

**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
November 11, 2013**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, November 11, 2013 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Fran Beck, Dana Pizarro, Ed McAssey, Jack Yahraes and Kevin Cummings. Also in attendance were: Rick Smith (Township Manager), Scott Towler (BFES), Bob Adams (Atty), Mike Ellis (Pennoni), and Mark Miller (Director of Public Works).

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 & 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&I – Inflow & 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

Fran 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. Fran asked if anyone would be recording the meeting and there was no response.

Chairman’s Report/Other Member’s Reports

Dana reported that he attended a seminar about private party I&I. He will forward the materials to Rick and Mark.

Approval of Minutes

The Chairman noted that the minutes of the October 14, 2013 meeting were approved as corrected.

Approval of Invoices

1. Jack moved to approve payment of the following Pennoni invoices:

- | | | |
|----|-----------------|-------------|
| a. | Pennoni #566093 | \$ 105.00 |
| b. | Pennoni #566094 | \$ 1,934.50 |
| c. | Pennoni #566095 | \$ 7,597.75 |
| d. | Pennoni #567776 | \$18,056.50 |
| e. | Pennoni #566097 | \$ 680.00 |

Ed seconded the motion. The motion passed unanimously.

f. Ronald Smith App #2 for \$32,088.71. Jack moved to approve payment in the amount of \$32,088.71 for the Ronald Smith App#2. Dana seconded the motion. The motion passed unanimously.

g. Dana moved to approve payment of the MGK Industries, Inc. #4487 for \$7,250.00. Kevin seconded the motion. The motion passed unanimously.

h. Jack moved to approve payment of the Gawthrop invoice for \$1,331.71. Dana seconded the motion. The motion passed unanimously.

Financial Reports

Jon Altshul's November 4, 2013 report - The Municipal Authority recorded \$2,562,102 in revenues and \$957,570 in expenses in October, a difference of \$1,604,532. The fund balance is now \$1,655,909. The overwhelming majority of the expenditures and revenues this month were related to the proceeds of the \$2.5 million DeVal note, which closed on October 15.

That 20-year note closed with an interest rate of 3.049%. Interest on the note is now being paid out of the sewer operating fund and the first principal payment is scheduled for October 2014. \$1.6 million is being retained by the Municipal Authority for the anticipated costs associated with the Reservoir Road Pump Station project. The remaining balance of the loan proceeds (\$877,000 or \$900,000 minus the various costs of issuance) was transferred to the Sewer Sinking Fund (formerly the Sewer Capital Reserve Fund) as a reimbursement for the cost of the various diversion projects.

In addition, \$67,552 in expenses was incurred for the Reserve pump station project; \$7,558 was incurred for the Hershey Mill pump station project; and \$2,020 was incurred for the Reservoir Road pump station project.

Goals

Kevin mentioned that he did submit an article for the Newsletter.
Ed will attend the 4th Quarter West Goshen meeting in December.

New Business

In a letter dated October 13, 2013, Maillie LLP, CPAs, described their audit objective and scope. The cost of the proposed audit will be \$10,800, which includes \$8,300 audit fee and \$2,500 due to the new bond issue and various construction projects. Jack moved to accept the proposal from Maillie LLP for \$10,800. Dana seconded the motion. The motion passed unanimously.

Capacity Requests

Patricia O'Neill, 1637 Manley Road, subdivision – Rick explained that the resident wants to subdivide one acre of her property. Kevin moved to authorize execution of the Sewer Capacity Reservation Agreement for Patricia O'Neill. Jack seconded the motion. The motion passed unanimously.

Sewer Reports

1. Mark Miller, Director of Public Works -

Meters: All meters were read on a daily basis. We are waiting on bands for the probes before we can install the portable meters.

Pump Stations: Were visited on a daily basis.

C.C. Collection: We cleaned and televised 4050 feet in the Meadows. We will begin cleaning and televising Supplee Valley on Thursday. We replaced all the castings and lids in Grand Oak, Clover Land and Heather Lane. We have been having problems with the Hershey Mill Pumping Station. It appears that the main controller for the pumps is failing. A new controller has been ordered.

