



## TECHNICAL COMMITTEE MEETING MINUTES

Wednesday, May 11, 2022

4:30PM

Via VIDEO/TELECONFERENCE

### Attendees:

Edward Kelly  
Steve Bagwin  
William Brink, PE  
Ann Brown, P.E.  
Robert Pudelka

Acting Chairman, Committee Member  
Committee Member  
Executive Director, WPCA  
Supervising Engineer, WPCA  
Plant Supervisor, WPCA

### 1. Call to Order and Roll Call

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

### 2. Approval of April 13, 2022 Meeting Minutes

E. Kelly made a motion to approve the minutes of the April 13, 2022 Technical Committee Meeting; seconded by S. Bagwin. Motion carried 2-0-0.

### 3. Public Comments

None

### 4. Update on Reimbursement from Starr Specialty Lines Insurance Agency for the Dryer Explosion Claim

A. Brown indicated that the WPCA had issued purchase orders and paid invoices for a total of \$4,509,496.29 for the repair of the dryer building which was damaged from the explosion. The insurance company has approved reimbursements for this work in the amount of \$4,387,552.17. The difference in what was expended verses reimbursed is \$121,944.12. There is a deductible of \$100,000. The remaining \$21,944.12 was denied by the insurance company because it was related to Covid delays and not the explosion.

### 5. Approval of Bid Waiver for the Purchase of an EBARA Submersible Axial Flow Pump for an Amount Not to Exceed \$90,502.00

A. Brown explained that we are requesting approval for a Bid waiver to purchase a new Ebara pump for the plant. The plant has positions for 8 of pumps. The Ebara pumps are for nitrate recycle. We would like to purchase the same pump so we are able to easily replace one with a spare when it is out of service. The quote is for the amount of \$90,502.00. We ordered two Ebara pumps in the spring of 2021 which are scheduled for delivery in the next few weeks. The quote for the two pumps ordered in 2021 was \$73,131.00 each. E. Kelly made a motion to recommend approval of the bid waiver to the full board; seconded by S. Bagwin.

### 6. Update on the Proposed Animal Shelter at WPCF

A. Brown explained that the funding for the animal shelter was approved. She spoke to the Engineering department and they said they were moving ahead with a RFP for the design. They are proceeding with the animal shelter on the footprint within the WPCF which was presented at previous meetings.

**7. Discussion and Vote on the Agreement with Gannett Fleming for the Study and Report Phase of the Design of the Plant Water System and the RAS/WAS Pumping Systems for an Amount Not To Exceed \$49,000.00**

W. Brink explained that the Agreement was a full service agreement for the project and this approval is for the first step which is the study and report phase of the project. We met with Gannett Fleming to discuss the scope of the project. We are asking for approval to proceed with signing the Agreement for the Study and Report Phase for an amount not to exceed \$49,000. The form of agreement is the same we have used before. Once approved and fully executed, GF can begin work on the project.

**8. Discussion on Plant Operations**

R. Pudelka provided a summary of plant operations for May 2022. He reviewed the Monthly Operating Report and Equipment Update with the Committee which is attached and made part of these minutes.

**9. Update on Engineering Studies and Designs**

A. Brown provided the committee with an update on engineering studies and designs which is attached and made part of these minutes.

- 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 Design

**10. Update on Construction Projects**

A. Brown provided the board with an update on 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

**11. Old Business**

**12. New Business**

There being no further issues to discuss, S. Bagwin made a motion to adjourn the meeting, seconded by E. Kelly; motion carried 2-0-0. The meeting was adjourned at 5:02 PM.



