



TECHNICAL COMMITTEE MEETING MINUTES

Wednesday, October 12, 2022

4:30PM

Via VIDEO/TELECONFERENCE

Attendees:

Merritt Nesin	Chairman, Technical Committee
Edward Kelly	Committee Member
Steve Bagwin	Committee Member
William Brink, PE	Executive Director, WPCA
Ann Brown, P.E.	Supervising Engineer, WPCA
Steve Pietrzyk	Collection System Supervisor

1. Call to Order and Roll Call

M. Nesin called the meeting to order at 4:30PM and announced the attendees as listed above.

2. Approval of September 7, 2022 Meeting Minutes

E. Kelly made a motion to approve the minutes of the September 7, 2022 Technical Committee Meeting; seconded by S. Bagwin. Motion carried 3-0-0.

3. Public Comments

None

4. Approval of Bid Waiver for Arcadis SCADA On-Call Services FY 2022-23 in an Amount of \$45,000 for the Plant On-Call and \$32,000 for the Pump Stations

A. Brown explained that this is a yearly contract that we are asking to renew. In FY 2021-22, the contract amounts were for \$45K/\$20K and we spent a total of \$49,000. B. Brink added that Arcadis provides support for the SCADA system. They also provide the 24/7 monitoring of the VirtualArmor hardware. He explained that we may not use the pump station item because we are in a trial with a Fleet communication system which may provide better communications at the pump stations than the SCADA cellular. There are 6 pump stations with poor communications. The Fleet cellular system is installed as a trial at Carriage Drive pump station which seems to work well. We will be trying it at Cove Island pump station. If it works, we can eventually change all the pump stations to the Fleet system. S. Pietrzyk indicated the cost for the trial is \$3400. Each additional station is \$2800 and the annual data cost is \$374.00. He also indicated that with the Fleet system, he can see the pump station status on his iPhone or computer. We are asking that the contract be approved in case we need to use it. The Committee agreed to recommend approval to the full board.

5. Discussion on Collection System

S. Pietrzyk gave a brief overview of the monthly report. He explained that he tries to schedule sewer cleaning however, priorities shift when he receives a request for a service call. M. Nesin asked how he prepares for a major storm event. He outlined the preparation steps including: in advance of the storm meeting with staff to review expectations; inspecting & testing equipment; filling automatic greasers and standby portable generators; fueling vac trucks and jet trucks; and post storm inspections, cleanup and maintenance. S. Pietrzyk provided a summary of the Monthly Pump Station and Collection Systems Activities from 9/6/22 to 10/10/22 which is attached and made part of these minutes.

6. Discussion on Plant Operations

B. Brink indicated that the plant was operating well and the process is very healthy. He also indicated that the dryer is working much better now than prior to rebuilding it. Synagro has reported that they have very few shutdowns since the dryer was put back in service.

7. Update on Engineering Studies and Designs and Construction Projects

A. Brown provided the committee with a Capital Projects Update including engineering studies and designs which is attached and made part of these minutes. B. Brink added that at the upcoming site visit to Schenectady NY treatment facility, he feels the important issues to look at are reliability of the process, complexity of the process, ease of operating the system and requirement for a digester for this process.

- a. Infiltration & Inflow Removal Project
- b. Sludge Management Plan
- c. Engineering Design Services for Plant Water System and the RAS/WAS Pumping Systems
- d. RFQ for Evaluation of the Alvord Lane, Commerce Drive and Saddle Rock Pump Stations
- e. RFQ for the Design and Supply of a Standby Generator at Clay Hill Pump Station
- f. Perna Lane, Phase 1 Collection Sewers
- g. New Building for Collection System Staff (Bldg 6A)
- h. Structural Evaluation of the Columns in the Sludge Dewatering Building
- i. RFP for Architectural/Engineering Services for Locker Room Renovations at SWPCA

8. 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.

- a. Standby Generator for the Greenwich Ave. Pump Station
- b. Preliminary, Secondary and Disinfection Treatment Improvements
- c. Electrical Preventive Maintenance and Arc Flash Evaluation
- d. Sludge Degritting System Upgrade

9. Old Business

10. New Business

There being no further issues to discuss, E. Kelly made a motion to adjourn the meeting, seconded by S. Bagwin; motion carried 3-0-0. The meeting was adjourned at 5:20PM.

