Norwalk Water
Pollution Control
Authority
www.wpcanorwalk.org

AGENDA

DATE: Monday, July 15, 2024

TIME: 5:30 PM

PLACE: By Video Conference and Teleconference

To allow public access, anyone may access a meeting by telephone, Zoom, and/or the City of Norwalk YouTube channel. Specific instructions and links can be found at

To allow public access, anyone may access a meeting by telephone and/or Zoom, or a recording in the City of Norwalk YouTube channel.
Specific instructions and links can be found at **norwalkct.gov/meetings**

Members of the public may call in to participate. Callers will not be able to see the meeting participants. All participants will be muted upon entering the meeting. To speak, dial *9 on the phone and you will be called on by the host of the meeting during the public comment section. All speakers must state their name and address. Comments must be on a topic on the agenda and are limited to three minutes. Anyone disrupting the orderly conduct of the meeting, including by using threatening, hateful, or sexually-explicit language, will be removed. Please find the information using the link above.

Members of the public who wish to provide "live comments" may also use the Zoom meeting platform. All participants will be muted upon entering the meeting. To speak, click the “raise your hand indicator” and you will be called by the host of the meeting during the public comment section. All speakers must state their name and address. Comments must be on a topic on the agenda and are limited to three minutes. Anyone disrupting the orderly conduct of the meeting, including by using threatening, hateful, or sexually-explicit language, will be removed. Please find the information using the link above.

Members of the public who wish to provide public comment are encouraged to submit those via email in advance of the meeting. For these comments to be included into the record, they must be submitted by 12:00 p.m. the day of the meeting. Please email Dilene Byrd at dbyrd@norwalkct.gov with the subject line “Public Comment” to provide written public comment prior to the meeting.

WPCA Regular Meeting:

1. Call to Order

2. Public Input - (Guests at WPCA meetings may speak to any item on the agenda. Comments shall be limited to no more than three (3) minutes per speaker.)

3. Approve the minutes from the WPCA Meeting held on June 17, 2024. (copy included)

4. Authorize the transfer of balances in the following accounts set aside in Fiscal Year 2023-24 to Fiscal Year 2024-25 to be used for the same purpose the funds were intended for.

Account No.	Amount	Vendor
224062-5258	$1,491,144.63	Veolia
224062-5298	$4,500.00	Snyder Group

5. Contract Operations Report:
   a. Veolia Monthly Operating Report – June 2024 (copy included)
   b. Major Repair or Replacement / Out of Scope Items:
      1) Six RAS Pump Control Replacement
      2) Fort Point St Pump Station Equipment

6. Reports:
   a. FY23/24 Revenues/Expenditures MUNIS Reports (copy included)
   b. Discussion on WPCA Engineering Projects:
      1) Catch Basin Disconnect Program
      2) Hubbell's Lane Relief Sewer
      3) Beacon Street Sanitary Sewer
      4) Keeler Brook PS Replacement
   c. Discussion on WPCA Construction Projects
      1) Collection – Sammis and Bell Island Sewershed Rehabilitation (copy Included)
   d. Consent Order:
      1) 2024 Annual Progress Report (copy included)
   e. Sewer Use Bill Appeals/Adjustments Update
      1) Appeal status
   f. Information Copies: None

7. Adjournment

Next WPCA Meeting: **Monday, August 19, 2024, 5:30 PM**
By Video Conference and Teleconference

CITY OF NORWALK
WATER POLLUTION CONTROL AUTHORITY VIA ZOOM VIRTUAL VIDEOCONFERENCE AND TELECONFERENCE
REGULAR MEETING
JUNE 17, 2024

Attendance: Darren Oustafine, Chairman
Chris Mannella
John Bove
James Frayer
Barbara Smyth

Staff: Vanessa Valadares, Chief of Operations and Public Works
Ralph Kolb, WPCA Senior Environmental Engineer
Nelya Bauer, Wastewater Systems Manager
Chris Torre, Superintendent of Operations, DPW
Jared Schmitt, Chief Financial Officer

Others: Ross Gambino, Asst. Project Manager, Veolia, Inc.

1. CALL TO ORDER

Chairman Oustafine called the meeting to order at 5:30PM.

2. PUBLIC INPUT- (GUESTS AT THE WPCA MEETING MAY SPEAK TO ANY ITEM ON THE AGENDA. COMMENTS SHALL BE LIMITED TO NO MORE THAN THREE (3) MINUTES PER SPEAKER.)

There were no public comments this evening.

3. APPROVE THE MINUTES FROM THE WPCA MEETING HELD ON MAY 20, 2024

**** MS. SMYTH MOVED TO APPROVE THE MINUTES AS SUBMITTED.**
**** THE MOTION PASSED UNANIMOUSLY.**

4. ELECTION OF OFFICERS AND SECRETARY FOR PERIOD BETWEEN JULY 1, 2024, TO JUNE 30, 2025.

**** MR. FRAYER MOVED TO NOMINATE THE CURRENT SLATE OF OFFICERS AND SECRETARY.**
**** THE MOTION PASSED UNANIMOUSLY.**

3

5. **AUTHORIZE THE CHIEF OF OPERATIONS AND PUBLIC WORKS TO EXECUTE ORDERS ON CONTRACT WITH INSITUFORM TECHNOLOGIES, LLC. FOR THE SANITARY SEWER REHABILITATION PROJECT (PROJECT: WPCA 2023-01) FOR AN AMOUNT NOT TO EXCEED $800,000 (COPY INCLUDED)**

ACCOUNT NO. 09244062-5777-C0361

Mr. Kolb reviewed the breakdown of what staff would like to include in the Insituform contract and said they have had great success with the lining and have been very impressed with their work. He said previously there were contingency funds added for the Marvin Beach pump station sewer shed and that work was completed and would like to add the Woodward Avenue pump station sewer shed, in addition to lining staff would like to add manhole rehabilitation as well which will also include lateral grouting. He said in addition to the Woodward Avenue pump station sewer shed staff would like to add some easement areas that are difficult to maintain, as well as the Shady Beach pump station sewer shed, and lastly Veolia has been on board for just over four years now and have identified some critical assets that they have recommended for lining that are mostly due to root intrusion. He said the estimated cost is just over $ 1 million dollars and is requesting $800,000 this evening because there are additional change order monies available from the initial approval.

**** MR. FRAYER MOVED TO AUTHORIZE THE CHIEF OF OPERATIONS AND PUBLIC WORKS TO EXECUTE ORDERS ON CONTRACT WITH INSITUFORM TECHNOLOGIES, LLC. FOR THE SANITARY SEWER REHABILITATION PROJECT (PROJECT: WPCA 2023-01) FOR AN AMOUNT NOT TO EXCEED $800,000**
**** THE MOTION PASSED UNANIMOUSLY.**

6. **AUTHORIZE THE CITY OF NORWALK'S PURCHASING AGENT TO INCREASE THE PURCHASE ORDER (WPCA OPERATING ACCOUNT 224062-5258) FOR WASTEWATER TREATMENT SYSTEMS OPERATIONS, MAINTENANCE, AND MANAGEMENT SERVICES AGREEMENT WITH VEOLIA WATER CONTRACT OPERATIONS, USA, INC. IN FISCAL YEAR 2024/2025 FOR AN AMOUNT NOT TO EXCEED $1,770,000 (COPY INCLUDED)**

ACCOUNT NOS. 09184062-5777-C0545, 09244062-5777-C0361

Mr. Kolb said has taken a few years to identify areas that needed major repair and replacement but include evaluation and rehabilitation of blend tank number one, controls upgrade to generator software at the wastewater treatment plant, CIPP lining at Colonial Village and Commerce Street, rehabilitating bar screens, rehabilitating the floor in building two at the wastewater treatment plant, and lastly staff has been working with the Walk Bridge project team and they have agreed in lieu of relocating the 36" pipe the pumps will be upsized at the Fort Point pump station which would allow the force main only needing to be modified versus the gravity interceptor, and they have agreed if the city purchases the pumps and flow meter they will incur the costs of piping and labor to install it. He said all these items are being brought to the board's attention because these items are more capital related but need to move forward because without doing these projects they could create a major catastrophe at the wastewater treatment plant.

