



## TECHNICAL COMMITTEE MEETING MINUTES

Wednesday, July 10, 2024

4:30PM

Via VIDEO/TELECONFERENCE

### Attendees:

Ed Kelly	Acting Chairman, Technical Committee
Steve Bagwin	Committee Member
Bill Brink, P.E.	Executive Director, WPCA
Ann Brown, P.E.	Supervising Engineer, WPCA
Steve Pietrzyk	Collection System Supervisor, WPCA

1. Call to Order and Roll Call – E. Kelly called the meeting to order at 4:30 PM and announced the attendees as listed above.
2. Approval of June 12, 2024 Meeting Minutes – E. Kelly made a motion to approve the minutes of the June 12, 2024 Technical Committee Meeting. The motion was seconded by S. Bagwin. Motion carried 2-0-0.
3. Public Comments – None.
4. Review and Approval of Third Amended and Restated Service Contract with Synagro for Operation and Maintenance of Stamford WPCF Sludge Drying Facility and Transportation and Beneficial Use or Disposal of Biosolids – W. Brink advised the Committee that we reviewed the contract and were still in negotiation with Synagro over the contract language. He has the City's Assistant Corporation Counsel reviewing the contract as well. We hope to agree on the language and have a contract for the August meeting.
5. Discussion on Changes to SCADA System Cyber Security with ARCADIS - A. Brown made the Committee aware of a possible change to cybersecurity for SWPCA. She reminded the Committee that ARCADIS and VirtualArmour provide cybersecurity for the SWPCA by monitoring the SWPCA firewall and ARCADIS Hub. VirtualArmour has increased their fees by almost 3 times the amount for continued firewall monitoring over the next year. ARCADIS presented several options for the next year including paying the additional fee and continuing with the same level of service, discontinuing the Virtual Armor services and turning the firewall management over to the City IT, or discontinuing use of the firewall. After discussion with ARCADIS and the City IT department, it was determined that the most secure path is to discontinue use of the firewall and have no remote connections to the SCADA system. Currently, ARCADIS can address issues with SCADA remotely. If we discontinue the firewall, any issues with SCADA could no longer be handled remotely but, will need to have someone come to the plant to investigate. B. Brink pointed out that we chose ARCADIS as our contractor for SCADA because their offices were in White Plains, and they could travel to WPCA in a relatively short time. Changes in the cybersecurity system will be identified in the ARCADIS contract renewal which will be before the Committee next month.
6. Discussion on Collection System – S. Pietrzyk presented the Monthly Pump Station and Collection Activities, which is attached and made part of these minutes. Steve gave an update on the Edice Road project indicating there is a section of sanitary sewer that is not approved and needs to be re-installed. Vitti will be doing this work.
7. Discussion on Plant Operations – B. Brink presented the Monthly Operating Report and Equipment Update to the Committee, which is attached and made part of these minutes. He indicated that flows are below average for June. although concentrations have increased. Plant is performing excellently. We are trying to reduce methanol use. We will be cutting back gradually to see if there are any changes to the process.
8. Update on Engineering Studies and Designs – A. Brown provided the Committee with a Capital Projects Update including engineering studies and designs, which is attached and made part of these minutes.

9. Update on Construction Projects – A. Brown provided the Committee with a Capital Projects Update including construction projects, which is attached and made part of these minutes. Ann gave an update on Perna Lane Sewer Extension Project saying that the Contractor is working on Perna Lane and adding a second crew to start on High Ridge Road. Work on High Ridge Road north of the Merritt Parkway is in a residential area and must be done during the day. Work south of the Merritt Parkway is in a commercial area and will be done during the night.
10. Old Business – None.
11. New Business – None.

There being no further issues to discuss, E. Kelly made a motion to adjourn the meeting, seconded by S. Bagwin; motion carried 2-0-0. The meeting adjourned at 5:05pm.

## Monthly Activities (06/11/24 to 07/8/24)

### Collection and Pump Station Division

#### Overview of Pump Station and Gravity Collection Systems:

1. Pump station inspections for 22-sanitary sewer and 4-stormwater stations (120)
2. Pump station call-out activities (16)
3. Manhole Inspections (180)
4. Gravity line service calls investigated (4)
5. Private lateral investigations and repairs in City ROW (1)
6. Sewer line repair (0)
7. Manhole repair(s) (0)
8. CCTV sanitary sewer lines (0 LF)
9. Sewer line cleaning (1.80 miles)

#### Pump Stations:

1. Performed monthly landscape maintenance activities at pump stations.
2. Exercised portable generators.
3. Performed electrical preventative maintenance inspections at various pump stations.
4. WPCA mechanics are providing and monitoring auxiliary power supply to Barry PL. pump station until new permanent power can be installed.

