



PLYMOUTH, CT
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TOWN CLERK

**TOWN OF PLYMOUTH
WATER POLLUTION CONTROL AUTHORITY
80 MAIN STREET
TERRYVILLE, CT 06786**

The Regular Meeting of the Water Pollution Control Authority was held on Monday April 21, 2025, at 7:00 PM in the training room of the facility at 35 Canal Street, Pequabuck, CT.

PRESENT: Regular Members

George Andrews JR. Chairman
James Maloney, Vice Chairman
Phil Armbruster, Secretary
Peter Giancesini
John Murphy
Scott Gray

OTHERS IN ATTENDANCE:

Plant Manager – Jason Patrick
Assistant Plant Manager- Ryan Wells
Recording Secretary- Heather Dell'Aera
Council Liaison- T.J. Zagurski
Public- Christine Kurtz (Wright Pierce)

1. Call to Order:

The meeting was called to order by Chairman Andrews at 7:00p.m.

2. Roll Call Attendance:

Chairman Andrews took roll call attendance.

3. Acceptance of Minutes:

a. Regular Meeting Minutes- March 17, 2025:

Upon a motion made by Mr. Murphy and seconded by Mr. Maloney, it was VOTED: To approve the Regular Meeting Minutes of March 17, 2025, Roll call was taken and the motion passed unanimously.

4. Bills and Communications:

a. Review & Approval of WPCA Monthly Bills for March 2025:

Upon a motion made by Mr. Maloney and seconded by Mr. Armbruster, it was VOTED: To approve WPCA monthly bills for March 2025 Roll call was taken and the motion passed unanimously.

5. Report of Officers and Committees:

a. Report of the Plant Manager & Assistant Plant Manager:
Monthly Operating Report for March 2025-

Assistant Plant Manager Mr. Wells reported:

- We had no violations to report in our CT DEEP report for March 2025 state report.

Flow-

- Average monthly flow for March 2025 was 1.183 MGD
- Plant is designed for 1.75 MGD
- Phosphorous discharge (monitoring only): 32.9 lbs./day average
- Total Nitrogen for March 2025 average 105.7 lbs./day. Our discharge limit is 42 lbs./day.

Sludge-

- We hauled out 18 tankers for the month of March with an average of 2.6% solids. This equaled 12.69 dry tons. (25,370 dry lbs)

Plant Efficiency, % Removal

BOD = 95%

SS = 95% removal

Permit limit is 85%

Treatment Plant- Mr. Wells reported-

- **Secondary Clarifier #3-** Mr. Wells reported the clarifier was put online for repairs so a drain valve on clarifier #2 could be fixed. Once the tank #2 valve was finished, we took tank #3 offline due to a reoccurring return flow issue. We had jetted the line while tank #3 was offline. We successfully reached the length of the line. Still have restricted flow.
- **UV Season-** With UV season starting in April, we installed UV lamps in the effluent channel and ordered 50% caustic as well as PAC in mid-March to prepare for dosing.
- **Aeration Basins-** We received back 2 mixers (1 for each online basin) and installed them. Both pumps had faulted out and Traver was contacted for immediate repair.
- **FOG-** Mr. Wells paid a visit to all the food establishments (including schools) to inform them of FOG inspections starting in April.
- **GPS-** We subscribed for another month to GPS the manholes to update Diamond Maps. As of now, all streets are updated with the of Main Street and a few manholes in easements that still need to be found. As manholes are found in the easements, pictures of the manholes are uploaded into diamond maps for future locating.
- **Right of Ways-** Mr. Wells reported as we previously discussed in the November meeting, we discussed hiring a company with a machine to clear denser ROW's. We ended up forgoing the extra expense after conversation and walking the easements again. Most of the easements are accessible and fairly open. It was determined that we can enter a few select spots with trees down across the right of way and clear them out with relative ease.

Plant Manager Mr. Patrick reported on the Effluent Flow meter & Sewer Blockage-
See Attachment*

5b. Report of the Secretary: No Report

5c. Comments from the Council Liaison: No report- Mr. Zagurski commented that he believes that the police station will be going to referendum in June.

5d. Energy Conversation Issues: None at this time.

5e. Capital Improvements Projects: None at this time

6. Old Business:

6a. Follow Up Discussion - Wright-Pierce – Inflow / Infiltration Study:

Mr. Patrick reported- We are continuing with the I/I Study. Flow Assessment is coming out once a week to maintain the meters and take flow, ground water and rain gauge readings. This week will be the 8th reading out of 12. We are also planning the Night Flow Isolation Measurements. This will measure flow during the night when domestic flow should be minimal, and the measured flow should mostly represent ground water infiltration.

6b. Follow Up Discussion – Wright-Pierce Phosphorus Upgrade/ CDS Funding:

Ms. Kurtz explained the EPA is revisiting our RFQ and they are proposing that Wright Pierce drafts and submits an amendment to CT DEEP. This would be a preliminary amendment outlining the basic scope of the project. This would act as a placeholder to help secure/attach the funds for the project to the WPCA. Knowing we would have to draft an additional amendment with the finite details of the project. A brief discussion ensued.