Mr. Frayer asked if the cost of the repairs was included in the budget. Mr. Kolb said if he were to pay for the blend tank repair it would deplete the budget for any additional MRR that may be identified over the course of this contract year. Mr. Frayer asked if the residuals are coming from other overages or underspending in other accounts. Mr. Kolb said "yes" and would use the collections system account and wastewater treatment plant capital account. Ms. Valadares said the funds will come from different accounts but are included in the financial model.

**** MR. BOVE MOVED TO AUTHORIZE THE CITY OF NORWALK'S PURCHASING AGENT TO INCREASE THE PURCHASE ORDER (WPCA OPERATING ACCOUNT 224062-5258) FOR WASTEWATER TREATMENT SYSTEMS OPERATIONS, MAINTENANCE, AND MANAGEMENT SERVICES AGREEMENT WITH VEOLIA WATER CONTRACT OPERATIONS, USA, INC. IN FISCAL YEAR 2024/2025 FOR AN AMOUNT NOT TO EXCEED $1,770,000.**
**** THE MOTION PASSED UNANIMOUSLY.**

7. **AUTHORIZE THE CITY OF NORWALK'S PURCHASING AGENT TO AUTHORIZE A SOLE SOURCE PURCHASE ORDER TO TESLA INC. FOR THE PURCHASE OF TWO (2) TESLA- MODEL Y CARS FOR AN AMOUNT NOT TO EXCEED $100,260.**

ACCOUNT NO. 09244062-5777-C0361

Ms. Valadares said we are changing our fleet to a green fleet, and these will be the first fully electrical cars that will be purchased in trying to be the greenest city in Connecticut. She said the mayor has requested that vehicles being purchased are either fully electric or hybrid. There were already funds available within the WPCA budget to purchase some vehicles that are needed, and this purchase was already approved by the Public Works Committee and the Common Council and will be purchasing a total of four cars, but the WPCA will only be funding two of them.

Mr. Oustafine asked how many cars the WPCA currently has. Mr. Kolb said they typically utilize two cars per day. Mr. Oustafine asked if they will be getting rid of any of the existing vehicles that are delegated to the WPCA specifically. Ms. Valadares said they will get rotated, and the cars are pretty much under one umbrella although the funding is coming from different sources.

Ms. Valadares said there is a $7,500 rebate for each of the cars that the city will receive. Mr. Oustafine asked what assurances there are that these cars will be dedicated to the WPCA. Ms. Valadares said the cars will be going to staff related to the WPCA and there will be no issue with WPCA not having a vehicle.

Mr. Oustafine said it is his understanding that the WPCA's were created in the first place because in some other towns the sewer use fees were being viewed as a way to tax and there was a case where roads were being paved with sewer money, so the WPCA's were created to be sure the sewage is being treated and not being used to pave roads. Ms. Valadares said the WPCA also contributes to some of the services for the city and if the cars end up being relocated to whoever will have the best use of the car as a way to minimize the cost to the departments, but there will be cars available to WPCA staff at all times. Mr. Oustafine asked if the cars will be parked at South Smith Street or at City Hall. Ms. Valadares said it depends on who is using the car.

Mr. Mannella asked if the chargers that were just installed are set up specifically for a Tesla or were any other electric vehicles investigated. Ms. Valadares said they are not and can be used by other types of electric vehicles by using an adaptor.

**** MS. SMYTH MOVED TO AUTHORIZE THE CITY OF NORWALK'S PURCHASING AGENT TO AUTHORIZE A SOLE SOURCE PURCHASE ORDER TO TESLA INC. FOR THE PURCHASE OF TWO (2) TESLA- MODEL Y CARS FOR AN AMOUNT NOT TO EXCEED $100,260.**
**** THE MOTION PASSED WITH FOUR (4 IN FAVOR AND ONE (1) OPPOSED (MR. MANNELLA)**

1. CONTRACT OPERATIONS REPORT:

a. Veolia Monthly Operating Report- May 2024 (copy included)

Mr. Gambino reported and said the facility did not experience any rain or wet weather events in May. He said the collections team completed 2.1 miles of TV inspection, 2.1 miles of cleaning, 64 manhole inspections, and 2.09 miles of SLRAT. He said that 38 IPP inspections were also completed.

Mr. Gambino said the facility was in compliance with all permits and requirements for the month of May.

Mr. Mannella said the average daily flow is getting high and asked if staff foresees any problems with DEEP because when facility upgrade plan was done it stated that the flows were around 12 million gallons per day. Mr. Kolb said not just in Norwalk but all of Connecticut got over 30" of rain over the past few months and speaking with other municipalities all their flows are elevated. He said it is bad timing with the ongoing communications with the state however, he believes they have peaked, and June is looking very good and will start to see the number come back down to the 12MGD to 13MGD which has been the flow they have been seeing over the past five years. He also said that several million dollars of lining work is being done which will also help. He said DEEP has two plans which are the collections system master plan which includes the catch basin disconnect program and a facility plan which includes $50 million dollars of CIPP lining and both of these items would reduce flow in the collection system and at the wastewater treatment plant.

b. Major Repair or Replacement/ Out of Scope Items:

Mr. Gambino said the replacement of the final settling tank one has begun, and the new aeration instrumentation equipment is online and is providing data.

8. REPORTS

a. FY 23/24 Revenues/Expenditures MUNIS Reports (copy included)

There was no discussion.

b. Discussion on WPCA Engineering Projects:

1) Catch Basin Disconnect Program

Ms. Bauer said staff is coordinating with Brown and Caldwell to finalize the report for that program.

2) Hubbell's Lane Relief Sewer

Ms. Bauer said smoke testing was done earlier last week and the results showed there were no connections that staff were not aware of and will help to move forward into the 90% design and expect to have that for review by the end of July.

3) Beacon Street Sanitary Sewer

Mr. Bauer said that Brown and Caldwell provided a memo that staff is currently reviewing.

4) Keeler Brook PS Replacement

Ms. Bauer said staff is working on an access agreement with Eversource for the phase II environmental assessment and have received the permit from the building department which includes conservation and fire marshal signoff.

c. Discussion of WPCA Construction Projects

1) Collection- Sammis and Bell Island Sewershed Rehabilitation

Ms. Bauer said the total project includes approximately 50,000 linear feet of sanitary sewer piping and 40,000 linear feet has been completed so 79% of the contract has been completed and have added additional scope to the contract which Mr. Kolb spoke about earlier.

d. Discussion on Beach Monitoring- South Health Explorer (copy included)
Link https://soundhealthexplorer.org/swimmable

Ms. Bauer said the website provides status on the health of beaches in Norwalk.

e. Sewer Use Bill Appeals/Adjustments Update
1) Appeal status

Ms. Bauer said the appeals to date are $ 67,496.

f. Information Copies: None

9. ADJOURNMENT

**** MR. BOVE MOVED TO ADJOURN.**
**** THE MOTION PASSED UNANIMOUSLY.**
The meeting was adjourned at 6:02PM.

Norwalk Water Pollution Control Authority
Monthly Operating Report
June 2024

5.a.

