

# TECHNICAL COMMITTEE MEETING MINUTES Wednesday, April 12, 2023 4:30PM

#### Via VIDEO/TELECOFERENCE

#### Attendees:

Merritt Nesin Chairman, Technical Committee

Ed 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

Steve Pietrzyk Collection System Supervisor, WPCA

Brian Teitelbaum Stamford Resident

1. **Call to Order and Roll Call –** M. Nesin called the meeting to order at 4:30PM and announced the attendees as listed above.

**Approval of February 15, 2023 and March 15, 2023 Meeting Minutes** - E. Kelly made a motion to approve the minutes of the February 15, 2023 Technical Committee Meeting; seconded by S. Bagwin. Motion carried 3-0-0. S. Bagwin made a motion to approve the minutes of the March 15, 2023 Technical Committee Meeting; seconded by M. Nesin. Motion carried 2-0-1.

- 2. Public Comments None
- 3. **Discussion on Site Visit to Camden County Municipal Utilities Authority (CCMUA) –** WPCA staff and Technical Committee Chairman Merritt Nesin visited the CCMUA. M. Nesin stated that the plant is a 60 MGD facility with 4 digesters. The gas produced from the digesters is used to run the pumps. If WPCA constructed digesters, they would use the gas to run the sludge dryer. He asked if we would have enough gas production to run the dryer. W. Brink thought we would but said our engineers, Hazen, would answer that question. We will have Hazen prepare a responses to the following questions that were discussed:

Will we have enough gas production to run the dryer?

Our dryer runs 5 days/week, not 7. Will we be able to store 2 days of gas?

What is the estimated cost to construct digesters?

Do we have space on-site for the digesters?

W. Brink said that a digester will reduce the volume of sludge by almost half therefore, the dryer has capacity. No one knows what will happen with PFAS requirements which will determine sludge disposal.

4. **Discussion on Sludge Dryer Service Contract with Synagro expiring on March 3, 2024** – W. Brink indicated that the contract with Synagro expires next year and we have begun discussions on contract renewal. WPCA went through the RFQ process for the last contract with one other bidder besides Synagro responding to the RFQ. He said that the Synagro prices have increased and he would like to ask for justification for the increases and details of their markup. M. Nesin and E. Kelly said they wished there were more vendor options that would provide an alternative to Synagro.

- 5. **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. He outlined the breaks in the 10" force main from Saddle Rock Rd pump station over the years. WPCA will have a firm analyze the pipe that was removed where the break occurred to see if the condition of the entire force main can be determined.
- 6. **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. He stated that a temporary 1,000kW emergency generator is in place until the fuel pump on the standby generator can be replaced. The new fuel pump is scheduled to arrive in 3 weeks.
- 7. **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.
- 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.
- 9. Old Business None
- 10. 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 5:36pm.

### Monthly Activities (03/14/23 to 04/11/23)

### **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 (154)
- 2. Pump station call-out activities (9)
- 3. Manhole Inspections (156)
- 4. Gravity line service calls investigated (7)
- 5. Private lateral investigations and repairs in City ROW (2)
- 6. Sewer line repair (1)
- 7. Manhole repair(s) (36)
- 8. CCTV sanitary sewer lines (0 LF)
- 9. Sewer line cleaning (1.52 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. Crew replaced and installed new sump pump at Cummings pump station.
- 5. Crew worked with Cook to have grease vacuumed from the wet well at Alvord Lane pump station (twice) and Commerce pump station
- 6. Crew pulled pump #1 from Alvord Lane pump station; removed rag materials and installed new mechanical seal:
- 7. Crew and electrician field reviewed Alvord Lane, Commerce, and Saddle Rock pump stations with Tighe and Bond staff.
- 8. Crew worked with Vitti Construction to contain a break in the 10" diameter ductile iron force main at 278 Ocean DR. West, until repair was completed.
- 9. Crew met with vendors for proposed pump repairs at Cummings pump stations.
- 10. Crew gathered additional information for Tighe and Bond regarding Alvord, Commerce and Saddle Rock.
- 11. Crew provided access and assistance to Kone crane for annual inspections of station's overhead cranes and equipment.
- 12. Crew provided access and assistance to Tighe and Bond at Alvord Lane and Commerce pump station so that these facilities and/or certain structures at these stations could be digitally scanned and measured.