## MAY 2022 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	April Results			Permit Limit
	This month (Apr)	Last month (Mar)	10 Year APRIL Monthly AVG	
Q (FLOW) DAILY AVG MGD	18.3	15.8	18.1	24 MGD DESIGN AVG
Q PEAK MGD	30.8	25.6	44.3	58 MGD MAX AVG
BOD INFLUENT AVG MG/L	231	252	188	
BOD INFLUENT AVG LBS/D	35,256	33,207		
BOD EFFLUENT AVG MG/L	2 *	3	3	
BOD EFFLUENT MAX MG/L	3	6		20 mg/L
BOD REMOVAL %	99 *	98.9	98.4	85%
TSS INFLUENT AVG MG/L	357	308	274	
TSS INFLUENT AVG LBS/D	54,486	40,585		
TSS EFFLUENT AVG MG/L	4 *	6	6	
TSS EFFLUENT MAX MG/L	6	18		20 MG/l
TSS REMOVAL %	98.5	98	97.8	85%
TOTAL N INFLUENT AVG MG/L	27.8	30.2	31.2	
TOTAL N INFLUENT AVG LBS/D	4243	3980	4452	
TOTAL N EFFLUENT AVG MG/L	1.36 *	1.64	2.43	
TOTAL N EFFLUENT LBS/D	208 *	216	343	926 LBS/D
N REMOVAL %	95.1 *	94.6	92.4	
TOTAL P INFLUENT AVG MG/L	4.25	3.98	3.93	
TOTAL P EFFLUENT AVG MG/L	0.37	0.27	0.56	
P REMOVAL %	91.3	93.2	85.2	
UV EXCEEDANCES <30 mJ/cm2	0	0		

\*\*\* Best Performances for month's of April\*\*\*

### Equipment Update

NRCY Pumps

One pumps out at REM - no change, waiting on parts.

BANANA MIXER

Control Panel installation complete

BFP #2

Replaced both drive rollers and gearboxes, put back into service.

BFP #3

OOS - 3 Roller shafts snapped in two months, Andritz consulted.

BFP #1

Replaced panelview HMI screen.

#2 RAS Line Leak

18" chlorine injection fitting needs replacement, material on order

Nickerson to perform pipe work in two weeks.

#2 RAS Pump Shafts

OOS - Shafts bowed, out for repair.

GBT #1

TWAS Pump replaced with new



**UPDATE OF CAPITAL PROJECTS  
TECHNICAL COMMITTEE MEETING  
May 11, 2022**

**1. UPDATE ON ENGINEERING STUDIES AND DESIGNS**

**a. Infiltration Inflow Study**

No change to this item. CDM Smith is working on the design of the sewer rehabilitation in subareas F1-1 and B1-3. The sewer rehabilitation is expected to be performed in FY 22-23.

**b. Sludge Management Plan**

No change to this item. We would also like to schedule site visits to the two gasification projects recently put online. We can schedule a site visit when they have been operating a few months.

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

We reviewed the contract and fee schedule for the study and report phase with Gannett Fleming for an amount not to exceed \$49,000. This is an item on the agenda for the Technical Committee meeting. Once the agreement is signed, GF will begin the study and report phase.

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

WPCA is requesting qualifications from engineers to evaluate these three stations. There has been a lot of interest from firms. We have taken firms on site visits and there have been a lot of questions. We will be extending the date qualifications are due into June so we can answer questions and firms have time to prepare.

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

WPCA is working on a request for bids to size and supply the generator. We are also making sure that we have the need permits prior to bidding.

**f. Perna Lane**

We met with the Tighe & Bond to review the report and alternates presented in the report. We discussed keeping the gravity sewer on High Ridge Road as shallow as possible. We looked at locations for three pump stations. We need to reach out to the owners of the proposed lots to discuss easements. We would size the pump stations for all three phases and install pumps sized for Phase 1 needs. The pumps can be changed out when the flow increases as other phases come online. The CTDOT is underway with a bridge replacement project just north of the Merritt Parkway. We asked them to install piping on the bridge sized for the Perna Lane project that can be used in the future. Then, we will not have to deal with the bridge crossing and permits needed for crossing the stream when the Perna Lane project is built. Also, CTDOT has included paving of High Ridge Road from the Merritt Parkway to Interlaken Road as part of their 2022 paving project. We met with DOT to discuss the Perna Lane project and the possibility of WPCA digging up the newly paved roadway in the future. CTDOT indicated that they are moving ahead with paving this area.



