

NORTH MIDDLETON AUTHORITY

Board Meeting

October 18, 2018

Place: North Middleton Authority
Administration Building
240 Clearwater Drive
Carlisle, PA 17013

Time: 3:00 PM

Present: Authority members present were: Jim Hurley, Blaine Shatto, Greg Lebo and Stanley Dye. Also present were David Park, Solicitor; Pete Lusardi of GHD, Engineers; Jodie Fuller, Office Manager; Brian White, Chief Operator; and E. Lee Koch, Manager.

Visitors: None

MINUTES:

A motion was made by Mr. Lebo to approve the Minutes of the Board Meeting held on September 20, 2018. The motion was seconded by Mr. Dye and passed unanimously.

VISITORS:

No visitors were present.

SOLICITOR'S REPORT:

Mr. Park had no report.

ENGINEER'S REPORT:

Mr. Lusardi reviewed a written summary of GHD's activities on behalf of the Authority:

Marion Avenue Pump Station: The precast wet well is installed and backfilled. The contractor poured the footers for the building and is working on the building floor and the wet well piping supports prior to having the wet well lined.

2017 Annual Report: The Annual Report has been submitted to NMA for review. A copy of the Report was included with Board members' packets. After stating that it is an obligatory report for the Trust

Indenture, Mr. Lusardi added that it involves doing an evaluation and insuring that everything is in reasonable order with no obvious compliance issues, along with taking a quick look at the Budget. Mr. Lusardi then invited questions and reported that he could answer them at the evening's meeting or at the November meeting (or any other time). Mr. Hurley asked if everything appeared to be in good order, and Mr. Lusardi answered that it did, and that some items we already know about will also be discussed during the meeting.

Proposal for Infiltration/Inflow Mitigation Program Engineering Services: The Proposal was distributed and discussed at the meeting. Mr. Lusardi explained that the main idea with I&I mitigation is to do it in an organized, long-term fashion to measure flow before, do necessary work, and measure it after the work has been done. It involves oversight and monitoring of the data; calibration of the equipment and tending to documentation which would show the Authority is getting something for the money, allowing areas to be prioritized for I&I work rather than doing it in a fragmented fashion.

Mr. Lusardi reviewed the program line item by line item. Mr. Hurley asked if all work would be done by GHD. Mr. Lusardi stated that GHD would oversee the installation and help with calibration and set-up of the flow meters, but the Proposal costs assume that NMA staff would actually provide and install the flow meters. An optional add-on would be for GHD to perform that work instead. Mr. Koch added that because it's been some time since NMA staff has done flow meter installations, there has so far not been any discussion with them regarding what type or cost of flow meters we would be looking at. Mr. Lusardi said that GHD could recommend the best type of equipment to use, etc. Mr. Koch pointed out to the Board that the Estimate does not include cost for flow meters or installation. Mr. Hurley stated, and Mr. Lusardi agreed, that problems located would need repaired at a separate cost. Mr. Lusardi reminded the Board that this type of project is a long-term project that would be done gradually over a period of time. Mr. Lebo asked about a timeline to start, and Mr. Lusardi said that typically, Fall is a good time to start preparing and that Winter is a good time to do flow meter work; Summer typically is not. The Board will need time to look over the Proposal before any action can be taken.

Mr. Koch added that GHD has also provided an MS4 document that needs to be looked over as well. That

document was also provided to the Board at the meeting by GHD. No action was taken at the meeting following the presentation.

Water Filtration System Improvements: The Neptune Microfloc Aquarius treatment units are currently offline for maintenance. NMA water purchase for the 3rd Quarter from MTMA averaged 575,532 gal/day, which is not greatly above the Agreement volume of 500,000 gals/day.

The DEP Public Water Supply Permit for rehab of existing filters was issued in September 2018.

