



TECHNICAL COMMITTEE MEETING MINUTES

Wednesday, February 22, 2023

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
Robert Pudelka	Plant Supervisor, WPCA

1. Call to Order and Roll Call

M. Nesin called the meeting to order at 4:35PM and announced the attendees as listed above.

2. Approval of January 18, 2023 Meeting Minutes.

E. Kelly made a motion to approve the minutes of the January 19, 2023 Technical Committee Meeting; seconded by S. Bagwin. Motion carried 3-0-0.

3. Public Comments

None

4. Approval of Tighe and Bond's Scope of Services and Fee Schedule for an Evaluation and Basis of Design Report on the Upgrade of the Alvord Lane, Saddle Rock and Commerce Drive Pump Stations in an amount not to exceed \$168,900

A. Brown presented a proposal from Tighe & Bond for engineering services for RFQ #870 for Evaluation of the Alvord Lane, Commerce Road and Saddle Rock Road Pump Stations for an amount not to exceed \$167,758. The proposal is for field surveys and investigation of the three existing pump stations for a Basis of Design report. The Technical Committee agreed to recommend approval to the full Board which will be presented to the full Board when the proposed agreement has been prepared.

5. Update on attending the 2023 NEWEA Annual Conference & Exhibit

Bill Brink gave an overview of the conference indicating that the technical presentations were very good. Wright-Pierce and Hazen jointly presented the Stamford WPCA plant upgrades and force main repair. The New England Water Environment Association presented Bill Brink with the Alfred E. Peloquin Award for making a significant contribution to the wastewater field in such areas as improvements to the environment, cost effective plant operations, public relations, innovative process controls, training, Association contributions and related activities.

6. Discussion on Collection System

S. Pietrzyk provided a summary of the Monthly Pump Station and Collection Systems Activities, which is attached and made part of these minutes. Chairman Nesin pointed out that the report indicates ongoing

discussions with a property owner with an illegal sump pump connection to the sanitary sewer system. There was a brief discussion on quantifying the amount of water discharging to the system from illegal connections.

7. Discussion on Plant Operations

R. Pudelka reviewed the Monthly Operating Report and Equipment Update with the Committee, which is attached and made part of these minutes.

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. A. Brown indicated that the WPCA has reached an agreement with the Contractor for Greenwich Avenue Pump Station. WPCA has received the work products, such as the control panel, which we have paid the contractor for. We are terminating the contract and will rebid the project.

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 3-0-0. The meeting adjourned at 5:14PM.

Monthly Activities (01/18/23 to 02/20/23)

Collection and Pump Station Division

Overview of Pump Station and Gravity Collection Systems:

1. Pump station inspections for 23-sanitary sewer and 4-stormwater stations (120)
2. Pump station call-out activities (21)
3. Manhole Inspections (210)
4. Gravity line service calls investigated (10)
5. Private lateral investigations and repairs in City ROW (6)
6. Sewer line repair (1)
7. Manhole repair(s) (5)
8. CCTV sanitary sewer lines (1,916.86 LF)
9. Sewer line cleaning (1.37 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. Crews installed the new duck bill on pump #2's discharge line at Cummings Stormwater Pump Station.
5. Crews coordinated and worked with G.A. Fleet Associates regarding the new communications system at Cove Island.

Collection System:

1. Crew marked out public sanitary sewer line on Ocean Dr. East;
2. Crew jetted lines on Edice Rd., Market ST., Soundview Ave., Carter DR., Tupper DR., Vanbuskirk Ave., East Ave., Auldwood Rd., Lanark Rd.
3. Collection Systems Supervisor and crew further assisted the property owner(s) of 19 Carter Drive in identifying where the one (1) sump pump was connected illegally to their private sanitary sewer lateral. Discussed and outlined conceptual alternative discharge options for this sump pump and permitting procedures anticipated with the property owners. Property owners plan on discussing this issue with the City's Building and Engineering Department, as well as, their own legal counsel to review this illegal connection. Property owners recently purchased the home over the summer and are unaware of this discharge violation. It was agreed the property owners would follow-up within 30-days outlining their planned approach to disconnect this sump pump from their private sanitary sewer lateral.
4. Crews CCTV sewer lines on Carter DR., MH-4332 to Carter DR. Pump Station, and Tupper DR. Through these activities, crews identified areas within these line segments that should be rehabilitated to reduce and/or eliminate infiltration sources into the public sanitary sewer system.