EXECUTIVE SUMMARY

June Highlights

- The Veolia collections system team completed 0.25 miles of TV inspection, the cleaning of 0.62 miles of sewer lines, 86 Manhole Inspections, and 2.09 miles of SL Rat.
- 2.50 miles Hot List cleaning.
- The IPP inspection program conducted 38 inspections.
- Final Settling Tank # 2, 3, and 4 were outfitted with new rubber sweeps.
- New Secondary Scum line was installed by the Veolia team.
- The repaired plant water pump was put back online.
- The facility did not experience a significant wet weather event in June.

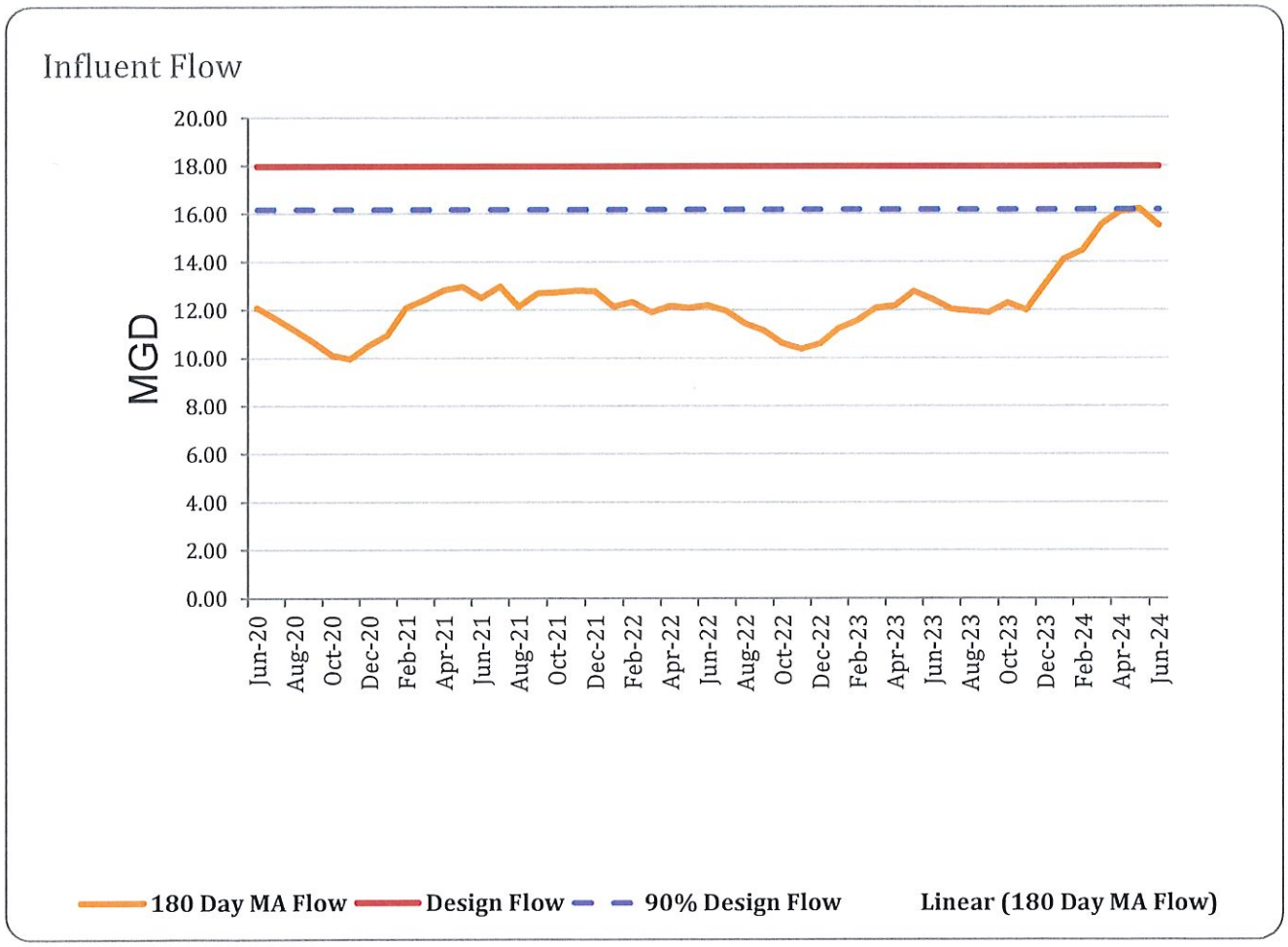
Regulatory Events

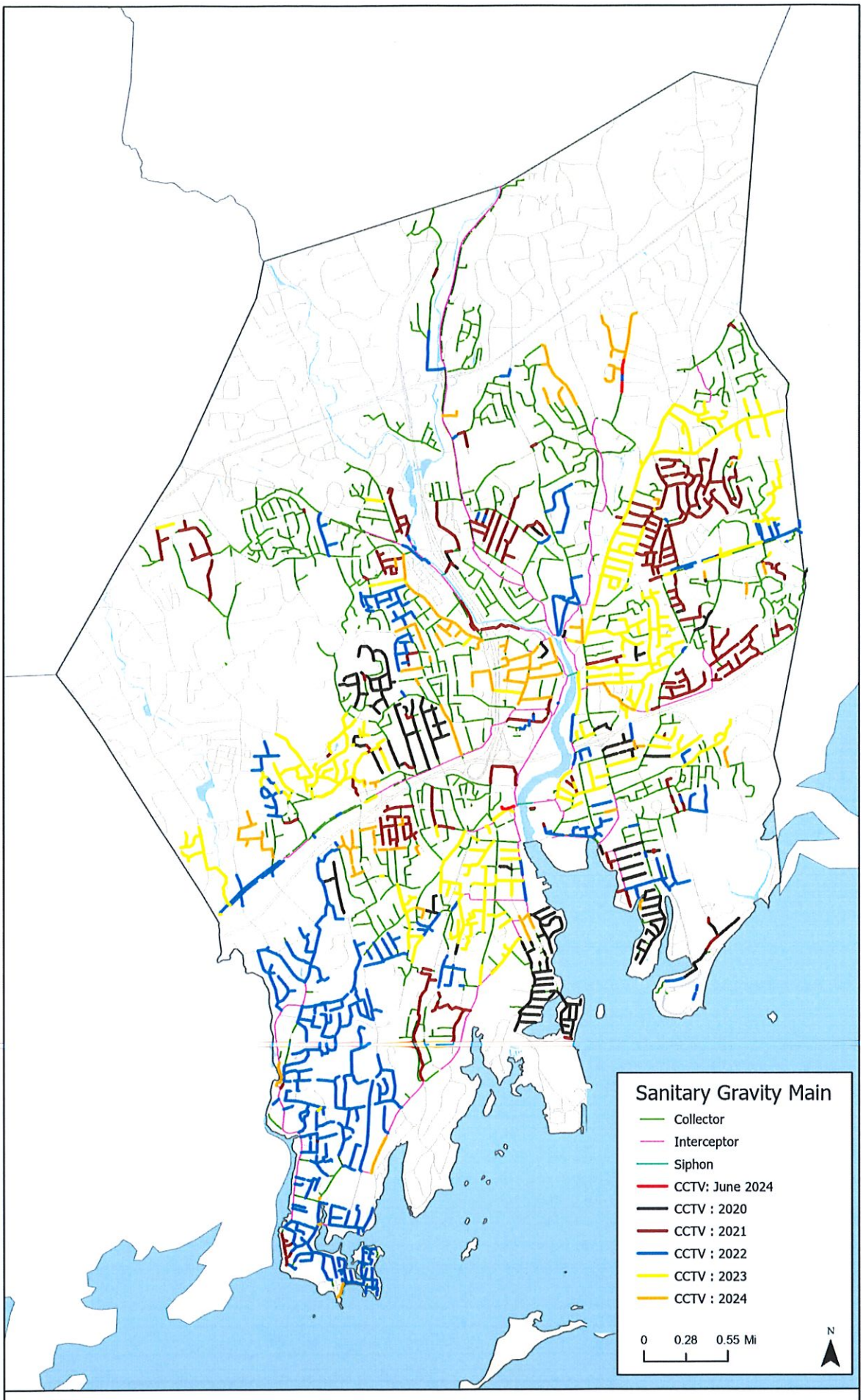
- The Facility was in compliance with all permit requirements for the month of June.
- The netDMR, ATMR MOR, and NAR reports were submitted to CT-DEEP and EPA in June.
- The Quarterly Sludge Report was submitted in June.