## 2. UPDATE ON CONSTRUCTION PROJECTS

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

We spoke to Eversource to discuss raising the transformer above the flood plain as requested by Engineering. Eversource owns the transformer but, WPCA would have to make and pay for any changes. It is still uncertain whether or not this needs to be done. Once we clarify this, we can advise the Contractor to proceed.

### b. Preliminary, Secondary and Disinfection Treatment Improvements

We approved additional supports to be installed at the catwalk beams as the first measure to mitigate the shaft vibrations. The material for this work is expected to be delivered the last week of May. Nickerson will schedule the work shortly after it is here. The punchlist, cleanup and site restoration needs to be completed.

### c. Electrical Preventive Maintenance / Arc Flash

Siemens has completed electrical preventive maintenance portion of the project. They need to return for one day to acquire information from the control panels in the Synagro part of the sludge dryer building. They have asked to schedule this work in June. We will coordinate with Synagro and will take place on a Saturday.

### d. Sludge Degritting System Upgrade

No change to this item. We received two bids for this project in March. Both bids were over \$10M which exceeded our budget. Our original budget was \$4.4M and we requested an increase of \$1.2M when we added replacing the skimmer arm unit to the bid documents. The latest Engineer's estimate is \$6.3M. We have asked the Engineers to perform Value Engineering to identify options that may reduce the cost of the project.

### Change Order Log as of 4-13-22

Copy of Change Order log for construction projects is attached. We anticipate one more change order to cover the pump shaft supports and the work needed to address the city electrical inspector comments.

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

Original Value of Contract =	\$ 26,751,500.00
Total Approved CO Amount =	\$ 3,619,443.37
Contract Sum to Date =	\$ 30,373,991.22
Percent of total project =	13.5%

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

CWH PCCOR No.	CWH PCCOR Date	Description	Contractor Amount	Status	Included in COW	Total Approved Amount	Approved to Preliminary	Approved to Secondary	Approved to UV	RFI		RFP		WCO
										No.	Date Issued	No.	Date Issued	
NA	NA	Replace the issue for Backing Speculation Sections 00530 - Approval and 00500 - Supplementary Conditions with the Attached Specifications	\$ -	Approved	1	\$ -			5/19/2019					
01 (rev)	5/21/2019	Programming Service 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 PUMP Support Framing & Piping at UV Basin 1 Outlet	\$ 35,257.23	Approved	3	\$ 35,257.23			\$ 35,257.23	2/27/2020	H-01	11/10/2019		
03 (rev)	10/25/2020	Change to Moment Connection at UV Canopy	\$ 4,078.36	Approved	3	\$ 4,078.36			\$ 4,078.36	12/12/2019	H-01			
05	11/18/2019	UV Fixtures	\$ 2,689.48	Approved	3	\$ 2,689.48			\$ 2,689.48	11/19/2019				
06	1/29/2020	Remove and Reinstall drain piping and electrical conduits in Blowroom to install new fire rated wall. Please call for test work.	\$ 29,473.69	Approved	3	\$ 29,473.69			\$ 29,473.69	4/7/2020				W-06 11/20/2019
11	2/1/2020	Add spot pipe to Septage Area	\$ 1,214.64	Approved	3	\$ 1,214.64	\$ 1,214.64			3/27/2020				W-03 11/20/2019
13	3/6/2020	Additional Rubber 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 Rehabilitation	\$ 23,740.56	Approved	3	\$ 23,740.56			\$ 23,740.56	4/9/2020	H-095			
14	3/16/2020	Relocate Generator and Mobile Bridge Crane per Building Department Request	\$ 83,080.40	Approved	4	\$ 83,080.40			\$ 83,080.40	8/10/2020				
18	5/19/2020	Replace Missing Hardware @ AT Bldgs	\$ 5,082.33	Approved	4	\$ 5,082.33			\$ 5,082.33	8/19/2020				
19	7/14/2020	Provide Additional Tank Clean Licensing & Integrate Existing Meters per City Request	\$ 23,819.32	Approved	4	\$ 23,819.32			\$ 19,287.40					
16	4/12/2020	Credit for Redundant Breaker @ ATS	\$ (17,296.74)	Approved	5	\$ (17,296.74)			\$ (17,296.74)	8/25/2020				
21	8/7/2020	Add External Breaker for RSP-2	\$ 9,061.48	Approved	5	\$ 9,061.48	\$ 9,061.48			8/25/2020				
24	8/26/2020	Additional Teigs for The GE Horizontal	\$ 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-102	9/2/2020		
27	9/15/2020	Install Missing Wiring to AIX 60-8 & 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	9/9/2020		
29	9/22/2020	Replace Missing WML support rods in Aeration Unit 1-4E/4F	\$ 4,869.75	Approved	5	\$ 4,869.75			\$ 4,869.75	9/23/2020				
31	9/22/2020	Test Sds for Coy Storage tent	\$ 1,525.66	Approved	5	\$ 1,525.66			\$ 1,525.66	9/23/2020				
20	8/21/2020	Cut Sump in Aeration Tank Floors	\$ 37,083.76	Approved	6	\$ 37,083.76			\$ 37,083.76	10/5/2020				