# **Collection System:**

- 1. Crew jetted lines on the easement between Ledge Lane and Autumn Lane; Edice RD.; and High Ridge RD., Ralsey RD., Stamford Ave., Stillwater Ave., Haig Ave., Summer ST. Ext., Main ST.
- 2. Crew witnessed sanitary sewer lateral tie-in connection to main sewer line at 25 Ponus Ave.
- 3. Crew witnessed sanitary sewer lateral tie-in connection to main sewer line at 777 Summer ST.
- 4. Crew removed a section of abandoned force main from MH-4336 for preparation of gravity line that needs to be replaced between MH-4332 and MH-4336;
- 5. Crew worked with Vitti Construction to contain a break in the 10" diameter ductile iron force main at 278 Ocean DR. West, until repair was completed.
- 6. Crew verified 19 Carter DR. has properly disconnected sump pump discharge via private sanitary sewer lateral.
- 7. Crew verified 82 Virgil ST. roof leader and sump pump discharges into stormwater 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. Participated in the sanitary sewer rehabilitation kick-off meeting with Ann Brown, CDMSmith, and National Water Main.
- 4. Worked with City's legal counsel in reviewing reimbursement claims against the City regarding damaged private laterals in City Row and/or property damages associated with private laterals damaged in the ROW and/or public sanitary sewer lines.

# **Overview of Regulatory Compliance:**

- 1. Initial building permit reviews (13)
- 2. Re-review of building permit applications (16)
- 3. Sanitary sewer tie-in plan reviews (4)
- 4. Zoning permit application reviews (2)
- 5. Initial Food Service Establishment (FSEs) Inspections (85)
- 6. FSE Follow-up Inspections (0)
- 7. Notice of violations (NOVs) Issued (0)
- 8. CTDEEP General Permit plan reviews or applications (0)

### Work performed by outside contractors:

- 1. Vitti Construction completed private lateral repair in City ROW; 61 Atlantic ST.
- 2. Vitti Construction completed emergency manhole repairs for 68 Ralsey RD.; 51 and 55 Ralph ST.
- 3. Vitti Construction replaced 13 linear feet of 10" diameter ductile iron force main pipe for Saddle Rock pump station near 278 Ocean Drive West. To date, there have been six (6) force main breaks and repairs along the 1,927 LF force main (Fig. 1.0) between 2003 and 2023.
- 4. Onevac assisted WPCA and Vitti in controlling wastewater flows at Saddle Rock pump station for the force main repair.
- 5. Vitti Construction completed private lateral repair in City ROW; 83 Sea Beach DR.
- 6. Cavaliere completed manhole repairs (33) for local roadways scheduled for milling and paving later this year. These include: ST. Benedict ST. Circle, Fieldstone RD., Fieldstone Terrace, Fieldstone Circle, Ocean DR. East, Sagamore RD., Stamford Ave., Ralsey RD., Ralph ST., Downs Ave., Houston Terrace, Charles ST.
- 7. Cook vacuumed grease from wet wells at Alvord Lane, Commerce ST., and Greenwich Avenue pump stations.
- 8. Northeast Generator replaced belts on standby generator at Alvord Lane.
- 9. Kone crane completed annual overhead crane and equipment inspections at Cove Island, Carter Drive, Cummings, West Beach, Alvord Lane.

# Saddle Rock Force Main (Approximately 1,927 LF of 10" Diameter Ductile Iron Pipe)

Located between Saddle Rock Pump Station and 176 Ocean Drive West.