EXECUTIVE SUMMARY - Key Operational Parameters

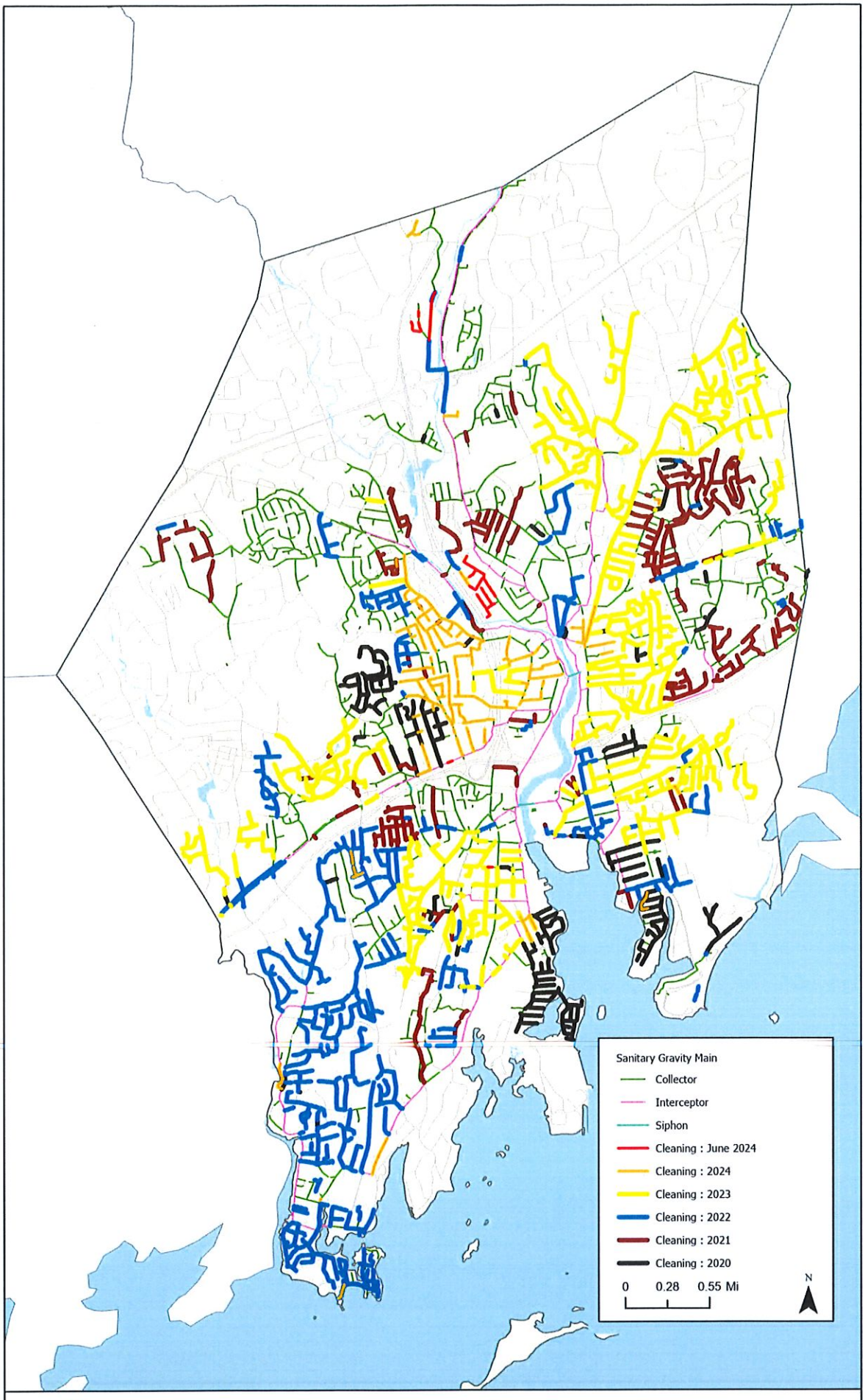
Parameter	Units	June Result	CYTD Result	Contract Limit
Average Daily Flow	MGD	11.30	n/a	n/a
180 Day Average Daily Flow	MGD	15.53	n/a	n/a
Effluent BOD	mg/l	6.4	n/a	10
Effluent TSS	mg/l	7.9	n/a	10
Effluent Fecal Coliform	# / 100 ml	10	n/a	10
Effluent Enterococci	# / 100 ml	14	n/a	30
Effluent Total Chlorine	mg/l	0.02	n/a	0.07
Effluent Total Nitrogen	lbs/day	587	n/a	1,000
Biosolids Quality (cake)	% solids	26	n/a	n/a
Biosolids Disposal (cake)	DT/month	212	n/a	n/a
Biosolids Disposal (liq)	DT/month	39	n/a	n/a
Biosolids Disposal (total)	DT/month	251	n/a	n/a
Grit and Screenings	WT/month	7	n/a	n/a
Chemicals – Hypochlorite	gal/month	4983	n/a	n/a
Chemicals – Bisulfite	gal/month	3632	n/a	n/a
Chemicals – Polymer	gal/month	1000	n/a	n/a
Chemicals – Odor C21ontrol	gal/month	0	n/a	n/a
Sewer Cleaning	Miles	0.62	28.93	3 miles (avg)
CCTV Inspection	Miles	0.25	26.86	2 miles (avg)
Odor Complaints	#	0	n/a	0
SL-RAT Inspection	Miles	2.09	17.50	60 months
Manhole Inspections	#	86	696	50/m
IPP Inspections	#	38	495	Approx. 500/year