Upon a motion made by Mr. Murphy and seconded by Mr. Maloney, it was VOTED: To add motion 9a. Voting on Submission of the Clean Water Amendment to CT DEEP. Roll call was taken and the motion passed unanimously.

Upon a motion made by Mr. Murphy and seconded by Mr. Maloney, it was VOTED: To move to other business 9a. Roll call was taken and the motion passed unanimously

6c. Follow Up Discussion - South Street Force Main Lining:

Mr. Patrick reported- He has reached out to several companies to get pricing on the epoxy paint lines needed on South Street. He has received one price from "Safety Marking LLC" for \$1,895.00. He has also reached out to

East Coast Pavement (does not offer epoxy lines)

Atlantic Pavement Markings (does not offer epoxy lines)

Arrow Line Painting (no response)

Line Stiping.com (no response)

It was agreed upon for Mr. Patrick to hire Safety Marking LLC for painting lines.

6d. Follow up Discussion – South Street Odors:

See Attachment*

Upon a motion made by Mr. Murphy and seconded by Mr. Armbruster, it was VOTED: To add motion 9b. Voting on South Street Odor Control Dosing System One Year Lease Contract for South St Force Main. Roll call was taken and the motion passed unanimously.

Upon a motion made by Mr. Maloney and seconded by Mr. Armbruster, it was VOTED: To move to other business 9b. Roll call was taken and the motion passed unanimously

6e. Follow up Discussion- Scott Road- 60 Unit Development:

Mr. Patrick reported- There has not been any new sewer information for this project. The foundation permit was signed off on and the sewer requirements were emailed again.

6f. Follow up Discussion- 684 Main Street- Illegal Sewer Connections:

Mr. Patrick reported- He sent another letter to the owner of 684 Main Street. The letter is in the packet. He received the return receipt at the end of March. Right now, their deadline is April 30th to disconnect. If not, we will disconnect the illegal portion of sewer, and the homeowner will be billed for this work. We also mentioned in the letter that if it was not disconnected, we would also bill for two (2) connection fees, which would be an additional \$5000.00. A brief discussion ensued.

7. New Business:

a. Discussion & Voting- Wright Pierce Invoice #0000243202-

The Statement was reviewed. A brief discussion ensued. Upon a motion made by Mr. Malony and seconded by Mr. Murphy, it was VOTED: To pay invoice #0000243202 in the amount of \$3,966.32. Roll call was taken and the motion passed unanimously.

b. Discussion – South Main Street – Biodiesel Facility-

Mr. Patrick reported- We set up a conference call with Andy Bernard (Owner of Scotty Recycling) and Vance Taylor (associate). Jason explained we met with Andy and Vance to discuss a biodiesel facility that would be located at 400 South Main Street. Andy explained the process they would use to treat the biodiesel and gave an overview of his company and multiple locations. He is looking to discharge up to 40,000 gallons per day, which would make them a Significant Industrial User. Jason explained to him that the first step would be to apply for an industrial permit. Wright Pierce is helping with this and is looking into what information they will need from him to review the permit.

If the permit review goes well, we will have to hash out some details. They would truck the water from 400 South Main Street to a facility with a sewer connection. They would set up tanks and could discharge according to our direction. There will also need to be a flow meter installed because we could not bill off CT Water usage. A brief discussion ensued.

$40,000 \text{ per day} \times 260 = 10.4 \text{ MG}$

$10,400,000 / 52,000 = 200 \text{ Flow Units}$

$200 \text{ Flow Units} \times \$505 = \$101,000$

c. Discussion & Voting – 2005 Utility Truck-

Mr. Ryan reported- We have a 2005 GMC Utility Truck. This truck does not have a lot of miles but is in rough shape. We have put money into it in the last few years and continues to have issues.

- Bearing going bad in the rear end
- Battery draw issues
- Can't tow with it
- Body rotting out

We feel like we have gotten our money out of the vehicle, and it is time to get rid of it. We would remove any accessories from the truck and then we recommend putting the truck up for auction on the state auction site like we did for generator 8.

Upon a motion made by Mr. Malony and seconded by Mr. Armbruster, it was VOTED: To dispose of the 2005 Utility truck at auction after stripping any valuable parts. Roll call was taken and the motion passed unanimously

d. Discussion – Draft 2025-2026 Operating Budget -

Mr. Patrick presented the draft budget
See Attachment*

e. Discussion – Budget Report and Line-Item Transfers –

Mr. Patrick reported- The budget is looking good. He did have to make some line-items transfers. The list was in the packet. The two larger transfers were for Plant Electrical and Chemicals. Both these line-item transfers were for \$7000.

- We need to fund additional costs for Plant Electrical (Public Benefit charge)
- We also used more caustic this year. This chemical is used to maintain our minimum permit limit for pH.

f Discussion – Rate Book Report – March & Northwest Mutual Statement- March –

A brief discussion ensued regarding the status of Northwest Mutual. The current collection rate is at 72.89% for the month of March 2025.

