Electric or others will be responsible for the electrical connection for the bypass pumps as well as the electrical connections for the temporary UV System and the new UV System.

Total Price- \$47,500

Jeff Zimmerman President

Zimmerman Environmental

East Goshen Ridley Creek WTP Mechanical UV Installation
Scope of Work
3/8/22

1 Owner Responsibilities

East Goshen Township will be responsible for the

- Purchasing the UV System
- Raising the existing concrete walls
- Installing and infilling wall baffle
- Construction of effluent finger weir support wall
- Off Loading and storing equipment
- Temporary effluent bypassing Pumps and Hose

Lenni Electric – Temporary Pump and UV system hook-up. Glasco UV system Electrical Installation

2 Reference Documents

2.1 GLACO System

- GALCO Quote GUV12-100983 VC-40-A150X2
- GLACO Equipment Layout VC-40-A150X2, 4 sheet 9-10-21
- Pennoni Layout

2.2 Mechanical Equipment Installation:

2.2.1 Temporary UV System

- Temporally remove fill pipe
- Move temporary tank into position
- Temporarily support the tank
- Temporarily remove piece of the Effluent Storage Tank grating
- Provide hole protection
- Install UV POD in temporary system
- Provide 18-inch plug
- Set pumps in filter discharge boxes
- Provide 8-inch rubber hose
- Provide 12-inch PVC connection with two 6-inch connections.
- Run hose from pumps to the UV temporary tank.
- Test hose connections with temporary pump
- Run temporary ½ air hose from the compressed air connection to the UV module
- Breakdown temporary equipment
- Move UV module to permanent location
- Replace water fill pipe

East Goshen Ridley Creek WTP Mechanical UV Installation
Scope of Work
3/8/22

2.2.2 UV Finger Weir

- Remove the effluent finger weir and support
- Weld SS Weir wall attachment to finger weir
- Provide new 304 SS anchors ½" x 4 "long, total of 24
- Attach wall support
- Apply CIH elastomeric membrane to walls 16 inches high

2.2.3 Overhead jib crane

- Install two anchor plates 12-inch-wide x 16 inch long 1/2 inch thick: 304 SS, provide two 5/8-inch studs per plate, provide two ¾" x 5 inches long 304 SS anchors
- Install crane
- Install trolley and hoist

2.2.4 Demolition

- Remove existing UV equipment. 10 UV POD and control box
- Dispose of equipment

2.2.5 UV System Install

- Install the following equipment and components
 - Three Module Mounting Guides
 - One UV POD VCS-A150
 - Air compressor piping
 - Low Level Switch
- Provide this piping
 - ½ inch galvanized steel piping from the compressor to the UV POD. Provide 3 brass isolation ball valves. Mount Air Dryer/Regulator in compressor discharge line.
- Install the following equipment and components
 - The second UV POD VCS-A150

AREA CODE 610
692-7171

EAST GOSHEN MUNICIPAL AUTHORITY
EAST GOSHEN TOWNSHIP
1560 PAOLI PIKE, WEST CHESTER, PA 19380-6199

March 4, 2022

To: Municipal Authority Members

From: Mark Miller 

Ref: Aqua Pa. Wastewater purchase of East Whiteland Twp. wastewater system.

Aqua Pa. is notifying East Goshen Municipal Authority of the purchase of the assets of East Whiteland Township sewer system his notice is a requirement of the Pennsylvania PUC. We have 27 homes on our system that we invoice East Whiteland Township. I would refer to council should you have any comments. Should you like the USB let Dave or I know.

January 5, 2022

VIA CERTIFIED MAIL

Dana Pizarro, Chairman
East Goshen Township Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

In re: Pennsylvania Public Utility Commission Docket No. A-2021-3026132
Application of Aqua Pennsylvania Wastewater, Inc. – East Whiteland Township

Dear Chairman Pizarro:

We are regulatory counsel to Aqua Pennsylvania Wastewater, Inc. At the direction of the Pennsylvania Public Utility Commission (“PaPUC”), we are serving the East Goshen Township Municipal Authority with a copy of Aqua’s above referenced Application for PaPUC approval of its acquisition of the wastewater system assets of East Whiteland Township. The copy is in electronic format on the enclosed USB drive, with the Application, each of its many Exhibits, and supplemental information presented as separate files. In paper form, the Application, Exhibits and supplemental information total more than 6,500 pages. If you would like a paper copy of the Application/Exhibits/supplemental information, please contact me at 717.255.7641. Additionally, please be aware that the Application and supporting detail includes information, which is Confidential and Proprietary and which was filed with the PaPUC under seal. The Confidential and Proprietary Information is not included on the USB drive.

