

**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY  
MEETING MINUTES  
July 9, 2012**

The East Goshen Township Municipal Authority held their regularly scheduled meeting on Monday, July 9, 2012 at 7:00pm at the East Goshen Township building. Members in attendance were: Chairman Dana Pizarro, Vice Chairman Fran Beck, and Joe McCawley. Also in attendance were: Rick Smith (Township Manager), Dan Barbato (Pennoni), Bob Adams, Scott Towler (BFES), Walter Wujick (Conservancy Board), and George Martynick (Planning Commission).

**Call to Order & Pledge of Allegiance**

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

**Approval of Minutes**

The Chairman noted that the minutes of the June 11, 2012 meeting were approved as corrected.

**Approval of Invoices**

Joe moved to approve payment of Pennoni invoices:

#511381	\$ 2,125.00
#511382	\$ 707.25
#511383	\$ 1,142.00
#511384	\$ 7,009.25
#511385	\$ 3,050.25

Fran seconded. The motion passed unanimously.

Joe moved to approve payment of Gawthrop Greenwood invoices:

#99747	\$ 570.00
#100326	\$ 114.00

Fran seconded. The motion passed unanimously.

Joe moved to approve payment of Mallie Falconiero & Co invoice #1000016943 \$7,900.00.

Fran seconded. The motion passed unanimously.

Fran moved to approve payment of Chester Co Conservation invoices:

Reserve	\$ 250.00
HM PS	\$ 250.00

Joe seconded. The motion passed unanimously.

Fran moved to approve payment of invoices for Lockwood closing:

Xylem Godwin #400230917	\$ 4,780.00
Power Pro Equip #P42685	\$ 450.00
Lenni Electric #12640	\$ 352.68

Joe seconded. The motion passed unanimously.

Joe moved to approve payment of SJM invoice \$42,086.94. Fran seconded. The motion passed unanimously.

**Liaison Reports**

1. Conservancy Board – Walter reported that the Board wants to officially name the new forest area at Line Road and Paoli Pike. They are working to expand the areas where they will remove invasives. They are planning to replant the E. Boot Road area that was cleaned out by Mark Miller.

### **Financial Reports**

1. Jon Altshul, CFO, provided reports in a new format that the Authority members found easier to understand.
2. A memo listing township staff costs for the Lockwood closing was reviewed. Joe moved to pay the Township from the Authority for the 3 items totaling \$7,780.40. Fran seconded the motion. The motion passed unanimously.

### **Old Business**

1. Project Update – Mike Ellis of Pennoni Associates, provided a Sewer Diversion Report with projected schedules for Marydell, Reserve and Hershey Mill projects. Projected completion for Marydell is July 2013, for Hershey Mill is July 2013, and for Reserve October 2013. There was discussion about bids. Rick commented that Marydell needs to go to bid first.

### **Goals**

1. Newsletter – Dana will do an article for the Fall Newsletter which is due August 1st.

### **New Business**

1. Resolution 31 – The members reviewed Resolution 31 to adopt certain financial policies and procedures. Fran moved to approve adoption of Resolution 31. Joe seconded the motion. The motion passed unanimously.

### **Capacity Requests**

1. The Authority members reviewed the Conditional Use plan for 1325 West Chester Pike (Goshen Meadows). The applicant has requested sewage flow allocation for the new 64-unit apartment community. Joe moved to approve the request from Goshen Meadows for sewage flow allocation. Fran seconded the motion. The motion passed unanimously.

### **Sewer Reports**

1. Mark Miller, Director of Public Works, provided the following report for June:  
The Public Works Dept. started the closure of the Lockwood Plant on June 18<sup>th</sup> when they fabricated a floating dock for the pump. The actual earth moving began June 21<sup>st</sup>; they hauled approximately 12,000 yards at no cost to the Authority with the exception of the heavy equipment. They had to hire dump trucks to move the 3000 yards of dirt that were stock piled in Milltown which took two days to move. They brought in 136 tons of lime to cover the sludge from the first pond. So far the job has gone very well and the neighbors have been very cooperative. They stayed in contact with the Homeowners Association explaining what was being done on a weekly basis. No complaints have been received. Photos were attached. The Authority members appreciated the photos.  
Meters: Have been read with no problems to report.