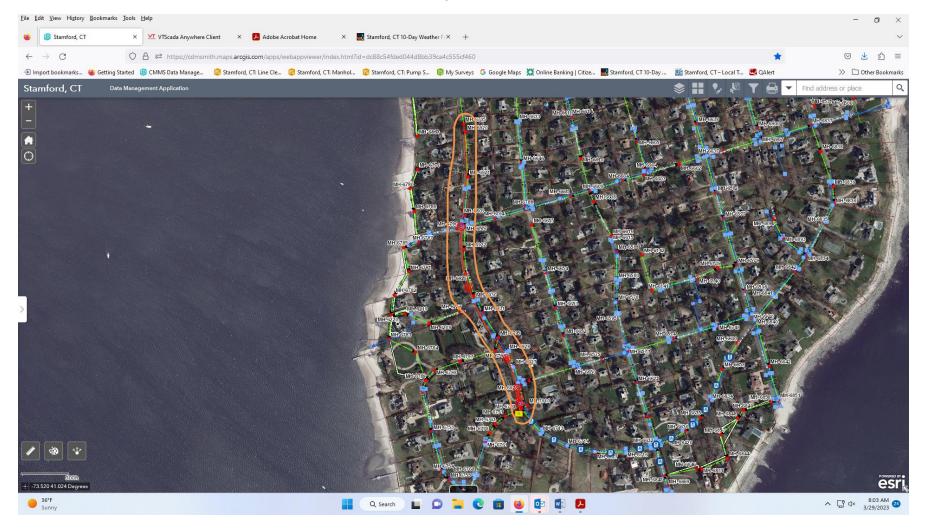


Fig. 1.0 General Location of the Six (6) Force Main Breaks and Repairs Completed between 2003 and 2023.



# APRIL 2023 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	MARCH Results			
mana, operano, neperano			Historical	
	This month	Last month	MARCH	
				Permit Limit
	(MARCH)	(FEB)	Monthly	
			AVG	
Q (FLOW) DAILY AVG MGD	16.9	14.7	18.4	24 MGD DESIGN AVG
Q PEAK FLOW RATE MGD	27.6	23.2	42.3	58 MGD MAX AVG
BOD INFLUENT AVG MG/L	222	254	191	
BOD INFLUENT AVG LBS/D	31,290	31,140		
BOD EFFLUENT AVG MG/L	3	3	6	
BOD EFFLUENT MAX MG/L	6	3		20 mg/L
BOD REMOVAL %	98.8	98.9	96.3	85%
TSS INFLUENT AVG MG/L	311	364	249	
TSS INFLUENT AVG LBS/D	43,834	44,626		
TSS EFFLUENT AVG MG/L	5	6	13	
TSS EFFLUENT MAX MG/L	9	8		20 MG/I
TSS REMOVAL %	98.3	98.2	93.7	85%
TOTAL N INFLUENT AVG MG/L	27.4	32.2	29.7	
TOTAL N INFLUENT AVG LBS/D	3862	3948	4398	
TOTAL N EFFLUENT AVG MG/L	2.45	2.25	3.63	
TOTAL N EFFLUENT LBS/D	344	277	586	926 LBS/D
N REMOVAL %	91.1	93.0	86.2	
TOTAL P INFLUENT AVG MG/L	3.63	5.13	3.93	
TOTAL P EFFLUENT AVG MG/L	0.19 *	0.21 *	0.6	
P REMOVAL %	94.8 *	95.9	83.7	
UV EXCEEDANCES <30 mJ/cm2	0	0		

<sup>\*</sup> Tied or surpassed best historical performances for the month \*

# Plant Equipment Update

Blower #2 Motor bearing, sent out for warranty repair

RSPS #2 Obstruction in suction line RAS Pump #2 VFD replaced by Flowtech

Mixer Train 2 primary anoxic zone damaged cable

STP Line Jetted two times to clear blockages.

Skalar Nitrogen lab testing equipment - warranty issue
Safety Horn and Strobe installed in RSPS basement for H2S



# UPDATE OF CAPITAL PROJECTS TECHNICAL COMMITTEE MEETING April 12, 2023

### **UPDATE ON ENGINEERING STUDIES AND DESIGNS:**

### 1. Infiltration Inflow Study

Pre-Construction meeting was held with National Water Main Cleaning Co. Contractor. They are submitting shop prints for approval.

### 2. Sludge Management Plan

WPCA visited the Camden County Municipal Utilities Authority (CCMUA). CCMUA has three dryers and four sludge digesters. This is an item on the agenda for discussion.

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

We met with Gannett Fleming (GF) to review the Basis of Design report. They will finalize the report to reflect discussions with WPCA. GF will submit a proposal and updated schedule for the design phase. The design period will be about 6 months. We anticipate bidding next spring.

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

Tighe and Bonds has begun investigating the pump stations for the Basis of Design report for each pump station. The investigations/site visits are ongoing.

### 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

We met with Tighe & Bond to review the Basis of Design report. They are working on the design of the system and pump stations based on discussions with WPCA.