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

30	9/23/2020	Add Cable Tray and Bus Supports	\$ 57,017.98	Approved	6	\$ 57,017.98	\$ 57,017.98		19/2/2020
33	10/2/2020	Replace Failing Struth Coupling (Estrang)	\$ 5,513.90	Approved	6	\$ 5,513.90	\$ 5,513.90		
40	11/2/2020	Add Supports to Existing Pipe in Blower room	\$ 18,024.43	Approved	6	\$ 18,024.43	\$ 18,024.43	1/11/2020	
36	10/29/2020	Paint UV Steel Walkway at Basins 1 & 2 - Option 1	\$ 12,145.53	Approved	6	\$ 12,145.53	\$ 12,145.53	9/22/2020	
37 (rev)	12/8/2020	Trench Cover at Spare Parts Building	\$ 25,058.44	Approved	7	\$ 25,058.44	\$ 25,058.44	12/17/2020	H-03 10/5/2020
41 (rev)	12/9/2020	Canopy Extension and Drive Crane	\$ 30,975.66	Approved	7	\$ 30,975.66	\$ 30,975.66	12/17/2020	H-05 10/22/2020
42 (rev)	12/8/2020	Maintenance Access at UV Electrode Sensors	\$ 18,478.43	Approved	7	\$ 18,478.43	\$ 18,478.43	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 Control Around Door 1010c	\$ 5,410.15	Approved	7	\$ 5,410.15	\$ 5,410.15	1/8/2021	
45	1/11/2021	Increase Control Size to CP-11	\$ 1,191.24	Approved	7	\$ 1,191.24	\$ 1,191.24	1/12/2021	
48	1/1/2021	Add Bearing Cooling Water Cleared to Inbasest Pumps	\$ 19,267.28	Approved	8	\$ 19,267.28	\$ 19,267.28	3/1/2021	
49	1/29/2021	Unblock Below Grade Condensate @ RSPS	\$ 19,244.48	Approved	8	\$ 19,244.48	\$ 19,244.48	3/1/2021	
46	4/9/2021	Demol Existing Embed at New Channel a3	\$ 5,183.58	Approved	8	\$ 5,183.58	\$ 5,183.58	5/2/2021	
50 (rev)	2/3/2021	(RFI:108) Heat Traces and Insulate 2" CW	\$ 4,734.43	Approved	9	\$ 4,734.43	\$ 4,734.43	5/28/2021	
52	3/15/2021	Control Made to Ex. NRCY Pumps to Meet Code	\$ 2,824.08	Approved	9	\$ 2,824.08	\$ 2,824.08		
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	\$ 1,878.90	Approved	9	\$ 1,878.90	\$ 1,878.90		
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 Motor and Pumps to Maintain Current Code Compliance	\$ 19,078.76	Approved	9	\$ 19,078.76	\$ 19,078.76		
57	4/9/2021	Add Missing Wiring to New Ammonia Air Blast Kels	\$ 9,299.78	Approved	9	\$ 9,299.78	\$ 9,299.78		
58	4/9/2021	Double UPS's @ Blower LCP's	\$ (2,057.30)	Approved	9	\$ (2,057.30)	\$ (2,057.30)		
60	4/20/2021	Emergency Repair Assistance - Failed Gate at Primary DBs	\$ 8,483.32	Approved	9	\$ 8,483.32	\$ 8,483.32		
61	4/20/2021	Handled Around Opening at MHG for UV Channel P3	\$ 2,105.85	Approved	9	\$ 2,105.85	\$ 2,105.85	5/18/2021	