Training:

1. Training two (2) new mechanics in training (MITs) on pump station and collection system work related activities and use of the 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 (12)
2. Re-review of building permit applications (49)
3. Sanitary sewer tie-in plan reviews (6)
4. Zoning permit application reviews (5)
5. Initial Food Service Establishment (FSEs) Inspections (26)
6. FSE Follow-up Inspections (6)
7. Notice of violations (NOVs) Issued (1)
8. CTDEEP General Permit plan reviews or applications (0)

Work performed by outside contractors:

1. Vitti Construction completed sewer line repair; West Washington Ave. and North ST.
2. Vitti Construction completed private lateral repair in City ROW; 61 Crane RD.
3. Vitti Construction completed private lateral repair in City ROW; 5 Custer ST.
4. Vitti Construction completed private lateral repair in City ROW; 359 Oaklawn Ave.
5. Vitti Construction completed private lateral repair in City ROW; 65 Broad ST.
6. Vitti Construction completed private lateral repair in City ROW; 377 Hope ST.
7. Vitti Construction completed private lateral outside clean-out repair in City ROW; 180 Knickerbocker Ave.
8. Vitti Construction completed 5 emergency manhole repairs; (3) Ocean Drive East, (1) 40 Auldwood Rd., (1) 14 Ocean Drive North.
9. Onevac traced and located damaged private lateral in City ROW for repair; 61 Crane RD.
10. Onevac traced and located damaged private lateral in City ROW for repair; 19 Glen Terrace.



FEBRUARY 2023 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	JANUARY Results			
	This month (JAN)	Last month (DEC)	Historical JAN Monthly AVG	Permit Limit
Q (FLOW) DAILY AVG MGD	16.3	14.9	17	24 MGD DESIGN AVG
Q PEAK FLOW RATE MGD	35.8	26.8	33.7	58 MGD MAX AVG
BOD INFLUENT AVG MG/L	216	237	206	
BOD INFLUENT AVG LBS/D	29,363	29,451		
BOD EFFLUENT AVG MG/L	3	3	5	
BOD EFFLUENT MAX MG/L	4	3		20 mg/L
BOD REMOVAL %	98.7	98.8	97.3	85%
TSS INFLUENT AVG MG/L	266	304	268	
TSS INFLUENT AVG LBS/D	36,161	37,777		
TSS EFFLUENT AVG MG/L	7	7	12	
TSS EFFLUENT MAX MG/L	10	8		20 MG/l
TSS REMOVAL %	97.3	97.6	94.7	85%
TOTAL N INFLUENT AVG MG/L	31.6	34.7	31.9	
TOTAL N INFLUENT AVG LBS/D	4296	4312	4456	
TOTAL N EFFLUENT AVG MG/L	2.61	2.90	3.74	
TOTAL N EFFLUENT LBS/D	355	351	559	926 LBS/D
N REMOVAL %	91.7	91.6	87.1	
TOTAL P INFLUENT AVG MG/L	3.74	4.25	4.5	
TOTAL P EFFLUENT AVG MG/L	0.22 *	0.22 *	0.68	
P REMOVAL %	94.1	94.8	84.8	
UV EXCEEDANCES <30 mJ/cm2	0	1		

* Tied or surpassed best historical performances for the month *

Plant Equipment Update

Clarifier #3 Scum Trough
Solids Processing Doors
Thickener #1 Drive
RAS #5 VFD
Primary Pump #2
Filtrate Pump #3
Tiger Pump #2

