



GREATER NEW HAVEN
Water Pollution Control Authority

CONSENT ORDER WC5509
Annual Progress Report
July 1, 2022 – June 30, 2023





Greater New Haven Water Pollution Control Authority

260 East Street New Haven, CT 06511
203.466.5280 p 203 772.1564 f www.gnhwpc.com

June 30, 2023

Ms. Ivonne Hall
Assistant Director of Municipal Wastewater Program
Department of Energy and Environmental Protection
Bureau of Water Protection and Land Reuse
79 Elm Street
Hartford, CT 06106-5127

Subject: GNHWPCA Annual Progress Report
Consent Order WC5509

Dear Ms. Hall:

Per Section B6 of the Consent Order WC5509, the Authority has assembled this letter and informational attachments to fulfill the requirement of an annual "progress report" which describes the actions the Authority has taken to comply with the Consent Order.

Please find the following attachments as summary of our progress:

Attachment "A" is an updated version of the CSO LTCP Table, the general format of this table was approved by DEEP on 9/14/11. We have updated the Table based on the results contained in the 2016 CSO LTCP Update Report as well as changes made to the combined sewer system during the previous year. This report was approved by DEEP on May 14, 2018.

Attachment "B" is a listing of Approval / Denial letters the Authority has received from the DEEP between July 1, 2022 and the date of this letter.

Attachment "C" is a listing of emails and letters between DEEP, EPA and the Authority from July 1, 2022 to the time of this letter. The emails are limited to those which include a transmission of documents or critical information relevant to the consent order and/or moving projects to construction through the CWF program. Please note that Attachments "C" is not intended to be comprehensive listings of all correspondence between GNHWPCA and DEEP. Rather they are those communications that contain material and substantive information on the relative subjects.

Ms. Ivonne Hall
June 30, 2023
Page 2 of 2

Attachment "D" includes calibrated flow monitoring results obtained from all Permitted CSO outfalls between May 2022 and April 2023. A current CSO Map has also been included as part of this attachment.

I have personally examined and am familiar with the information submitted in these documents and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachment may be punishable as a criminal offense.

Sincerely,

Greater New Haven Water Pollution Control Authority

A handwritten signature in black ink, appearing to read 'S. Holbrook', with a long horizontal stroke extending to the right.

Sidney J. Holbrook

Executive Director

cc: Gabe Varca, Director of Finance and Administration
Gary Zrelak, Director of Operations
Thomas V. Sgroi, P.E., Director of Engineering
Ricardo Ceballos, P.E., Engineer

w/ Attachments

ATTACHMENT "A"

GNHWPCA

CSO LTCP

ANNUAL STATUS REPORT

FY 2023

ATTACHMENT "B"

**DEEP LETTER
CORRESPONDENCE**

FY 2023



FY 2023 DEEP LETTER CORRESPONDENCE

APPROVAL DATE	LETTER TYPE	CWF #	PROJECT	Amount	TO	FROM
09/16/22	Approval	227-CSL	I/I Hamden EH - Pre-approval Change Order No2	\$243,621	Sid Holbrook	Nisha Patel
09/19/22	Approval	227-CSL	I/I Hamden EH - Approval Change Order No1	\$57,994	Sid Holbrook	Nisha Patel
11/04/22	Approval	227-CSL	I/I Hamden EH - Approval Change Order No2	\$243,621	Sid Holbrook	Nisha Patel
11/23/22	Approval	664-DC	Yale Trumbull St Phase 2 MBE/WBE Approval		Sid Holbrook	Graham Stevens
11/22/22	Approval	664-DC	Orchard Street Addenda 1-5 Approvals		Sid Holbrook	Nisha Patel
11/22/22	Approval	664-DC	Yale Trumbull St Phase 2 Addenda 1-3 Approvals		Sid Holbrook	Nisha Patel
12/01/22	Approval	227-CSL	I/I Hamden EH - Approval Change Order No3	\$13,093	Sid Holbrook	Nisha Patel
12/19/22	Approval	227-CSL	I/I Hamden EH - Approval Draft Eng Agreement	\$49,392	Sid Holbrook	Graham Stevens
01/17/23	Approval	664-DC	Orchard St - Authorization to award	\$8,573,658	Sid Holbrook	Graham Stevens
01/17/23	Approval	664-DC	Orchard St - Approval of Addendum 6		Sid Holbrook	Nisha Patel
02/08/23	Approval	664-DC	Orchard St Approval of Eng Agreement	\$1,725,916	Sid Holbrook	Graham Stevens
02/10/23	Approval	227-CSL	I/I Hamden EH -Draft Change Order No 4 Approval	-\$171,515	Sid Holbrook	Nisha Patel
02/14/23	Approval	664-DC	Yale Trumbull - Draft Eng Agreement	\$869,370	Sid Holbrook	Graham Stevens
02/22/23	Approval	727-D	East St Pump Station - Draft Eng Agreement	\$3,044,467	Sid Holbrook	Graham Stevens
02/24/23	Approval	664-DC	Yale/Trumbull Separation - Executed Eng Agreement	\$869,370	Sid Holbrook	Graham Stevens
02/24/23	Approval	664-DC	Orchard St - Executed Eng Agreement	\$1,725,916	Sid Holbrook	Graham Stevens
03/10/23	Approval	727-D	East St Pump Station - Executed Eng Agreement	\$3,044,467	Sid Holbrook	Graham Stevens
03/27/23	Approval	739-PG	SSES Mill River Areas 6,13,19 Hamden - Amendment	-\$25,000	Sid Holbrook	Graham Stevens
04/19/23	Approval	739-PG	LTCP - Amendment	\$23,098	Sid Holbrook	Graham Stevens
05/09/23	email	727-D	BABA Waivers		Mario Ricozzi	Syed Bokhari
05/09/23	email	727-D	Plans and Specs Checklist		Mario Ricozzi	Catharine Chu
05/24/23	Approval	227-CSL	Change Order No. 4	-\$171,515	Sid Holbrook	Nisha Patel
06/02/23	Approval	227-CSL	Change Order No. 5	\$69,808	Sid Holbrook	Nisha Patel
06/14/23	Approval	739-PG	LTCP - Amendment	\$23,098	Sid Holbrook	Graham Stevens

ATTACHMENT "C"

DEEP / GNHWPCA

LETTER & EMAIL

CORRESPONDENCE

FY 2023



FY 2023 GNHWPCA LETTER & E-MAIL CORRESPONDENCE/TRANSMITTALS

DATE	DOCUMENT TYPE	REF/CWF #	PROJECT	TO	FROM
09/29/22	letter	LTCP	LTCP Time Extension Request	Nisha Patel	Gabe Varca
10/20/22	letter	CWF 2012-04,05	Request for CWF Design and Construction Yale Trumbul & Orchard St Projects	Lindsay Williams	Sid Holbrook
10/25/22	email	CWF 2012-04	Addenda Email Yale Trumbul Project	Christopher Falk	Mario Ricozzi
10/25/22	email	CWF 2019-05	Addenda Email Orchard St Project	Christopher Falk	Mario Ricozzi
11/29/22	email	CWF 727D	Final Draft Submission of 2022 City of New Haven CSO LTCP	Syed Bokhari	Mario Ricozzi
02/22/23	email	CWF 739PG	I/I Rehabilitation I/I Rehab SSES Mill River	Catharine Chu	Mario Ricozzi
03/09/23	email	CWF 727D	Baba Waiver Request East St PS & Process Air Compressor	Syed Bokhari	Mario Ricozzi
03/15/23	email	CWF739PG	LTCP Amendment for Mass Balance	Syed Bokhari	Mario Ricozzi
04/10/23	Letter	CWF739PG	Final Draft SSES to DEEP	Catharine Chu	Mario Ricozzi
'10/23	email	CWF2016-06	Dam Safety Permit	Ivonne Hall	Mario Ricozzi
06/16/23	email	CWF2017-01	Prepermitting Request for East St PS Project	DEEP	Julie Bjorkman/Mario Ricozzi
06/21/23	email	CWF664DC	Yale Trumbull St Sewer Separation NTP	Christopher Falk	Mario Ricozzi
06/21/23	email	CWF664DC	Executed Contract Orchard St Sewer Separation	Christopher Falk	Mario Ricozzi
06/22/23	email	CWF727D	PACS Resubmittal	Catharine Chu	Mario Ricozzi
06/23/23	email	CWF727D	Process Air Compressor CA&I Scope	Catharine Chu	Mario Ricozzi
06/23/23	email	CWF727D	Application Discussion	Stacy Papano	Mario Ricozzi

ATTACHMENT “D”

**ANNUAL CSO FLOW
MONITORING DATA**

JUNE 2023

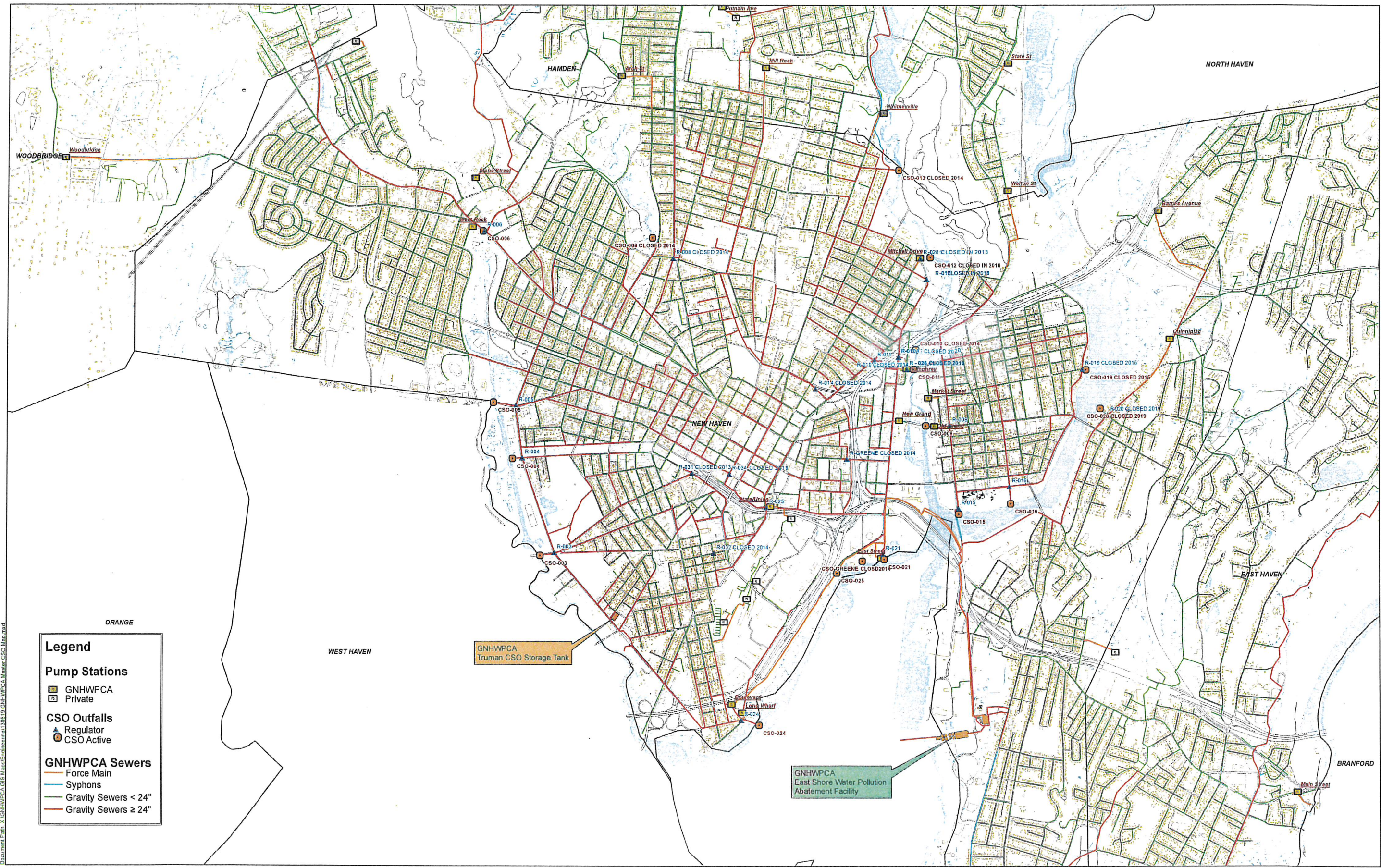
ATTACHMENT "D"