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

62	5/12/2021	(RFI-157A) Grating Grounding at UV Basins	\$ 5,492.86	Approved	0	\$ 5,492.86	\$ 5,492.86	5/11/2021	157A
64 (rev)	5/12/2021	(RFI-156) Accessibility of UV Transmittance Sensor	\$ 9,483.96	Approved	0	\$ 9,483.96	\$ 9,483.96	5/12/2021	126
65	5/12/2021	Sawcut Overhead in Slabs in RSPS	\$ 900.43	Approved	0	\$ 900.43	\$ 900.43		
66	5/12/2021	Revisit Removable Railings at AT Masters	\$ -	Approved	0	\$ -	\$ -		
67	5/12/2021	Add Supports @ Inlet Channel for Aluminum Framing	\$ 5,315.63	Approved	0	\$ 5,315.63	\$ 5,315.63		
68	5/12/2021	Notch Framing around new influent pump shafts @ 1 Locations	\$ 1,009.50	Approved	0	\$ 1,009.50	\$ 1,009.50		
70	5/17/2021	(WCD-1402) Excess Electrical and Hydraulic Conduit in Basin #2 (T&U)	\$ 23,166.63	Approved	0	\$ 23,166.63	\$ 23,166.63		H-80
71	5/21/2021	Provide 7 LIQD Clean Recirculated Flow at UV Basin #2	\$ 4,372.78	Approved	0	\$ 4,372.78	\$ 4,372.78	5/29/2021	
72 (rev)	5/21/2021	(RFI-222-19) Basin #2 Channel 3 Existing VIM Inconsistencies	\$ 8,436.33	Approved	0	\$ 8,436.33	\$ 8,436.33	6/8/2021	222
74	5/28/2021	(RFI-187) Repair to Existing Concrete Basin at UV Effluent PS	\$ 42,048.45	Approved	0	\$ 42,048.45	\$ 42,048.45	6/8/2021	187
63 (rev)	7/15/2021	Investigate/Repair Failed 42" Force Main	\$ 208,722.28	Approved	10	\$ 208,722.28	\$ 208,722.28		
69 (rev)	7/15/2021	Install Temporary 24" HDPE Force Mains & Manifold	\$ 387,747.48	Approved	10	\$ 387,747.48	\$ 387,747.48		
59	4/18/2021	Add Current Transformers to Blowers to Accept Digital and monitoring at Arpa/ajg	\$ 24,700.84	Approved	11	\$ 24,700.84	\$ 24,700.84	8/10/2021	237
75	6/9/2021	Replace Meter Metric Connector to Match New Meter	\$ 7,309.29	Approved	11	\$ 7,309.29	\$ 7,309.29	8/19/2021	
77	7/12/2021	Re-align Pumps 4 and 5 per GA Flows Recommendation	\$ 2,824.56	Approved	11	\$ 2,824.56	\$ 2,824.56		
78	7/15/2021	Bypass Force Main Renewal/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 Crosses runway beams and crane rail at UV Basin #2	\$ 8,221.33	Approved	11	\$ 8,221.33	\$ 8,221.33	7/29/2020	6 7/29/2021
81	8/13/2021	Radix Level Sensor	\$ 2,407.75	Approved	12	\$ 2,407.75	\$ 2,407.75	8/18/2021	H-04 8/10/2021
63	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-68-H-UV PLC Programming Modifications - Add channel out of Service Status	\$ 7,691.81	Approved	12	\$ 7,691.81	\$ 7,691.81	8/24/2021	H-05 7/14/2021
85	8/24/2021	(RFI-256) Protection around Fixed Ultrasonic Sensors at UV	\$ 3,653.06	Approved	12	\$ 3,653.06	\$ 3,653.06	8/30/2021	256 7/8/2021
89	8/27/2021	Add WFT to Aeration Tank Instruments	\$ 15,421.81	Approved	12	\$ 15,421.81	\$ 15,421.81	8/30/2021	
90	8/27/2021	Replace Existing Plastic JBs on Aeration	\$ 18,997.74	Approved	12	\$ 18,997.74	\$ 18,997.74		