Actuator arm bracket fabricated & rewelded
21 doors required repair/replacement of door closures
Replace motor starter and overloads
VFD replaced by Flowtech
Replaced belts
Leppert Nutmeg for evaluation - not cost effective to repair, replace w new
Volute and impeller worn, replace pump with new



**UPDATE OF CAPITAL PROJECTS
TECHNICAL COMMITTEE MEETING
February 21, 2023**

UPDATE ON ENGINEERING STUDIES AND DESIGNS:

- 1. Infiltration Inflow Study**
Recommendation for award to National Water Main Cleaning Co. has been sent. Contractor submitting insurance, bonds, etc. Notice to proceed to be sent.
- 2. Sludge Management Plan**
The scheduled visit to the plant in Camden NJ will be rescheduled. Camden has anaerobic digestion process for sludge which is an option for sludge management.
- 3. Plant Water, Return Activated Sludge (RAS) and Waste Activated Sludge (WAS)**
Gannett Fleming is working on the Basis of Design which should be submitted by the end of the month.
- 4. RFQ for Evaluation of the Alvord Lane, Commerce Rd and Saddle Rock Pump Stations**
Tighe and Bonds scope of services and fee schedule was submitted for approval. It is on the agenda for the February meeting. Once approved, they will begin working on the Basis of Design report for each pump station.
- 5. RFP for the Design and Supply of a Standby Generator at Clay Hill Pump Station**
Submitting a revised technical specification to purchasing to advertise for bids.
- 6. Perna Lane, Phase I Collection Sewers**
Held the public information meeting with the residents. After the meeting, Steve and I met with the property owner at the corner of High Ridge Road and Perna Lane. While they are not in favor of the project, they indicated a willingness to give an easement for the pump station in this area. I will work with the law department to acquire this easement while the designers move forward with the sewer system and pump station design.
- 7. RFP for Architectural Services for New Building for Collection System Staff and SWPCF Existing Locker Room Renovations**
Working on the RFP for architectural services to design a small building for the collection system staff and the electricians - 12 employees. This building will include offices and a small locker room with showers. We rejected all bids for the existing locker room renovations at the administration building due to the high costs in the proposals. The existing locker room renovations will be included in this RFP so we may get more competitive pricing.
- 8. Structural Evaluation of the Columns in the Sludge Dewatering Building**
Received the report and design drawings for the repair of the columns. Preparing bid documents for the repair.



UPDATE ON CONSTRUCTION PROJECTS:

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

WPCA, through the City's legal department, has notified the Contractor that WPCA is terminating the Agreement for the stand-by generator. We have asked them to provide to WPCA any documents, engineering plans, technical specifications, and building materials acquired in connection with the project. WE are awaiting a response from the contractor.

2. Preliminary, Secondary and Disinfection Treatment Improvements

Proceeding with closeout of the project.

3. Electrical Preventive Maintenance / Arc Flash

Siemens has sent additional information to Tighe & Bond which is under review.

4. Sludge Degritting System Upgrade

The contractor is preparing submittals for approval. We expect construction to begin in April.

Change Order Log as of 12-14-22

Copy of Change Order log for construction projects is attached. No changes.

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

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

Total Approved CO Amount = \$ 3,703,000.43

Contract Sum to Date = \$ 30,454,500.43

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	PCO						RFI		RFP		WCD	
					Included in CO#	Total Approved Amount	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 Conditions @ 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