In response to the September Board Meeting, GHD prepared a revised Project Cost Estimate to construct a new facility with flocculation and sedimentation outside on new footprint and concrete filter tanks with new internals inside the existing building. The new cost of \$2.6M is somewhat higher than Mr. Lusardi's previous cost of \$2.2M because for the new Estimate, he is assuming no package equipment. The latest Estimate represents top quality equipment installed in cast-in-place concrete tanks. GHD also proposed providing a pole building over the sed basins, although it's not necessary. A copy of the Construction Cost Estimate New Pretreatment on New Footprint and Filters in Existing Building was included in the meeting documents and thus, is a part of these meeting Minutes. Mr. Koch updated Mr. Hurley, who was not present at last month's meeting, regarding some of the discussion about refurbishing costs for the old plant vs. building a new plant; and that NMA staff, after looking at the project, was leaning toward building a new one rather than throwing money that could be better spent on a new plant, into refurbishing the old one. He noted that DEP continues to keep 'ratchetting' requirements, and that at last month's meeting, the rest of the Board reached a consensus to look more at a new plant rather than refurbish the old one.

Following the discussion, Mr. Dye made a motion to authorize GHD to proceed with writing a Proposal to create a preliminary design for a new plant and submit for a permit, up to the bidding process. Mr. Shatto seconded the motion and it carried unanimously.

Miscellaneous: Additional documents provided by GHD at the meeting and made a part of the Meeting Minutes were: Proposal for Professional Engineering Services Infiltration/Inflow (I/I) Mitigation Program Start-up; Agenda and related documents for MS4 Implementation Services Study Project Kickoff Meeting.

MANAGER'S REPORT:

Mr. Koch's written report was sent to Board Members prior to the evening's meeting. It included:

Marion Avenue Pump Station Progress: Work continues at the Marion Avenue Pump Station and progress is being made every work day. On September 20, 2018, the wet well was set and backfilling was started the next day. As a note from the previous monthly meeting Minutes, the rock issue quantity and price to remove was resolved prior to the start of backfilling. At the meeting, Mr. Koch stated that GHD talked with DOLI and we settled on 100 cubic yards at the reduced price of \$285 per cubic yard vs. the original \$500 per cubic yard. He was glad they agreed to work with us on that.

NMA hired Duffield Associates, a geotechnical consultant with an office in Carlisle, to assist the Authority with providing testing and oversight for compaction of the fill area that will support the concrete footers and foundation. Duffield completed 43 Field Density Tests (FDTs) for compaction and all the test results met specifications. Duffield also completed footing subgrade and FDTs on the footing bottoms. Since then, three concrete pours have been completed - spread footers, foundation walls and concrete pad or floor. Duffield assisted the Authority with the observation of installed reinforcing rod and performed the initial testing on the concrete quality control prior to each pour. They also collected test cylinder sets for future break performance.

DOLI is now in the process of setting all of the equipment inside of the wet well. This is a tedious task. We met the person in charge of this action and he seems to be very competent. It's uncertain how long this will take, but when working in a vault that is 30 feet deep, it will probably be a slow process.

GHD Proposal for Engineering Services for Infiltration/Inflow Mitigation Program:

A copy of the Proposal for Engineering Services for the Infiltration/Inflow Mitigation Program was attached to Mr. Koch's report. This is not a short-term program and will be going on for many years after many of us retire from serving the Authority/Township. As we just received this proposal earlier in the week, Mr. Koch had not yet read it himself, but had planned to do so over the weekend prior to the meeting. He requested

that prior to the November meeting, the Board carefully review the Proposal.

Water Treatment Plant Update: There was nothing new to report, but it was anticipated that Mr. Lusardi would have additional cost information as part of his report (which he did).

Over the past couple of months, since being on the Middlesex interconnection, we are using an average of 570,000 gal/day combined. This includes the area of Cavalry Road, Keystone Arms, North of the PA Turnpike to the Conodoguinet Creek and the north side of the Conodoguinet Creek.

