

CITY OF MILFORD
SEWER COMMISSION REGULAR MEETING
July 26, 2023

The Sewer Commission of the City of Milford held a regular meeting on Wednesday, July 26, 2023, at 6 PM. This meeting was held by videoconference via Zoom.

The following Commissioners were in attendance:

Chairman Edmund Collier
Vice Chairman, Bradford Hubler
Commissioner Edward Abel
Commissioner Alexander J. Armstrong
Commissioner Tara Carroll

Others in attendance:

Lindsay King, Wastewater
Robert Tedeschi, Sewer Consultant, Weston & Sampson
Beverly Hayes, Recording Secretary
Michelle Parente, Aldermen Liaison
Scott Marlow, Alderman Liaison

Commissioners and others not in attendance:

Christopher Saley, Director of Public Works
Steven Johnson Asst. Director of Public Works

Chairman Collier called the meeting to order at 6:00 pm.

1. **CITIZEN'S COMMENTS** - *None*

Statements limited to the legislative function of the Sewer Commission. The time limit granted to each speaker shall be three (3) minutes. Residents, taxpayers, or electors may address the Commission.

2. **APPLICATIONS (PETITIONS)**

Chairman Collier reordered the agenda to take up the Sewer Extension at 99 Founders Way then 25 Shell Avenue application to follow.

- a.) **99 Founders Way** – Sewer Extension – Mark Victor, owner of the property explained that he is the last new home to connect on Founders Way and is requesting to extend the sewer from the manhole located on Founders Way to another manhole in front of his property and a wye will be installed to connect to the sewer.

Chairman Collier called for a motion for discussion. Commissioner Hubler made a motion to approve for discussion with Commissioner Carroll seconding the motion. Discussion ensued regarding who bears the cost with Mr. Victor responding it is his cost, explaining his property was a lot split from 82 Maple Street. The motion carried unanimously.

- b.) **25 Shell Avenue** – Request for 20 apartments under C.G.S. 8-30g where the proposed flow exceeds the allowable flow

Jeffrey Gordon of Codespoti & Associates explained he is here with Attorney Hollister for an application for an CGS 8-30g residential development.

Chairman Collier called for a motion for discussion. Commissioner Hubler made a motion to approve the motion for discussion with Commissioner Carroll seconding the motion. Commissioner Abel asked if they are replacing an existing structure with Mr. Gordon responding that the existing building was built in 1930 and they will be replacing it with a new structure, adding that they will use much less water than the existing structure. Attorney Timothy Hollister added the building in its present state is non-conforming. Chairman Collier explained that CGS 8-30g has no bearing to the Sewer Commission for this application, however the flow data will need to be reviewed. He then suggested the Commission table the application as this will allow for an Executive Session at the next meeting to discuss the flow and allow for the City Attorney to attend to answer questions for them and what factors they can consider before voting on this application. Attorney Hollister added that there is plenty of capacity with Mr. Gordon asking if the Commission needs any additional information from him. Chairman Collier responded they just need a little guidance and some additional information from City Attorney before voting on this, as there are similar applications that may be coming before this Commission. Commissioner Hubler made a motion to table this application with Commissioner Carroll seconding the motion. The motion carried unanimously.

3. **CONSULTING ENGINEER'S REPORT** – Weston & Sampson – Robert Tedeschi

On-Call Support Services

A. Sanitary Sewer Pump Station Upgrades #1 Various Locations:

1. This project consists of proposed improvements to the following wastewater pumping stations: Sailors Lane, Old Gate Lane, New Haven Ave., Watrous Lane, and Live Oaks
2. Contract Documents between the City and VMS Construction have been executed.
3. Pre-Construction meeting with VMS Construction was held on for July 20, 2023. Preliminary schedule indicates majority of work will occur in 2024.

B. Rogers Avenue Sanitary Pump Station Upgrade:

1. Bids were received from the pre-qualified contractors on June 6, 2023. One (1) bid was received from Kovacs Construction Corp of Oxford, CT in the amount of \$3,444,900. The Project will be funded by City Bond funds (\$3,811,500).
2. Weston & Sampson recommends that the Sewer Commission award the project to Kovacs Construction pending confirmation of available funding. *No Action Taken.*

3. Weston & Sampson submitted a proposal to provide Construction Administration and inspection services to the City for approval. *No Action Taken.*

C. Housatonic WWTP Upgrades: Athletic Brewing Co.:

1. We are working on ways to fast-track the installation of the proposed enhanced chemical feed system in an effort to expedite the ability of the WWTP to treat anticipated loading from the brewery to meet the brewery's schedule as it continues to move towards full production.
2. Solids Pilot Testing has been completed on July 20, 2023. Report pending.
3. Bench scale testing regarding enhanced primary settling with chemical treatment has been completed. Chemical and approximate dosing rate has been selected. City will install a temporary chemical feed system and conduct full scale test to quantify effectiveness of the chemical treatment.