R.C. Collection: The contractor has finished the sewer line at the Reserve. The new line was televised by the contractor. The pump station was stripped out by the Public Works Dept. The

pumps were sent to Deckmans for the rebuild. They also will be changing the impellers for use at the Hunt Country Pump Station.

I met with the property owner that backs up to the Hunt country Pump Station to explain the renovations to the pump station. The resident was ok with what we are going to do.

R.C. Plant: No problems to report

Alarms: We received a total of 27 alarms in October.

PA One Calls: We received 86 PA One calls for the month of October.

Lateral repairs: 5 for the C.C. Collection
2 for the R.C. Collection

I&I report: On Thursday we tried out the new smoke tester on the Ridley Creek interceptor line. We also found a significant break in Supplee Valley and on Baldwin Drive. Repairs are scheduled for Tuesday Nov. 12, 2013.

Mark mentioned that they are done road paving. This winter they will do smoke testing throughout the township. They will send letters to the residents, and notify the fire company and 911.

Also, the Hersheys Mill Pump Station lost a flow meter due to burn out which will cost about \$4,000. He turned a claim in to the insurance company.

2. Pennoni – Mike Ellis gave the following report for October:

RCSTP – Pennoni continues to provide operations assistance as needed. No issues were brought to our attention in October.

Reserve PS Elimination – We performed daily part-time construction observation of sewer installation, testing, pump station demolition, and restoration. We also reviewed and processed Payment Application #2.

Wastewater was diverted into the new sewers on October 15, 2013. All work on the project has been completed including restoration. Before recommending final payment, the contractor needs to provide a letter from their geotechnical engineering confirming adequate backfill compaction within the detention basin berm as well as written notification that they will return in the spring to remove the filter sock along the creek.

Reservoir Road Pump Station Act 537 Plan – We have continued the topographic and existing conditions field survey of the proposed pump station parcel and proposed force main route to the tentatively proposed gravity sewer connection in Bow Tree. We made a PA One Call request and have received responses that utility providers are physically marking their facilities in the area of the proposed pump station and along the proposed force main route. Once all utilities are marked, we will complete the field survey and finalize the existing conditions plan.

Our modeling indicates the Ridley Creek interceptor likely does not have adequate capacity for 300,000 gpd from the pump station. Mark Miller has field confirmed the pipe sizes and materials in the modeling, which are 15” diameter PVC. We are coordinating to obtain interceptor as-built plans in order to confirm modeled pipe slopes to determine if the model may be underestimating capacities.

We have prepared and submitted conceptual scopes, mapping, and construction cost estimates for five force main routing alternatives to the Township for review and discussion. The base alternative assumes no upgrades to any existing gravity interceptor sewers; whereas, the four other alternatives are based upon replacing approximately 1,000 L.F. of interceptor sewers with larger pipes. The Act 537 Plan will be completed and submitted to the review agencies after the routing and extents of the force main and sewer upgrades are determined.

Semi-Annual I/I Report – The semi-annual report was finalized and submitted to the Township.
Hunt Country Pump Station – We performed field visits with Mark Miller to both the Hunt Country and Reserve Pump Stations in late September to evaluate the feasibility of replacing the pumps, generator, and other equipment at the Hunt Country PS with the equipment the Township removed from the Reserve PS. We performed a cursory analysis of the design operating points of the pumps based upon available information, and it appears the Reserve PS pumps are oversized for use in the Hunt country PS and will need smaller impellers. We are awaiting further design data on the Hunt Country PS system curve in order to determine the exact impeller size required. We have prepared a draft memo summarizing our findings and recommendation.

3. Big Fish Environmental Services – The following is a summary of Scott’s report for October 2013:

Treatment Process Operation- During September 2013, there were no exceedances of the final effluent discharge limitations for Outfall 001 and Outfall 002.

The monthly average total phosphorus concentration was 0.39 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 0.18 mg/L to 0/60 mg/L. Two additional samples were collected and analyzed during the month.

Flow to Applebrook, Outfall 002, continued during September and mid-October.

In October, Mike Brenner, Water Quality Specialist from PA DEP was on site to conduct a facility inspection. No Violations were observed. Overall, the report indicated that they facility and final effluent are in good condition.