**JUNE 2023
ANNUAL CSO FLOW MONITORING PROGRAM DATA**

TABLE OF CONTENTS

SECTION	PAGES
Updated Sewer Map	1
Regulator and CSO Designations and Status	1
Meter Location Summary	9
Meter Data Summary May 2022 through April 2023	1
Meter Data – April 2023	12
Meter Data – March 2023	12
Meter Data – February 2023	12
Meter Data – January 2023	12
Meter Data – December 2022	12
Meter Data – November 2022	12
Meter Data – October 2022	12
Meter Data – September 2022	12
Meter Data – August 2022	12
Meter Data – July 2022	12
Meter Data – June 2022	12
Meter Data – May 2022	12

UPDATED SEWER MAP



Legend

Pump Stations

- GNHWPCA
- Private

CSO Outfalls

- Regulator
- CSO Active

GNHWPCA Sewers

- Force Main
- Syphons
- Gravity Sewers < 24"
- Gravity Sewers ≥ 24"

GNHWPCA
Truman CSO Storage Tank

GNHWPCA
East Shore Water Pollution
Abatement Facility

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**GNHWPCA
COMBINED SEWER OVERFLOW (CSO) AND REGULATOR (R) LOCATIONS
AND STATUS**

1 inch = 1,250 feet 8/10/2019

**REGULATOR & CSO
DESIGNATIONS & STATUS**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

REGULATOR AND CSO DESIGNATIONS AND STATUS

4/26/2023

<u>(1) NPDES CSO #</u>	<u>(1) NPDES REGULATOR LOCATION</u>	<u>(1) NPDES CSO RECEIVING WATER</u>	<u>(1) NPDES CSO STATUS</u>	<u>(2) CSO #</u>	<u>(2) CSO STATUS</u>	<u>(2) REG #</u>	<u>(2) REG STATUS</u>
#003	E.T. Grasso Boulevard @ Orange Av	West River	Active	#003	Active	#003	Weir raised 16 inches in 2020
#004	E.T. Grasso Boulevard @ Legion Av	West River	Active	#004	Active	#004	Weir raised 24 inches in 2020
#005	E.T. Grasso Boulevard @ Derby Av	West River	Active	#005	Active	#005	Weir raised 1.45 feet in 2014
#005 (A)	University Place	West River	Active	None	Closed prior to 2008	None	Closed prior to 2008
#005 (B)	Elm/University Place	West River	Active	None	Closed prior to 2008	None	Closed prior to 2008
#006	Whalley Av @ Fitch Street	West River	Active	#006	Active	#006	Weir raised 42 inches in 2020
#008	Munson St @ Orchard St	Mill River	Active	#008	Closed in 2014	#008	Closed in 2014
#009	Grande Av @ James St	Mill River	Active	#009	Active	#009	Weir raised 8 inches in 2015 and an additional 6 inches in 2022
#010	East St @ I-91 (2 Weirs/2 Regulators)	Mill River	Active	#010	Closed in 2014	#010	Closed in 2014
#010 (A)	East St @ I-91 (2 Weirs/2 Regulators)	Mill River	Active	#011	Active	#010 (A)	Closed in 2020
#011	Humphrey St @ I-91	Mill River	Active	#011	Active	#011	Active
#012	Mitchell Dr east of Nicoll St	Mill River	Active	#012	Closed in 2018	#012	Closed in 2018
#013	Everitt St @ East Rock Rd	Mill River	Active	#013	Closed in 2014	#013	Closed in 2014
#013 (A)	East Rock Rd @ Everitt St	Mill River	Active	None	Closed prior to 2008	None	Closed prior to 2008
#014	Trumbull St @ Orange St	Mill River	Active	#011	Active	#014	Closed in 2014
#015	James St Siphon	Quinnipiac River	Active	#015	Active	#015	Weir raised 18 inches in 2022
#016	Poplar St @ River St	Quinnipiac River	Active	#016	Active	#016	Weir repaired in 2014 and raised 6 inches in 2022
#019	Pine St @ North Front St	Quinnipiac River	Active	#019	Closed in 2015	#019	Closed in 2015
#020	Quinnipiac Av @ Clifton St	Quinnipiac River	Active	#020	Closed in 2019	#020	Closed in 2019
#021	East St Pump Station	New Haven Harbor	Active	#021	Active	#021	Active
#021 (A)	Chapel/Hamilton	New Haven Harbor	Active	None	Closed prior to 2008	None	Closed prior to 2008
#024	Boulevard Pump Station (Sea St)	New Haven Harbor	Active	#024	Active	#024	Weir raised 1.5 feet in 2017
#025	Union Pump Station (Union & State St)	New Haven Harbor	Active	#025	Active	#025	Weir raised 9.15 feet in 2019
#025 (A)	Elm/University Place	New Haven Harbor	Active	None	Closed prior to 2008	None	Closed prior to 2008
#025 (B)	Grove/Whitney	New Haven Harbor	Active	None	Closed prior to 2008	None	Closed prior to 2008
#026	Humphrey Pump Station	Mill River	Active	#011	Active	#026	Closed in 2019
#027	East/Ives	Mill River	Active	None	Closed prior to 2008	None	Closed prior to 2008
#028	Mitchell Pump Station	Mill River	Active	#012	Closed in 2018	#028	Closed in 2018
#031	S. Frontage/Davenport	New Haven Harbor	Active	None	Closed in 2013	None	Closed in 2013
#032	Port Sea/Liberty	New Haven Harbor	Active	#025	Active	#032	Closed in 2014
#033	Carlisle/Liberty	New Haven Harbor	Active	None	Closed prior to 2008	None	Closed prior to 2008
#034	George/Temple	New Haven Harbor	Active	#025	Active	#034	Closed in 2019
	Greene St	New Haven Harbor	Active	Greene	Closed in 2014	Greene	Closed in 2014
	Middletown/Front	Quinnipiac River	Active	None	Closed prior to 2008	None	Closed prior to 2008
				11	ACTIVE CSOs	11	ACTIVE REGULATORS
(1) NPDES Permit # CT 0100366 dated February 9, 2016							
(2) Ongoing CSO Flow Monitoring Program initiated in June 2012							

METER LOCATION SUMMARY

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER LOCATION SUMMARY
June 20, 2023

ALL ELEVATIONS REFER TO NAVD88 DATUM

METERS OF-003 SEWER AND OF-003 REGULATOR

- Meter OF-003 Sewer was installed in the 72 inch wide by 67 inch high Boulevard Trunk Sewer downstream of Regulator 003 in June 2012 at an invert elevation of 1.34 feet. The new overflow depth in the sewer is 67 inches when the new overflow weir is set at the maximum overflow elevation of 6.51 feet.
- Meter OF-003 Overflow was installed in the 54 inch overflow pipe in June 2012 at an invert elevation of 1.70 feet. This meter was removed in August 2019 during construction of the new regulator as a part of project CWF 2016 -03. The new Meter OF-003 Regulator was installed in the new Regulator 003 structure in January 2020 to measure depth on the sewer side of the new overflow weir (and potentially depth and velocity on the drain side of the new overflow weir in the future). Regulator weir height is 66 inches.
- The old regulator consisted of a 5 foot long transverse weir in the 72 inch wide by 67 inch high Boulevard Trunk Sewer at elevation 5.15 feet. The old regulator weir was removed to an elevation of 3.95 feet to accommodate peak CSO design flows. The new structure was constructed over the 54 inch CSO Outfall 003 and consists of three concrete weirs at the approximate elevation of the old weir (5.18 feet) equipped with guide rails to add up to four 4 inch stop logs each. The new overflow weir has a total length of 12 feet three inches (13.92 feet per CSL) and a maximum overflow elevation of 6.51 feet. The bottom of the roof slab is at elevation 7.26 feet leaving a 9 inch clear opening over the stop logs.
- CSO start and stop times are based on depths on the sewer side of the overflow weir greater than the overflow weir elevation of 66 inches as measured at the new Meter OF-003 Regulator.
- CSO volumes are calculated using the Weir Formula for depths over the weir of up to 9 inches and the Orifice Equation for depths over the weir greater than 9 inches.
- Check the SCADA data to confirm that the Boulevard Pump Station is pumping at maximum flow of 27 to 33 MGD and that the Truman CSO Storage Tank was in service during any CSO events.

METERS OF-004 SEWER AND OF-004 REGULATOR

- Meter OF-004 Sewer was installed in the 72 inch wide by 64 inch high Boulevard Trunk Sewer downstream of Regulator 004 in June 2012 at an invert elevation of 3.00 feet. The new overflow depth in the sewer is 73 inches when the new overflow weir is set at the maximum overflow elevation of 8.71 feet.

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30\2023\Working Documents\230613 Meter Location Summary.docx

- Meter OF-004 Overflow was installed in the 5 foot wide by 3 foot high box culvert overflow in June 2012 at an invert elevation of 3.01 feet. This meter was removed in August 2019 during construction of the new regulator as a part of project CWF 2016 -03. The new Meter OF-004 Regulator was installed in the new Regulator 004 structure in January 2020 to measure depth on the sewer side of the new overflow weir (and potentially depth and velocity on the drain side of the new overflow weir in the future). Regulator weir height is 101 inches.
- The old regulator consisted of three weirs; each two feet wide at an elevation of 5.92 feet. The weirs were raised 8 inches in July 2014 to elevation 6.59 feet. The old regulator weir was removed to an elevation of 5.92 feet to accommodate peak CSO design flows. The new regulator structure was constructed over the 5 foot wide by 3 foot high box culvert CSO 004 Outfall and consists of a concrete weir at the approximate elevation of the old weir (6.71 feet) equipped with guide rails to add up to four 6 inch stop logs. The new overflow weir has a total length of 4 feet (between elevations 6.71 feet and 8.71 feet). Above the maximum overflow elevation of 8.71 feet the total weir length is 8.88 feet. The bottom of the roof slab is at elevation 11.21 feet leaving a 30 inch clear opening over the stop logs.
- CSO start and stop times are based on depths on the sewer side of the overflow weir greater than the overflow weir elevation of 101 inches as measured at the new Meter OF-004 Regulator.
- CSO volumes are calculated using the Weir Formula for depths over the weir of up to 30 inches and the Orifice Equation for depths over the weir greater than 30 inches.
- Check the SCADA data to confirm that the Boulevard Pump Station is pumping at maximum flow of 27 to 33 MGD and that the Truman CSO Storage Tank was in service during any CSO events.

METERS OF-005 SEWER AND OF-005 OVERFLOW

- Meter OF-005 Sewer was installed in the 60 inch wide by 57 inch high Boulevard Trunk Sewer at Regulator 005 in June 2012 at an elevation of 3.85 feet. Overflow depth is 82 inches.
- Meter OF-005 Overflow was installed in the 48 inch overflow pipe in June 2012 at an invert elevation of 7.35 feet (downstream of the 36 inch drain connection).
- Meter OF-005 Overflow was reinstalled in the 48 inch overflow pipe in November 2013 at an invert elevation of 7.35 feet (upstream of the 36 inch drain connection).
- A new brick overflow weir was constructed in the 48 inch overflow pipe upstream of Meter OF-005 Overflow in July 2014 at an elevation of 10.25 feet.
- CSO start and stop times are based on a depth greater than 82 inches at Meter OF-005 Sewer and positive velocities at Meter OF-005 Overflow.
- CSO volumes are calculated based on depths and velocities at Meter OF-005 Overflow, the hydraulic elements chart and the Continuity Equation.
- Check the SCADA data to confirm that the Boulevard Pump Station is pumping at maximum flow of 27 to 33 MGD and that the Truman CSO Storage Tank was in service during any CSO events.