C.C. Collection: Pumping Stations have been visited on a daily basis, bar screens were cleaned and the wet well was washed down. We were notified of three lateral backups, each was cleared with the use of the trap plunger.

R.C. Collection: No problems to report.

Ridley Creek Plant: The meter has been ordered that was approved last month.

Mark met with Mike Ellis regarding the Muffin Monster that was approved last month to discuss the installation. Rick and Mark decided to install the unit in-house rather than bidding out. Mark will have Lenni Electric complete the electric and Public Works will install the unit.

PA-One Calls: They responded to 131 PA One Calls for June.

A dozen caps were installed on the systems.

2. Dan Barbato, Pennoni, provided the engineer's report:

Invoices: Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP) – No activity this period. We will assist with supporting and reviewing warranty claims and with plant troubleshooting as requested.

LCSTP Elimination

All Sewers and manholes have been tested and televised. Restoration has also been performed including grading, seeding, mulching, paving and curb replacement.

Remaining work includes abandoning existing sewers and manholes in-place with flowable, fill, preparation of as-built plans, and minor punchlist work (such as one castiron box may still need to be installed over one cleanout). The flowable fill work is scheduled for Thursday, July 12.

We have performed on-site, part-time construction inspection services throughout the duration of this work. We have also continued to provide in-office construction support as needed.

We anticipate the contractor will submit Invoice #2 by Friday, July 6<sup>th</sup>. We have already measured quantities for the invoice with the contractor.

Hershey's Mill PS Diversion and Preserve PS Elimination

We submitted the Reserve PS and the Hershey's Mill PS GP-5 "General Permit for Utility Line Stream Crossing" application to DEP on June 27 and June 22 respectively.

We will make Erosion and Sedimentation Control submissions for both projects to the Chester Co Conservation District by Friday July 6<sup>th</sup>.

We are preparing a Closure Plan for the Reserve PS and a Part 2 WQM Permit Amendment for the Hershey's Mill PS, now that the details of construction (i.e. manhole connections, pipe materials, sewer routing, etc.) have generally been agreed-upon, and we expect to submit both to DEP by the end of July.

Marydell PS Elimination

We met with PECO on-site on June 26 to discuss overhead and underground utility locations and conflicts. If any part of a trench is within 4 feet of a utility pole, the pole must be braced by PECO. We are tentatively planning to review the route of the new sewer to be directly under the edge of the Paoli Pike shoulder instead of on the shopping center side of the utility poles in order to avoid clearing 5+ trees and to minimize construction challenges associated with the overhead electric lines. However, there is an

underground gas anode line that may be in the exact location of the revised sewer, although the sewer would be significantly deeper.

We have also received additional information and utility plans for Verizon about their telecommunications ductbank that was marked-out just inside the Paoli Pike travel lane (just inside the white line). Verizon has informed us that the ductbank is not concrete encased. They have also informed us that they own the conduits, but AT&T runs lines through them.

To determine with certainty if this revised location is feasible for the sewer, we have coordinated with the Township to perform three soft-dig exploratory test pits along the Paoli Pike shoulder. We prepared a PennDOT Highway Occupancy Permit (HOP) application for the test pits, and the permit was issued on July 3.

We have also prepared a separate HOP application for the sewer construction, but it has not yet been submitted. Depending upon when the test pits are scheduled, we may submit the HOP application before performing the test pits to get PennDOT's review process underway. This application proposes a jack & bore (trenchless) installation across Boot Road and open-cut trenching for the remainder of the work. The Paoli Pike crossing at Saratoga Drive is proposed to occur at night with a full road closure and detour.

We are preparing a Closure Plan for the Marydell PS that we may expect to submit to DEP by the end of July, pending final determination of the sewer location.

#### Hershey's Mill PS Capacity Evaluation

We previously performed drawdown testing at the pump station and an analysis of pump and system curves to verify the station has capacity to handle peak instantaneous flows following the Lockwood Chase diversion. One pump was found to have inadequate capacity. The Township quickly replaced the pump. We performed a follow-up drawdown test on June 11. During the test, the flow meter showed that the replaced pump was still not pumping at required capacity, but our follow-up calculations indicate that it likely does have adequate capacity.