#### Collection System:

1. Crew jetted lines on Edice RD.; Bradley PL., Woods End RD., Summer ST. Ext., Main ST., Broad ST., East Main ST., Stillwater Ave., Haig Ave., Denise PL., Denise DR., and Nutmeg LN.
2. Crews marked sanitary sewer lines for proposed Eversource utility upgrade work.

#### Miscellaneous:

1. Provided sanitary sewer plan sheet information to various civil engineers and/or contractors working on City development projects.
2. Completed plan reviews for utility projects in close proximity of WPCA's infrastructure and provided summary comments.

**Overview of Regulatory Compliance:**

1. Initial building permit reviews (15)
2. Re-review of building permit applications (41)
3. Sanitary sewer tie-in plan reviews (8)
4. Zoning permit application reviews (3)
5. Initial Food Service Establishment (FSEs) Inspections (0)
6. FSE Follow-up Inspections (15)
7. Notice of violations (NOVs) Issued (4)
8. CTDEEP General Permit plan reviews or applications (0)

**Work performed by outside contractors:**

1. Vitti Construction repaired one (1) private lateral in the City ROW at 1607 Bedford ST.
2. Vitti Construction repaired twelve (12) manholes at 34 Idlewood DR.; 110 Idlewood DR.; 28 Weil ST.; Intersection of Weil ST. and 7<sup>th</sup> ST.; 28 7<sup>th</sup> ST.; 33 Waterford LN.; 43 Waterford LN.; Intersection of Waterford LN. and Eighth ST., intersection of 3<sup>rd</sup> ST. and Bedford ST., intersection of Ocean DR. West and Stamford Ave., and the intersection of Suburban Ave. and East Main ST.
3. Cavalier industries repaired two (2) manholes at 305 and 312 Loveland RD.
4. GA Fleet Associates installed new pump station communication system at Burwood pump station.



## July 2024 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	June Results		Historical (Jun) Monthly AVG	Permit or Design Limit	Percent of Design Capacity (Jun)
	This month (Jun)	Last month (May)			
Q (FLOW) DAILY AVG MGD	13.9	14.7	15.9	24	58%
Q MAXIMUM DAILY AVG MGD	21.1	21.7	20.1	58	
BOD INFLUENT AVG MG/L	264	287	233		
BOD INFLUENT AVG LBS/D	30,604	35,186		41,233	74%
BOD PRIMARY EFFLUENT LBS/D	17,041	19,493		21,797	78%
BOD EFFLUENT AVG MG/L	2	2	3	20	
BOD REMOVAL %	99.2	99.3	98.5	85	
TSS INFLUENT AVG MG/L	327	352	330		
TSS INFLUENT AVG LBS/D	37,908	43,154		61,849	61%
TSS PRIMARY EFFLUENT LBS/D	12,868	15,325		24,219	53%
TSS EFFLUENT AVG MG/L	5	5	7	20	
TSS REMOVAL %	98.4	98.6	97.5	85%	
TOTAL N INFLUENT AVG MG/L	44.8	41.4	34.4		
TOTAL N INFLUENT AVG LBS/D	5,193	5,076	4,470		
TOTAL N EFFLUENT AVG MG/L	1.72	1.71	2.50		
TOTAL N EFFLUENT AVG LBS/D	199	211	338	926 LBS/D	
N REMOVAL %	96.2	96.6	92.2		
TOTAL P INFLUENT AVG MG/L	6.21	5.78	4.97		
TOTAL P EFFLUENT AVG MG/L	1.29	1.14	0.81		
P REMOVAL %	79.2	80.3	83.9		
UV EXCEEDANCES <30 mJ/cm2	0	0			

### Plant Equipment Update

RAS Pump #2

Repaired pump assembly has been installed and pump placed back into service.

BFP No. 3

Mechanics currently replacing two (2) broken rollers now that the bridge crane in Solids Processing Building has been repaired by Kone Cranes.



**UPDATE OF CAPITAL PROJECTS  
TECHNICAL COMMITTEE MEETING**

**July 10, 2024**

**ENGINEERING STUDIES AND DESIGNS:**

**1. Sludge Management Plan/Fermentation Study**

Hazen is waiting for both primary clarifiers to be put back in operation to continue working on the fermentation study.

**2. Plant Water, Return Activated Sludge (RAS) and Waste Activated Sludge (WAS)**

Gannett Fleming is working on the preliminary and final design of this project. Documents should be complete by the end of summer.

**3. RFQ for Evaluation of the Alvord Lane, Commerce Rd, and Saddle Rock Pump Stations**

Tighe & Bond has begun work on the design of Saddle Rock PS.