EXECUTIVE SUMMARY - Influent Flow



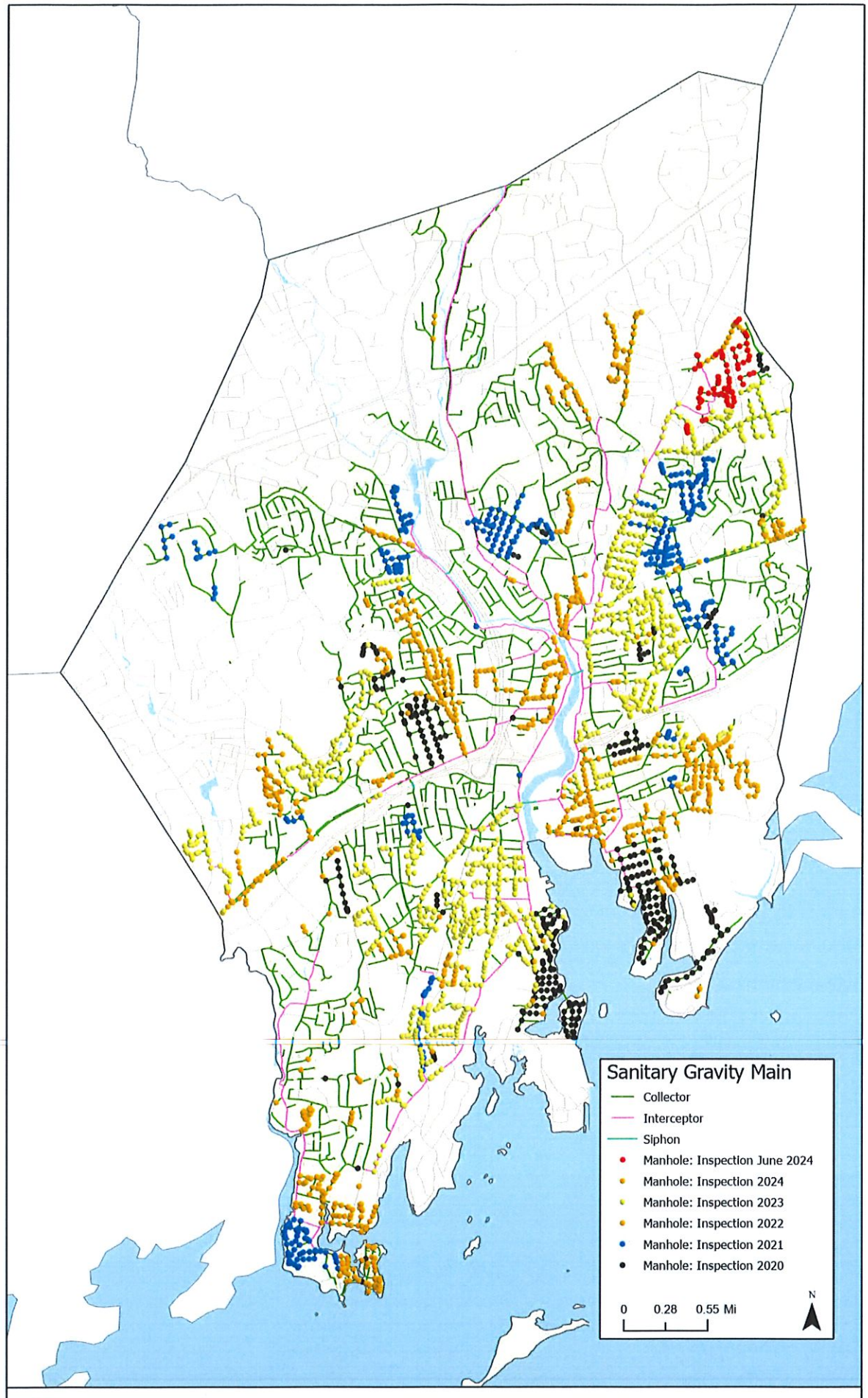


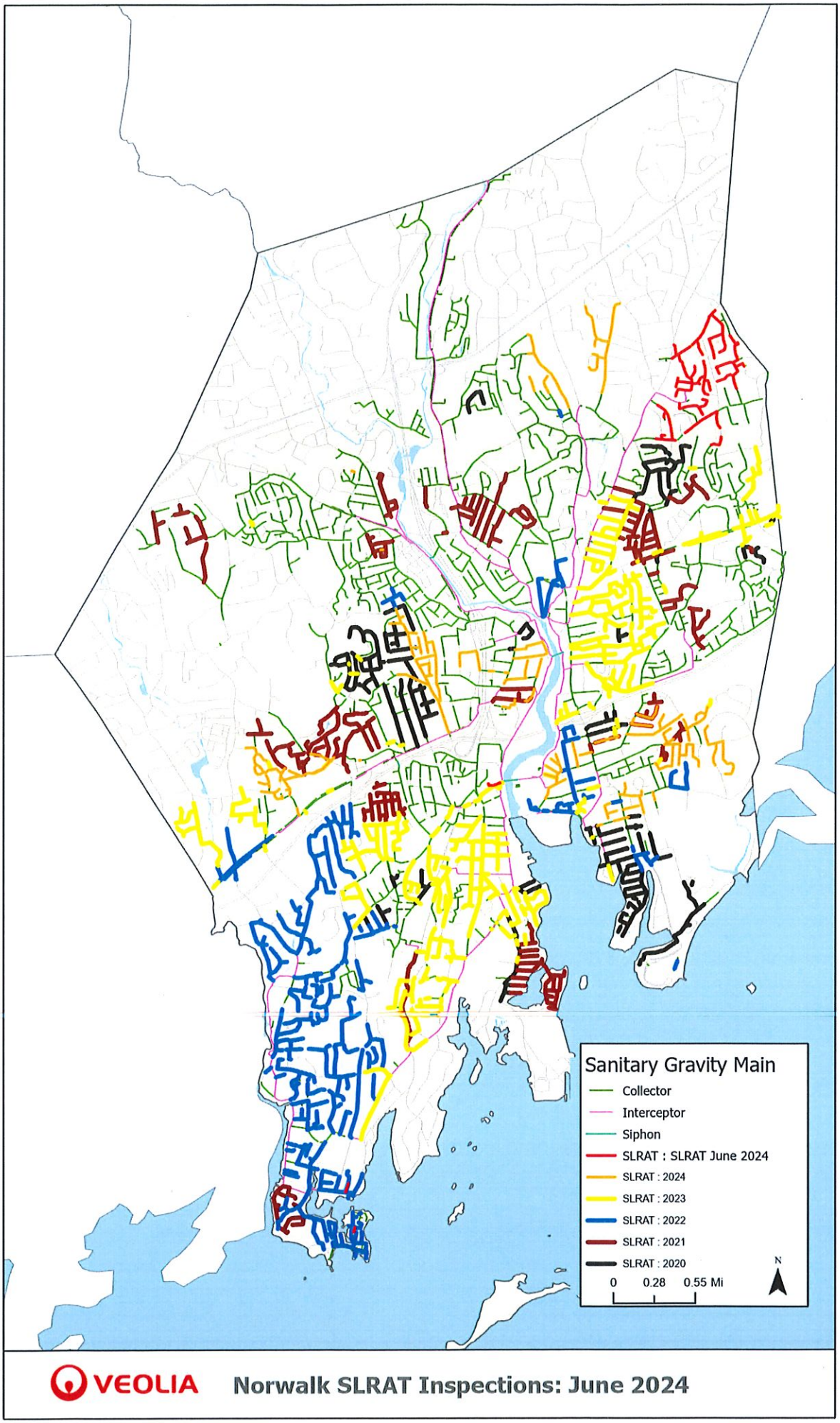
VEOLIA **Norwalk CCTV Inspections: June 2024**



VEOLIA

Norwalk Cleaning Inspections: June 2024


Sanitary Gravity Main
Collector
Interceptor
Siphon
Manhole: Inspection June 2024
Manhole: Inspection 2024
Manhole: Inspection 2023
Manhole: Inspection 2022
Manhole: Inspection 2021
Manhole: Inspection 2020
0 0.28 0.55 Mi
N
VEOLIA
Norwalk Manhole Inspections: June 2024


Sanitary Gravity Main
Collector
Interceptor
Siphon
SLRAT : SLRAT June 2024
SLRAT : 2024
SLRAT : 2023
SLRAT : 2022
SLRAT : 2021
SLRAT : 2020
0 0.28 0.55 Mi
N
VEOLIA
Norwalk SLRAT Inspections: June 2024

Maintenance, Repair and Replacement (MRR) Approval Form

MRR Number: CY-05001
Date: 6-24-24

Subject to the WASTEWATER TREATMENT SYSTEM OPERATIONS, MAINTENANCE, AND MANAGEMENT SERVICES AGREEMENT and BETWEEN WATER POLLUTION CONTROL AUTHORITY FOR THE CITY OF NORWALK AND VEOLIA ENVIRONMENT S.A. ("VEOLIA")

1. MRR Description:

Replace the controls that monitor and operate the 6 RAS pump. The controls that are presently in place are obsolete.