METERS OF-006 SEWER AND OF-006 REGULATOR

- Meter OF-006 Sewer was installed in the 36 inch sewer upstream of the 60 inch wide by 57 inch high Boulevard Trunk Sewer and the two overflow pipes in June 2012 at an invert elevation of 7.20 feet. The new overflow depth in the sewer is 72 inches when the new overflow weir is set at the maximum overflow elevation of 13.02 feet.
- Meters OF-006 Overflows AA and BB were installed in the twin 24 inch overflow pipes in July 2012 at an invert elevation of 9.49 feet, which is equal to the overflow elevation. These meters were removed in August 2019 during construction of the new regulator as a part of project CWF 2016 -03. The new Meter OF-006 Regulator was installed in the new Regulator 006 structure in January 2020 to measure depth on the sewer side of the new overflow weir (and potentially depth and velocity on the drain side of the new overflow weir in the future). Regulator weir height is 42 inches.
- The new Regulator 006 structure was constructed downstream of the two 24 inch overflow pipes and consists of a concrete weir at the approximate elevation of the old weir (9.52 feet) equipped with guide rails to add up to seven 6 inch stop logs. The new overflow weir has a total length of 4 feet (between elevations 9.52 feet and 13.02 feet). Above the maximum overflow elevation of 13.02 feet the total weir length is 5.96 feet. The bottom of the roof slab is at elevation 14.52 feet leaving an 18 inch clear opening over the stop logs.
- CSO start and stop times are based on depths on the sewer side of the overflow weir greater than the overflow weir elevation of 42 inches as measured at the new Meter OF-006 Regulator.
- CSO volumes are calculated using the Weir Formula for depths over the weir of up to 18 inches and the Orifice Equation for depths over the weir greater than 18 inches.
- Check the SCADA data to confirm that the Boulevard Pump Station is pumping at maximum flow of 27 to 33 MGD and that the Truman CSO Storage Tank was in service during any CSO events.

METERS OF-009 SEWER AND OF-009 OVERFLOW

- Meter OF-009 Overflow was installed in the 30 inch wide by 45 inch high overflow pipe in October 2012 at an invert elevation of 2.65 feet.
- The regulator consists of a 5.5 foot long weir at an elevation of 4.65 feet. The weir was rebuilt in January 2013. The overflow was raised 8 inches to elevation 5.32 feet in June 2015. The overflow weir was raised an additional 6 inches to elevation 5.82 feet in April 2022. Regulator weir height is now 38 inches.
- Meter OF-009 Sewer was installed in the 35 inch wide by 52 inch high James Street sewer one manhole upstream of Regulator 009 in July 2015 at an invert elevation of 2.81 feet. The overflow depth is 30 inches.
- CSO start and stop times are based on a depth greater than 30 inches at Meter OF-009 Sewer and positive velocities at Meter OF-009 Overflow.
- CSO volumes are calculated based on depths and velocities at Meter OF-009 Overflow, the hydraulic elements chart and the Continuity Equation.

- There is significant tidal influence at Meter OF-009 Overflow. A new check valve was installed in CSO Outfall 009 in July 2020.
- Check the meter data at Meter OF-015 DS to confirm that the James Street siphon is operating at maximum flow of 24 MGD during any CSO events.

METER OF-010 SEWER

- Meter OF-010 Sewer was installed in the 54 inch East Street sewer at Regulator 010A in September 2012 at an invert elevation of 7.42 feet. The overflow depth to CSO Outfall 011 was 62 inches.
- The regulator was a 114 inch wide weir at elevation 12.62 feet.
- Regulator 010A was closed in March 2020.
- Meter OF-010 Sewer was left in place to measure flows in the East Street sewer upstream of the East Street Pump Station.

METERS OF-011-631 AND OF-011-819

- Four meters were installed in December 2012 to estimate CSOs at Regulator 011.
- Meter OF-011-997 was installed in the 30 inch sewer on State Street upstream of Regulator 011. This meter was removed in September 2013. Metered flows were very consistent and relatively small.
- Meter OF-011-609 was installed in the 25 inch wide by 37 inch high sewer on Humphrey Street upstream of Regulator 011. This meter was removed in September 2013. Metered flows were very consistent and relatively small.
- Meter OF-011-631 was installed in the 66 inch sewer on State Street upstream of Regulator 011.
- Meter OF-011-819 was installed in the 42 inch discharge pipe in Humphrey Street downstream of Regulator 011. The capacity of the 42 inch sewer is approximately 18 to 20 MGD.
- CSO start and stop times at Regulator 011 are estimated by subtracting the flows from the downstream meter (Meter OF-011-819) from the one upstream meter (Meter OF-011-631). Anytime the resultant flow is greater than zero a CSO is occurring.
- CSO volumes from Regulator 011 are estimated using the resultant flows as calculated above.

HUMPHREY STREET PUMP STATION

- Regulator 026 was a 10 inch overflow pipe from the Humphrey Street Pump Station wetwell to CSO Outfall 011.
- CSO Regulator 026 was closed in September 2019 as a part of the Humphrey Street Pump Station upgrade project.

CSO REGULATOR 012 AND CSO OUTFALL 012

- Meters OF-012 Overflows A and B were installed in the twin 18 inch overflow pipes in October 2012 at an invert elevation of 13.05 feet. These meters were removed in September 2014.
- New 6 inch high weirs were installed in each 18 inch overflow pipes in May 2013 at an elevation of 13.65 feet.
- Meter OF-012 Sewer was installed in the 36 inch wide by 55 inch high sewer in Mitchell Drive, three manholes downstream of Regulator 012, at an invert elevation of 9.89 feet. The overflow depth was 36 inches.
- CSO Regulator 012 and CSO Outfall 012 were closed in October 2018 as a part of project CWF 2016-02.

MITCHELL DRIVE PUMP STATION

- Regulator 028 was a 15 inch overflow pipe from the Mitchell Drive Pump Station wetwell to CSO Outfall 012.
- CSO Regulator 028 was closed in October 2018 as a part of the Mitchell Drive Pump Station upgrade project.

METERS OF-015 US AND OF-015 DS

- Meter OF-015 US was installed in the 45 inch James Street sewer upstream of Regulator 015 in October 2012 at an invert elevation of -1.21 feet.
- Meter OF-015 DS was installed in the 48 inch sewer to the James Street siphon inlet works building downstream of Regulator 015 in October 2012 at an invert elevation of -2.15 feet.
- The James Street siphon was designed with a capacity of 24 MGD.
- The regulator consists of a 7 foot long concrete weir at elevation 1.22 feet. The overflow elevation was raised 18 inches to elevation 2.72 feet by installing two sets of three 6 inch stop logs in April 2022. The overflow depth is now 58.5 inches.
- CSO start and stop times are based on depths greater than 58.5 inches at Meter OF-015 DS.
- CSO volumes are calculated by subtracting the Meter 015 DS flows from the Meter 015 US flows.
- A new check valve was installed in the chamber just upstream of CSO Outfall 015 in July 2020 to replace the defective duckbill.
- Check the meter data at Meter OF-015 DS to confirm that the James Street siphon is operating at maximum flow of 24 MGD during any CSO events.

METERS OF-016 SEWER AND OF-016 OVERFLOW DS

- Meter OF-016 Overflow was installed in the 48 inch wide by 60 inch high overflow pipe in Poplar Street in August 2012 at an invert elevation of -0.43 feet. A redundant depth and velocity meter (Meter OF-016 Overflow DS) was installed in the overflow pipe one manhole downstream from Meter OF-016 Overflow in October 2019 at an invert elevation of -0.57 feet. The data from S:\PROJECTS\CONSENT ORDER REPORTING\2-ANNUAL PROGRESS REPORTS - DUE JUNE 30\2023\Working Documents\230613 Meter Location Summary.docx

Meter OF-016 Overflow DS confirmed that the depth and velocity measurements at Meter OF-016 Overflow were being influenced by local hydraulic conditions. Meter OF-016 Overflow was removed in January 2020.

- The regulator consists of a 3.8 foot long brick weir at an elevation of 2.35 feet. The overflow weir was raised 6 inches to elevation 2.85 feet in April 2022. Regulator weir height is now 41 inches.
- Meter OF-016 Sewer was installed in the 54 inch sewer two manholes downstream of Regulator 016 in River Street in July 2017 at an invert elevation of -0.03 feet. The overflow depth is now 34.5 inches.
- CSO start and stop times are based on depths greater than 34.5 inches at Meter OF-016 Sewer and positive velocities at Meter OF-016 Overflow DS.
- CSO volumes are calculated based on depths and velocities at Meter OF-016 Overflow DS, the hydraulic elements chart and the Continuity Equation.
- A new check valve was installed in the chamber just upstream of CSO Outfall 016 in 2018 to replace the defective duckbill.
- Check the meter data at Meter OF-015 DS to confirm that the James Street siphon is operating at maximum flow of 24 MGD during any CSO events.

CSO REGULATOR 020 AND CSO OUTFALL 020

- Meter OF-020 Overflow (depth sensor) was installed in the 15 inch overflow pipe in Clifton Street at Regulator 020 in March 2013 at an invert elevation of 12.90 feet.
- Meter OF-020 Sewer was installed in the 24 inch sewer in Quinnipiac Avenue at Regulator 020 in March 2013 at an invert elevation of 10.45 feet. The overflow depth was 30 inches.
- The regulator was a 15 inch pipe.
- CSO Regulator 020 and CSO Outfall 020 were closed in July 2019 as a part of project CWF 2016-02.

METERS OF-021 AND E ST PS SEWER

- Meter E St PS Sewer was installed in the 62 inch wide by 67 inch high East Street sewer upstream of Regulator 021 in September 2012 at an invert elevation of -0.95 feet. The overflow elevation is 90 inches. To convert the Level (in) measurements to NAVD88 divide by 12 to convert to feet and add -0.95 feet.
- Meter OF-021 was installed in Regulator 021 at the East Street Pump Station in November 2012 at an invert elevation of -2.21 feet. The meter records the depths on the sewer side over the overflow weir. To convert the Weir Level (in) measurements to NAVD88 divide by 12 to convert to feet and add 5.29 feet.
- The regulator is twin 84 inch wide steel plate weirs at elevation 5.29 feet.
- There is a duckbill on the overflow pipe in a chamber just upstream of CSO Outfall 021 that was installed in 2015.

- CSO start and stop times are based on a depth above the overflow weir elevation of 32.5 inches at Regulator 021 as measured by Meter OF-021.
- CSO volumes are calculated based on depths over the twin 84 inch weirs at Regulator 021 using the Weir Formula.
- Check the SCADA data to confirm that the East Street Pump Station is pumping at maximum flow of 40 to 45 MGD during any CSO events.
- Check the SCADA data to confirm that the Union Pump Station is pumping at maximum flow of 20 to 22 MGD during any CSO events.

METERS OF-024 US, OF-024 DS AND OF-024 WEIR WALL

- Meter OF-024 US was installed in the 84 inch wide by 69 inch high Boulevard Trunk Sewer upstream of Regulator 024 in July 2012 at an invert elevation of -2.06 feet. The overflow depth is 85 inches. To convert the Level (in) measurements to NAVD88 divide by 12 to convert to feet and add -2.06 feet.
- Meter OF-024 DS was installed in the 48 inch sewer to the Boulevard Pump Station downstream of Regulator 024 in July 2012 at an invert elevation of -3.19 feet. The overflow depth is 88 inches. To convert the Level (in) measurements to NAVD88 divide by 12 to convert to feet and add -3.19 feet.
- The regulator consists of three weirs each 4.5 feet wide at an elevation of 2.99 feet. The weir elevation was raised 18 inches to elevation 4.49 feet in July 2017.
- Meter OF-024 Weir Wall was installed in Regulator 024 in October 2012 to measure the depth on the sewer side of the weir at Regulator 024. Regulator weir height is 41.5 inches. To convert the Level - Weir (in) measurements to NAVD88 divide by 12 to convert to feet and add 4.49 feet.
- CSO start and stop times are based on depths above the overflow weir elevation of 12 inches as measured at Meter 024 Weir Wall.
- CSO volumes are calculated by subtracting the Meter OF-024 DS flows from the Meter OF-024 US flows.
- A new influent gate was installed at the Boulevard Pump Station in March 2019 to prevent the level in the wetwell from reaching the walkways. When wetwell levels exceed 180 inches the gate starts to close to maintain wetwell levels at 180 inches.
- Check the SCADA data to confirm that the Boulevard Pump Station is pumping at maximum flow of 27 to 33 MGD and that the Truman CSO Storage Tank was in service during any CSO events.