**4. RFP for the Design and Supply of a Standby Generator at Clay Hill Pump Station and West Avenue Pump Station**

Technical specifications are being finalized. Once complete an advertising date will be requested.

**5. Structural Evaluation of the Columns in the Sludge Dewatering Building**

Preparing bid documents for the repair.

**6. Bid for Design Build Standby Generator for the Greenwich Ave. Pump Station**

Preparing the bid documents for a standby generator for Greenwich Ave Pump Station. Purchasing to provide a bid date.

**7. RFQ for the Operation and Maintenance of Stamford WPCF Sludge Drying Facility and Transportation and Beneficial Use or Disposal of Biosolids**

We have negotiated a new contract with Synagro which is on the agenda for this meeting.

**CONSTRUCTION PROJECTS:**

**1. Perna Lane, Phase I Collection Sewers**

Grasso will have two crews starting Wednesday, 7/10. They are working on Perna Lane laying pipe and will begin excavation on High Ridge Road on Wednesday, 7/10. Based on Grasso's schedule, they will be done with the sanitary sewer on Perna Lane by 9/2/24. The schedule shows completing the sanitary sewer gravity line on High Ridge Road by 11/15/24. Storm drainage and force main work will begin in April 2025. Wooden stakes have been delivered to homeowners with instructions to place the stake at the location where they want the lateral stub to be left.

**2. Electrical Preventive Maintenance / Arc Flash**

Siemens has finished the verification of the data collected previously. They had a few extra days of data verification than anticipated. They are preparing a cost for this work for WPCA review and approval. The Arc Flash study is ongoing.

**3. Infiltration/Inflow Sewer Rehab**

The contractor continues with lateral grouting in the areas of:

- Ocean Drive W. and Saddle Rock Road.
- Carter Drive and Tupper Drive.
- Bell Street and Atlantic Street.



- 4. Modular Office Trailers for Collection System Staff / Building 6A Roofing Update**  
The roofing contractor for Building 6A was issued a Purchase Order. They also are working on the school roofs. The schools may be done before the roof on Building 6A.
- 5. Painting of Final Clarifiers # 1, 2 and 4**  
Our painting Contractor, MacKenzie continues to prime and paint the first of three clarifiers. They started with Final Clarifier #4.
- 6. Repair of Storm Water Pumps #1 and 3 at Cummings Pump Station**  
New England Pump and Valve has removed Pump #3 from the pump station to their shop to disassemble, clean and inspect the pump. They are preparing a Condition Report so we can see the repairs needed.
- 7. Sludge Degritting System Upgrade**  
CH Nickerson is working on the following:
  - Install new degritting equipment (south).
  - Pour and form Sludge pump #2 concrete pad and set sludge pumps #2 and associates piping.
  - 7-day run tests for new sludge pumps.
  - Remove center column in Clarifier #1.
  - Set new Clarifier Equipment.
- 8. Repair/Replacement of approximately 175 LF of 12” Sewer on Edice Rd**  
Vitti replaced the pipe and reconnected the laterals. A CCTV inspection showed that there is one new pipe section that has a sag in the pipe. Vitti will replace this section.
- 9. Final Settling Tank No. 3 Upgrade**  
Tucker Mechanical was issued a conditional award letter.  
Once bonds and insurance are in place, we will schedule a pre-construction meeting to begin work.

**PAYMENT/CHANGE ORDER LOG AS OF 2/20/2024**

Sludge Degritting System Upgrade (Contractor – CH Nickerson)

Original Value of the Contract = \$ 9,165,000.00  
Total Approved CO Amount = \$ 0  
Contract Sum to Date = \$ 9,165,000.00

Perna Lane Sewer Extension (Contractor – Grasso)

Original Value of the Contract = \$ 8,263,194.41  
Total Approved CO Amount = \$ 0  
Contract Sum to Date = \$ 8,263,194.41

Painting of Clarifiers #1,2, and 4 (Contractor – McKenzie)

Original Value of the Contract = \$ 239,355.00  
Total Approved CO Amount = \$ 0  
Contract Sum to Date = \$ 239,355.00

Edice Road Sewer Repair (Contractor – A. Vitti)

Original Value of the Contract = \$ 71,500.00  
Total Approved CO Amount = \$ 0  
Contract Sum to Date = \$ 71,500.00



Final Settling Tank No. 3 Upgrade (Contractor – Tucker Mechanical)

Original Value of the Contract =	\$ 1,031,301.00
Total Approved CO Amount =	\$ 0
Contract Sum to Date =	\$ 1,031,301.00