# 7. RFP for Architectural Services for New Building for Collection System Staff and SWPCF Existing Locker Room Renovations

Issuing a RFP for architectural services to design a small building for the collection system staff and the electricians - 12 employees. This RFP will include renovations for the existing locker room at the administration building. Advertisement date is 4/20.

### 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.

### 9. Bid for Repair of Storm Water Pumps #1 and 3 at Cummings Pump Station

WPCA advertised for bids to repair storm water pumps #1 and 3 at the Cummings Pump Station. A walk-thru was held 3/30. Two firms attended. The bids are due 4/20.

# 10. Bid for Painting of Final Clarifiers # 1, 2 and 4

Preparing bid documents for painting of Final Clarifiers No. 1, 2 and 4.



### **UPDATE ON CONSTRUCTION PROJECTS:**

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

Will rebid the purchase and installation of a generator for Greenwich Ave pump Station. We received the controls from the contractor and will advise in the bid that the controls will be provided by the WPCA.

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

Proceeding with closeout of the project.

## 3. Electrical Preventive Maintenance / Arc Flash

WPCA is scheduling a meeting with Siemens and Tighe & Bond to review the information submitted and discuss what additional information is required.

### 4. Sludge Degritting System Upgrade

Project is in the submittal phase. We expect construction to begin in spring.

### Change Order Log as of 4/11/2023

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

# <u>Preliminary, Secondary and Disinfection Treatment Improvements (Contractor – CH Nickerson)</u>

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%

# Sludge Degritting System Upgrade (Contractor – CH Nickerson)

Original Value of the Contract = \$8,908,350.00

Total Approved CO Amount = \$0

Contract Sum to Date = \$ 8,908,350.00

				PCC	)								F	RFI		RFP	v	VCD
CHN PCCOR No.	CHN PCCOR Date	Description	Contractor Amount	Status	Included in	Total A		Approved to Preliminary	proved to econdary	Арр	roved 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 Attachched Specifications	\$ -	Approved	1	\$	-					5/10/2019						
01 (rev)		Programming Services Provider / Integration Services - Revised	\$ 194,922.00	Approved	2	\$ 19	94,922.00	\$ 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	\$ 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 condtuionboxes in Blower Room to install new fire rated wall. Plans did not call for this work	\$ 28,473.69	Approved	3	\$ 2	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	\$ 2	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	\$ 2	23,740.56			\$	23,740.56		H-095	4/8/2020				
14		Relocate Generator and Modify Bridge Crane per Building Department Request	\$ 83,080.40	Approved	4	\$ 8	33,080.40		\$ 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	\$ 2	23,618.32		\$ 19,287.40									
16	4/4/2020	Credit for Redundant Breaker @ ATS	\$ (17,296.74)	Approved	5	\$ (1	7,296.74)		\$ (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	\$ 3	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	\$ 1	6,235.90		\$ 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	\$ 3	37,083.78		\$ 37,083.78			10/5/2020						

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	5,267.28			3/1/2021				
49	1/29/2021	Unforseen Below Grade Condidtions @ 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	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		Assist in Opening Gate 5030	\$ 3,710.78	Approved	9	\$ 3,710.78			\$ 3,710.78	5/2/2021				
56		Separate Power/Control on Existing Mixer and Pumps to Maintain Curent Code Complaince	\$ 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		Delete UPS's @ Blower LCPs	\$ (2,057.30)	Approved	9	\$ (2,057.30)	\$	6 (2,057.30)						
60		Emergency repair Assistance - Failed Gate at Primary DBox	\$ 8,483.32	Approved	9	\$ 8,483.32 \$ 8	3,483.32							
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				