During October, there are no exceedances of the permit limitations for Outfall 001 and Outfall 002.

Transfer of treated effluent to the Applebrook Golf Course continued during mid-October. Flow was discontinued beginning October 15th and will remain off until the Spring of 2014. During October, the daily average for Outfall 002 was 135,600 gallons per day. Composite samples are collected at the influent doghouse manhole. The influent flow meter reading is collected from the influent flow meter located prior to the Screening Building, excluding the internal recycle flows.

SBRs 1, 3 and 4 were in service during October.

Process monitoring of each SBR included ammonia as N, nitrite as N, nitrate as N, COD, SSV, MLSS and total phosphorus. Foam concentrations remained around the same concentration as September. Present surface area coverage during React Phase ranges from approx. 50 to 80%. The foam color remains as light to medium brown in color and averages 2 to 4 inches in depth. Daily monitoring of the influent and final effluent 24-hour composites samples for total phosphorus is ongoing. Daily analysis of the final effluent flow equalization grab sample is total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. The volume of aluminum sulfate solution to the SBRs was increased at beginning of October as total phosphorus concentrations in the SBRs during September were elevated. The dosages were gradually reduced after the first week in October to a daily average of 63 gallons per day at the end of October.

SBR #2 remains out of service as a treatment unit. The tank was partially filled during the storm event.

Process Monitoring On-Line Instrumentation:

Coordination with the Hach Company has been placed on hold until a demonstration unit becomes available.

During the month, sludge wasting to the sludge holding tanks and decanting of the sludge holding tanks was ongoing. Process monitoring includes pH, total alkalinity and total solids. Sludge holding tank #1 was in service. The level at the beginning of the month was 4.56 feet and the level at the end of the month was 9.77 feet. The initial total solids concentration was 0.80A% and ended the month as 0.93% total solids. 70,525 gallons of supernatant was decanted during the month. A total of 700 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 10.69 feet and the level at the end of the month was 8.44 feet. The initial total solids concentration was 1.07% and ended the month as 0.72% total solids. No supernatant was decanted during the month. A total of 750 pounds of soda ash were added during the month for pH adjustment. No significant storms were experienced during October 2013.

Minor Repairs and Preventative Maintenance

1. On October 1, 2013, disc filter #1 failed. Troubleshooting determined a failed UPS within the control panel. Temporarily rewired disc filter controls are allowing for operations should the filter be required.
2. On October 1, 2013, identified three (3) of four (4) actuators for the intake louver located within the SBR building blower room were not functioning as intended. Replacement of the failed actuators is recommended.
3. On October 4, 2013, Allied Control Services (ACS) was on site to calibrate flow meters and charts.
4. On October 4, 2013, Lenni Electric was on site and replaced the three (3) influent pump electrical service disconnects located at the influent wet well.
5. On October 8, 2013, the replacement UPS for disc filter #1 was installed. The disc filter was returned to service.
6. On October 14, 2013, disc filter #1 backwash cycle run times were observed to be excessive and atypical. Troubleshooting determined that the level transducer failed.
7. On October 16, 2013, the telescopic valve for sludge tank #1 was observed to have a limited travel distance and not achieving the full travel distance of approx. 4 feet. The vendor will be contacted to investigate adjusting the telescopic valve control points to achieve the full travel distance.
8. On October 28, 2013, the replacement level transducer for disc filter #1 was installed. The disc filter was returned to service.
9. On October 28, 2013, the Siemens HIM Control panel date was observed to be incorrect. The HIM Date and time were updated; however, the changes were observed to have returned to an incorrect date on the following day. Gary Roberts from ICI will be contacted.
10. During the month of October, SBR #3 decanter was observed to have risen partially or completely out of the SBR water surface. The decanter was regularly filled with a return to its desired position within the SBR basin. Paul Christensen from Siemens will be contacted to assist towards identifying conditions which would result in the decanter's position being above the water surface.

Scott provided a copy of the NPDES Compliance Inspection Report.

Adjournment

There being no further business, Jack moved to adjourn the meeting. Dana seconded the motion. The motion passed unanimously. The meeting was adjourned at 7:40 pm.

Respectfully submitted,

Ruth Kiefer
Recording Secretary