Monthly Activities (9/6/22 to 10/10/22)

Collection and Pump Station Division

Overview of Pump Station and Gravity Collection Systems:

1. Pump station inspections for 24-sanitary sewer and 4-stormwater stations (163)
2. Pump station call-out activities (12)
3. Manhole Inspections (270)
4. Gravity line service calls investigated (10)
5. Private lateral investigations and repairs in City ROW (3); 48 Vassar Ave., 42 Woodland Ave., 59 Broad ST.
6. CCTV sanitary sewer lines (351 LF)
7. Sewer line cleaning (1.10 miles)

Pump Stations:

1. Continued cutting and removing old fasteners for three (3) duck bills at Cummings stormwater pump station during low tide and weather permitting.
2. On 9/12 Hobson Pump Station control panel's transformer failed and caused the loss of pump operations, which resulted in a SSO (approximately 5 gallons of wastewater). The incident was discovered during a routine weekly inspection. SCADA communications remain poor and inconsistent in delivering reliable pump station operation monitoring capabilities.
3. Finished the electrical repair at Hobson pump station. The starter coil on pump # 2 was replaced and pump back was put back into service.
4. Performed monthly landscape maintenance activities at pump stations.
5. Exercised portable generators.
6. Completed inventory requests for small equipment assets used for pump stations and the collection system.
7. Participated in the annual tour of the hurricane barrier and stormwater pump stations with the Army Corp. Engineers.
8. Completed floor painting at Saddle Rock Pump Station in an effort to limit further corrosion.
9. Clay Hill pump station call-out. Pump #1 was over temperature and taken out of operation. Pump #1 was inspected for electrical amperage and operated via pump operation cycles. Subsequently, pump #1 was put back into service.
10. Field reviewed proposed electrical improvements with Traver at Hobson and Saddle Rock pump station. There is a 22 to 30 week lead time to receive the meter pans before this work can commence.
11. Performed electrical preventative maintenance inspections at various pump stations.
12. Installed new duck bill for pump #3 at Cummings station.
13. Intake line was repaired at Knapp ST. pump station.

Collection System:

1. Inspected private lateral connection on Custer ST. and inspected new routing of sanitary sewer line/manhole installations at 419 West Ave.
2. A sanitary sewer overflow (SSO) was reported on 9/8 for a cracked sewer main (8" tile pipe) behind 70 Halliwell DR. Crews jetted and CCTV sewer lines in easement areas behind 80 and 70 Halliwell DR. to locate cracked section of 8" tile pipe and worked with Vitti Construction in assisting with repairing sewer line.
3. CCTV private lateral at 48 Vassar Ave.
4. Jetted sewer lines at the following locations: Summer ST. Ext., Main ST., West Park PL., East Main ST., Selleck ST., Davenport ST., Lawn Ave., East Main ST., and Wampanaw Ave.
5. Investigated broken lateral in City ROW by Penna Construction at 42 Woodland Ave. and ensure the repair was completed properly (9/28).

Training:

1. Training two (2) new mechanic in training (MIT) candidates on pump station and collection system work activities and use of computer maintenance and management system (CMMS).

Miscellaneous:

1. Continue to work with CDMSmith on the GIS upgrade project.
2. Provided sanitary sewer plan sheet information to various civil engineers and/or contractors working on City development projects
3. Conducted plan reviews for proposed sanitary lateral connections to public sanitary sewer system in viewpermit system.

Overview of Regulatory Compliance:

1. Initial building permit reviews (25)
2. Re-review of building permit applications (85)
3. Sanitary sewer tie-in plan reviews (3)
4. Zoning permit application reviews (1)
5. Initial Food Service Establishment (FSEs) Inspections (2)
6. FSE Follow-up Inspections (5)
7. Notice of violations (NOVs) Issued (4)
8. CTDEEP General Permit plan reviews or applications (6)

Work performed by outside contractors:

1. Vitti Construction repaired sewer main (8" clay tile pipe) behind #70 Halliwell DR. (9/8).
2. Vitti Construction repaired private laterals in City ROW at 48 Vassar Ave. (9/10) and 59 Broad ST. (10/6).
3. Northeast Generator Company inspected standby generator on 9/21 and determined extensive repairs are required to put this 50 year old generator back into service. If power is loss, a portable generator can be delivered and used at this station.
4. Vitti Construction repaired/raised four (4) sanitary manhole frames at 275 Summer ST., 471 Glenbrook Rd., 481 Glenbrook Rd., and 487 Glenbrook Rd.
5. Eversource completed the power modifications at Cedar Heights (9/28). Waiting for Frontier to coordinate and schedule communication modifications at Cedar Heights.
6. Met with the City Roofing Contractor and field reviewed the roof repairs needed for the generator building at Alvord Lane. Contractor to submit proposal to Supervising Engineer (10/3).



**UPDATE OF CAPITAL PROJECTS
TECHNICAL COMMITTEE MEETING
October 12, 2022**

1. UPDATE ON ENGINEERING STUDIES AND DESIGNS

a. Infiltration Inflow Study

CDM Smith has completed the design of the sewer rehabilitation in subareas F1-1 and B1-3. The project advertises for bids on October 13th with a due date of November 10th.

b. Sludge Management Plan

Hazen has scheduled a trip for SWPCA to Schenectady, NY wastewater treatment plant for September 25th. Hazen was asked to provide information that describes the gasification process being used at the Schenectady for our review before the visit. There is another plant in Linden NJ that is not yet ready for operation.

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

Gannett Fleming is working on the preliminary design report for the proposed system. WPCA is providing them with information about the plant operations and existing equipment so they can prepare a report.

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

WPCA received qualification packages from 10 engineering firms to evaluate the three pump stations. The selection committee has reviewed the packages and chose the top ranking 4 firms to interview. Purchasing is setting up interviews.

e. RFP for the Design and Supply of a Standby Generator at Clay Hill Pump Station

We have all the necessary permits for this project and can now go out to bid to size and supply the generator. Purchasing to issue a bid date.

f. Perna Lane, Phase I Collection Sewers

Tighe & Bond should submit a revised design report shortly. WPCA can then reach out to the property owners to discuss easements and schedule a public meeting to advise the neighborhood of the path forward.

g. New Building for Collection System Staff

We are working on a RFP for architectural services to design a small building to be used as office space for the collection system staff and the electricians - 12 employees. We are also issuing a bid for a temporary office trailers to locate the employees until a new building is ready.

h. Structural Evaluation of the Columns in the Sludge Dewatering Building

The structural engineering firm has performed a field inspection of the columns in the sludge handling building. They have completed the analysis of the columns and the preliminary result is that the columns do not need to be replaced. They have prepared a report with plans, sections and details of the column repairs which we should receive shortly.



i. RFP for Architectural Services for Locker Room Renovations at SWPCA

We are reviewing proposals from 5 firms for renovations to the locker rooms. The locker rooms are 20 years old. The firm selected will be looking at repairs of the tiles, ventilation and locker space.

2. UPDATE ON CONSTRUCTION PROJECTS

a. Design-Build Standby Generator for the Greenwich Ave. Pump Station

WPCA, through the City's legal department, has reached out to the Contractor and asked again for the Contractor to provide any additional costs for this work so a Change Order can be negotiated. The Contractor indicated that they are in the process of preparing updated pricing for the above referenced job. We are hoping to have the estimate from them this week.

b. Preliminary, Secondary and Disinfection Treatment Improvements

The site restoration is ongoing. CH Nickerson has re-seeded and been watering the grasses areas disturbed by the construction. Grass seems to be growing.

c. Electrical Preventive Maintenance / Arc Flash

Tighe and Bond compiled the information provided and have asked for additional information. I am reviewing what is still needed and will forward the information to Siemens.

d. Sludge Degritting System Upgrade

This project was re-advertised for bids on September 1st. Bids due October 19th.

Change Order Log as of 10-11-22

Copy of Change Order log for construction projects is attached.