62	5/10/2021	(RFI-157A) Grating Grounding at UV Basins	\$ 5,49	2.86 Approv	ed 9		\$ 5,492.86			\$ 5	5,492.86	5/11/2021	157A					
64 (rev)	5/12/2021	(RFI-126) Accessibility of UV Transmittance Sensor	\$ 9,49	3.96 Approv	ed 9		\$ 9,493.96			\$ 9	9,493.96	5/13/2021	126					
65	5/12/2021	Sawcut Overhand in Stairs in RSPS	\$ 90	0.43 Approv	ed 9		\$ 900.43 \$ 90	0.43										
66	5/12/2021	Rework Removable Railings at AT Mixers	\$	- Approv	ed 9		\$ -		\$ -									
67	5/12/2021	Add Supports @ Influent Channel for Aluminum Plating	\$ 5,31	5.63 Approv	ed 9		\$ 5,315.63 \$ 5,31	5.63										
68	5/12/2021	Notch Framing around new influent pump shafts @ 5 Locations	\$ 1,00	9.50 Approv	ed 9		\$ 1,009.50 \$ 1,00	9.50										
70	5/17/2021	(WCD-H-03) Encase Electrical and Hydraulic Conduit in Basin #2 (T&M)	\$ 23,16	6.63 Approv	ed 9		\$ 23,166.63			\$ 23	3,166.63						H-03	
71	5/21/2021	Provide 7 MGD Clean Recirculated Flow at UV Basin #2	\$ 4,37	2.78 Approv	ed 9		\$ 4,372.78			\$ 4	4,372.78	5/26/2021						
72 (rev)	5/21/2021	(RFI-222-H) Basin 2, Channel 3 Existing Wall Inconsistencies	\$ 8,43	6.33 Approv	ed 9		\$ 8,436.33			\$ 8	8,436.33	6/6/2021	222					
74	5/28/2021	(RFI-167) Repair to Existing Concrete Beam at UV Effluent PS	\$ 42,04	3.45 Approv	ed 9		\$ 42,048.45			\$ 42	2,048.45	6/6/2021	167					
63 (rev)	7/15/2021	Investigate/Repair Failed 42" Force Main	\$ 209,72	2.28 Approv	ed 10		\$ 209,722.28 \$ 209,72	2.28										
69 (rev)	7/15/2021	Install Temporary 24" HDPE Force Mains & Manifold	\$ 367,74	7.46 Approv	ed 10		\$ 367,747.46 \$ 367,74	7.46										
59		Add Current Transformers to Blowers to Accept signal and monitoring of Amperage	\$ 24,70	0.84 Approv	ed 11		\$ 24,700.84		\$ 24,700.84			6/10/2021	237					
75	6/9/2021	Replace Mixer Meltic Connector to Match New Mixers	\$ 7,33	).29 Approv	ed 11		\$ 7,330.29		\$ 7,330.29			6/10/2021						
77		Re-align Pumps 4 and 5 per GA Fleets Recommendation	\$ 2,92	4.56 Approv	ed 11		\$ 2,924.56 \$ 2,92	4.56										
78		Bypass Force Main Rental/Ops Costs 4/21/21 through 6/18/21	\$ 136,71	1.13 Approv	ed 11		\$ 136,711.13 \$ 136,71	1.13				8/11/2021						
80		Paint Existing Bridge Crane runway beams and crane rail at UV Basin #2	\$ 8,22	1.33 Approv	ed 11		\$ 8,221.33			\$ 8	8,221.33	7/29/2020			6	7/22/2021		
81	8/13/2021	Radar Level Sensor	\$ 2,40	7.75 Approv	ed 12		\$ 2,407.75			\$ 2	2,407.75	8/18/2021					H-04	6/10/2021
83		Delete Blower Room Floor Painting	\$ (12,91	5.20) Approv	ed 12	5	(12,915.20)		\$ (12,915.20)			8/25/2021						
84		WCD-05-H UV PLC Programming Modifications - Add channel out of Service Status	\$ 7,69	1.61 Approv	ed 12		\$ 7,691.61			\$ 7	7,691.61	8/24/2021					H-05	7/14/2021
85	8/24/2021	(RFI-256) Protection around Fixed Ultrasonic Sensors at UV	\$ 3,05	3.06 Approv	ed 12		\$ 3,053.06			\$ 3	3,053.06	9/3/2021	256	7/8/2021				
89	8/27/2021	Add WiFi to Aeration Tank Instruments	\$ 15,42	1.01 Approv	ed 12		\$ 15,421.01		\$ 15,421.01			8/30/2021						
90	8/27/2021	Replace Existing Plastic JBs on Aeration	\$ 10,99	7.74 Approv	ed 12		\$ 10,997.74		\$ 10,997.74									

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		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 Acuators	\$ 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					