METERS OF-025 STATE, OF-025 FRONTAGE, OF-025 COLUMBUS AND OF-025 REGULATOR

- Meter OF-025 State was installed in the 48 inch wide by 60 inch high sewer on State Street upstream of Regulator 025 in September 2013 at an invert of 3.87 feet. The rim elevation is 15.35 feet. The distance from the rim to the invert is 138 inches.

- Meter OF-025 Frontage was installed in the 30 inch sewer on North Frontage Road upstream of Regulator 025 in September 2013 at an invert of 1.95 feet. The rim elevation is 16.45 feet. The distance from the rim to the invert is 174 inches.
- Meter OF-025 Columbus was installed in the 30 inch sewer on Columbus Avenue upstream of Regulator 025 in November 2013 at an invert of -1.78 feet. The rim elevation is 9.95 feet. The distance from the rim to the invert is 141 inches.
- Meter OF-025 Weir was installed in Regulator 025 in November 2013. This meter was removed in December 2018 during construction of the new regulator as a part of project CWF 2016-05. The new Meter OF-025 Regulator was installed in the new Regulator 025 structure in July 2019 to measure depths on the sewer side and the storm side of the new overflow weir.
- The old regulator was a 45 inch long overflow weir made up of stainless steel plates at an overflow elevation of 5.35 feet. The old regulator weir was removed. The new regulator structure was constructed above the old regulator structure and consists of a concrete weir at 11.91 feet equipped with guide rails to add up to five 6 inch stop logs. The new overflow weir has a total length of 9 feet and a maximum overflow elevation of 14.41 feet. Regulator weir height is 48 inches. The bottom of the roof slab is at elevation 16.66 feet leaving a 27 inch clear opening over the stop logs. To convert the Level – Sewer Side (in) measurements to NAVD88 divide by 12 to convert to feet and add 10.41 feet.
- CSO start and stop times are based on depths on the sewer side of the overflow weir greater than the overflow weir elevation of 48 inches as measured at the new Meter OF-025 Regulator.
- CSO volumes are calculated using the Weir Formula for depths over the weir of up to 27 inches and the Orifice Equation for depths over the weir greater than 27 inches.
- Check the SCADA data to confirm that the Union Pump Station is pumping at maximum flow of 20 to 22 MGD during any CSO events.
- Check the SCADA data to confirm that the East Street Pump Station is pumping at maximum flow of 40 to 45 MGD during any CSO events.

METER REGULATOR 034 – GEORGE

- Meter Regulator 034 - George was installed in the 36 inch wide by 48 inch high sewer on George Street upstream of Regulator 034 in September 2013 at an invert of 11.89 feet. The rim elevation is 20.45 feet. The distance from the rim to the invert is 103 inches. Meter Regulator 034-George was left in place to measure flows in the George Street Sewer upstream of Regulator 025 and the Union Pump Station.
- Meter Regulator 034 - Temple was installed in the 25 inch wide by 37 inch high sewer on Temple Street upstream of Regulator 034 in September 2013 at an invert of 12.52 feet. The rim elevation is 20.95 feet. The distance from the rim to the invert is 102 inches. Meter Regulator 034 – Temple was removed in October 2019.
- Meter Regulator 034 - Weir was installed in Regulator 034 in November 2013. Sensors were metering the depths on each side of the overflow weir. Meter Regulator 034 - Weir was removed in January 2019.

- The overflow weir consisted of wood stop logs, 6.6 feet long, at an overflow elevation of 11.65 feet. The overflow elevation was raised two feet by adding stop logs to elevation 13.65 feet in August 2014.
- CSO Regulator 034 was closed in January 2019 as a part of project CWF 2016-05.

METER GNH1

- Meter GNH1 was installed in the 72 inch wide by 64 inch high Boulevard Trunk Sewer downstream of the Truman Tank Diversion Chamber in June 2012 at an invert elevation of 0.25 feet. The overflow depth is 36 inches.
- The regulator is a 10 foot long bending weir at elevation 3.28 feet.
- The SCADA system measures depths in each cell of the 5 MG tank.
- Truman Tank activation start and stop times are based on a depth greater than 36 inches at Meter GNH1 and SCADA depths in the Truman Tank.
- CSO storage volumes are calculated based on SCADA depths in the Truman Tank. Each foot of depth in each cell equates to 122,500 gallons.

METER DATA

SUMMARY

MAY 2022 - APRIL 2023

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - MAY 2022 THROUGH APRIL 2023

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>	<u>RAINFALL (IN)</u>	<u>METER MONTHS</u>
CSO 006	REG 006	4	0.754	47.63	12
CSO 005	REG 005	4	1.125	47.63	12
CSO 004	REG 004	5	4.634	47.63	12
CSO 003	REG 003	4	5.065	47.63	12
CSO 024	REG 024	6	4.633	47.63	12
CSO 009	REG 009	9	2.083	47.63	12
CSO 016	REG 016	19	6.760	47.63	12
CSO 015	REG 015	12	3.048	47.63	12
CSO 011	REG 011	7	4.000	47.63	12
CSO 025	REG 025	0	0.000	47.63	12
CSO 021	REG 021	12	6.903	47.63	12
TOTAL		82	39.005		

METER DATA

APRIL 2023

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY			
CSO FLOW MONITORING PROGRAM			
METER DATA SUMMARY - APRIL 2023			
<u>MONTHLY RAINFALL SUMMARY</u>			
4.93 inches of rain (3.44 inches of rain in a typical month)			
No snow			
13 rain events (10 rain events in a typical month)			
One 1-year/12-hour event, and one 1-month/24-hour event. All other storms less than 1-month return frequency.			
<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	1	0.063
CSO 005	REG 005	1	0.020
CSO 004	REG 004	1	0.712
CSO 003	REG 003	1	0.611
CSO 024	REG 024	1	0.702
CSO 009	REG 009	1	0.192
CSO 016	REG 016	2	0.964
CSO 015	REG 015	2	0.780
CSO 011	REG 011	1	0.145
CSO 025	REG 025	0	0.000
CSO 021	REG 021	1	0.567
TOTAL		12	4.756

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003
 NPDDES Permit Outfall #: April YEAR: 2023
 MONTH: April
 Average Low Temp: 45.4
 Average High Temp: 61.7
 Measured Rainfall: 4.93
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	RAINFALL EVENT	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/1/2023	5:20	12:40	7.33	0.28	**						
2	4/1/2023	21:00	21:50	0.83	0.07	**						
3	4/5/2023	22:40	22:45	0.08	0.01	**						
4	4/6/2023	1:00	1:05	0.08	0.01	**						
5	4/16/2023	2:15	2:20	0.08	0.01	**						
6	4/17/2023	10:30	10:35	0.08	0.01	**						
7	4/22/2023	21:30	22:30	1.00	0.18	**						
8	4/23/2023	1:40	12:20	10.67	2.13	1 yr / 12hr	4/23/2023	4:15	11:05	6.83	2.145	0.611
9	4/24/2023	12:45	12:50	0.08	0.01	**						
10	4/27/2023	9:45	12:50	3.08	0.19	**						
11	4/29/2023-4/30/23	1:45	0:00	22.25	1.36	1 mo / 24 hr						
12	4/30/2023	1:25	1:30	0.08	0.01	**						
13	4/30/2023	13:20	23:55	10.58	0.66	**						

TOTAL MONTH FLOW VOLUME = 0.611

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yds North of Legion Ave.
 004
 NPDDES Permit Outfall #: April YEAR: 2023
 MONTH: April YEAR: 2023
 Average Low Temp: 45.4
 Average High Temp: 61.7
 Measured Rainfall: 4.93
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/1/2023	5:20	12:40	7.33	0.28	**						
2	4/1/2023	21:00	21:50	0.83	0.07	**						
3	4/5/2023	22:40	22:45	0.08	0.01	**						
4	4/6/2023	1:00	1:05	0.08	0.01	**						
5	4/16/2023	2:15	2:20	0.08	0.01	**						
6	4/17/2023	10:30	10:35	0.08	0.01	**						
7	4/22/2023	21:30	22:30	1.00	0.18	**						
8	4/23/2023	1:40	12:20	10.67	2.13	1 yr / 12hr	4/23/2023	3:45	10:20	6.58	2.595	0.712
9	4/24/2023	12:45	12:50	0.08	0.01	**						
10	4/27/2023	9:45	12:50	3.08	0.19	**						
11	4/29/2023-4/30/23	1:45	0:00	22.25	1.36	1 mo / 24 hr						
12	4/30/2023	1:25	1:30	0.08	0.01	**						
13	4/30/2023	13:20	23:55	10.58	0.66	**						

TOTAL MONTH FLOW VOLUME = 0.712

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: April YEAR: 2023

Average Low Temp: 45.4

Average High Temp: 61.7

Measured Rainfall: 4.93

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/1/2023	5:20	12:40	7.33	0.28	**						
2	4/1/2023	21:00	21:50	0.83	0.07	**						
3	4/5/2023	22:40	22:45	0.08	0.01	**						
4	4/6/2023	1:00	1:05	0.08	0.01	**						
5	4/16/2023	2:15	2:20	0.08	0.01	**						
6	4/17/2023	10:30	10:35	0.08	0.01	**						
7	4/22/2023	21:30	22:30	1.00	0.18	**						
8	4/23/2023	1:40	12:20	10.67	2.13	1 yr / 12hr	4/23/2023	4:00	5:00	1.00	0.485	0.020
9	4/24/2023	12:45	12:50	0.08	0.01	**						
10	4/27/2023	9:45	12:50	3.08	0.19	**						
11	4/29/2023-4/30/23	1:45	0:00	22.25	1.36	1 mo / 24 hr						
12	4/30/2023	1:25	1:30	0.08	0.01	**						
13	4/30/2023	13:20	23:55	10.58	0.66	**						

TOTAL MONTH FLOW VOLUME = 0.020

Note: Overflow occurs when Interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #: April YEAR: 2023
 MONTH: April
 Average Low Temp: 45.4
 Average High Temp: 61.7
 Measured Rainfall: 4.93
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	4/1/2023	5:20	12:40	7.33	0.28	**						
2	4/1/2023	21:00	21:50	0.83	0.07	**						
3	4/5/2023	22:40	22:45	0.08	0.01	**						
4	4/6/2023	1:00	1:05	0.08	0.01	**						
5	4/16/2023	2:15	2:20	0.08	0.01	**						
6	4/17/2023	10:30	10:35	0.08	0.01	**						
7	4/22/2023	21:30	22:30	1.00	0.18	**						
8	4/23/2023	1:40	12:20	10.67	2.13	1 yr / 12hr	4/23/2023	4:20	5:00	0.67	2.277	0.063
9	4/24/2023	12:45	12:50	0.08	0.01	**						
10	4/27/2023	9:45	12:50	3.08	0.19	**						
11	4/29/2023-4/30/23	1:45	0:00	22.25	1.36	1 mo / 24 hr						
12	4/30/2023	1:25	1:30	0.08	0.01	**						
13	4/30/2023	13:20	23:55	10.58	0.66	**						

TOTAL MONTH FLOW VOLUME = 0.063

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Grand Avenue & James Street
 009

