

Deborah W. Reid
RECEIVED DEC - 2 2022
@ 8:25am

MEMBERS OF THE WPCA THAT ARE UNABLE TO ATTEND THIS MEETING, PLEASE CALL TONY MANFRE, (860) 644-2511, EXT. 2247, ON OR BEFORE 4:30 P.M. ON THE DAY OF THE MEETING.

**WATER POLLUTION CONTROL AUTHORITY
TOWN OF SOUTH WINDSOR
AGENDA**

**REGULAR MEETING
SOUTH WINDSOR TOWN HALL
MADDEN ROOM**

**TUESDAY, DECEMBER 6, 2022
7:00 P.M.**

REGULAR MEETING

A. Roll Call

B. Acceptance of Minutes of Previous Meetings

1. November 2, 2022 Regular Meeting

C. New Business

1. Election of WPCA Secretary (Decision)
2. 444 Nutmeg Road North – Prime Material (Approval to Connect)
3. 591 Ellington Road – Pleasant Valley Elementary School (Approval to Connect)
4. Odor Control Improvements (Discussion)

D. Communications and Reports

1. Superintendent Report

E. Public Participation (Items not on the agenda)

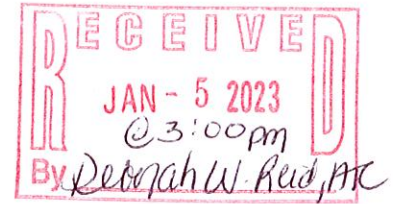
F. Bills, Change Orders, Disbursements

G. Unfinished Business

H. Executive Session

I. Adjournment

**WATER POLLUTION CONTROL AUTHORITY
TOWN OF SOUTH WINDSOR**



**REGULAR MEETING
SOUTH WINDSOR TOWN HALL
MADDEN ROOM**

**MINUTES
DECEMBER 6, 2022 AT 7:00 PM**

PAGE 1

A. Roll Call

Members Present: Stephen Wagner, Joseph Botti, Toby Lewis, and James Murray

Members Absent: David Basile, Michael Lyon and Bala Ramasamy

Alternates Present: Vicki Paliulis

Alternates Absent:

Staff Present: Ether Diaz, Recording Secretary
Jeff LeMay, Plant Supervisor
Tony Manfre, Superintendent of Pollution Control

Others Present: Daniel Jameson, P.E., Project Manager, Design Professionals, Inc.
Bernie Murillo, Civil Engineer, Design Professionals, Inc.

B. Acceptance of Minutes of Previous Meetings

1. November 2, 2022 Regular Meeting

Motion to accept the minutes of the November 2, 2022 Regular Meeting as amended.

The motion was made by Mr. Toby Lewis and seconded by Mr. Joseph Botti. Chairman Wagner recommended a minor change. The motion carried unanimously.

C. New Business

1. Election of WPCA Secretary (Decision)

Chairman Stephen Wagner explained that Ms. Carol Fletterick has resigned from the WPCA. She served nearly 35 years; she also served as Secretary of the WPCA for seven terms. The Secretary position is now open and Chairman Wagner asked if anyone was interested in filling that position. There was a consensus to postpone this matter until the next meeting.

2. 444 Nutmeg Road North – Prime Material (Approval to Connect)

Included with the Agenda was a copy of the Narrative Report for this project (see Exhibit A). Mr. Daniel Jameson, P.E., Project Manager of Design Professionals, Inc., was in attendance this evening to present the application. Mr. Jameson was seeking approval for final connection to the existing sewer main in Governor's Highway for a proposed 29,600±SF storage building to be located at 444 Nutmeg Road North. The building would be served by a 6" PVC sanitary lateral that would tap into the existing sewer main in Governor's Highway. A sanitary monitoring manhole is proposed on

**WATER POLLUTION CONTROL AUTHORITY
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**REGULAR MEETING
SOUTH WINDSOR TOWN HALL
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**MINUTES
DECEMBER 6, 2022 AT 7:00 PM**

PAGE 2

site and an easement in favor of the Town is available to allow access to the proposed manhole. No floor drains are proposed in the building. Water will not be used for any industrial process and there will be no industrial process that discharge wastewater. Mr. Jameson asked that the sewer assessment connection charge be based on the 3.35± acres associated with this new development, and a capacity charge based on the final water meter size selected.

Ms. Vicki Paliulis asked what the industrial purpose of this business is. Mr. Jameson explained that they are a steel material processing business and they are just moving their existing operation inside the proposed 29,600±SF storage building.