62	5/10/2021	(RFI-157A) Grating Grounding at UV Basins	\$ 5,492.86	Approved	9	\$ 5,492.86		\$ 5,492.86	5/11/2021	157A						
64 (rev)	5/12/2021	(RFI-126) Accessibility of UV Transmittance Sensor	\$ 9,493.96	Approved	9	\$ 9,493.96		\$ 9,493.96	5/13/2021	126						
65	5/12/2021	Sawcut Overhand in Stairs in RSPS	\$ 900.43	Approved	9	\$ 900.43	\$ 900.43									
66	5/12/2021	Rework Removable Railings at AT Mixers	\$ -	Approved	9	\$ -	\$ -									
67	5/12/2021	Add Supports @ Influent Channel for Aluminum Plating	\$ 5,315.63	Approved	9	\$ 5,315.63	\$ 5,315.63									
68	5/12/2021	Notch Framing around new influent pump shafts @ 5 Locations	\$ 1,009.50	Approved	9	\$ 1,009.50	\$ 1,009.50									
70	5/17/2021	(WCD-H-03) Encase Electrical and Hydraulic Conduit in Basin #2 (T&M)	\$ 23,166.63	Approved	9	\$ 23,166.63		\$ 23,166.63							H-03	
71	5/21/2021	Provide 7 MGD Clean Recirculated Flow at UV Basin #2	\$ 4,372.78	Approved	9	\$ 4,372.78		\$ 4,372.78	5/26/2021							
72 (rev)	5/21/2021	(RFI-222-H) Basin 2, Channel 3 Existing Wall Inconsistencies	\$ 8,436.33	Approved	9	\$ 8,436.33		\$ 8,436.33	6/6/2021	222						
74	5/28/2021	(RFI-167) Repair to Existing Concrete Beam at UV Effluent PS	\$ 42,048.45	Approved	9	\$ 42,048.45		\$ 42,048.45	6/6/2021	167						
63 (rev)	7/15/2021	Investigate/Repair Failed 42" Force Main	\$ 209,722.28	Approved	10	\$ 209,722.28	\$ 209,722.28									
69 (rev)	7/15/2021	Install Temporary 24" HDPE Force Mains & Manifold	\$ 367,747.46	Approved	10	\$ 367,747.46	\$ 367,747.46									
59	4/16/2021	Add Current Transformers to Blowers to Accept signal and monitoring of Amperage	\$ 24,700.84	Approved	11	\$ 24,700.84		\$ 24,700.84	6/10/2021	237						
75	6/9/2021	Replace Mixer Meltic Connector to Match New Mixers	\$ 7,330.29	Approved	11	\$ 7,330.29		\$ 7,330.29	6/10/2021							
77	7/12/2021	Re-align Pumps 4 and 5 per GA Fleets Recommendation	\$ 2,924.56	Approved	11	\$ 2,924.56	\$ 2,924.56									
78	7/15/2021	Bypass Force Main Rental/Ops Costs 4/21/21 through 6/18/21	\$ 136,711.13	Approved	11	\$ 136,711.13	\$ 136,711.13		8/11/2021							
80	7/29/2021	Paint Existing Bridge Crane runway beams and crane rail at UV Basin #2	\$ 8,221.33	Approved	11	\$ 8,221.33		\$ 8,221.33	7/29/2020			6	7/22/2021			
81	8/13/2021	Radar Level Sensor	\$ 2,407.75	Approved	12	\$ 2,407.75		\$ 2,407.75	8/18/2021						H-04	6/10/2021
83	8/13/2021	Delete Blower Room Floor Painting	\$ (12,915.20)	Approved	12	\$ (12,915.20)		\$ (12,915.20)	8/25/2021							
84	8/18/2021	WCD-05-H UV PLC Programming Modifications - Add channel out of Service Status	\$ 7,691.61	Approved	12	\$ 7,691.61		\$ 7,691.61	8/24/2021						H-05	7/14/2021
85	8/24/2021	(RFI-256) Protection around Fixed Ultrasonic Sensors at UV	\$ 3,053.06	Approved	12	\$ 3,053.06		\$ 3,053.06	9/3/2021	256	7/8/2021					
89	8/27/2021	Add WiFi to Aeration Tank Instruments	\$ 15,421.01	Approved	12	\$ 15,421.01		\$ 15,421.01	8/30/2021							
90	8/27/2021	Replace Existing Plastic JBs on Aeration	\$ 10,997.74	Approved	12	\$ 10,997.74		\$ 10,997.74								

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						