D. Collection System Flow Evaluation:

1. Report submitted on January 24, 2022, which included a prioritized schedule for future Sanitary Sewer Evaluation Surveys (SSES) that would identify sources of Infiltration and Inflow (I/I) and other defects in the wastewater collection system.
2. The flow at the Housatonic WWTP has exceeded 90% of the design flow rate. Met with CTDEEP on March 29, 2023, to discuss options for addressing the need to reduce infiltration and inflow to the WWTPs.
3. DEEP requested, and the City submitted, a Wet Weather Standard Operating Procedures document which lists procedures followed during high flow conditions at the plants.
4. City is moving forward with CIPP lining of sewers within the Boston Post Road Area.

4. WASTEWATER REPORT – Lindsay King

Wastewater Treatment Plants

Both Wastewater Plants performed well in the month of June, producing a high-quality effluent. 163 million gallons were treated at the Housatonic Plant and 50 million gallons at the Beaver Brook Plant for a total of 213 million gallons. The Housatonic plants monthly average effluent nitrogen was 119 lbs./day (annual average for 2023 is 217 lbs./day and is under the 307 lb./day permit limit). The Beaverbrook Plants monthly average effluent nitrogen was 61 lbs./day (annual average for 2023 is 58 lbs./day and is under the permit limit of 94 lbs./day).

At the Housatonic Plant normal monthly maintenance was performed:

1. Replaced gear box and motor for belt press #2 conveyor system.
2. Installed new belts on odor control fan and greased bearings.
3. Cleared blockage on belt press feed pump.
4. The 100 HP aeration blowers overheat on hot days. In addition to the engineered ventilation system two large fans are being used to help cool the blowers. On 90-degree days the blowers are running around 240 degrees discharge temperature and will shut off at 250 degrees.

At the Beaverbrook Plant normal monthly maintenance was performed:

1. Replaced 4-inch plug valve on primary tank.

2. Replaced motor for step screen wash press.
3. Geared system for the primary scum trough has failed. Rather than replace the geared system a simpler bolt on handle has been ordered to rotate the trough.

Pump Stations

Scheduled maintenance was performed at the following pump stations: Crowley, Naugatuck Ave, and Grove Street.

Other Duties Performed:

1. Ran generators on full load at Post Road, Flax Mill, Ford Street, Rogers, Kinlock, Cricklewood, Concord, West Mayflower, Holly, Milford Point, Viscount Drive, Zion Hill, Sailors Avenue, Crowley, Mathews, Naugatuck, Ryders Woods, Old Gate, Anderson, Rock Street, Welches Point, Old Field, Adams Avenue, Captains Walk and New Haven Avenue.
2. Cleared clogs at Rogers Avenue (3x) and Watrous (1x) Pump Stations
3. Cleaned wet well at Carriage Drive
4. United Illuminating cut power temporarily at Kurt Volk PS to replace a pole.
5. Recent rain events have caused significant problems at the pump stations. On July 19th the level transducer at Welches Point PS failed. Mechanics were unable to remove the transducer from the stilling well (the stilling well is a pipe installed in the well to prevent the meter from getting pushed around by the water) due to rag buildup on the transducer. A temporary transducer had to be installed two feet higher than the existing transducer until the original can be removed.

While the transducer was being worked on at Welches the station had to be run manually. As a result, the wet-well was pulled down low enough to pull in a large mass of rags and send it downstream to Gulf Pond pump station. Gulf Pond was already struggling with additional rags flushed out of the collection system during the rains. When the mass of rags hit the station both grinders jammed up and had to be removed. Two pumps also plugged up with one breaking the frame from the vibration. The plugs were cleared, and the failed pump has been replaced. Additionally, a variable frequency drive also failed during the event. The existing Aurora pumps are no longer manufactured and are not designed to pass rags like the modern Flyte dry-pit submersible pumps in West Avenue, Welches and other pump stations in the city. Replacement Flyte dry-pit submersibles are being ordered and we are working on reconfiguring the station piping and overhead hoists to accept the new pumps.

Finally, the rags also flowed downstream and plugged up both grinders at West Avenue PS. The grinders were removed, cleaned, and returned to service. The Flyte dry-pit pumps at West Avenue did not clog.

