

**Patterson Township Municipal Authority
1600 19th Avenue Beaver Falls PA 15010**

**Regular – Joint Meeting
(w/Township Board of Commissioners)**

November 17, 2021

The Patterson Township Municipal Authority held their regular meeting on Wednesday, November 17, 2021 at the Municipal Complex, 1600 19th Avenue, Beaver Falls. Following the call to order by Chairman Robinson, roll call indicated the following:

Members present:

Bert Robinson

David Ross

John Weaver

Paula Wagoner

Absent: Steve Kish

Others:

Emily Palmer

Greg Douglass

Don Inman – Twp. Commissioner

Ren Barto – Twp. Commissioner

Greg DeLuca – Twp. Commissioner

Mr. Robinson introduced the Township Commissioners that were present. The purpose of this joint meeting is to discuss with the Board of Commissioners the Corrective Action Plan imposed on by the Department of Environmental Protection and decide a plan of action going forward. Discussion held under the Engineer's Report.

Minutes: The minutes of the meeting held on Wednesday, September 15, 2021 were presented for approval. Motion was made by Mr. Weaver; seconded by Mr. Ross approving the minutes as presented. Passed unanimously.

Treasurer's Report: The Treasurer's report(s) for the months of September, 2021 and October, 2021 were presented for review. Mrs. Wagoner pointed out that the correction had been made by Wesbanco to the General Fund and 2019 Sewer Sinking Fund, whereby the loan payment was put in the wrong account. The September report reflected the transfer. Motion was made by Mr. Weaver; seconded by Mr. Ross approving the Treasurer's reports as presented for September and October. Passed unanimously.

Payment of Bills: The General Fund requisition (#11172021) in the amount of \$5,731.31 was presented for payment. The amount represented invoices from Lennon, Smith, Souleret Engineering for the work performed on the CAP. Motion was made by Mr. Ross; seconded by Mr. Weaver to approve payment. Passed unanimously.

Engineer's Report: Mrs. Palmer distributed page 8 of the in-depth report she had provided to the Authority at the last meeting. Page 8 (attached) provided the conclusion to the studies performed

over the last several months to determine areas in the sanitary sewer system that contribute wet weather flow. She noted that the flow monitoring that was done definitely indicates infiltration into the sanitary sewer system and will need to be addressed. Smoke and dye testing along with CCTV would be the next step.

Mr. DeLuca, as Township Commissioner in charge of Public Works, expressed that the Township personnel could do the smoke and dye testing. Discussion was also held on the manhole physical surveys needed and that it would be a savings of approximately \$50,000 if done in-house also.

Mrs. Palmer advised of the need for a timeline, as she is required to submit a progress report to DEP by the end of January, 2022. As this report will include requests for an allotment of tap-ins for 2022, she plans to file the report by December 31, 2021.

Additional discussion was held on the physical surveys of the manholes, whereby it is an important task that may need to be included in the cleaning and televising. All agreed that this portion of the project should be done by an outside contractor. If the Township personnel is to perform, the Tracer program is already being utilized for inspections, etc. As the smoke and dye testing is performed it was noted that the homeowner will be required to replace/repair any leaks in the laterals on their property.

The timeline discussed included continuing with investigative work into 2022, which involves dye and/or smoke testing of 180 residences and 20 commercial properties. Mr. DeLuca advised that Spring, 2022 would be more appropriate to perform this work. It will take considerable time to do.

It was the general consensus of both Boards to move forward with cleaning and televising the sanitary sewer lines that indicate infiltration (i.e. Ross Hill area, Steffin Hill area). This segment of the CAP project is estimated at \$100,000.00. Mr. Robinson requested Mrs. Palmer to recalculate the Opinion of Probable Cost to include the portion the Township personnel is willing to do, in order to get a better cost factor. She noted that she would revise.

Mr. Inman noted that the Township has a Sewer Maintenance Fund that could be used for this project. He also offered for the Township to take over the project entirely as has been done on various projects in the past. No decision was made on this. Mr. Robinson advised that the Authority appreciates the financial assistance, as the funds are not readily available from the Authority's accounts.

As it would be appropriate to authorize the submission of the CAP progress report by Mrs. Palmer to DEP by the deadline, motion was made by Mrs. Wagoner, seconded by Mr. Weaver authorizing the filing of this report by LSSE. Motion passed unanimously.

Prior to moving on, Mrs. Wagoner questioned the need for documentation once the dye testing is started. Mrs. Palmer advised that the Tracer program could be utilized (Township already has) and would assist as needed.

Solicitor: Mr. Douglass had no report.

Unfinished Business: No report.

Communications: Mrs. Wagoner advised of the receipt of the 2020 Audit report of the Municipal Authority by Mercadante & Company for signing by Mr. Robinson, then distribution. The \$3,800 invoice was previously approved.

Miscellaneous Business: As it was decided that no December meeting would be needed the Authority members payment for meeting attendance will be processed. Motion to approve was made by Mr. Weaver; seconded by Mr. Ross. Passed unanimously.

Adjournment: There being no further business to be brought before the Board, motion was made by Mr. Weaver to adjourn. Seconded by Mr. Ross the meeting adjourned at 8:00 p.m.

Respectfully submitted:


Paula J. Wagoner, Secretary
Patterson Township Municipal Authority

Copy: PTMA members
Greg Douglass
Emily Palmer
Township Commissioners
Township Secretary

Conclusion/Next Steps

The information obtained by the studies discussed above points to several potential areas in the Patterson sanitary sewer system that contribute wet weather flow.

Due to the age and constructive material (vitrified clay pipe) of the sewer system as well as the ground water component that is evident from the night-time flow isolation measurements, it is recommended that a cleaning / closed circuit televising (CCTV) and manhole physical survey (MHPS) scope be completed in the red subunits (~6,500 LF) and in the orange subunits (~7,000 LF).

A capital improvement repair program scope based on the CCTV and MHPS would then be developed.

Based on the RDII component evident in the flow monitoring component, the following system investigations are also recommended:

- Smoke Testing Program - Performed by introducing smoke under low-pressure in to the sanitary sewer system and then documenting any observations of smoke outside of the sanitary sewer. The purpose of this procedure is to confirm system connectivity, identify gravity sewer system defects, cross-connections between storm and sanitary sewer, location of potential building traps visualized by sewer vents with no smoke and to provide a record of the defects including type, location and severity.
- Dye Testing Program - This testing includes introducing dye and a sufficient quantity of water in downspouts, driveway, yard and area drains, catch basins, and other suspected points of surface water inflow to allow for monitoring of downstream manholes for appearance of dye and recording the results. The purpose of this dye testing procedure is to detect and provide a record of direct stormwater connections to the sanitary sewer.

An Opinion of Probable Cost for these investigations is provided below.

| <u>Description</u> | <u>Quantity</u> | <u>Unit</u> | <u>Unit Cost</u> | <u>Item Cost</u> |
|-----------------------------------|-----------------|-------------|------------------|------------------|
| Dye Testing / Residential | 180 | EA | \$180.00 | \$32,400 |
| Dye Testing / Commercial | 20 | EA | \$310.00 | \$6,200 |
| Smoke Test Sanitary Sewer Main | 13,500 | LF | \$1.00 | \$13,500 |
| Clean and Televis | 13,500 | LF | \$4.00 | \$54,000 |
| | | | Subtotal | \$107,000 |
| | | | Soft Costs 20% | \$22,000 |
| Engineering Services – MHPS / RPR | | | | \$10,200 |
| | | | TOTAL | \$140,000 |