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

72		Add Meter Plugs AT HPCV Pumps	\$ 24,808.41	Approved	12	\$ 24,808.41	\$ 24,808.41		
		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 Polished Stone		Approved	12	\$ (14,250.00)	\$ (14,250.00)		
		Credit for Remaining Unit Price Item 10C - Disposal of Contaminated Soil		Approved	12	\$ (21,750.00)	\$ (21,750.00)		
15	3/18/2020	Remove steel skin from Screenage Building as required by the Standard Building Department. Approved materials only. Labor to high as going T&E	\$ 6,912.20	Final Approval	TBD	TBD	TBD	4/7/2020	W #1
23	4/24/2020	Replace Cables for Gates Not Shown on Contract Drawing	\$ 5,807.79	Revisions Required					
76	6/15/2021	Increase Influent Pump VFD and Cabling	\$ 132,194.26	Approved	12	\$ 132,194.26	\$ 132,194.26		
73	11/23/2021	Replace Primary D-Box Gates and Actuators	\$ 98,748.25	Approved	13	\$ 98,748.25	\$ 98,748.25		01 11/22/2021
84	11/23/2021	Reassign RSP 1,2 & 3	\$ 4,067.19	Approved	13	\$ 4,067.19	\$ 4,067.19		01 11/22/2021
95	11/23/2021	Add light to CP-06	\$ 762.80	Approved	13	\$ 762.80	\$ 762.80		01 11/22/2021
98	11/23/2021	Configure Huch Controller for WHF Use	\$ 6,102.42	Approved	13	\$ 6,102.42	\$ 6,102.42		01 11/22/2021
99	11/23/2021	Add Alarmton Blower VDV Alarm	\$ 2,674.05	Approved	13	\$ 2,674.05	\$ 2,674.05		01 11/22/2021
105	11/23/2021	Add Neoprene Pads on Floor	\$ 2,370.74	Approved	13	\$ 2,370.74	\$ 2,370.74		01 11/22/2021
106	11/23/2021	Provide Additional Roof Duct Supports	\$ 7,958.42	Approved	13	\$ 7,958.42	\$ 7,958.42		01 11/22/2021
107	11/23/2021	Change Pipe Caten in RSPS	\$ 1,762.00	Approved	13	\$ 1,762.00	\$ 1,762.00		01 11/22/2021
109	11/23/2021	SHEET SERVICES Assess Cdy	\$ 4,014.79	Approved	13	\$ 4,014.79	\$ 4,014.79		01 11/22/2021
79	11/23/2021	Force Main Repair and Slip Lining Assistance	\$ 1,302,439.55	Approved	14	\$ 1,302,439.55	\$ 1,302,439.55		01 11/22/2021
		Additional Work at Spare Parts Building Exterior Door		Pending					
87	10/1/2021	CP-11 Reprogramming for Wastewater Operations	\$ 2,542.68	Approved	15	\$ 2,542.68	\$ 2,542.68		01 11/22/2021