2. Scope of Work:

Integrate RAS Speed Command and Feedback signals into the SCADA via RSCP. Existing signals are connecte to local panel loop controllers that are failing, antiquated and expensive to replace.
Program pump status and automatic flow pacing controls via SCADA and make available Plantwide (with appropriate security).
Confirm signal accuracy for all Pumps. Simplify existing signal loops (currently in need of repair) and replacement of Pump #6 transmitter determined previously.
Electrical field install/conduit/wire/terminations not included nor required.
Lead time for manufacturer's equipment is appx (1) month at this time.

As-built updates, material procurement, electrical coordination
CS narrative; PLC, OIT and HMI programming
Cutover, Instrument config, I/O checkouts and startup
Backups and final docs

AB modules: (1) AI 8pt, (2) AO 4pt 1
Custom cover plate 1
Panel devices 1
ABB Flow Transmitter (Pump #6) 1
Site visits

3. Quotes: See Attached.

Aaron Associates is the sole supplier that services the Scada system for the City Of Norwalk.

4. Time Schedule:

The Company shall complete the work required by this MRR Approval Form within 120 calendar days of the date above.

5.b.1

5. Compensation:

Vendor / Subcontractor:	**$21,580.000**
Contingency (10%):	**$2,158.00**
Veolia Mark Up (15%):	**$3,560.70**
Total Project Cost:	**$27,298.70**

ISSUED AND AUTHORIZED BY:
Veolia

By: CROSS GAMBINO

Title: ASST. PROJ MANAGER

ACCEPTED AND AGREED TO BY:
Norwalk WPCA

By: Ralph R. Roll

Title: Sr. Environmental Engineer

Maintenance, Repair and Replacement (MRR) Approval Form

MRR Number: CY-05-005
Date: 7/11/24

Subject to the WASTEWATER TREATMENT SYSTEM OPERATIONS, MAINTENANCE, AND MANAGEMENT SERVICES AGREEMENT and BETWEEN WATER POLLUTION CONTROL AUTHORITY FOR THE CITY OF NORWALK AND VEOLIA ENVIRONMENT S.A. ("VEOLIA")

1. MRR Description:
   Purchase pumps, Vertical installation kit and 12" Flow meter for the Fort Point pump station.

2. Scope of Work:
   Xylem Flygt Model NT-3202.185 wastewater pump with MT-641 Hard-Iron Impellers
   - 45HP, 208 volt, 3 phase, 60 HZ, 1200 rpm submersible wastewater pump motor including a closed-loop-cooling system.
   - 50 feet of custom cable for 208V service.
   - Pump is to be provided with Flygt seal monitor (FLS), three thermal switches, and over temperature monitor protection (MiniCas).
   - Xylem Flygt pump is to be provided with factory standard finish paint.
   - Factory Certified Performance and Hydrostatic Tests results are to be submitted for approval prior to shipment. Duty Point is 2,075GPM @ 56' TDH tested to HI Grade 2U.

   DN250mmx10" ANSI inlet elbow with pump clean-out
   - 360 degree rotation adapter
   - NT Vertical Dry Installation Stand, Cast Iron with adjustable length

   Magnetic Flow Meter w/ Transmitter
   Rosemount
   Model Number 8750W (see "Sensor" for complete #)
   Power Requirements 90-250VAC, 50/60Hz, 15W
   Signal Cable Potted junction box with 50 feet of combo cable/cable gland will be provided
   Display Yes
   Interface Local Operator Interface with keypad
   Accuracy ±0.5% of measured value
   Repeatability ±0.1% of reading
   Mounting Remote Wall Mounted
   Housing Material Die Cast Aluminum
   Signal Output 4-20mA w/HART, 500Ω max loop resistance (0 to TBD GPM for 12")

3. Quotes: See Attached.
   The Fleet Pumps, and Rosemount flow meters are standard equipment specifications for the City of Norwalk's pump station up-grades.
   The pump's and mounting fittings are purchased through a sole source supplier (Fleet). The Rosemount 12" flow meter a purchase through Aaron Associates a sole source vendor for the Scada system which the flow meter will need to communicate.

4. Time Schedule:
   The Company shall complete the work required by this MRR Approval Form within 90 calendar days of the date above.

5.b.2

MRR Number: CY-05-005
Date: 6-29-24

Subject to the WASTEWATER TREATMENT SYSTEM OPERATIONS, MAINTENANCE, AND MANAGEMENT SERVICES AGREEMENT and BETWEEN WATER POLLUTION CONTROL AUTHORITY FOR THE CITY OF NORWALK AND VEOLIA ENVIRONMENT S.A. ("VEOLIA")

5. Compensation:

Vendor / Subcontractor: Fleet	**$186,475.00**
Vendor / Subcontractor: Aaron Associates	**$9690.00**
Contingency (10%):	**$19,616.50**
Veolia Mark Up (15%):	**$32,367.23**
Total Project Cost:	**$248,148.73**

ISSUED AND AUTHORIZED BY:
Veolia

By: _____

Title: ASST. PROJ MANAGER

ACCEPTED AND AGREED TO BY:
Norwalk WPCA

By: Ralph R. Kolb

Title: Sr. Environmental Engineer

City of Norwalk

YEAR-TO-DATE BUDGET REPORT

FOR 2024 99

ACCOUNTS FOR: 22 WATER POLLUTION CONTROL		ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
040 PUBLIC WORKS								
224062 WATER POLLUTION CONTROL								
224062 4051	INTEREST	-65,000	0	-65,000	-92,857.23	.00	27,857.23	142.9%
224062 4121	NITROGEN	-50,000	0	-50,000	-31,626.00	.00	-18,374.00	63.3%
224062 4451	SEWER PERM	-1,500	0	-1,500	-1,000.00	.00	-500.00	66.7%
224062 4453	SEPTIC LIC	-1,200	0	-1,200	-1,400.00	.00	200.00	116.7%
224062 4513	SEWER CHRG	-17,940,000	0	-17,940,000	-18,168,317.84	.00	228,317.84	101.3%
224062 4516	SPT DIS FE	-175,000	0	-175,000	-223,937.00	.00	48,937.00	128.0%
224062 4521	WILTON SU	-600,000	0	-600,000	.00	.00	-600,000.00	.0%
224062 4522	SEWER USE	-45,000	0	-45,000	-91,761.00	.00	46,761.00	203.9%
224062 452C	INDUSTRIAL	-175,000	0	-175,000	-199,750.00	.00	24,750.00	114.1%
224062 452D	SEWER CONN	-150,000	0	-150,000	-89,137.78	.00	-60,862.22	59.4%
224062 452E	IPP INTERE	-5,000	0	-5,000	-6,135.64	.00	1,135.64	122.7%
224062 4807	REIMB EXP	-1,000	0	-1,000	-9,712.72	.00	8,712.72	971.3%
224062 4825	BOND PREM	0	0	0	-861,393.83	.00	861,393.83	100.0%
224062 489F	REIMB GF	-136,163	0	-136,163	-136,163.00	.00	.00	100.0%
224062 4901	INV INCOME	-110,000	0	-110,000	-80,333.62	.00	-29,666.38	73.0%
TOTAL WATER POLLUTION CONTROL		-19,454,863	0	-19,454,863	-19,993,525.66	.00	538,662.66	102.8%
TOTAL PUBLIC WORKS		-19,454,863	0	-19,454,863	-19,993,525.66	.00	538,662.66	102.8%
TOTAL WATER POLLUTION CONTROL		-19,454,863	0	-19,454,863	-19,993,525.66	.00	538,662.66	102.8%
TOTAL REVENUES		-19,454,863	0	-19,454,863	-19,993,525.66	.00	538,662.66	