Douglas Drive Sewer Line Repair: On September 20, 2018, the Authority staff was doing some routine sewer line cleaning within an easement through private property from Douglas Drive to Circle Road. The crew working with the large VAC-CON truck hit something while on the return from flushing. It finally released and brought muddy water and stone back into the receiving manhole. They made another run up the line and hit the object again, with more mud and stone coming back into the receiving manhole. At this point they determined a problem existed and they returned to the plant to consult with the chief operator. They were instructed to return to the manhole with the video camera to determine what the issue may be.

On September 21, they returned with video camera and found a cable crossing through the 8" clay sewer main. We got together for a group discussion and determined the cable was probably an electrical cable, so we contacted PPL to inform them. Going through the channels at PPL is difficult at best, but eventually we were able to get through to the local service center and talked with them about the situation. We entered into another couple of days of wet weather and decided to wait until September 27 to open up the location using a mini excavator and the VAC-CON hydro excavator. Once opened, we found two of PPL's primary cables crossing through the clay sewer main. The main also had several large pieces of broken pipe, which allowed the mud and stones to enter when we were flushing. It was a good thing we used the video camera to identify the problem and not used the hydro-root cutter. These lines carry 7400 volts each and could have been catastrophic if we would have cut into them.

The PPL crew came out and we planned for the next day, pending another wet weather event. Working together, we were successful in shutting down power to these

lines, we cut out the damaged pipe section and replaced this section of pipe. After several attempts, Mr. Koch finally got ahold of PPL and he updated at the meeting that earlier in the day, Tom Gross from PPL contacted him and gave Mr. Koch some information. He requested some photos and told him how to file for a damage claim. Mr. Koch believes PPL will work with the Authority toward a reasonable resolution.

SUPERVISORS' REPORT:

No report.

TREASURER'S REPORT:

Mr. Shatto reported on bills that were paid in September and stated that operating costs were as follows:

for water,	\$	36,198.18
for sewer,		45,594.41

He made a motion to approve payment of the bills. Mr. Lebo seconded the motion and it carried unanimously. Mr. Shatto then made a motion to requisition from North Middleton Township:

for water,	\$	46,132.15
for sewer,		45,528.40

Mr. Dye seconded the motion and it also carried unanimously.

Mr. Shatto then made a motion to approve:

From the Orrstown Capital Account:

<u>Req. #</u>	<u>To</u>	<u>For</u>	<u>Amount</u>
O-362	GHD, Inc.	Engineer-Marion Avenue	\$ 4599.31
O-363	GHD, Inc.	Engineer-Booster Station	350.00
O-364	GHD, Inc.	Engineer-WTP Assistance	1565.89
O-365	Duffield Associates	Consulting-Marion Avenue	2485.80

From the Orrstown Capital Account (Cont'd):

<u>Req. #</u>	<u>To</u>	<u>For</u>	<u>Amount</u>
O-366	DOLI Construction	Construction- Marion Avenue	\$ 276010.15

Mr. Lebo then seconded the motion, and it also carried unanimously.

SECRETARY'S REPORT:

Mr. Lebo commented on typical non-payments; a bankruptcy; received payment for a manhole lining in Mountain View Estates; a minimal rate increase from PA OneCall; letter from OmniSite regarding Lift Station Alarm Monitoring System upgrade; and the Proposals discussed during the meeting.

PERSONNEL COMMITTEE:

Most employees prefer the Holiday Party to go back to being held on weekends. Jodie Fuller said that the available dates for December at Marcello's Restaurant are December 12 (Wednesday) if the Board preferred for the party to remain on a weeknight; or December 14 (Friday) for a weekend evening. The Board's consensus was to return to a weekend, so the date of Friday, December 14, was decided upon.

OLD BUSINESS:

Mr. Hurley recalled that, due to rebuild of a burned down home, the Board had granted an extension to the owners who had requested not to pay water/sewer charges until the house was finished. He asked if they were now hooked up. The response was that they are, but Ms. Fuller said she would check to make sure.

NEW BUSINESS:

None.

ADJOURNMENT:

The meeting was adjourned at 3:42 PM.

Respectfully submitted,

Greg Lebo
Secretary

Mary Dutchess
Recording Secretary