Preliminary, Secondary and Disinfection Treatment Improvements (Contractor – CH Nickerson)

Original Value of Contract = \$ 26,751,500.00

Total Approved CO Amount = \$ 3,683,559.46

Contract Sum to Date = \$ 30,435,059.46

Percent of total project = 13.8%

Stamford WPCF Preliminary, Secondary and Disinfection Treatment Improvements
Change Order Summary

CHN PCCOR No.	CHN PCCOR Date	Description	Contractor Amount	Status	Included in CO#	Total Approved Amount	PCO				RFI		RFP		WCD	
							Approved to Preliminary	Approved to Secondary	Approved to UV	Approved Date	No.	Date Issued	No.	Date Issued	No.	Date Issued
NA	NA	Replace the Issue for Bidding Specification Sections 00520 - Agreement and 00800 - Supplementary Conditions with the Attached Specifications	\$ -	Approved	1	\$ -					5/10/2019					
01 (rev)	6/21/2019	Programming Services Provider / Integration Services - Revised	\$ 194,922.00	Approved	2	\$ 194,922.00	\$ 48,340.00	\$ 110,000.00	\$ 36,582.00		7/9/2019					
02 (rev)	1/20/2020	Additional Plank Support Framing & Planking at UV Basin 1 Outfall	\$ 35,257.23	Approved	3	\$ 35,257.23			\$ 35,257.23		2/27/2020			H-01	11/19/2019	
03 (rev)	10/25/2020	Changes to Moment Connection at UV Canopy	\$ 4,076.36	Approved	3	\$ 4,076.36			\$ 4,076.36		12/12/2019	H-019				
05	11/18/2019	UV Pilasters	\$ 2,689.46	Approved	3	\$ 2,689.46			\$ 2,689.46		11/19/2019					
09	1/28/2020	Remove and Reinstal drain piping and electrical conduionboxes in Blower Room to install new fire rated wall. Plans did not call for this work	\$ 28,473.69	Approved	3	\$ 28,473.69		\$ 28,473.69			4/7/2020					W-06 11/20/2019
11	2/21/2020	Add spool pipe to Septage Area	\$ 1,214.84	Approved	3	\$ 1,214.84	\$ 1,214.84				2/27/2020					W-03 11/20/2019
13	3/9/2020	Additional Rebar at UV Basin 1	\$ 21,447.91	Approved	3	\$ 21,447.91			\$ 21,447.91		3/15/2020					H-01 12/18/2019
17	4/14/2020	UV Power Panel Relocation	\$ 23,740.56	Approved	3	\$ 23,740.56			\$ 23,740.56			H-095	4/8/2020			
14	3/18/2020	Relocate Generator and Modify Bridge Crane per Building Department Request	\$ 83,080.40	Approved	4	\$ 83,080.40		\$ 83,080.40			8/19/2020					
18	6/19/2020	Replace Missing Hardware @ AT Bridges	\$ 5,082.33	Approved	4	\$ 5,082.33		\$ 5,082.33			8/19/2020					
19	7/14/2020	Provide Additional Thin Client Licensing & Integrate Existing Mixers per City Request	\$ 23,618.32	Approved	4	\$ 23,618.32		\$ 19,287.40								
16	4/4/2020	Credit for Redundant Breaker @ ATS	\$ (17,296.74)	Approved	5	\$ (17,296.74)		\$ (17,296.74)			9/23/2020					
21	8/7/2020	Add External Breaker for RSP-2	\$ 9,061.48	Approved	5	\$ 9,061.48	\$ 9,061.48				9/23/2020					
24	8/26/2020	Additional Tags for The GE Historian	\$ 8,590.02	Approved	5	\$ 8,590.02	\$ 2,863.34	\$ 2,863.34	\$ 2,863.34		8/26/2020	H-164	8/19/2020			
25	9/14/2020	Replace UV Channel #3 Inlet Gate	\$ 37,004.86	Approved	5	\$ 37,004.86			\$ 37,004.86		9/15/2020			H-02	9/3/2020	
27	9/15/2020	Install Missing Wiring to MX 60-6 & 60-12	\$ 16,235.90	Approved	5	\$ 16,235.90		\$ 16,235.90			9/23/2020					
28	9/15/2020	New Sampler Location at UV	\$ 5,232.89	Approved	5	\$ 5,232.89			\$ 5,232.89		9/17/2020	H-154	9/8/2020			
29	9/22/2020	Replace Missing WML support rods in Aeration tank 1-4E/4W	\$ 4,869.75	Approved	5	\$ 4,869.75		\$ 4,869.75			9/23/2020					
31	9/22/2020	Test Soils for City Storage tent	\$ 1,525.86	Approved	5	\$ 1,525.86		\$ 1,525.86			9/23/2020					
20	8/21/2020	Cut Sumps in Aeration Tank Floors	\$ 37,083.78	Approved	6	\$ 37,083.78		\$ 37,083.78			10/5/2020					