Ms. Paliulis asked if the storm water permitting is in place. Yes, said Mr. Jameson. Ms. Paliulis asked if the State Department of Energy and Environmental Protection (DEEP) is aware of their expansion and any changes to the Storm Water Pollution Prevention Plan. Mr. Jameson explained that they went through the Wetland Commission and the Planning & Zoning Commission approval process. They did come up with a Spill Prevention Plan as there is an existing fuel tank on site. They are going to raise the existing fuel tank that is on site, however, the site owner will be handling the Spill Prevention Control and Countermeasures (SPCC) Plan and the Storm Water Plan process as needed to satisfy DEEP requirements. Mr. Jameson also explained that they did an Erosion Control Plan which has been approved by the Planning & Zoning Commission and the Wetlands Commission. Therefore, Mr. Jameson expressed that they feel they have satisfied and approved a plan that will protect the environment from construction activity and the site owner will take on their responsibility of permitting needs to satisfy the storage building. However, the operation of the business is going to remain the same.

Motion to approve the connection of 444 Nutmeg Road North subject to the following conditions:

1. Technical approval by the Engineering Department;
2. The sewer line is installed in substantial conformance with the design plans;
3. A monitoring easement to the monitoring sewer manhole in favor of the Town;
4. Payment of the following charges will be updated and due at the time of connection, the rates for which will be in effect until June 30, 2023:
 - a. Connection Charge in the amount of \$15,111.81 for 3.57 buildable acres;
 - b. Capacity Charge to be determined by the size and quantity of water meter(s).

The motion was made by Mr. Toby Lewis and seconded by Mr. Joseph Botti.
The motion carried unanimously.

**WATER POLLUTION CONTROL AUTHORITY
TOWN OF SOUTH WINDSOR**

**REGULAR MEETING
SOUTH WINDSOR TOWN HALL
MADDEN ROOM**

**MINUTES
DECEMBER 6, 2022 AT 7:00 PM**

PAGE 3

3. 591 Ellington Road – Pleasant Valley Elementary School (Approval to Connect)

Included with the Agenda was a copy of the Narrative Report for this project (see Exhibit B). Mr. Daniel Jameson, P.E., Project Manager of Design Professionals, Inc. was seeking approval to increase the flow rate for commercial sewer service at Pleasant Valley Elementary School. This project consist of a proposed 1,300 SF to provide space for an additional classroom with storage and a bathroom facility. There is no proposed change to the water meter size with this application and no additional grease traps are proposed to accommodate the building addition. This would increase the flow rate from 13,890 GPD to 13,938 GPD.

Motion to approve the additional wastewater generated from the 1,300 SF addition to Pleasant Valley Elementary School.

The motion was made by Mr. Toby Lewis and seconded by Mr. Joseph Botti.
The motion carried unanimously.

4. Odor Control Improvements (Discussion)

Mr. Tony Manfre distributed a copy of a draft Odor Control Improvement Action Plan that was developed (see Exhibit C). He explained that the Vapex and Pure Air Systems are currently in the works. They will be able to evaluate their effectiveness by February 2023.

Mr. Toby Lewis asked if is a fair time of year to be doing an assessment of the effectiveness of the Vapex and Pure Air Systems now during the winter months when the odor is more noticeable in the warmer weather. Mr. Manfre responded that they will be measuring the H₂S inside the tank that is generated anytime when the material is disturbed or the mixers are on which releases gas. Mr. Jeff Lemay, Plant Supervisor explained that the intent will be testing the Vapex system with the mixers running; the idea will be to turn the mixers on which creates the worst H₂S conditions.

Why can't the Vapex system be kept in place if they like the effectiveness, asked Chairman Wagner. Mr. Manfre responded that it is his understanding that this is a trailer unit; is for pilot demonstrations only and they move it around the country.

Continuing on with the Action Plan, Mr. Manfre said a decision will need to be made on the best Odor Control option for sludge storage tanks. Once a new system is in place this will change the dynamics of the Standard Cubic Feet Per Minute (SCFM) and air exchange rates applied to the bio filter. Mr. Manfre is planning to solicit Request for Proposals in June 2023 to design the best system for the West Side of the treatment plant. This action plan (see Exhibit C) also includes preliminary budgetary costs.

Chairman Wagner mentioned that Senator Anwar has offered to try to include some of these costs in the next State budget for FY 2024 for state funding. He asked Mr. Manfre to explain what the west side of the treatment plant includes. Mr. Manfre explained that the west side includes carbon treatment for Headworks Building and Control Buildings along with potentially adding anoxic tank covers. There was a consensus to seek state funding (\$2M) for some of the improvements following the action plan (see Exhibit C).

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**MINUTES
DECEMBER 6, 2022 AT 7:00 PM**

PAGE 4

D. Communications and Reports

1. Superintendent Report

Included with the Agenda was a copy of the Superintendent's report (see Exhibit D). Mr. Tony Manfre presented his report. Regarding the collection of sewer user fees and delinquent accounts, Mr. Manfre reported that the demand/intent to lien notices generated \$497,963 in November; Liens will be filed with the Town Clerk no later than December 5th and Alias Tax Warrants will be issued shortly thereafter. Also, the Commercial/Industrial Sewer Collection Rate for the 2022 Grand List is 99.38% and the Residential Collection Rate is 92.04%.