NPDES Permit Outfall #: April YEAR: 2023
 MONTH: April YEAR: 2023
 Average Low Temp: 45.4
 Average High Temp: 61.7
 Measured Rainfall: 4.93
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	4/1/2023	5:20	12:40	7.33	0.28	**						
2	4/1/2023	21:00	21:50	0.83	0.07	**						
3	4/5/2023	22:40	22:45	0.08	0.01	**						
4	4/6/2023	1:00	1:05	0.08	0.01	**						
5	4/16/2023	2:15	2:20	0.08	0.01	**						
6	4/17/2023	10:30	10:35	0.08	0.01	**						
7	4/22/2023	21:30	22:30	1.00	0.18	**						
8	4/23/2023	1:40	12:20	10.67	2.13	1 yr / 12hr	4/23/2023	3:55	9:35	5.67	0.811	0.192
9	4/24/2023	12:45	12:50	0.08	0.01	**						
10	4/27/2023	9:45	12:50	3.08	0.19	**						
11	4/29/2023-4/30/23	1:45	0:00	22.25	1.36	1 mo / 24 hr						
12	4/30/2023	1:25	1:30	0.08	0.01	**						
13	4/30/2023	13:20	23:55	10.58	0.66	**						

TOTAL MONTH FLOW VOLUME = 0.192

Note: Overflow occurs when Interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011
 NPDES Permit Outfall #: April YEAR: 2023
 MONTH: April
 Average Low Temp: 45.4
 Average High Temp: 61.7
 Measured Rainfall: 4.93
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	4/1/2023	5:20	12:40	7:33	0.28	**						
2	4/1/2023	21:00	21:50	0:83	0.07	**						
3	4/5/2023	22:40	22:45	0:08	0.01	**						
4	4/6/2023	1:00	1:05	0:08	0.01	**						
5	4/16/2023	2:15	2:20	0:08	0.01	**						
6	4/17/2023	10:30	10:35	0:08	0.01	**						
7	4/22/2023	21:30	22:30	1:00	0.18	**						
8	4/23/2023	1:40	12:20	10:67	2.13	1 yr / 12hr	4/23/2023	4:05	6:10	2.08	1.673	0.145
9	4/24/2023	12:45	12:50	0:08	0.01	**						
10	4/27/2023	9:45	12:50	3:08	0.19	**						
11	4/29/2023-4/30/23	1:45	0:00	22:25	1.36	1 mo / 24 hr						
12	4/30/2023	1:25	1:30	0:08	0.01	**						
13	4/30/2023	13:20	23:55	10:58	0.66	**						

TOTAL MONTH FLOW VOLUME = 0.145

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015
 NPDES Permit Outfall #: April YEAR: 2023
 MONTH: April
 Average Low Temp: 45.4
 Average High Temp: 61.7
 Measured Rainfall: 4.93
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)			
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START		STOP	DURATION (hours)	OUTFALL Qavg (MGD)
1	4/1/2023	5:20	12:40	7.33	0.28	**						
2	4/1/2023	21:00	21:50	0.83	0.07	**						
3	4/5/2023	22:40	22:45	0.08	0.01	**						
4	4/6/2023	1:00	1:05	0.08	0.01	**						
5	4/16/2023	2:15	2:20	0.08	0.01	**						
6	4/17/2023	10:30	10:35	0.08	0.01	**						
7	4/22/2023	21:30	22:30	1.00	0.18	**	4/22/2023	22:05	22:20	0.25	1.636	0.017
8	4/23/2023	1:40	12:20	10.67	2.13	1 yr / 12hr	4/23/2023	4:00	10:45	6.75	2.713	0.763
9	4/24/2023	12:45	12:50	0.08	0.01	**						
10	4/27/2023	9:45	12:50	3.08	0.19	**						
11	4/29/2023-4/30/23	1:45	0:00	22.25	1.36	1 mo / 24 hr						
12	4/30/2023	1:25	1:30	0.08	0.01	**						
13	4/30/2023	13:20	23:55	10.58	0.66	**						

TOTAL MONTH FLOW VOLUME = 0.780

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: April

YEAR: 2023

Average Low Temp: 45.4

Average High Temp: 61.7

Measured Rainfall: 4.93

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)				
1	4/1/2023	5:20	12:40	7.33	0.28	**								
2	4/1/2023	21:00	21:50	0.83	0.07	**								
3	4/5/2023	22:40	22:45	0.08	0.01	**								
4	4/6/2023	1:00	1:05	0.08	0.01	**								
5	4/16/2023	2:15	2:20	0.08	0.01	**								
6	4/17/2023	10:30	10:35	0.08	0.01	**								
7	4/22/2023	21:30	22:30	1.00	0.18	**				4/22/2023	21:25	22:50	1.42	0.065
8	4/23/2023	1:40	12:20	10.67	2.13	1 yr / 12hr				4/23/2023	3:55	10:40	6.75	0.899
9	4/24/2023	12:45	12:50	0.08	0.01	**								
10	4/27/2023	9:45	12:50	3.08	0.19	**								
11	4/29/2023-4/30/23	1:45	0:00	22.25	1.36	1 mo / 24 hr								
12	4/30/2023	1:25	1:30	0.08	0.01	**								
13	4/30/2023	13:20	23:55	10.58	0.66	**								

TOTAL MONTH FLOW VOLUME = 0.964

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 638 Long Wharf Drive
 021
 NPDES Permit Outfall #: April YEAR: 2023
 MONTH: April
 Average Low Temp: 45.4
 Average High Temp: 61.7
 Measured Rainfall: 4.93
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/1/2023	5:20	12:40	7:33	0.28	**						
2	4/1/2023	21:00	21:50	0.83	0.07	**						
3	4/5/2023	22:40	22:45	0.08	0.01	**						
4	4/6/2023	1:00	1:05	0.08	0.01	**						
5	4/16/2023	2:15	2:20	0.08	0.01	**						
6	4/17/2023	10:30	10:35	0.08	0.01	**						
7	4/22/2023	21:30	22:30	1.00	0.18	**						
8	4/23/2023	1:40	12:20	10.67	2.13	1 Yr / 12hr	4/23/2023	3:55	11:05	7.17	1.900	0.567
9	4/24/2023	12:45	12:50	0.08	0.01	**						
10	4/27/2023	9:45	12:50	3.08	0.19	**						
11	4/29/2023-4/30/23	1:45	0:00	22.25	1.36	1 mo / 24 hr						
12	4/30/2023	1:25	1:30	0.08	0.01	**						
13	4/30/2023	13:20	23:55	10.58	0.66	**						

TOTAL MONTH FLOW VOLUME = 0.567

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 MONTH: April YEAR: 2023
 Average Low Temp: 45.4
 Average High Temp: 61.7
 Measured Rainfall: 4.93
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Q. avg (MGD)
1	4/1/2023	5:20	12:40	7.33	0.28**							
2	4/1/2023	21:00	21:50	0.83	0.07**							
3	4/5/2023	22:40	22:45	0.08	0.01**							
4	4/6/2023	1:00	1:05	0.08	0.01**							
5	4/16/2023	2:15	2:20	0.08	0.01**							
6	4/17/2023	10:30	10:35	0.08	0.01**							
7	4/22/2023	21:30	22:30	1.00	0.18**							
8	4/23/2023	1:40	12:20	10.67	2.13 1 yr / 12hr	4/23/2023	4:30	13:20	8.83	1.907	0.702	
9	4/24/2023	12:45	12:50	0.08	0.01**							
10	4/27/2023	9:45	12:50	3.08	0.19**							
11	4/29/2023-4/30/23	1:45	0:00	22.25	1.36 1 mo / 24 hr							
12	4/30/2023	1:25	1:30	0.08	0.01**							
13	4/30/2023	13:20	23:55	10.58	0.66**							

TOTAL MONTH FLOW VOLUME = 0.702

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 NPDES Permit Outfall #: April YEAR: 2023
 MONTH: 45.4
 Average Low Temp: 61.7
 Average High Temp: 4.93
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg volume (MG)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	4/1/2023	5:20	12:40	7.33	0.28	**						
2	4/1/2023	21:00	21:50	0.83	0.07	**						
3	4/5/2023	22:40	22:45	0.08	0.01	**						
4	4/6/2023	1:00	1:05	0.08	0.01	**						
5	4/16/2023	2:15	2:20	0.08	0.01	**						
6	4/17/2023	10:30	10:35	0.08	0.01	**						
7	4/22/2023	21:30	22:30	1.00	0.18	**						
8	4/23/2023	1:40	12:20	10.67	2.13	1 Yr / 12hr						
9	4/24/2023	12:45	12:50	0.08	0.01	**						
10	4/27/2023	9:45	12:50	3.08	0.19	**						
11	4/29/2023-4/30/23	1:45	0:00	22.25	1.36	1 mo / 24 hr						
12	4/30/2023	1:25	1:30	0.08	0.01	**						
13	4/30/2023	13:20	23:55	10.58	0.66	**						

TOTAL MONTH FLOW VOLUME = 0.000

METER DATA

MARCH 2023

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY			
CSO FLOW MONITORING PROGRAM			
METER DATA SUMMARY - MARCH 2023			
<u>MONTHLY RAINFALL SUMMARY</u>			
4.51 inches of rain (3.44 inches of rain in a typical month)			
No snow			
10 rain events (10 rain events in a typical month)			
One 3 month event, and one 1 month event. All other storms less than 1 month return frequency.			
<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	0	0.000
CSO 005	REG 005	0	0.000
CSO 004	REG 004	0	0.000
CSO 003	REG 003	0	0.000
CSO 024	REG 024	0	0.000
CSO 009	REG 009	0	0.000
CSO 016	REG 016	2	0.535
CSO 015	REG 015	1	0.007
CSO 011	REG 011	0	0.000
CSO 025	REG 025	0	0.000
CSO 021	REG 021	0	0.000
TOTAL		3	0.542

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003
 MONTH: March YEAR: 2023
 Average Low Temp: 35.2
 Average High Temp: 50.0
 Measured Rainfall: 4.51
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	RAINFALL EVENT	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/1/2023	7:25	9:40	2.25	0.10	**						
2	3/1/23-3/2/23	22:15	5:45	7.50	0.07	**						
3	3/3/23-3/4/23	21:05	7:10	10.08	0.99	1 month						
4	3/10/23-3/11/23	20:40	7:40	11.00	0.39	**						
5	3/13/23-3/14/23	15:00	22:50	31.83	2.26	3 month						
6	3/18/2023	2:05	2:35	0.50	0.02	**						
7	3/23/2023	13:20	14:05	0.75	0.04	**						
8	3/25/2023	10:25	21:10	10.75	0.37	**						
9	3/27/2023	18:05	22:45	4.67	0.24	**						
10	3/30/2023	2:00	2:35	0.58	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yds North of Legion Ave.
 NPDES Permit Outfall #: 004
 MONTH: March YEAR: 2023
 Average Low Temp: 35.2
 Average High Temp: 50.0
 Measured Rainfall: 4.51
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/1/2023	7:25	9:40	2.25	0.10	**						
2	3/1/23-3/2/23	22:15	5:45	7.50	0.07	**						
3	3/3/23-3/4/23	21:05	7:10	10.08	0.99	1 month						
4	3/10/23-3/11/23	20:40	7:40	11.00	0.39	**						
5	3/13/23-3/14/23	15:00	22:50	31.83	2.26	3 month						
6	3/18/2023	2:05	2:35	0.50	0.02	**						
7	3/23/2023	13:20	14:05	0.75	0.04	**						
8	3/25/2023	10:25	21:10	10.75	0.37	**						
9	3/27/2023	18:05	22:45	4.67	0.24	**						
10	3/30/2023	2:00	2:35	0.58	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: March **YEAR:** 2023