Stamford WPCF Preliminary, Secondary and Disinfection Treatment Improvements
Change Order Summary

30	9/22/2020	Add Cable Tray and Bus Supports	\$ 57,017.98	Approved	6	\$ 57,017.98		\$ 57,017.98				12/2/2020						
33	10/2/2020	Replace Failing Straub Coupling (Existing)	\$ 5,513.98	Approved	6	\$ 5,513.98		\$ 5,513.98										
40	11/2/2020	Add Supports to Existing Pipe in Blower room	\$ 16,024.43	Approved	6	\$ 16,024.43		\$ 16,024.43			11/11/2020							
36	10/28/2020	Paint UV Steel Walkway at Basins 1 & 2 - Option 1	\$ 12,145.53	Approved	6	\$ 12,145.53		\$ 12,145.53			12/2/2020							
37 (rev)	12/8/2020	Trench Cover at Spare Parts Building	\$ 25,055.44	Approved	7	\$ 25,055.44		\$ 25,055.44			12/17/2020			H-03	10/5/2020			
41 (rev)	12/8/2020	Canopy Extension and Davit Crane	\$ 36,975.66	Approved	7	\$ 36,975.66		\$ 36,975.66			12/17/2020			H-05	10/22/2020			
42 (rev)	12/8/2020	Maintenance Access at UV Electrode Sensors	\$ 16,475.43	Approved	7	\$ 16,475.43		\$ 16,475.43			12/17/2020	RFI-159	8/4/2020					
44	12/22/2020	Electrical Power in Spare Parts Building	\$ 13,554.20	Approved	7	\$ 13,554.20		\$ 13,554.20			1/8/2021			H-04	10/22/2020			
43	1/11/2021	Relocate Fire Alarm Conduit Around Door 1010c	\$ 5,410.15	Approved	7	\$ 5,410.15	\$ 5,410.15				1/6/2021							
45	1/11/2021	Increase Conduit Size to CP-11	\$ 1,191.24	Approved	7	\$ 1,191.24	\$ 1,191.24				1/12/2021							
48	1/21/2021	Add Bearing Cooling Water Gfeed to Influent Pumps	\$ 16,267.28	Approved	8	\$ 16,267.28	\$ 16,267.28				3/1/2021							
49	1/29/2021	Unforeseen Below Grade Conditdions @ RSPS	\$ 19,244.40	Approved	8	\$ 19,244.40	\$ 19,244.40				3/1/2021							
46	4/8/2021	Demo Existing Embed at New Channel #3	\$ 5,163.56	Approved	9	\$ 5,163.56		\$ 5,163.56			5/2/2021							
50 (rev)	2/3/2021	(RFI-196) Heat Trace and Insulate 2" CW	\$ 4,734.43	Approved	9	\$ 4,734.43		\$ 4,734.43			5/26/2021							
52	3/15/2021	Control Mods to Ex. NRCY Pumps to Meet Code	\$ 2,924.08	Approved	9	\$ 2,924.08		\$ 2,924.08										
53	3/15/2021	Add EXP Motor to OH Door at RSPS	\$ 2,815.39	Approved	9	\$ 2,815.39	\$ 2,815.39											
54	3/15/2021	Relocate HVAC Duct to Install Pump VFDs	\$ 1,670.90	Approved	9	\$ 1,670.90	\$ 1,670.90											
55	4/8/2021	Assist in Opening Gate 5030	\$ 3,710.78	Approved	9	\$ 3,710.78		\$ 3,710.78			5/2/2021							
56	4/9/2021	Separate Power/Control on Existing Mixer and Pumps to Maintain Curent Code Complaiance	\$ 19,078.76	Approved	9	\$ 19,078.76		\$ 19,078.76										
57	4/9/2021	Add Missing Wiring to New Ammonia Air Blast Kits	\$ 9,299.78	Approved	9	\$ 9,299.78		\$ 9,299.78										
58	4/9/2021	Delete UPS's @ Blower LCPs	\$ (2,057.30)	Approved	9	\$ (2,057.30)		\$ (2,057.30)										
60	4/20/2021	Emergency repair Assistance - Failed Gate at Primary DBox	\$ 8,483.32	Approved	9	\$ 8,483.32	\$ 8,483.32											
61	4/30/2021	Handrail Around Opening at MWG for UV Channel #3	\$ 2,105.85	Approved	9	\$ 2,105.85		\$ 2,105.85			5/19/2021							