6.a

City of Norwalk

YEAR-TO-DATE BUDGET REPORT

FOR 2024 99

ACCOUNTS FOR: 22 WATER POLLUTION CONTROL		ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
040 PUBLIC WORKS								
224062 WATER POLLUTION CONTROL								
224062 5110	WAGES & SA	452,914	0	452,914	425,393.97	.00	27,520.03	93.9%
224062 5120	WAGES & SA	100,000	0	100,000	6,220.56	.00	93,779.44	6.2%
224062 5140	WAGES & SA	36,000	0	36,000	6,280.95	.00	29,719.05	17.4%
224062 5150	LONGEVITY	1,150	0	1,150	1,140.00	.00	10.00	99.1%
224062 5235	MEMBERSHIP	10,000	0	10,000	8,408.05	.00	1,591.95	84.1%
224062 5241	ELECTRIC	1,553,000	0	1,553,000	1,552,153.49	.00	846.51	99.9%
224062 5245	TELEPHONE	2,000	0	2,000	.00	.00	2,000.00	.0%
224062 5252	LEGAL SERV	250,000	0	250,000	171,273.30	38,637.50	40,089.20	84.0%
224062 5258	OMI	10,430,000	1,539,528	11,969,528	10,478,383.37	1,472,021.91	19,122.98	99.8%
224062 5286	BUSINESS E	32,000	0	32,000	19,008.70	77.00	12,914.30	59.6%
224062 5295	SEMINAR&CO	20,000	0	20,000	8,272.63	6,600.00	5,127.37	74.4%
224062 5298	OTHER	250,000	10,638	260,638	95,587.22	4,500.00	160,550.28	38.4%
224062 5418	INSURANCE	140,086	0	140,086	140,086.00	.00	.00	100.0%
224062 5428	BENEFITS	241,404	0	241,404	241,404.00	.00	.00	100.0%
224062 5521	PRINCIPAL	3,208,420	0	3,208,420	2,562,079.98	.00	646,340.02	79.9%
224062 5522	INTEREST	1,011,484	0	1,011,484	509,229.72	.00	502,254.28	50.3%
224062 5523	BOND EXP	0	0	0	78,363.23	.00	-78,363.23	100.0%
224062 5651	TO G/F	692,807	0	692,807	692,807.00	.00	.00	100.0%
224062 5741	IT HARDWAR	60,000	0	60,000	31,077.64	.00	28,922.36	51.8%
224062 5789	RESERVE	963,598	0	963,598	.00	.00	963,598.00	.0%
TOTAL WATER POLLUTION CONTROL		19,454,863	1,550,166	21,005,029	17,027,169.81	1,521,836.41	2,456,022.54	88.3%
TOTAL PUBLIC WORKS		19,454,863	1,550,166	21,005,029	17,027,169.81	1,521,836.41	2,456,022.54	88.3%
TOTAL WATER POLLUTION CONTROL		19,454,863	1,550,166	21,005,029	17,027,169.81	1,521,836.41	2,456,022.54	88.3%
TOTAL EXPENSES		19,454,863	1,550,166	21,005,029	17,027,169.81	1,521,836.41	2,456,022.54	

Norwalk Water Pollution Control Authority
Sanitary Sewer Rehabilitation (Contract No. 2023-01)
Date: July 2024

CIPP Lining	Original Scope	Added Work	Total Project (ft)	Completed (ft)	% Completed
8-inch	30,415	14,796	45,211	33,301	74%
10-inch	2,306	1,996	4,302	2,306	54%
12-inch	1,546	8,015	9,561	4,595	48%
14-inch	921	0	921	921	100%
15-inch	50	1,216	1,266	0	0%
18-inch	177	0	177	177	100%
24-inch	1,457	0	1,457	1,044	72%
Totals:	**36,872**	**26,023**	**62,895**	**42,344**	**67%**

6.C.1

Norwalk Water
Pollution Control
Authority
www.wpcanorwalk.org

VIA ELECTRONIC MAIL

June 26, 2024

Mr. Syed Bokhari
Environmental Engineer 2
Municipal Wastewater
Water Planning and Management Division
Bureau of Water Protection and Land Reuse
Department of Energy and Environment Protection
79 Elm Street
Hartford, CT 06106-5127

Subject: City of Norwalk, CT, Consent Order (#COWRMU22001)
2024 Annual Progress Report

Dear Mr. Bokhari,

Please find attached for your records a copy of the 2024 Annual Progress Report that is due on or before June 30th annually in accordance with Section B.6. of the above referenced Consent Order.

Should you have any questions, please feel free to contact me at 203-854-3242.

Sincerely,

Ralph K. Kolb

Ralph K. Kolb, P.E.
Sr. Environmental Engineer

Copy: Vanessa Valadares, P.E., DPW (*via Electronic Mail*)
Chris Torre, DPW (*via Electronic Mail*)
Nelya Bauer, P.E., WPCA (*via Electronic Mail*)
WPCA Board of Directors
Ross Gambino, Veolia (*via Electronic Mail*)

6.d.1

Norwalk Water
Pollution Control
Authority
www.wpcanorwalk.org

June 26, 2024

Mr. Syed Bokhari
Environmental Engineer 2
Municipal Wastewater
Water Planning and Management Division
Bureau of Water Protection and Land Reuse
Department of Energy and Environment Protection
79 Elm Street
Hartford, CT 06106-5127

Subject: City of Norwalk, CT, Consent Order (#COWRMU22001)
2024 Annual Progress Report

Dear Mr. Bokhari,

In accordance with Paragraph B.6 of the above-referenced Consent Order between the State of Connecticut and City of Norwalk (the "City") dated May 5, 2022 (the "Consent Order"), this Progress Report documents the actions taken by the City pursuant to the Consent Order since its 2023 Annual Progress Report filed June 30, 2023.

Progress Report June 2024

In response to the requirements of Paragraph B.1
As specified in Paragraph B.1 of the Consent Order, the City of Norwalk's Water Pollution Control Authority ("WPCA") retained Brown and Caldwell as the primary on-call collection system consultant and Woodard and Curran as the secondary on-call collection system consultant to complete the Sanitary Sewer Collection System Master Plan update (the "Master Plan"). Brown and Caldwell's current contract was extended in December 2022 and expires in March 2027. In May 2024, the WPCA and Woodard and Curran signed a contract amendment, extending Woodard and Curran's services as the secondary on-call collection system consultant through March 2027.

In response to the requirements of Paragraph B.2
As specified in Paragraph B.2 of the Consent Order, the WPCA retained Arcadis US, Inc. to complete the Wastewater Treatment Plant Facility Plan update (the "Facility Plan Update"). The WPCA's current contract with Arcadis was extended in 2022 and expires in January 2026.

In response to the requirements of Paragraph B.3

In accordance with Paragraph B.3, Brown and Caldwell prepared the Master Plan, which the City submitted to DEEP on September 30, 2022. The Master Plan is currently pending before DEEP. The Master Plan describes and evaluates a range of viable and cost-effective measures to (1) remove excess flows (such as infiltration/inflow) from the wastewater collection system, and (2) eliminate the Ann Street Siphon Emergency Overflow from the wastewater collection system.

As part of the Master Plan update, Brown and Caldwell developed and calibrated a hydraulic model of Norwalk's collection system to analyze existing conditions, characterize system performance, and to support modeling of potential sewer improvement alternatives and future conditions. With the help of the collection system model, the Master Plan update evaluates a range of cost-effective measures to reduce excess flows, such as inflow and infiltration, from entering the collection system. Reduced excess flows includes both the disconnection of stormwater catch basins that are directly connected to the wastewater collection system and targeted reduction of rainfall derived infiltration and inflow (RDII).