Also enclosed is a copy of the Notice which is being published in a newspaper having general circulation in the area.

Very truly yours,

THOMAS, NIESEN & THOMAS, LLC

By 

Thomas T. Niesen

Cc Alexander R. Stahl, Esquire (via email, w/o encl.)
Thomas S. Wyatt, Esquire (via email, w/o encl.)

PENNSYLVANIA PUBLIC UTILITY COMMISSION

Application of Aqua Pennsylvania Wastewater, Inc. ("Aqua") pursuant to Sections 1102 and 1329 of the Public Utility Code for: (1) Approval of the acquisition by Aqua of the wastewater system assets of East Whiteland Township situated within the Township of East Whiteland, Chester County, Pennsylvania; (2) Approval of the right of Aqua to begin to offer, render, furnish and supply wastewater service to the public in portions of East Whiteland Township, Chester County, Pennsylvania; and (3) An order approving the acquisition that includes the ratemaking rate base of the East Whiteland Township wastewater system assets pursuant to Section 1329(c)(2) of the Public Utility Code. Request for Approval of Contracts, including Assignments of Contracts, between Aqua and East Whiteland Township Pursuant to Section 507 of the Public Utility Code. Request for Approval of a Contract between Affiliated Interests Pursuant to Section 2102 of the Public Utility Code. Docket Number: A-2021-3026132.

Formal protests and petitions to intervene must be filed in accordance with Title 52 of the Pennsylvania Code, on or before February 28, 2022. All filings must be made with the Secretary of the Pennsylvania Public Utility Commission, P. O. Box 3265, Harrisburg, PA 17105-3265, with a copy served on the Applicant. The documents filed in support of the Application are available for inspection and copying at the Office of the Secretary between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday, on the Commission's website at www.puc.pa.gov, and at the Applicant's business address.

Applicant:

Aqua Pennsylvania Wastewater, Inc.

Through and By Counsel:

Thomas T. Niesen, Esq.
Thomas, Niesen and Thomas, LLC
212 Locust Street, Suite 302
Harrisburg, P A 17101

PMAA Management Workshops

West



FYI

April 29, 2022 • Seven Springs

8:30 - 9:00 a.m.

Registration/Networking

9:00 - 9:30 a.m.

Government Relations Update

- Jennie Shade, PMAA
- Jennifer Case, PMAA

Government Relations staff will provide a comprehensive overview of Association government relations activities including enacted state law, tracked legislation currently under consideration in the Pennsylvania House and Senate, upcoming federal and state agency regulatory and policy initiatives, as well as other related areas of interest.

9:30 - 10:00 a.m.

DEP Update: Water & Wastewater (1 PDH)

A DEP representative will present an overview of current compliance issues relevant to wastewater treatment plants and drinking water facilities, including new regulatory and policy initiatives.

10:00 - 11:00 a.m.

Ethics

- Brian Jacisin, State Ethics Commission
- The presenter will provide a review of ethical standards, recent Ethics Commission rulings impacting Municipal Authority officials, and the Do's and Don'ts...a guideline for the day-to-day employees.

11:00 - 11:15 a.m. • Break

Not able to attend?

Attend April 14, 2022 at the Hotel Hershey! More information can be found on the website.

11:15 - 11:45 a.m.

Best Practices - Cybersecurity (1 PDH)

- Franco Cappa, DHS Cybersecurity and Infrastructure Security Agency
- Franco will discuss water and wastewater operations cyber threats, best practices, and federal services to aid authorities to be more aware of risks and protect their systems. The presenter will also emphasize the physical protection services their agency also provides.

11:45 a.m. - 12:15 p.m.

NPDES Permit Renewal Process, Recent Trends, and How to Navigate (1 PDH)

- Samantha C. Schmucker, Herbert, Rowland, Grubic, Inc.
- Samantha will discuss the NPDES permit renewal process in which effluent limits are becoming more stringent for municipalities and authorities in Western Pennsylvania. Municipal and authority managers can expect the addition of metal limits, increased sampling frequencies, and additional permit requirements such as TRE and WQBEL Compliance Reports.

12:15 - 12:45 p.m.