Mr. King added after this recent rain event, after a conversation with Mayor Smith and Mr. Saley, new pumps will be ordered, a different improved style that can handle these kinds of materials. Discussion ensued as to funding, and the type of pumps. Mr. King responded that

they have great success with these proposed pumps at other pump stations and the service on them varies based on pump size, however, he is pleased with their performance.



There were 4 alarms at the pump stations:

- 1 for High Water
- 2 for Power Outage
- 1 for Pump Fail

Sewer Maintenance

Sewer Maintenance answered 7 complaints.

Sewer Maintenance crews performed scheduled maintenance at the following T-sites:

T-09, T-17, T-19, T-27, T-37, T-21, T-33, T-50, T-20, T-42, T-29, and T-51

There was a sewer excavation at the following location:

NA

Other duties performed were:

- 1. Cleaning and closed-circuit television inspection of sanitary sewers in the Post Road Pump Station service area.
- 2. Locate and raise five manholes at New Haven Avenue and Carriage Drive
- 3. Located and cleaned out septic tank in lower field of Eisenhower Park.
- 4. Friday T-sites

A total of 24,595 ft. was jet flushed, 6,110 ft. televised, 1,425 ft. spy TV 'ed, 730 ft. hand rodded, 3,475 ft hydraulically root cut, 0 ft smoke tested, 185 ft root treated, and 0 ft. dye tested.

American Rescue Plan Act – Wastewater Pump Station Emergency Generators:

1. This ARPA funded project consists of replacing emergency generators at multiple wastewater pump stations.
2. \$1,504,000 is approved for this project.
3. Gulf Pond and West Avenue generators have gone out to bid and received a low bid of \$492,600.
4. Installation will start at West Ave pumpstation on August 7th.
5. A second bid was opened on March 8th for generators at Wanda, Post Road, White Oaks, Matthew, Anderson, Mayflower, Milford Point, and a portable generator. L. Holzner Electric Company has been selected as the low bidder for \$656,555.00. We are currently waiting on the long lead time for the generators; no delivery date has been set yet.

Adams Avenue Generator Replacement

1. The 60-kw generator and transfer switch will be replacing the existing failed generator.
2. The project has gone out to bid and received a low bid of \$49,735.
3. We currently have a soft delivery date of November for the generator (60-week lead time).
4. FEMA and insurance money have already been received.
5. FEMA requires the project to be completed by July 2024

Solids Handling Upgrades at the Housatonic Plant

Fournier sent out a mobile rotary press unit that was installed at the Housatonic plant during the week of July 17th. Housatonic sludge was successfully processed under varying conditions and tested for percent solids with the goal of creating a high solids cake. The report has not been received yet but will be available by next month's meeting.

5. INFLOW/INFILTRATION UPDATE

1. A Wet Weather SOP aimed at minimizing potential effluent violations triggered by high flow conditions at the plant has been submitted to DEEP.
2. Weston and Sampson previously completed a Flow Evaluation of all the Cities pump stations and identified the Post Road Pump Station service area as one of the subareas having a large amount of inflow and infiltration (I&I). We are using closed circuit television inspection to identify leaks and propose a pipe lining project to eliminate them. Specifications, mapping, closed circuit television inspection and associated reports have been submitted to purchasing to prepare a bid package. Additional engineering work may be needed to complete the process. Discussion ensued as to measuring the success at the completion of the lining project.
3. The Department of Energy and Environmental Protection is asking us to start an SSES study in the spring of 2024. The SSES work would qualify for a CTDEEP Clean Water Fund Grant (55% Grant 45% local share). Wastewater is currently working with the purchasing department to prepare a bid requesting qualifications for engineering services related to SSES work.

6. **COMMITTEE REPORTS** - None

7. **OLD BUSINESS** - None

8. **NEW BUSINESS**

- a) Prequalified Contractors

9. **VOTING**

- a.) Regular Meeting Minutes of June 28, 2023

Chairman Collier called for motion to approve the Regular Meeting minutes of June 28, 2023. Commissioner Hubler made a motion to approve with Commissioner Carroll seconding the motion. The motion carried unanimously.

- b.) Approval of Payments

Chairman Collier called for a motion to approve the payments in the amount of \$21,540. Commissioner Hubler made a motion to approve the payments in the amount of \$21,540. with Commissioner Carroll seconding the motion. The motion carried unanimously.

10. **CHAIRMAN'S REPORT**

- a.) Administrative Approvals

Chairman Collier stated there were 5 Administrative Approvals through July 26, 2023.

11. **ADJOURN**

Chairman Collier called for a motion to adjourn at 6:49 p.m. Commissioner Hubler made a motion to adjourn with Commissioner Carroll seconding the motion. The motion carried unanimously.

Respectfully submitted,

Beverly A. Hayes, BS
Recording Secretary