Average Low Temp: 35.2

Average High Temp: 50.0

Measured Rainfall: 4.51

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Cavg Q volume (MGD)	OUTFALL Q volume (MG)
1	3/1/2023	7:25	9:40	2.25	0.1	**						
2	3/1/23-3/2/23	22:15	5:45	7.50	0.07	**						
3	3/3/23-3/4/23	21:05	7:10	10.08	0.99	1 month						
4	3/10/23-3/11/23	20:40	7:40	11.00	0.39	**						
5	3/13/23-3/14/23	15:00	22:50	31.83	2.26	3 month						
6	3/18/2023	2:05	2:35	0.50	0.02	**						
7	3/23/2023	13:20	14:05	0.75	0.04	**						
8	3/25/2023	10:25	21:10	10.75	0.37	**						
9	3/27/2023	18:05	22:45	4.67	0.24	**						
10	3/30/2023	2:00	2:35	0.58	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yrds from Fitch Street
 006
 NPDES Permit Outfall #: March YEAR: 2023
 MONTH: 35.2
 Average Low Temp: 50.0
 Average High Temp: 4.51
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	3/1/2023	7:25	9:40	2:25	0.1	**					
2	3/1/23-3/2/23	22:15	5:45	7:50	0.07	**					
3	3/3/23-3/4/23	21:05	7:10	10:08	0.99	1 month					
4	3/10/23-3/11/23	20:40	7:40	11:00	0.39	**					
5	3/13/23-3/14/23	15:00	22:50	31:83	2.26	3 month					
6	3/18/2023	2:05	2:35	0:50	0.02	**					
7	3/23/2023	13:20	14:05	0:75	0.04	**					
8	3/25/2023	10:25	21:10	10:75	0.37	**					
9	3/27/2023	18:05	22:45	4:67	0.24	**					
10	3/30/2023	2:00	2:35	0:58	0.03	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

MONTH: March YEAR: 2023

Average Low Temp: 35.2

Average High Temp: 50.0

Measured Rainfall: 4.51

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/1/2023	7:25	9:40	2:25	0.1	**						
2	3/1/23-3/2/23	22:15	5:45	7:50	0.07	**						
3	3/3/23-3/4/23	21:05	7:10	10:08	0.99	1 month						
4	3/10/23-3/11/23	20:40	7:40	11:00	0.39	**						
5	3/13/23-3/14/23	15:00	22:50	31:83	2.26	3 month						
6	3/18/2023	2:05	2:35	0:50	0.02	**						
7	3/23/2023	13:20	14:05	0:75	0.04	**						
8	3/25/2023	10:25	21:10	10:75	0.37	**						
9	3/27/2023	18:05	22:45	4:67	0.24	**						
10	3/30/2023	2:00	2:35	0:58	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

March YEAR: 2023

MONTH: March

Average Low Temp: 35.2

Average High Temp: 50.0

Measured Rainfall: 4.51

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT							
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/1/2023	7:25	9:40	2.25	0.1	**						
2	3/1/23-3/2/23	22:15	5:45	7.50	0.07	**						
3	3/3/23-3/4/23	21:05	7:10	10.08	0.99	1 month						
4	3/10/23-3/11/23	20:40	7:40	11.00	0.39	**						
5	3/13/23-3/14/23	15:00	22:50	31.83	2.26	3 month						
6	3/18/2023	2:05	2:35	0.50	0.02	**						
7	3/23/2023	13:20	14:05	0.75	0.04	**						
8	3/25/2023	10:25	21:10	10.75	0.37	**						
9	3/27/2023	18:05	22:45	4.67	0.24	**						
10	3/30/2023	2:00	2:35	0.58	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 15 James Street
 LOCATION: 015
 NPDES Permit Outfall #: March YEAR: 2023
 MONTH: 35.2
 Average Low Temp: 50.0
 Average High Temp: 4.51
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT							
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/1/2023	7:25	9:40	2.25	0.1 **							
2	3/1/23-3/2/23	22:15	5:45	7.50	0.07 **							
3	3/3/23-3/4/23	21:05	7:10	10.08	0.99 1 month							
4	3/10/23-3/11/23	20:40	7:40	11.00	0.39 **							
5	3/13/23-3/14/23	15:00	22:50	31.83	2.26 3 month		3/14/2023	4:15	4:45	0.50	0.001	0.007
6	3/18/2023	2:05	2:35	0.50	0.02 **							
7	3/23/2023	13:20	14:05	0.75	0.04 **							
8	3/25/2023	10:25	21:10	10.75	0.37 **							
9	3/27/2023	18:05	22:45	4.67	0.24 **							
10	3/30/2023	2:00	2:35	0.58	0.03 **							

TOTAL MONTH FLOW VOLUME = 0.007

Expected capacity of siphon is between 24 and 30 M/GD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: March YEAR: 2023

Average Low Temp: 35.2

Average High Temp: 50.0

Measured Rainfall: 4.51

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/1/2023	7:25	9:40	2.25	0.1	**						
2	3/1/23-3/2/23	22:15	5:45	7.50	0.07	**						
3	3/3/23-3/4/23	21:05	7:10	10.08	0.99	1 month	3/4/2023	3:25	4:20	0.92	3.331	0.127
4	3/10/23-3/11/23	20:40	7:40	11.00	0.39	**						
5	3/13/23-3/14/23	15:00	22:50	31.83	2.26	3 month	3/14/2023	1:20	4:55	3.58	2.735	0.408
6	3/18/2023	2:05	2:35	0.50	0.02	**						
7	3/23/2023	13:20	14:05	0.75	0.04	**						
8	3/25/2023	10:25	21:10	10.75	0.37	**						
9	3/27/2023	18:05	22:45	4.67	0.24	**						
10	3/30/2023	2:00	2:35	0.58	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.535

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive

LOCATION: 021

NPDES Permit Outfall #:

MONTH: March YEAR: 2023

Average Low Temp: 35.2

Average High Temp: 50.0

Measured Rainfall: 4.51

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	3/1/2023	7:25	9:40	2:25	0.1	**					
2	3/1/23-3/2/23	22:15	5:45	7:50	0.07	**					
3	3/3/23-3/4/23	21:05	7:10	10:08	0.99	1 month					
4	3/10/23-3/11/23	20:40	7:40	11:00	0.39	**					
5	3/13/23-3/14/23	15:00	22:50	31:83	2.26	3 month					
6	3/18/2023	2:05	2:35	0:50	0.02	**					
7	3/23/2023	13:20	14:05	0:75	0.04	**					
8	3/25/2023	10:25	21:10	10:75	0.37	**					
9	3/27/2023	18:05	22:45	4:67	0.24	**					
10	3/30/2023	2:00	2:35	0:58	0.03	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 MONTH: March YEAR: 2023
 Average Low Temp: 35.2
 Average High Temp: 50.0
 Measured Rainfall: 4.51
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/1/2023	7:25	9:40	2.25	0.1	**						
2	3/1/23-3/2/23	22:15	5:45	7.50	0.07	**						
3	3/3/23-3/4/23	21:05	7:10	10.08	0.99	1 month						
4	3/10/23-3/11/23	20:40	7:40	11.00	0.39	**						
5	3/13/23-3/14/23	15:00	22:50	31.83	2.26	3 month						
6	3/18/2023	2:05	2:35	0.50	0.02	**						
7	3/23/2023	13:20	14:05	0.75	0.04	**						
8	3/25/2023	10:25	21:10	10.75	0.37	**						
9	3/27/2023	18:05	22:45	4.67	0.24	**						
10	3/30/2023	2:00	2:35	0.58	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 MONTH: March YEAR: 2023
 Average Low Temp: 35.2
 Average High Temp: 50.0
 Measured Rainfall: 4.51
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	3/1/2023	7:25	9:40	2.25	0.1	**					
2	3/1/23-3/2/23	22:15	5:45	7.50	0.07	**					
3	3/3/23-3/4/23	21:05	7:10	10.08	0.99	1 month					
4	3/10/23-3/11/23	20:40	7:40	11.00	0.39	**					
5	3/13/23-3/14/23	15:00	22:50	31.83	2.26	3 month					
6	3/18/2023	2:05	2:35	0.50	0.02	**					
7	3/23/2023	13:20	14:05	0.75	0.04	**					
8	3/25/2023	10:25	21:10	10.75	0.37	**					
9	3/27/2023	18:05	22:45	4.67	0.24	**					
10	3/30/2023	2:00	2:35	0.58	0.03	**					

TOTAL MONTH
 FLOW VOLUME = 0.000

METER DATA

FEBRUARY 2023

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY			
CSO FLOW MONITORING PROGRAM			
METER DATA SUMMARY - FEBRUARY 2023			
MONTHLY RAINFALL SUMMARY			
0.91 inches of rain (3.44 inches of rain in a typical month)			
No snow			
10 rain events (10 rain events in a typical month)			
All storms less than 1 month return frequency.			
<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	0	0.000
CSO 005	REG 005	0	0.000
CSO 004	REG 004	0	0.000
CSO 003	REG 003	0	0.000
CSO 024	REG 024	0	0.000
CSO 009	REG 009	0	0.000
CSO 016	REG 016	0	0.000
CSO 015	REG 015	0	0.000
CSO 011	REG 011	0	0.000
CSO 025	REG 025	0	0.000
CSO 021	REG 021	0	0.000
TOTAL		0	0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 NPDES Permit Outfall #: 003
 MONTH: February YEAR: 2023
 Average Low Temp: 28.14
 Average High Temp: 46.36
 Measured Rainfall: 0.91
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)	
		START	STOP	DURATION (hours)	RAINFALL EVENT	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	2/7/2023	21:25	22:45	1.33	0.07	**					
2	2/8/2023	4:25	4:30	0.08	0.01	**					
3	2/16/2023	16:55	17:30	0.58	0.03	**					
4	2/17/2023	8:30	17:00	8.50	0.18	**					
5	2/21/2023	5:35	7:35	2.00	0.07	**					
6	2/21/2023	19:05	19:10	0.08	0.01	**					
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**					
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**					
9	2/26/2023	9:50	9:55	0.08	0.01	**					
10	2/28/2023	15:20	19:50	4.50	0.35	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yds North of Legion Ave.
 NPDES Permit Outfall #: 004
 MONTH: February YEAR: 2023
 Average Low Temp: 28.14
 Average High Temp: 46.36
 Measured Rainfall: 0.91
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/7/2023	21:25	22:45	1.33	0.07	**						
2	2/8/2023	4:25	4:30	0.08	0.01	**						
3	2/16/2023	16:55	17:30	0.58	0.03	**						
4	2/17/2023	8:30	17:00	8.50	0.18	**						
5	2/21/2023	5:35	7:35	2.00	0.07	**						
6	2/21/2023	19:05	19:10	0.08	0.01	**						
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**						
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**						
9	2/26/2023	9:50	9:55	0.08	0.01	**						
10	2/28/2023	15:20	19:50	4.50	0.35	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

Derby Ave. 20 yds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: February YEAR: 2023

Average Low Temp: 28.14

Average High Temp: 46.36

Measured Rainfall: 0.91

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)
1	2/7/2023	21:25	22:45	1.33	0.07	**						
2	2/8/2023	4:25	4:30	0.08	0.01	**						
3	2/16/2023	16:55	17:30	0.58	0.03	**						
4	2/17/2023	8:30	17:00	8.50	0.18	**						
5	2/21/2023	5:35	7:35	2.00	0.07	**						
6	2/21/2023	19:05	19:10	0.08	0.01	**						
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**						
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**						
9	2/26/2023	9:50	9:55	0.08	0.01	**						
10	2/28/2023	15:20	19:50	4.50	0.35	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 NPDES Permit Outfall #: 006
 MONTH: February YEAR: 2023
 Average Low Temp: 28.14
 Average High Temp: 46.36
 Measured Rainfall: 0.91
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)
1	2/7/2023	21:25	22:45	1.33	0.07	**						
2	2/8/2023	4:25	4:30	0.08	0.01	**						
3	2/16/2023	16:55	17:30	0.58	0.03	**						
4	2/17/2023	8:30	17:00	8.50	0.18	**						
5	2/21/2023	5:35	7:35	2.00	0.07	**						
6	2/21/2023	19:05	19:10	0.08	0.01	**						
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**						
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**						
9	2/26/2023	9:50	9:55	0.08	0.01	**						
10	2/28/2023	15:20	19:50	4.50	0.35	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: Grand Avenue & James Street
009

NPDES Permit Outfall #:

MONTH: February YEAR: 2023

Average Low Temp:

28.14

Average High Temp:

46.36

Measured Rainfall:

0.91

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/7/2023	21:25	22:45	1.33	0.07	**						
2	2/8/2023	4:25	4:30	0.08	0.01	**						
3	2/16/2023	16:55	17:30	0.58	0.03	**						
4	2/17/2023	8:30	17:00	8.50	0.18	**						
5	2/21/2023	5:35	7:35	2.00	0.07	**						
6	2/21/2023	19:05	19:10	0.08	0.01	**						
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**						
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**						
9	2/26/2023	9:50	9:55	0.08	0.01	**						
10	2/28/2023	15:20	19:50	4.50	0.35	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

MONTH: February YEAR: 2023

Average Low Temp: 28.14

Average High Temp: 46.36

Measured Rainfall: 0.91

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					OUTFALL Q volume (MG)
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	
1	2/7/2023	21:25	22:45	1.33	0.07	**						
2	2/8/2023	4:25	4:30	0.08	0.01	**						
3	2/16/2023	16:55	17:30	0.58	0.03	**						
4	2/17/2023	8:30	17:00	8.50	0.18	**						
5	2/21/2023	5:35	7:35	2.00	0.07	**						
6	2/21/2023	19:05	19:10	0.08	0.01	**						
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**						
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**						
9	2/26/2023	9:50	9:55	0.08	0.01	**						
10	2/28/2023	15:20	19:50	4.50	0.35	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015
 NPDES Permit Outfall #:
 MONTH: February YEAR: 2023
 Average Low Temp: 28.14
 Average High Temp: 46.36
 Measured Rainfall: 0.91
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/7/2023	21:25	22:45	1.33	0.07	**						
2	2/8/2023	4:25	4:30	0.08	0.01	**						
3	2/16/2023	16:55	17:30	0.58	0.03	**						
4	2/17/2023	8:30	17:00	8.50	0.18	**						
5	2/21/2023	5:35	7:35	2.00	0.07	**						
6	2/21/2023	19:05	19:10	0.08	0.01	**						
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**						
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**						
9	2/26/2023	9:50	9:55	0.08	0.01	**						
10	2/28/2023	15:20	19:50	4.50	0.35	**						

TOTAL MONTH FLOW VOLUME = 0.000

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: February YEAR: 2023

Average Low Temp: 28.14

Average High Temp: 46.36

Measured Rainfall: 0.91

Measured Snowfall: 0

EVENT NO.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/7/2023	21:25	22:45	1.33	0.07	**						
2	2/8/2023	4:25	4:30	0.08	0.01	**						
3	2/16/2023	16:55	17:30	0.58	0.03	**						
4	2/17/2023	8:30	17:00	8.50	0.18	**						
5	2/21/2023	5:35	7:35	2.00	0.07	**						
6	2/21/2023	19:05	19:10	0.08	0.01	**						
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**						
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**						
9	2/26/2023	9:50	9:55	0.08	0.01	**						
10	2/28/2023	15:20	19:50	4.50	0.35	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive

LOCATION: 021

NPDES Permit Outfall #:

MONTH: February YEAR: 2023

Average Low Temp: 28.14

Average High Temp: 46.36

Measured Rainfall: 0.91

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/7/2023	21:25	22:45	1.33	0.07	**						
2	2/8/2023	4:25	4:30	0.08	0.01	**						
3	2/16/2023	16:55	17:30	0.58	0.03	**						
4	2/17/2023	8:30	17:00	8.50	0.18	**						
5	2/21/2023	5:35	7:35	2.00	0.07	**						
6	2/21/2023	19:05	19:10	0.08	0.01	**						
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**						
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**						
9	2/26/2023	9:50	9:55	0.08	0.01	**						
10	2/28/2023	15:20	19:50	4.50	0.35	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 NPDES Permit Outfall #: February YEAR: 2023
 MONTH: 28.14
 Average Low Temp: 46.36
 Average High Temp: 0.91
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q _{avg} (MGD)	OUTFALL Q _{volume} (IMG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	2/7/2023	21:25	22:45	1.33	0.07	**						
2	2/8/2023	4:25	4:30	0.08	0.01	**						
3	2/16/2023	16:55	17:30	0.58	0.03	**						
4	2/17/2023	8:30	17:00	8.50	0.18	**						
5	2/21/2023	5:35	7:35	2.00	0.07	**						
6	2/21/2023	19:05	19:10	0.08	0.01	**						
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**						
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**						
9	2/26/2023	9:50	9:55	0.08	0.01	**						
10	2/28/2023	15:20	19:50	4.50	0.35	**						
TOTAL MONTH										FLOW VOLUME =		0.000

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 NPDES Permit Outfall #: February YEAR: 2023
 MONTH: 28.14
 Average Low Temp: 46.36
 Average High Temp: 0.91
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/7/2023	21:25	22:45	1.33	0.07	**						
2	2/8/2023	4:25	4:30	0.08	0.01	**						
3	2/16/2023	16:55	17:30	0.58	0.03	**						
4	2/17/2023	8:30	17:00	8.50	0.18	**						
5	2/21/2023	5:35	7:35	2.00	0.07	**						
6	2/21/2023	19:05	19:10	0.08	0.01	**						
7	2/22/2023-2/23/23	18:05	9:10	15.08	0.15	**						
8	2/23/23-2/24/2023	23:45	0:50	1.08	0.03	**						
9	2/26/2023	9:50	9:55	0.08	0.01	**						
10	2/28/2023	15:20	19:50	4.50	0.35	**						

TOTAL MONTH FLOW VOLUME = 0.000

METER DATA

JANUARY 2023

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - JANUARY 2023

MONTHLY RAINFALL SUMMARY

5.50 inches of rain (3.44 inches of rain in a typical month)

No snow

12 rain events (10 rain events in a typical month)

One 1 month event. All other storms less than 1 month return frequency.

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	1	0.011
CSO 005	REG 005	1	0.009
CSO 004	REG 004	1	0.377
CSO 003	REG 003	1	0.528
CSO 024	REG 024	1	0.491
CSO 009	REG 009	2	0.025
CSO 016	REG 016	3	1.152
CSO 015	REG 015	2	0.524
CSO 011	REG 011	1	0.188
CSO 025	REG 025	0	0.000
CSO 021	REG 021	2	0.915
TOTAL		15	4.220

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 NPDES Permit Outfall #: 003
 MONTH: January YEAR: 2023
 Average Low Temp: 35.58
 Average High Temp: 47.35
 Measured Rainfall: 5.50
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	RAINFALL EVENT	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	1/1/2023	0:30	0:35	0.08	0.01	**					
2	1/3/2023	7:45	16:15	8.50	0.46	**					
3	1/3/2023-1/4/23	20:55	3:10	6.25	0.06	**					
4	1/4/2023-1/5/23	19:05	2:20	7.25	0.09	**					
5	1/6/2023	3:50	18:30	14.67	0.26	**					
6	1/10/2023	6:50	6:55	0.08	0.01	**					
7	1/12/2023	7:40	21:30	13.83	0.53	**					
8	1/13/2023	1:55	8:35	6.67	0.09	**					
9	1/19/2023	11:55	23:25	11.50	1.23	1 month					
10	1/20/2023	10:35	16:10	5.58	0.10	**					
11	1/22/23-1/23/23	18:00	18:15	24.25	1.06	**					
12	1/25/23-1/26/23	15:00	5:00	14.00	1.58	1 month	1/25/23-1/26/23	22:30	3:10	4.67	2.715

TOTAL MONTH FLOW VOLUME = 0.528

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #:

MONTH: January YEAR: 2023

Average Low Temp: 35.58

Average High Temp: 47.35

Measured Rainfall: 5.50

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2023	0:30	0:35	0:08	0.01	**						
2	1/3/2023	7:45	16:15	8:50	0.46	**						
3	1/3/2023-1/4/23	20:55	3:10	6:25	0.06	**						
4	1/4/2023-1/5/23	19:05	2:20	7:25	0.09	**						
5	1/6/2023	3:50	18:30	14:67	0.26	**						
6	1/10/2023	6:50	6:55	0:08	0.01	**						
7	1/12/2023	7:40	21:30	13:83	0.53	**						
8	1/13/2023	1:55	8:35	6:67	0.09	**						
9	1/19/2023	11:55	23:25	11:50	1.23	1 month						
10	1/20/2023	10:35	16:10	5:58	0.10	**						
11	1/22/23-1/23/23	18:00	18:15	24:25	1.06	**						
12	1/25/23-1/26/23	15:00	5:00	14:00	1.58	1 month	1/25/23-1/26/23	22:30	1:10	2.67	3.389	0.377

TOTAL MONTH FLOW VOLUME = 0.377

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

Derby Ave. 20 yrds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: January YEAR: 2023

Average Low Temp: 35.58

Average High Temp: 47.35

Measured Rainfall: 5.50

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/1/2023	0:30	0:35	0:08	0.01	**						
2	1/3/2023	7:45	16:15	8:50	0.46	**						
3	1/3/2023-1/4/23	20:55	3:10	6:25	0.06	**						
4	1/4/2023-1/5/23	19:05	2:20	7:25	0.09	**						
5	1/6/2023	3:50	18:30	14:67	0.26	**						
6	1/10/2023	6:50	6:55	0:08	0.01	**						
7	1/12/2023	7:40	21:30	13:83	0.53	**						
8	1/13/2023	1:55	8:35	6:67	0.09	**						
9	1/19/2023	11:55	23:25	11:50	1.23	1 month						
10	1/20/2023	10:35	16:10	5:58	0.10	**						
11	1/22/23-1/23/23	18:00	18:15	24:25	1.06	**						
12	1/25/23-1/26/23	15:00	5:00	14:00	1.58	1 month	1/25/2023	22:35	23:50	1.25	0.173	0.009

TOTAL MONTH FLOW VOLUME = 0.009

Note: Overflow occurs when interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #: January YEAR: 2023
 MONTH: 35.58
 Average Low Temp: 47.35
 Average High Temp: 5.50
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL FREQUENCY	START	STOP	DURATION (hours)	DATE				
1	1/1/2023	0:30	0:35	0:08	0.01	**							
2	1/3/2023	7:45	16:15	8:50	0.46	**							
3	1/3/2023-1/4/23	20:55	3:10	6:25	0.06	**							
4	1/4/2023-1/5/23	19:05	2:20	7:25	0.09	**							
5	1/6/2023	3:50	18:30	14:67	0.26	**							
6	1/10/2023	6:50	6:55	0:08	0.01	**							
7	1/12/2023	7:40	21:30	13:83	0.53	**							
8	1/13/2023	1:55	8:35	6:67	0.09	**							
9	1/19/2023	11:55	23:25	11:50	1.23	1 month							
10	1/20/2023	10:35	16:10	5:58	0.10	**							
11	1/22/23-1/23/23	18:00	18:15	24:25	1.06	**							
12	1/25/23-1/26/23	15:00	5:00	14:00	1.58	1 month			22:55	23:15	0.33	0.779	0.011

TOTAL MONTH FLOW VOLUME = 0.011

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

January YEAR: 2023

MONTH:

Average Low Temp: 35.58

Average High Temp: 47.35

Measured Rainfall: 5.50

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	1/1/2023	0:30	0:35	0:08	0.01	**						
2	1/3/2023	7:45	16:15	8:50	0.46	**						
3	1/3/2023-1/4/23	20:55	3:10	6:25	0.06	**						
4	1/4/2023-1/5/23	19:05	2:20	7:25	0.09	**						
5	1/6/2023	3:50	18:30	14:67	0.26	**						
6	1/10/2023	6:50	6:55	0:08	0.01	**						
7	1/12/2023	7:40	21:30	13:83	0.53	**						
8	1/13/2023	1:55	8:35	6:67	0.09	**						
9	1/19/2023	11:55	23:25	11:50	1.23	1 month	1/19/2023	22:25	23:10	0.75	0.269	0.008
10	1/20/2023	10:35	16:10	5:58	0.10	**						
11	1/22/23-1/23/23	18:00	18:15	24:25	1.06	**						
12	1/25/23-1/26/23	15:00	5:00	14:00	1.58	1 month	1/25/23-1/26/23	22:20	0:55	2.58	0.154	0.017

TOTAL MONTH FLOW VOLUME = 0.025

Note: Overflow occurs when interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

