

**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY  
MEETING MINUTES  
June 9, 2014**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, June 9, 2014 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Jack Yahraes, Kevin Cummings, Dana Pizarro, and Ed McAssey. Also in attendance were: Rick Smith (Township Manager), Carmen Battavio (Supervisor), Patrick McKenna (Attorney), Mark Miller (Director of Public Works), Scott Towler (BFES), and Mike Ellis (Pennoni).

**COMMON ACRONYMS:**

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

**Call to Order & Pledge of Allegiance**

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

**Chairman’s Report/Other Members’ Reports**

Ed attended the West Goshen meeting. There was discussion about the East Goshen Reservoir Road Pump Station. West Goshen feels that 1 million gpd is the minimum under the contract. Ed explained that East Goshen is concerned about the growth in West Goshen and the 25% penalty, if they go over 1m gpd.

**Sewer Reports**

**1. Director of Public Works**

Mark Miller reported for April 2014:

**Meters:** All meters were read on a daily basis. The two portable meters have not arrived yet. As they come in we will get them installed. The new meters have the capabilities of sending out the reading thru the internet. Mark has asked Allied to give a cost to modify the meters to allow us to get the readings over the internet for the 2015 budget.

**CC Collection:** The pump station wet wells were cleaned last week. The wet well at Barkway pump station had several leaks. We packed the leaks and pumped 60 gallons of grout into them to seal the leaks. The pumps are scheduled to be pulled for routine maintenance next week. We repaired a broken lateral on Red Maple Lane. Last Monday the lateral line sheared off which was allowing heavy inflow into the system.

**RC Collection:** The Hunt Country pump station was visited on a routine basis with no problems to report. The wet well was cleaned last week.

**RC Plant:** The wet well was cleaned last week. We are scheduled to re-install the lift station pump next week and pull another for routine maintenance.

Alarms: We responded to 21 alarms for the month of May.

PA One Calls: We received 116 PA calls in May.

Mark is concerned about the meter numbers. He is not sure if it is due to the new software.

## **2. Pennoni Engineer's Report**

Mike Ellis gave the following report:

Invoices: Invoices with summaries are provided under separate cover.

Ridley creek Sewage treatment Plant (RCSTP): Pennoni continues to provide operations assistance as needed. No operational issues were brought to our attention in May.

Reserve Pump Station Elimination: There are three outstanding punch list items at the time of this report: removal of the filter sock along the creek, re-seeding/re-topsoiling the lawn area at the old pump station driveway and building, and resubmission of as-built plans with surveyed manhole elevations. The contractor has informed us that they have visited the site to evaluate the work to be performed, and they are hopeful to complete the work by June 13.

Reservoir Rd Pump Station Act 537 Plan: We are awaiting Act 537 Plan review forms to be completed and returned from the East Goshen Township Planning Commission, West Goshen Township Planning Commission, Chester County Planning Commission, Chester County Health Department and West Goshen Sewage Treatment Plant operator. Reviews are due by July 9, 2014.

Based upon the revised force main routing and additional information that we submitted, the PA Dept. of Conservation and Natural Resources (DCNR) retracted their requirement for a field botanical survey of potential threats to certain plant species.

We are awaiting feedback from the U.S. Fish & Wildlife Service on the Phase 1 bog turtle habitat survey report that was submitted by Conestoga-Rovers & Assocs. in late April.

Tentative Act 537 Planning schedule (assuming no Phase 2 bog turtle screening):

	<u>Estimated Date</u>
USFWS Bog Turtle Habitat Coordination	June 30, 2014
County & Township Agency Review Comments Due	July 9, 2014
Revisions per agency comments	July 14, 2014
30-Day Public Comment Period	August 15, 2014
East Goshen Twp. Adoption	August 19, 2014
PADEP Review and Approval (120 Days)	December 21, 2014

### New Sewer Connections

We completed a review of the design plan and report submission for a new private wastewater pump station for Acero Precision at 1340 Enterprise Drive, issued a comment letter, and discussed comments with the design consultant.

### Fairway Village Manhole Lining

Abel Recon will perform the demonstration of the SprayWall monolithic polyurethane interior manhole lining system on June 10, 2014. The demonstration will begin at 11:00am at the site.

### RCSTP Tank Covers

We completed the evaluation of tank cover alternatives and forwarded an updated summary memo to the Township.

## **RESERVOIR ROAD PUMP STATION**

The Authority members reviewed a letter from the Consulting Engineers for the West Goshen Sewer Authority. West Goshen does not want to lose revenue. East Goshen is not at 1 million gpd yet. West Goshen wants us to wait to do the diversion until we reach 1 million gpd. Anything over 1 million gpd is a 25% additional fee. The capacity at West Goshen is 6 million gpd. They are around 5 million gpd. West Goshen will be impacted when the total goes over 6 million gpd. Rick wants to continue the process of getting permits, etc. He suggested that construction start when East Goshen gets to 950,000 gpd. He will write a response to West Goshen.

**3. Big Fish Environmental Services** – The following is Scott’s report for May 2014:

**Treatment Process Operation**- During April 2014, there were one exceedance of the final effluent discharge limitations for Outfall 001 and no discharge from Outfall 002. The exceedance reported was a total phosphorus monthly average concentration of 0.54 mg/L as compared to the permitted limitation of 0.50 mg/L.

The monthly average total phosphorus concentration was 0.54 mg/L as compared to the discharge limitation of 0.5 mg/L. During the month, the final effluent total phosphorus concentration discharged ranged from 0.30 mg/L to 0.68 mg/L with an average of 54.3 gallons per day of aluminum sulfate solution.