110	12/10/2021 RSPS Building Additional Painting	\$ 12,098.92	Approved	15	\$ 12,098.92	\$ 12,098.92		1/4/2022			3	12/2/2021		
111	12/10/2021 Power Feed to Motor room OH Door	\$ 6,141.48	Approved	15	\$ 6,141.48	\$ 6,141.48		1/4/2022					57	11/17/2021
112	12/17/2021 Power Feed for Indirect Gas Fired Furnace	\$ 1,574.98	Approved	15	\$ 1,574.98	\$ 1,574.98		1/4/2022					62	12/9/2021
115	12/22/2021 Test and Replace Exisitng Gas Pipingat RSPS	\$ 10,802.15	Approved	15	\$ 10,802.15	\$ 10,802.15		1/4/2022					58	11/19/2021
116	12/22/2021 Install and Wire Exterior Pushbotton Station for OH Door 101A	\$ 771.44	Approved	15	\$ 771.44	\$ 771.44		1/4/2022					60	12/9/2021
117	1/3/2022 Programming Changes to Sequencing of Aeration Blower	\$ 1,557.39	Approved	15	\$ 1,557.39		\$ 1,557.39	1/4/2022					61	12/9/2021
119	1/6/2022 Remove NRCY Pump Temp Cabling	\$ 1,475.97	Approved	15	\$ 1,475.97		\$ 1,475.97	1/11/2022					59	11/19/2021
121	1/13/2022 Furnish and Install Horm and Strobe	\$ 5,407.73	Approved	15	\$ 5,407.73	\$ 5,407.73		1/11/2022					63	12/21/2022
122	1/10/2022 Integrate Fire Alarm Duct Smoke Sensors to Existing FACP	\$ 6,902.93	Approved	15	\$ 6,902.93	\$ 6,902.93		1/11/2022					63	12/21/2022
123	1/140/22 Misc SM Duct Modifications at Screenings/RSPS	\$ 8,848.53	Approved	15	\$ 8,848.53	\$ 8,848.53		1/11/2022					56	10/18/2021
124	1/20/2022 Configure Hach Controller for WiFi Use	\$ 2,987.65	Approved	15	\$ 2,987.65		\$ 2,987.65	1/25/2022						
125	1/26/2022 Explosion Proof Horn alt.	\$ 1,244.85	Approved	15	\$ 1,244.85	\$ 1,244.85								
	3/1/2022 Balance in Contract Item Quantities - Secondary Treatment Upgrade	\$ 6,378.78	Approved	16	\$ 6,378.78		\$ 6,378.78	3/1/2022						
	3/1/2022 Balance in Contract Item Quantities - Preliminary Treatment Upgrade	\$ 341,762.5	Approved	16	\$ 341,762.51	\$ 341,762.51		3/1/2022						
87	11/24/2021 Demo Cove Base in RSPS	\$ 5,553.44	Approved	16	\$ 5,553.44	\$ 5,553.44		3/1/2022					42	7/29/2021
93	9/21/2021 Add'l Wiring and Electrical Infrastructure for Mech Bar Screen Controls	\$ 14,316.56	Approved	16	\$ 14,316.56	\$ 14,316.56		3/1/2022	245	4/9/2021				
126	2/2/2022 Lightning Protection Repairs	\$ 5,455.19	Approved	16	\$ 5,455.19	\$ 5,455.19		2/22/2022						
127	2/24/2022 OH Door Wiring Credit	\$ (1,853.67	Approved	16	\$ (1,853.67)	\$ (1,853.67)		3/1/2022					57	11/17/2021
128	3/1/2022 ATC-H1 Wiring Revisions	\$ 6,501.38	Approved	16	\$ 6,501.38	\$ 6,501.38		3/1/2022					65	1/4/2022
129	3/1/2022 Power Feed to Low Flow Switch at Odor Control	\$ 2,942.80	Approved	16	\$ 2,942.80	\$ 2,942.80		3/1/2022						
130	3/1/2022 Relocate Gas Detection Panel	\$ -	Approved	16	\$ -	\$ -							64	
131	8/1/2022 Add'l electrical work per Building Official Inspection.	\$ 16,925.2	Approved	17	\$ 16,925.21		\$ 16,925.21						203	
132	8/1/2022 Add Supports to Raw Sewage Pump Pipe and Shaft System	\$ 47,191.08	Approved	17	\$ 47,191.08	\$ 47,191.08								

134 10/25/2022 Replace/Add Exit Signs per Building Code Official	\$ 10,036.23 Approved	18 \$ 10,036.23 \$ 10,032.23		
		Total \$ 3,703,000.43		