#### Hershey's Mill Muffin Monster

We expect to have a concept design completed by the end of July. We will then set up a meeting on-site with all applicable parties (Pennoni, Township and Public Works, the Township's controls contractor, and the Muffin Monster supplier) to review the concept and determine who will perform the construction (Public Works or a contractor) and how the materials will be acquired (direct purchase by Authority or by contractor.)

### 3. Big Fish Environmental Services, Inc., Scott Towler presented the following:

#### Treatment Process Operation

Sequencing batch reactors (SBRs) numbered 1, 3, & 4 were in service during the month of June. SBR No. 2 remains out of service with approximately a mixture of 1 foot of sludge and rainwater within the tank. Efforts to clean the tank using a submersible pump rated with a TDH of 100 ft resulted in tripping the 20 amp circuit breaker. Replacement of the 20-amp circuit with a 30-amp circuit breaker, cleaning of SBR No.2 will be scheduled to transfer the contents to sludge holding tank No. 2.

During the month of May, there were no exceedances of the permitted effluent limitations. On site analysis of split, samples with the certified contract laboratory are ongoing. Trend data indicates consistent patterns of the onsite analysis test results are

generally greater than the contract laboratory, with the exception of total suspended solids. Steps to improve the precision of onsite analysis included rinsing all glassware used for phosphorus analysis with a 10% v/v solution of hydrochloric acid solution. Duplicate sample analysis is ongoing and purchase of a NIST standard (and associated glassware) is under investigation.

Adjustments to the SBR process during June include lowering the mixed liquor concentration (MLSS) to lower the food to mass ratio (F:M ratio) to eliminate the conditions of a long sludge age and low F:M ratio. Filamentous bacteria identified as *Microthrix parvicella* thrives under the conditions of long SRT and low F:M ratios. Adjusting the SBR control set points to adjust for the increased ambient temperatures (effluent temperatures around 23°C), increased settle times and management of extended anoxic/anaerobic conditions resultant of settle and idle times (100-120 minutes). A summary of the flow data for May and June 2012 was presented for review.

#### Solids Dewatering and Disposal

The centrifuge dewatering system was not operated during the month of June. During the month, sludge wasting and decanting of the sludge holding tanks was ongoing. The sludge holding tank sludge was monitored for pH and alkalinity on average twice per week and total solids once per week.

Sludge holding tank No.1 began the month as 0.71% total solids and ended the month at 0.99% total solids.

Sludge holding tank No. 2 began the month as 0.78% total solids and ended the month at 0.87% total solids.

The present rate of sludge thickening suggests a target sludge concentration of 1.0 to 1.2% total solids is anticipated during July, therefore providing adequate conditions for operation of the centrifuge sludge dewatering system.

#### Maintenance, Repairs and Warranty

Outstanding: Centrifuge replacement parts Worth & Co to replace parts used for warranty repair. ACTION: BFESI will provide Worth & Co a letter requesting resolution of the matter on or before October 1, 2012.

Outstanding: JWC fine screen has a failed UPS- Worth & Co informed. ACTION: Corrected. BFESI personnel installed the replacement UPS provided by Worth & Co.

Outstanding: Leaking PVC valves for alum piping to SBRs. ACTION: Worth repaired valve. Issue resolved.

Outstanding: Sludge holding tank aeration piping paint is failing. Unresolved.

Outstanding: SBR no. 4 Alum valve fails to open. Unresolved.

#### Scheduled Maintenance/Repairs

Installed a vent pipe for the centrifuge drain line as recommended by former Alfa Laval service Manager.

Installed piping and valve to flush out polymer and sludge fed piping to the centrifuge from the centrifuge pump discharge piping.

Replaced the oil and extended sight tubes for all five (5) SBR blowers.

Replaced the UV lamps and quartz sleeves for UV Bank No.1, Module 1. Removed all UV modules, cleaned and washed. Cleaned UV channel and returned all equipment to service.

**Any Other Matter**

1. ARC Flash training – Dana feels it should be considered. Scott commented that they use Lenni Electric for this.
2. Open House – The date for the open house was discussed. Rick suggested the 1<sup>st</sup> week of October to coincide with the Township Fall Newsletter.
3. PMAA meeting – Dana will attend.

**Correspondence and Reports of Interest** - None

**Public Comment** – None

**Adjournment**

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

Respectfully submitted,

Ruth Kiefer  
Recording Secretary