On September 29, 2023, the WPCA submitted to DEEP an Amended Collection System Master Plan ("Amended Master Plan"), revising the Master Plan's flow calculations for Outfall 002-1 as shown in Tables ES-1, ES-2, 4-4, 5-2, 5-7, 5-8, and 7-1 to 7-4. As the WPCA informed DEEP at a meeting on June 20, 2023, the prior Master Plan's flow calculations resulted in an over-estimation of wastewater volume directed to Outfall 002-1 during storm events. The revised calculations included in the Amended Master Plan are favorable, showing predicted flows to Outfall 002-1 that are considerably lower for a range of rainfall events, including a 66-78% reduction in flow for 24-hour rainfall events.

Since its 2023 Annual Progress Report filed June 30, 2023, the City has continued to make substantial progress toward meeting its goals as set forth in the Master Plan. Specifically, the WPCA has engaged in the following to address collection system projects and reduce excess flow such as infiltration and inflow into the wastewater collection system:

- Since the 2023 Annual Progress Report, the City and WPCA have worked with Insituform Technologies, LLC, and Green Mountain Pipeline Services to line more than 40,000 feet of pipe in the wastewater collection system to reduce inflow and infiltration.[1]

- The WPCA has issued a base contract with Insituform Technologies, LLC for sewer rehabilitation in the low lying and coastal areas of Sammis Street and Bell Island pump station sewer sheds in the southwest part of Norwalk. In addition to other benefits, the

[1] Before and after images showing the significant beneficial impacts of pipe lining can be found here on the WPCA's website: https://www.norwalkwpca.org/system-information/collection-system/

project will prevent infiltration into the wastewater collection system from storm-impacted and tidal areas, and high groundwater.

- The original scope of the project included cured-in-place pipe (CIPP) lining of over 38,800 feet of gravity sewer main ranging in diameter from 8- to 24-inches, manhole cementious lining, and lateral grouting.
- In May 2024, the scope of the project was expanded to include additional CIPP lining of approximately 12,000 feet of gravity sewer main, manhole cementious lining, and lateral grouting in the Marvin Beach Pump Station sewer shed area and some additional locations.
- In June 2024, the scope of the project was expanded further to include additional CIPP lining of approximately 15,000 feet of gravity sewer main, manhole cementious lining, and lateral grouting in the Woodward Ave and Shady Beach Pump Station sewer sheds, easement, and hot spot locations.

- The WPCA and Veolia, the WPCA's contract operator, continue to contract with Green Mountain Pipeline Services to implement CIPP lining throughout the City to reduce inflow and infiltration to the wastewater collection system.
  - In May 2024, Veolia engaged Green Mountain Pipeline Services to rehabilitate all 8-inch and 15-inch collection system gravity mains within the Colonial Village area of the City.

- The WPCA has commenced feasibility and design work on its Catch Basin Disconnection Program.
  - In May 2024, WPCA's consultant, Brown and Caldwell, completed a task order issued May 2023 and submitted to the WPCA a final Basis of Design Report.
  - The Basis of Design Report investigated the feasibility of disconnecting approximately forty-three (43) priority catch basins over a five-year project lifespan, which would have the benefit of diverting approximately 203.8 million gallons per day of peak flow during a 25-year, 24-hour event from the wastewater collection system. The project will cost approximately $12.9 million over five years.
  - Once the Basis of Design Report has been fully evaluated, the WPCA will issue a task order for design phase services for the first group of catch basins. The task order will request further evaluation of disconnection through the preparation of construction bid documents.
  - If not received prior to completion of the bid documents, the WPCA will seek written approval from DEEP for the Catch Basin Disconnection Program as described in its Master Plan, before commencing construction to ensure compliance with the Consent Order and satisfaction of its obligations under Paragraph B.3.

- Assuming DEEP approval is received, the Norwalk Department of Public Works plans to disconnect five (5) of the forty-three (43) priority catch basins by the end of June 2025.

- The Hubbells Lane Relief Sewer project is currently at 90% design. The project will install about 500 feet of new 36-inch diameter sewer on Hubbells Lane to reroute flows from East Wall Street and replace approximately 600 linear feet of existing 36-inch interceptor with 60-inch diameter sewer interceptor on Smith Street, effectively mitigating significant surcharging, preventing manhole overflows, and permanently closing the Wall Street overflow.
  - Additional field investigation is ongoing to identify the best method of disconnecting two (2) catch basins in the area and redirecting stormwater flow.
  - Field investigation included smoke testing and dye testing to identify any unknown connections to the wastewater collection system that may need to be incorporated into the current design.

- The City's Dreamy Hollow project, which includes improvements to both the storm and wastewater infrastructure, is mostly complete.
  - WPCA has upgraded the infrastructure in this area by replacing approximately 3,000 feet of existing piping with new PVC pipe, which will reduce infiltration into the wastewater collection system from storm-impacted areas.
  - The WPCA will be disconnecting two (2) catch basins from the wastewater collection system in this area and extended the storm drains in 2024.

<u>In response to the requirements of Paragraph B.4</u>

In accordance with Paragraph B.4, Arcadis and Brown and Caldwell prepared the Facility Plan Update, which was submitted to DEEP on September 29, 2023. The Facility Plan Update describes and evaluates a range of viable and cost-effective measures to (1) provide Outfall 002-1 with primary treatment or its equivalent or (2) eliminate Outfall 002-1.

To meet this goal, the WPCA and Arcadis held a series of collaborative workshops to evaluate multiple wet weather treatment technologies, including conducting site visits to Bridgeport West Side WPCF, and Waterbury WPCF to observe their wet weather pilot programs. To ensure the Facility Plan Update comprehensively evaluated all viable measures and identified a path forward that has the greatest environmental benefit to the Norwalk River and Long Island Sound, on June 22, 2023, following discussion with DEEP, the WPCA requested a filing extension so that it could evaluate its options for advancing elimination of Outfall 002-1.

The final Facility Plan Update, submitted September 29, 2023, recommends implementation of the Comprehensive Wet Weather Flow Reduction Program, which includes substantial

investment in the WPCA collection system, inflow and infiltration reduction efforts, and targeted collection system rehabilitation projects, as a viable and cost-effective means to advance elimination of Outfall 002-1. Modeling of the Comprehensive Wet Weather Flow Reduction Program demonstrates significant overall reduction in flow to the Wastewater Pollution Control Facility ("WPCF") and a decrease in volume and duration of discharges from Outfall 002-1, should they occur.

On February 20, 2024, the City, WPCA and DEEP met to discuss the Facility Plan Update, including the results of further analysis quantifying the environmental benefits of the Comprehensive Wet Weather Flow Reduction Program. In addition to overall reduced flow to the WPCF, it is anticipated that the Comprehensive Wet Weather Flow Reduction Program will have a greater overall benefit to water quality than available wet weather treatment technologies. More specifically, the Comprehensive Wet Weather Flow Reduction Program is projected to reduce TSS, BOD, and total nitrogen by 88% from Outfall 002-1 discharges.

In response to the requirements of Paragraph B.6

In accordance with Paragraph B.6, this Progress Report summarizes all actions required by this Consent Order and is submitted on or before the last day of June 2024.

Certification of Documents

The following certification statement is included pursuant to Paragraph B.11 of the Consent Order:

> I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of the knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under § 53a-157b of the Connecticut General Statutes and any other applicable law.

Ralph K. Kolb

Signature

6/26/2024

Date

Ralph K. Kolb, P.E.

Name

Sr. Environmental Engineer

Title