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

110	12/10/2021	RSFS Building Additional Painting	\$ 12,000.00	Approved	15	\$ 12,000.00	\$ 12,000.00	1/1/2022	3	12/2/2021				
111	12/10/2021	Power Feed to Lab room OH Door	\$ 6,141.48	Approved	15	\$ 6,141.48	\$ 6,141.48	1/1/2022			57			
112	12/17/2021	Power Feed for Instruct Gas Fired Furnace	\$ 1,574.98	Approved	15	\$ 1,574.98	\$ 1,574.98	1/1/2022			62			
115	12/22/2021	Test and Replace Existing Gas Piping RSPS	\$ 10,802.15	Approved	15	\$ 10,802.15	\$ 10,802.15	1/1/2022			58			
116	12/22/2021	Install and Wire Exterior Position Station for OH Door 101A	\$ 771.44	Approved	15	\$ 771.44	\$ 771.44	1/1/2022			60			
117	1/3/2022	Programming Changes to Sequencing of Aeration Blower	\$ 1,557.39	Approved	15	\$ 1,557.39	\$ 1,557.39	1/1/2022			81			
118	1/6/2022	Remove NRCY Pump Temp Cabling	\$ 1,475.87	Approved	15	\$ 1,475.87	\$ 1,475.87	1/1/2022			59			
121	1/12/2022	Furnish and install Horn and Sirens	\$ 5,407.73	Approved	15	\$ 5,407.73	\$ 5,407.73	1/11/2022			83			
122	1/10/2022	Integrate Fire Alarm Duct Smoke Sensors to Existing FACP	\$ 8,902.80	Approved	15	\$ 8,902.80	\$ 8,902.80	1/11/2022			63			
123	1/14/2022	Misc SIA Duct Modifications at Screenings/RSPS	\$ 8,848.53	Approved	15	\$ 8,848.53	\$ 8,848.53	1/11/2022			56			
124	1/20/2022	Configure Hach Controller for WFI Use	\$ 2,907.85	Approved	15	\$ 2,907.85	\$ 2,907.85	1/25/2022						
125	1/26/2022	Explosion Proof Horn all	\$ 1,244.85	Approved	15	\$ 1,244.85	\$ 1,244.85							
3/1/2022		Balance in Contract Item Quotables - Secondary Treatment Upgrade	\$ 6,378.78	Approved	16	\$ 6,378.78	\$ 6,378.78	3/1/2022						
3/1/2022		Balance in Contract Item Quotables - Preliminary Treatment Upgrade	\$ 341,782.51	Approved	18	\$ 341,782.51	\$ 341,782.51	3/1/2022						
8/	1/22/2021	Demo Core Base in RSPS	\$ 5,553.44	Approved	18	\$ 5,553.44	\$ 5,553.44	3/1/2022			42			
8/	9/21/2021	Add Wiring and Electrical Infrastructure for Mech Bar Screen Controls	\$ 14,318.56	Approved	18	\$ 14,318.56	\$ 14,318.56	3/1/2022	245	4/9/2021				
126	2/2/2022	Lightning Protection Repairs	\$ 5,455.18	Approved	18	\$ 5,455.18	\$ 5,455.18	2/22/2022						
127	2/24/2022	OH Door Wiring Credit	\$ (1,853.67)	Approved	18	\$ (1,853.67)	\$ (1,853.67)	3/1/2022			57			
128	3/1/2022	ATC #1 Wiring Revisions	\$ 6,501.36	Approved	18	\$ 6,501.36	\$ 6,501.36	3/1/2022			65			
129	3/1/2022	Power Feed to Low Flow Switch at Odor Control	\$ 2,942.80	Approved	18	\$ 2,942.80	\$ 2,942.80	3/1/2022						
130	3/1/2022	Relocate Gas Detection Panel	\$ -	Approved	18	\$ -	\$ -				64			
										Total	\$ 3,819,443.17	\$ 2,822,481.43	\$ 481,287.57	\$ 300,363.25