Solicitor Update (1 CLE)

- Mike Witherel, Esq., Witherel Associates
- The presenter will address recent litigation involving municipal authorities as well as COVID and coping with the latest Sunshine Law amendments.

12:45 p.m. • Lunch & Networking

FAQ's

Are the sessions recorded?
Sessions are not offered in an on-demand format at this time.

Are sessions applicable to credits?
Credits are pending approval.

Does the hotel offer discounted pricing for lodging?
Yes, call 800-452-2223 and mention "PMAA."

Schedule is subject to change.

More information can be found on the PMAA website.



Registration →

REGISTRATION



Please check which location you will be attending:

Hotel Hershey – Thursday, April 14

100 Hotel Road
Hershey, PA 17033
717.533.2171

Seven Springs - Friday, April 29

777 Water Wheel Drive
Champion, PA 15622
800.452.2223

Name/Job Title: _____
Authority/Firm: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ E-mail: _____

Name/Job Title: _____
Authority/Firm: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ E-mail: _____

Name/Job Title: _____
Authority/Firm: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ E-mail: _____

Registration pricing PRIOR to March 31:

- Member - \$125.00 per person
- Prospective-Member - \$160.00 per person

Registration pricing AFTER to March 31:

- Member - \$145.00 per person
- Prospective-Member - \$175.00 per person

Payment Methods:

- A check, made payable to PMAA, is enclosed
- Visa MasterCard Discover

Card No.: _____ Exp.: _____
Security code: _____

Contact the hotel at the numbers listed above for accommodations or information.

On-line registration is available on our website.



ALL CANCELLATIONS MUST BE SUBMITTED TO THE OFFICE IN WRITING ONE WEEK PRIOR TO THE MEETING DATE. Due to reservation guarantees, unpaid no-shows will be charged. NO REFUNDS will be made after the cancellation deadline.





Board Member Training

Dates & Locations

Central - Friday, March 11

Best Western Premier
The Central Hotel &
Conference Center
800 East Park Drive
Harrisburg, PA 17111

West - Friday, March 18

DoubleTree by Hilton
Hotel Pittsburgh -
Cranberry
910 Sheraton Drive
Mars, PA 16046

East - Thursday, March 24

Delta by Marriott Center
100 Hotel
7736 Adrienne Drive
Breinigsville, PA 18031

Time

8 am - Arrival &
Networking

1 pm - Conclusion of
Training & Lunch

Educational Sessions:

- Legislative Updates
- Financial Responsibilities
- Board and Manager Responsibilities & Governing Body Authority Relations
- Board Engineer Relations - Tips & Tricks on How to Work with Your Engineer
- Ethics
- Solicitor Panel

Testimonial

"I am the Administrator for our Board and I do recommend that the Board Members themselves attend the training because it gives you a better understanding of the administrative side as well as the responsibilities that the members have. It is very informative and interesting.

I felt that it covered every aspect of how our Board is managed and it gave me a better understanding on the requirements for the board." - Debra Gibson



For more information and registration, visit the PMAA website at: municipalauthorities.org

REGISTRATION



Please check which location you will be attending:

Central – Friday, March 11
*Best Western Premier The Central
 Hotel & Conference Center*
 800 East Park Drive
 Harrisburg, PA 17111
 717.561.2800

West – Friday, March 18
*DoubleTree by Hilton Hotel
 Pittsburgh - Cranberry*
 910 Sheraton Drive
 Mars, PA 16046
 724.776.6900

East – Thursday, March 24
*Delta by Marriott Center
 100 Hotel*
 7736 Adrienne Drive
 Breinigsville, PA 18031
 610.391.1000

Name/Job Title: _____
 Authority/Firm: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ E-mail: _____

Name/Job Title: _____
 Authority/Firm: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ E-mail: _____

Name/Job Title: _____
 Authority/Firm: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ E-mail: _____

Registration pricing PRIOR to February 25:
 Member - \$115.00 per person
 Prospective-Member - \$160.00 per person

Registration pricing AFTER to February 25:
 Member - \$135.00 per person
 Prospective-Member - \$170.00 per person

Payment Methods:
 A check, made payable to PMAA, is enclosed
 Visa MasterCard Discover

Card No.: _____ Exp.: _____
 Security code: _____

Contact the hotel
 at the numbers
 listed above for
 accommodations
 or information.

On-line
 registration is
 available on our
 website.



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