Stamford WPCF Preliminary, Secondary and Disinfection Treatment Improvements
Change Order Summary

92		Add Meltric Plugs AT NRCY Pumps	\$ 24,806.41	Approved	12	\$ 24,806.41		\$ 24,806.41									
		Credit for Remaining Unit Price Item 4C - Surface Spall Repair		Approved	12	\$ (15,107.00)			\$ (15,107.00)								
		Credit for Remaining Unit Price Item 5C - Formed Spall Repair		Approved	12	\$ (35,000.00)			\$ (35,000.00)								
		Additional Unit Price Item 6C - Type I Crack Repair		Approved	12	\$ 875.00			\$ 875.00								
		Credit for Remaining Unit Price Item 7C - Type II Crack Repair		Approved	12	\$ (3,750.00)			\$ (3,750.00)								
		Credit for Remaining Unit Price Item 8C - Type III Crack Repair		Approved	12	\$ (13,855.00)			\$ (13,855.00)								
		Credit for Remaining Unit Price Item 9C - Disposal of Polluted Soils		Approved	12	\$ (14,250.00)			\$ (14,250.00)								
		Credit for Remaining Unit Price Item 10C - Disposal of Contaminated Soils		Approved	12	\$ (21,750.00)			\$ (21,750.00)								
15	3/18/2020	Reroute roof drain from Screenings Building as required by the Stamford Building Department. Approved materials only. Labor to high so going T&M	\$ 6,912.20	Partial Approval	TBD	TBD	TBD				4/7/2020						W-01
23	4/24/2020	Replace Cables for Gates Not Shown on Contract Drawing	\$ 5,893.78	Revisions Required													
76	6/15/2021	Increase Influent Pump VFD and Cabling	\$ 132,196.26	Approved	12	\$ 132,196.26	\$ 132,196.26										
73	11/23/2021	Replace Primary D-Box Gates and Actuators	\$ 96,748.25	Approved	13	\$ 96,748.25	\$ 96,748.25						01	11/22/2021			
94	11/23/2021	Realign RSP 1,2 &3	\$ 4,067.19	Approved	13	\$ 4,067.19	\$ 4,067.19									37	9/27/2021
95	11/23/2021	Add light to CP-96	\$ 762.80	Approved	13	\$ 762.80	\$ -	\$ 762.80								26	12/15/2020
98	11/23/2021	Configure Hach Controller for WiFi Use	\$ 6,102.42	Approved	13	\$ 6,102.42	\$ -	\$ 6,102.42								31	4/20/2021
99	11/23/2021	Add Aeration Blower VDV Alarm	\$ 2,674.05	Approved	13	\$ 2,674.05	\$ -	\$ 2,674.05								51	
105	11/23/2021	Add Neoprene Pads on Roof	\$ 2,370.74	Approved	13	\$ 2,370.74	\$ 2,370.74				258					36	5/22/2021
106	11/23/2021	Provide Additional Roof Duct Supports	\$ 7,956.42	Approved	13	\$ 7,956.42	\$ 7,956.42				288					54	10/7/2021
107	11/23/2021	Change Pipe Colors in RSPS	\$ 1,762.00	Approved	13	\$ 1,762.00	\$ 1,762.00				289						
109	11/23/2021	SNEET Servoces Assist City	\$ 4,014.79	Approved	13	\$ 4,014.79	\$ 4,014.79										
79	11/23/2021	Force Main Repair and Slip Lining Assistance		Approved	14	\$ 1,302,438.55	\$ 1,302,438.55										
		Additional Work at Spare Parts Building Exterior Door		Pending													
97	10/1/2021	CP-11 Reprogramming for Washpress Operations	\$ 2,542.68	Approved	15	\$ 2,542.68	\$ 2,542.68				1/4/2022						