There was no discharge to Applebrook, Outfall 002, during April 2014.

During the month of April 2014, the total phosphorus concentrations at the final effluent outfall 001 were slightly elevated at or above the permitted discharge limitation of 0.5 mg/L.

Aluminum sulfate feed rates were increased as the month progressed to assist with total phosphorus removal. Periodically, the influent flow rate and volume to the SBRs resulted in “Filled Decants.” The Filled Decant condition results in diverting a mixture of influent wastewater and treated effluent directly to the post flow equalization basins, disc filters and disinfection prior to discharge through outfall 001.

During the month of May 2014, there was no discharge to Applebrook.

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

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

Process monitoring of each SBR included ammonia as N, Nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Foam concentrations remain reduced during the month of April.

Increased sludge wasting was continued to maintain lower the MLSS concentrations. SBRs 3 & 4 were observed to have a maximum of approximately 5% to 10% of the surface area covered with a medium brown colored foam. Adjustments to the treatment process to lower the MLSS concentrations and raise the F:M ratio within the target range of 0.045 to 0.06 were ongoing during the month. Process adjustments to manage the foam included adjustments for achieving the lower ammonia as nitrogen discharge concentration of 2.5 mg/L as compared to the 7.0 mg/L during April.

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

Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. The volume of aluminum sulfate solution to the SBRs was increased from a daily average of 54.3 gpd during April to 82.6 gpd during May to assist with total phosphorus removal. Increased aluminum sulfate dosages prior to filtration were increased during the month. The increase in alum addition resulted in an increase in soda ash addition. During May the daily average soda ash addition was 439 lbs/day as compared to the Paril daily average of 308 lbs/day. The increase in soda ash was to assist towards maintaining pH concentrations above 7.0 standard units continued during the month.

SBR #2 remains out of service as a treatment unit, however, partially filled with MLSS which is continuously mixed and aerated. The majority of the contents were transferred to the sludge holding tanks. This SBR was periodically placed in service to assist with managing peak flows to reduce the impact of Filled Decant conditions.

The decanter for SBR 3 was occasionally observed as being slightly tilted within the water level. The effluent knife valve was routinely closed and the decanter filled with water to assist with lowering the decanter within the water level. The frequency of occurrence varied during the month. The SBR is planned for removal from service during late June for inspection.

#### **Solids Dewatering and Disposal:** May 2014

During the month, sludge wasting to the sludge holding tanks and decanting of the sludge holding tanks was ongoing. Process monitoring included pH, total alkalinity and total solids. Sludge holding tank #1 was in service. The level at the beginning of the month was 7.44 feet and the level at the end of the month was 11.72 feet. The initial total solids concentration was 0.62% and ended the month as 0.73% total solids. The average pH concentration was 7.30 S.U. and total alkalinity of 386 mg/L. No supernatant was decanted during the month. A total of 1,000 pounds of soda ash were added during the month for pH adjustment.

Sludge holding tank #2 was in service. The level at the beginning of the month was 14.39 feet and the level at the end of the month was 13.99 feet. The initial total solids concentration was 0.97% and ended the month as 0.80% total solids. The average pH concentration was 7.38 S.U. and total alkalinity of 490 mg/L. 83,626 gallons of supernatant were decanted during the month. A total of 100 pounds of soda ash were added during the month for pH adjustment.

**Significant storm/hydraulic Loading Events** – None were experienced past May 2, 2014.

#### **Minor Repairs and Preventive Maintenance**

1. Replaced the Inlet air filters for blowers B1A, B1B, B1C and B2.
2. Replaced the suction and pump tubing for the influent samplers and final effluent sampler. The final effluent suction tubing is replaced monthly.
3. Replaced the pump hose on alum feed pump.
4. Cleaned and calibrated SBR LDO probes.

#### **Approval of Minutes**

Kevin moved to accept the minutes of May 12, 2014 as corrected. Dana seconded the motion. The motion passed unanimously.

#### **Approval of Invoices**

1. Dana moved to approve payment of the following Pennoni invoices:
  - a. Pennoni #591749 \$ 691.75
  - b. Pennoni #591750 \$ 5,761.25
  - c. Pennoni #591751 \$ 1,766.75

d. Pennoni #591752 \$ 1,238.00

Ed seconded the motion. The motion passed unanimously.

2. Dana moved to approve payment of the Gawthrop invoice #119419 for \$1,300.00. Ed seconded the motion. The motion passed unanimously.

### **Liaison Reports**

Board of Supervisors – Carmen reported that they are becoming a party to the proceedings for Sunoco.

### **Financial Reports**

1. Jon Altshul's June 5, 2014 Financial Report for May 2014:

The Municipal Authority recorded \$6,847 in revenues (primarily from tapping fees) and \$15,570 in expenses in May, a difference of -\$8,723. The fund balance is now \$1,589,282.

### **Goals**

1. Rick provided a draft mission statement with the correction that was requested. After review of the draft, Ed moved to adopt the mission statement. Kevin seconded the motion. The motion passed unanimously. This 2014 goal is complete.

2. The members reviewed the additional information on tank covers. It appears that as of this date the cost will be about \$1 million. This 2014 goal is completed.

3. Dana made a motion to authorize the Chairman to sign the Sewer Connection Agreement for 195 Wyllpen Place in Willistown Township. Kevin seconded the motion. The motion passed unanimously.

### **Any Other Matter**

1. Jack complimented Rick on the letter to the residents about the demonstration project on the manhole at the entrance to Fairway Village.

### **Adjournment**

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

Respectfully submitted,

Ruth Kiefer  
Recording Secretary