8. Public Comment: None present

9. Other Business:

- 9a. Voting on Submission of the Clean Water Amendment to CT DEEP-

Upon a motion made by Mr. Maloney and seconded by Mr. Murphy, it was VOTED: To submit the Clean Water Amendment to CT DEEP. Roll call was taken and the motion passed unanimously.

-9b. Voting on South Street Odor Control Dosing System One Year Lease Contract for South St Force Main-

Upon a motion made by Mr. Maloney and seconded by Mr. Murphy, it was VOTED: To allocate the funds for the Evoqua system according to their purposed contract with the WPCA. Roll call was taken and the motion passed unanimously.

10: Adjournment: Upon a motion made by Mr. Murphy and seconded by Mr. Armbruster, it was: VOTED: To adjourn at 9:02pm. Roll call vote was taken, and the motion passed unanimously.

Attachment-
Effluent Flow Meter & Sewer Blockage
South Street Odors
Draft 2025 / 2026 Draft Budget



Heather Dell'Aera
Recording Secretary

Plymouth WPCA Board Meeting

4/21/2025

Effluent Flow Meter

- Last meeting I mentioned that our effluent flow meter was calibrated on March 12th.
- Since then, we have noticed some flat lining on our flow trends. It appeared there were times when the flow should have been going up or down and instead would get stuck and this would show a flat line on the trend.
- We cleaned the ultra-sonic sensor on April 4th and the meter has read fine since then. I also went through the flow meter settings with their rep and everything was working correctly.
- I did order a spare meter just in case it starts to act up again, then we will be able to swap the meter out.
- We currently have two of these meters. One on the effluent and the other measures the return sludge flow.

Sewer Blockage

We were called in for a sewer blockage on 4/16/2025. The blockage was located in an easement between Dewey Avenue and Roosevelt Avenue. The operators responded and were able to clear the blockage quickly. It appeared to be mostly rags. This is a very low flow area. There are only 12 connections before the line where the blockage was located.

We added this spot to the list to get video inspected. It also appears that the line doesn't have a lot of pitch, so we plan on putting this on the trouble list and will flush the line as needed.

Jason W. Patrick

WPCA Plant Manager

Plymouth WPCA Board Meeting

4/21/2025

South Street Odors

We have been looking into options for a chemical dosing system at pump station #2.

One option is to lease a chemical system from Evoqua Water. There would be an initial cost of \$6,200 Which would include Delivery, Installation and start up. This cost would also include the first 1,000 gallons of Boioxide (a value of \$3,180)

After that it would be \$655 a month (\$7,860 year) and Evoqua Water would retain ownership of all the equipment. They would be responsible for all maintenance and repairs. This option would include the following

- odor control sampling at least 2x a year including written reports
- A DW storage tank with level indication and leak detection
- DW piping, 2 chemical feed pumps, and a control panel with a color display
- 24 Hour technical service and response to emergencies / odor complaints within 24 hours
- The system monitors the control point H2S gas data which ensures treatment and saves on chemical costs
- The system can be accessed and controlled on the Evoqua website

Option 2

Purchase our own system. The biggest cost for this option would be purchasing a chemical storage tank. The chemical requires a DW cross linked poly tank with a SG of 1.9. We have received several quotes on tanks and they range from \$7K to \$8K which is a lot higher than I expected. I am still waiting for four (4) more prices

MassTank = \$7,995

Tank Retailer = \$ Awaiting Response

North East Fluid Control = \$7,045

National Tank Outlet = Awaiting Response

Tank Depot = \$7,624

United States Plastics Corp = \$ Awaiting Response

National Tank Outlet = \$ Awaiting Response

We do have a pump we could use for now. For this option we would just dose a continuous amount. The downfall is we would not know if we are using enough chemical or too much chemical.

We would look into adding the system to our SCADA a little at a time.

To lease a H₂S meter would be \$450 per month.

Jason W. Patrick

Plant Manager

Board Meeting

4/21/2025

Draft 2025 / 2026 Draft Budget

I prepared a draft budget that I would like to go over some of the line-item increases.

1. Maintenance & Service Agreements – Lab testing was moved into this account
2. Telephone and Communication – Plant Internet and phones were added into this account
3. Plant Electricity = Electrical cost increased
4. Chemicals = This includes Bioxide for Pump Station 2
5. Lab Supplies – DEEP Testing Removed from this account
6. Wages = \$24,000 increase
7. Wage adjustments = almost \$7,000 increase
8. Property and Casualty Insurance = \$9,000 increase
9. Nitrogen Credits = Estimated amount
10. Retirement Contributions - \$5,000 increase
11. Health Insurance = \$5,000 increase
12. Workers Compensation Insurance = Almost \$6,000 increase
13. Computer Software Parts - \$20k for sonic walls

Jason Patrick

WPCA Plant Manager