E. Public Participation (Items not on the agenda)

None

F. Bills, Change Orders, Disbursements

None

G. Unfinished Business

None

H. Executive Session

None

I. Adjournment

Motion to adjourn the meeting at 7:48 p.m.

The motion was made by Mr. Toby Lewis and seconded by Mr. Joseph Botti.
The motion carried unanimously.

Respectfully Submitted,

Ether Diaz
Recording Secretary



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CIVIL & TRAFFIC ENGINEERS / LAND SURVEYORS / PLANNERS / LANDSCAPE ARCHITECTS
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November 21, 2022

Mr. Anthony Manfre, Superintendent of Pollution Control
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Re: WPCA Application for New Commercial Sewer Connection
Prime Materials Recovery
444 Nutmeg Road North
South Windsor, CT

Dear Mr. Manfre,

Design Professionals, Inc. has been engaged to provide engineering services for a final connection to the existing sewer main in Governor's Highway for a proposed 29,600±SF storage building to be located at 444 Nutmeg Road North in South Windsor, Connecticut. The building would be served by a 6" PVC sanitary lateral that would tap into the existing sewer main in Governor's Highway. A sanitary monitoring manhole is proposed on site. An easement will be indicated on the final plan to allow access to this manhole. No floor drains are proposed in the building.

Sanitary design flows for the proposed building area were based on Section 4.B, Table 4 of the Connecticut Public Health Code. The expected sanitary flow is 2,960 GPD, considering 0.1 GPD/SF for 29,600 SF of Warehouse / Industrial space (2,960 GPD). Water will not be used for any industrial process and there will be no industrial process that discharge wastewater.

We ask that the sewer assessment connection charge be based on the 3.35± acres associated with this new development, and a capacity charge based on the final water meter size selected.

Please feel free to contact us with any questions or comments.

Regards,

DESIGN PROFESSIONALS, INC.

Daniel H. Jameson, P.E.
Project Manager



Exhibit B

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November 22, 2022

Mr. Anthony Manfre, Superintendent of Pollution Control
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Re: WPCA Application for Request to Increase Flow Rate for Commercial Sewer Service
Pleasant Valley Elementary School
591 Ellington Road
South Windsor, CT 06074

Dear Mr. Manfre,

Design Professionals, Inc. has been engaged to provide engineering services for a proposed 1,300 SF addition to the approved 102,150 square feet elementary school. The 1,300 SF will provide space for an additional classroom with storage and a bathroom facility. No additional grease traps are proposed to accommodate this building addition.

The additional classroom will accommodate 4 to 6 special needs students with one or two teacher assistants. With up to 6 additional pupils, we anticipate the total daily sanitary flow will increase by 48 GPD per Section 4.B, Table 4 of the Connecticut Public Health Code. This would increase the original expected daily sanitary flow of 13,890 GPD to **13,938 GPD**, considering a new projected student and staff population of 932 (up from 926).

A previous assessment was completed for the property and the proposed water meter will be 4" in size. There is no proposed change to the water meter size with this application.

Please feel free to contact us with any questions or comments.

Regards,

DESIGN PROFESSIONALS, INC.

Daniel H. Jameson, P.E.
Project Manager

Odor Improvement Action Plan

December 6, 2022

Date	Milestone Title	Description or Activity
Feb-23	Evaluation	Evaluate Pure Air and Vapex Systems.
Mar-23	Decision on Vapex	Make a decision on the most effective odor control treatment system for sludge storage tanks.
Apr-23	Sludge Storage	Beginning installation of best odor control option.
Jun-23	Odor Control Design RFP	Hire consultant to design and bid odor control improvements to the west side of the treatment plant.
Nov-23	Construction	Begin odor control improvements.

Budgetary Cost Figures for Full Build Out Odor Control Improvements

December 6, 2022

Improvement	Funding Source	Budgetary Cost
Gravity Thickener	Local	\$ 61,000
Sludge Storage Tank		
Vapex*	State Grant	\$ 399,000
Pure Air*	State Grant	\$ 178,500
West Side Odor Control Improvements** and Cover Anoxic Tanks	State Grant	\$ 2,000,000

* 5% added to price quotes.

** West Side improvements includes carbon treatment for Headworks Building and Control Buildings. Additionally anoxic tank covers will be considered.

WPCA COMMUNICATIONS AND REPORTS

December 6, 2022

The following is a monthly report from the Superintendent of Pollution Control as an appendix to the Water Pollution Control Authority meeting.

Treatment Plant and Collection Systems

Treatment Plant

Process

TREATMENT PLANT	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	AVERAGE
AVG FLOW (MGD)	2.67	2.51	2.63	3.07	3.30	3.12	2.55	2.39	2.10	2.06	2.20	2.23	2.57
BOD REMOVAL	98.5%	98.7%	98.8%	98.7%	98.6%	98.1%	98.9%	99.0%	98.7%	98.4%	98.0%	98.4%	98.6%
TSS REMOVAL	98.8%	99.0%	99.2%	99.0%	98.9%	97.9%	99.0%	99.1%	99.0%	99.1%	98.0%	98.2%	98.8%
NITROGEN LBS. (106 LBS. LIMIT)	113	115	95	87	86	96	84	95	100	85	94	89	95
NITROGEN mg/L	4.2	4.1	4.2	3.5	3.5	3.7	3.9	4.7	5.5	4.9	4.9	4.6	4.3

Maintenance

- Repaired collection arm on Gravity Thickener 1.
- Repaired Headworks Wash Press Auger.
- Installed new VFD (Variable Frequency Drive) on Aeration Turbo Blower 3.
- Repaired potable water line in high bay of Admin Building.
- Repaired sodium hypochlorite leaks in Hypo Room and GBT Room.
- Replaced Filtrate Pump 2 and exercised Filtrate Pump station valves.
- Removed grease buildup in Secondary 1 and 2 air bleed valves.
- Dewatered Aeration Tank 2 effluent channel in preparation for gate rehabilitation.
- 3 Operators completed extensive PLC (Programmable Logic Controller) training.
- Continued to work with Conn OSHA consultant. After finishing up with Confined Space we have moved on to our Lockout/Tagout Program.

Collection System

COLLECTION SYSTEM	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	TOTAL FT
CCTV (FEET)	2,000	1,200	2,642	1,950	8,538	4,681	0	3,033	5,129	3,695	2,282	1,642	36,792
CLEANING (FEET)	4,100	4,000	1,363	1,550	3,677	1,500	1,739	4,413	7,047	6,275	4,883	5,546	46,093

- Replaced broken 8" plug valve on Pleasant Valley Pump 3 discharge.
- Checked wear ring tolerances and cleaned rags out of Clark Street Pump Station Pumps 1 and 2 check valves.
- Removed grease and grit from Clark Street Pump Station wet well.
- Completed annual hydraulic oil changes on Combo Truck and Vac Truck.
- Completed all accessible cross-country sewer line cleaning.

- Completed quarterly pump station bypass valve exercises.

Emergency Call Outs

EMERGENCY CALL OUTS	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	TOTAL
TREATMENT PLANT	0	0	0	1	3	0	2	3	2	2	1	3	17
PUMP STATIONS	1	2	2	0	3	0	2	1	5	2	2	1	21
SEWER BLOCKAGES	0	0	1	0	0	0	0	1	0	0	0	0	2
CALL BEFORE YOU DIG	0	0	0	0	0	0	0	1	0	1	0	0	2
ODOR COMPLAINT	1	1	1	2	2	7	5	8	1	0	3	2	33

Capital Improvement Project Updates

Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

- Provided 95% design comments back to Arcadis.
- Met with SW Engineering Dept and Arcadis to discuss replacing the adjacent bridge crossing the Podunk River.
- Required bridge elevations are going to require modifications to the Pleasant Valley Pump Station design.

Next Steps:

- *Submit design to DEEP for review and approval (min. 90-day review).*
- *WPCA and Town Council Resolution to enter into CWF agreement*
- *Bid project.*

Aeration Weir Gate Improvements

The WPCA approved transferring \$750,000 from FY21/22 CIP (Phase IV Part 1 Sewer System Improvements) to complete critical improvements to the aeration basin weir gates. An additional \$50,000 was approved with the FY22/23 CIP budget.

- Weston & Sampson are working on bid specification.

American Rescue Plan Act (ARPA) Funded Projects

Phase IV Sewer System Improvements

This project has been approved utilizing American Rescue Plan Act funds. The budget for this project is \$1,100,000.

- Substantial completion was met before the November 16th deadline.

UV Disinfection Upgrade

This project has been approved utilizing American Rescue Plan Act funds. The original budget for this project was \$1,300,000. In February 2022 the Authority approved transferring \$120,000 from this project to the Clark Street Bypass Valve project.

Nothing new to report.

Clark Street Bypass Valve

This project has been approved utilizing American Rescue Plan Act funds. The original budget for this project was \$100,000. In February 2022 the Authority approved transferring \$120,000 from the UV Disinfection Upgrade project to the Clark Street Bypass Valve project.

- VMS began moving material to the site.
- Excavation is scheduled to begin December 1st.

Collection of Sewer User Fees and Delinquent Accounts

To be reported during the meeting.

Respectfully submitted by: Tony Manfre, Superintendent of Pollution Control