MONTH: January YEAR: 2023

Average Low Temp: 35.58

Average High Temp: 47.35

Measured Rainfall: 5.50

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	1/1/2023	0:30	0:35	0:08	0.01	**							
2	1/3/2023	7:45	16:15	8:50	0.46	**							
3	1/3/2023-1/4/23	20:55	3:10	6:25	0.06	**							
4	1/4/2023-1/5/23	19:05	2:20	7:25	0.09	**							
5	1/6/2023	3:50	18:30	14:67	0.26	**							
6	1/10/2023	6:50	6:55	0:08	0.01	**							
7	1/12/2023	7:40	21:30	13:83	0.53	**							
8	1/13/2023	1:55	8:35	6:67	0.09	**							
9	1/19/2023	11:55	23:25	11:50	1.23	1 month							
10	1/20/2023	10:35	16:10	5:58	0.10	**							
11	1/22/23-1/23/23	18:00	18:15	24:25	1.06	**							
12	1/25/23-1/26/23	15:00	5:00	14:00	1.58	1 month	1/25/2023	22:50	23:55	25.08	4.165	0.188	

TOTAL MONTH FLOW VOLUME = 0.188

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 NPDES Permit Outfall #: 015
 MONTH: January YEAR: 2023
 Average Low Temp: 35.58
 Average High Temp: 47.35
 Measured Rainfall: 5.50
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	1/1/2023	0:30	0:35	0:08	0.01	**					
2	1/3/2023	7:45	16:15	8:50	0.46	**					
3	1/3/2023-1/4/23	20:55	3:10	6:25	0.06	**					
4	1/4/2023-1/5/23	19:05	2:20	7:25	0.09	**					
5	1/6/2023	3:50	18:30	14:67	0.26	**					
6	1/10/2023	6:50	6:55	0:08	0.01	**					
7	1/12/2023	7:40	21:30	13:83	0.53	**					
8	1/13/2023	1:55	8:35	6:67	0.09	**					
9	1/19/2023	11:55	23:25	11:50	1.23	1 month	1/19/2023	22:25	23:55		0.678
10	1/20/2023	10:35	16:10	5:58	0.10	**					
11	1/22/23-1/23/23	18:00	18:15	24:25	1.06	**					
12	1/25/23-1/26/23	15:00	5:00	14:00	1.58	1 month	1/25/23-1/26/23	22:05	2:25		2.668

TOTAL MONTH FLOW VOLUME = 0.524

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: January YEAR: 2023

Average Low Temp: 35.58

Average High Temp: 47.35

Measured Rainfall: 5.50

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
1	1/1/2023	0:30	0:35	0:08	0.01	**							
2	1/3/2023	7:45	16:15	8:50	0.46	**							
3	1/3/2023-1/4/23	20:55	3:10	6:25	0.06	**							
4	1/4/2023-1/5/23	19:05	2:20	7:25	0.09	**							
5	1/6/2023	3:50	18:30	14:67	0.26	**							
6	1/10/2023	6:50	6:55	0:08	0.01	**							
7	1/12/2023	7:40	21:30	13:83	0.53	**	1/12/2023	19:35	20:35	1	3.63	0.151	
8	1/13/2023	1:55	8:35	6:67	0.09	**							
9	1/19/2023	11:55	23:25	11:50	1.23	1 month							
10	1/20/2023	10:35	16:10	5:58	0.10	**	1/19/23-1/20/23	22:30	0:05	1.58	5.081	0.335	
11	1/22/23-1/23/23	18:00	18:15	24:25	1.06	**							
12	1/25/23-1/26/23	15:00	5:00	14:00	1.58	1 month	1/25/23-1/26/23	21:50	1:20	3.50	4.564	0.666	

TOTAL MONTH FLOW VOLUME = 1.152

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive

LOCATION: 021

NPDES Permit Outfall #:

MONTH: January YEAR: 2023

Average Low Temp: 35.58

Average High Temp: 47.35

Measured Rainfall: 5.50

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	1/1/2023	0:30	0:35	0:08	0.01	**						
2	1/3/2023	7:45	16:15	8:50	0.46	**						
3	1/3/2023-1/4/23	20:55	3:10	6:25	0.06	**						
4	1/4/2023-1/5/23	19:05	2:20	7:25	0.09	**						
5	1/6/2023	3:50	18:30	14:67	0.26	**						
6	1/10/2023	6:50	6:55	0:08	0.01	**						
7	1/12/2023	7:40	21:30	13:83	0.53	**						
8	1/13/2023	1:55	8:35	6:67	0.09	**						
9	1/19/2023	11:55	23:25	11:50	1.23	1 month	1/19/2023-1/20/23	22:55	0:15	1:33	3.776	0.210
10	1/20/2023	10:35	16:10	5:58	0.10	**						
11	1/22/23-1/23/23	18:00	18:15	24:25	1.06	**						
12	1/25/23-1/26/23	15:00	5:00	14:00	1.58	1 month	1/25/23-1/26/23	22:35	2:45	4.17	4.062	0.705

TOTAL MONTH FLOW VOLUME = 0.915

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024

NPDES Permit Outfall #: 2023
 MONTH: January YEAR: 2023
 Average Low Temp: 35.58
 Average High Temp: 47.35
 Measured Rainfall: 5.50
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	1/1/2023	0:30	0:35	0:08	0.01	**						
2	1/3/2023	7:45	16:15	8:50	0.46	**						
3	1/3/2023-1/4/23	20:55	3:10	6:25	0.06	**						
4	1/4/2023-1/5/23	19:05	2:20	7:25	0.09	**						
5	1/6/2023	3:50	18:30	14:67	0.26	**						
6	1/10/2023	6:50	6:55	0:08	0.01	**						
7	1/12/2023	7:40	21:30	13:83	0.53	**						
8	1/13/2023	1:55	8:35	6:67	0.09	**						
9	1/19/2023	11:55	23:25	11:50	1.23	1 month						
10	1/20/2023	10:35	16:10	5:58	0.10	**						
11	1/22/23-1/23/23	18:00	18:15	24:25	1.06	**						
12	1/25/23-1/26/23	15:00	5:00	14:00	1.58	1 month	1/25/23-1/26/23	23:25	3:50	4:42	0.009	0.491

TOTAL MONTH FLOW VOLUME = 0.491

Note: Overflow occurs when interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #: January YEAR: 2023
MONTH: 35.58
 Average Low Temp: 47.35
 Average High Temp: 5.50
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	1/1/2023	0:30	0:35	0.08	0.01	**						
2	1/3/2023	7:45	16:15	8.50	0.46	**						
3	1/3/2023-1/4/23	20:55	3:10	6.25	0.06	**						
4	1/4/2023-1/5/23	19:05	2:20	7.25	0.09	**						
5	1/6/2023	3:50	18:35	14.75	0.27	**						
6	1/10/2023	6:50	6:55	0.08	0.01	**						
7	1/12/2023	7:40	21:30	13.83	0.53	**						
8	1/13/2023	1:55	8:40	6.75	0.10	**						
9	1/19/2023	11:55	23:25	11.50	1.23	1 month						
10	1/20/2023	10:35	16:10	5.58	0.10	**						
11	1/22/23-1/23/23	18:00	18:15	24.25	1.06	**						
12	1/25/23-1/26/23	15:00	5:00	14.00	1.58	1 month						

TOTAL MONTH FLOW VOLUME = 0.000

METER DATA

DECEMBER 2022

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY		
CSO FLOW MONITORING PROGRAM		
METER DATA SUMMARY - DECEMBER 2022		
MONTHLY RAINFALL SUMMARY		
4.70 inches of rain (3.44 inches of rain in a typical month)		
No snow		
8 rain events (10 rain events in a typical month)		
One 1 month event. All other storms less than 1 month return frequency.		
<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>
		<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	0
CSO 005	REG 005	0
CSO 004	REG 004	0
CSO 003	REG 003	0
CSO 024	REG 024	0
CSO 009	REG 009	0
CSO 016	REG 016	1
CSO 015	REG 015	0
CSO 011	REG 011	0
CSO 025	REG 025	0
CSO 021	REG 021	1
TOTAL		2
		0.530

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 NPDES Permit Outfall #: 003
 MONTH: December YEAR: 2022
 Average Low Temp: 30.6
 Average High Temp: 45.5
 Measured Rainfall: 4.70
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	RAINFALL EVENT	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	12/3/2022	8:40	14:25	5.75	0.45	**					
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75	1 month					
3	12/12/2022	10:15	11:05	0.83	0.11	**					
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97	**					
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10	**					
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74	**					
7	12/23/2022	10:05	16:20	6.25	0.11	**					
8	12/31/2022	7:40	23:05	15.42	0.43	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004

NPDES Permit Outfall #:

MONTH: December **YEAR:** 2022

Average Low Temp: 30.6

Average High Temp: 45.5

Measured Rainfall: 4.70

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	12/3/2022	8:40	14:25	5.75	0.45	**					
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75	1 month					
3	12/12/2022	10:15	11:05	0.83	0.11	**					
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97	**					
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10	**					
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74	**					
7	12/23/2022	10:05	16:20	6.25	0.11	**					
8	12/31/2022	7:40	23:05	15.42	0.43	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.
 LOCATION: 005
 NPDES Permit Outfall #: December YEAR: 2022
 MONTH: 30.6
 Average Low Temp: 45.5
 Average High Temp: 4.70
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/3/2022	8:40	14:25	5.75	0.45	**						
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75	1 month						
3	12/12/2022	10:15	11:05	0.83	0.11	**						
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97	**						
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10	**						
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74	**						
7	12/23/2022	10:05	16:20	6.25	0.11	**						
8	12/31/2022	7:40	23:05	15.42	0.43	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 NPDES Permit Outfall #: 006
 MONTH: December YEAR: 2022
 Average Low Temp: 30.6
 Average High Temp: 45.5
 Measured Rainfall: 4.70
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/3/2022	8:40	14:25	5.75	0.45	**						
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75	1 month						
3	12/12/2022	10:15	11:05	0.83	0.11	**						
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97	**						
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10	**						
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74	**						
7	12/23/2022	10:05	16:20	6.25	0.11	**						
8	12/31/2022	7:40	23:05	15.42	0.43	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

MONTH: December YEAR: 2022

Average Low Temp: 30.6

Average High Temp: 45.5

Measured Rainfall: 4.70

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	12/3/2022	8:40	14:25	5.75	0.45	**						
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75	1 month						
3	12/12/2022	10:15	11:05	0.83	0.11	**						
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97	**						
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10	**						
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74	**						
7	12/23/2022	10:05	16:20	6.25	0.11	**						
8	12/31/2022	7:40	23:05	15.42	0.43	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

MONTH: December YEAR: 2022

Average Low Temp: 30.6

Average High Temp: 45.5

Measured Rainfall: 4.70

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	12/3/2022	8:40	14:25	5.75	0.45	**					
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75	1 month					
3	12/12/2022	10:15	11:05	0.83	0.11	**					
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97	**					
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10	**					
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74	**					
7	12/23/2022	10:05	16:20	6.25	0.11	**					
8	12/31/2022	7:40	23:05	15.42	0.43	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 NPDES Permit Outfall #: 015
 MONTH: December YEAR: 2022
 Average Low Temp: 30.6
 Average High Temp: 45.5
 Measured Rainfall: 4.70
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q.volum (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	12/3/2022	8:40	14:25	5.75	0.45 **						
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75 1. month						
3	12/12/2022	10:15	11:05	0.83	0.11 **						
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97 **						
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10 **						
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74 **						
7	12/23/2022	10:05	16:20	6.25	0.11 **						
8	12/31/2022	7:40	23:05	15.42	0.43 **						

TOTAL MONTH FLOW VOLUME = 0.000

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: December YEAR: 2022

Average Low Temp: 30.6

Average High Temp: 45.5

Measured Rainfall: 4.70

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	12/3/2022	8:40	14:25	5.75	0.45	**						
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75	1 month						
3	12/12/2022	10:15	11:05	0.83	0.11	**						
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97	**						
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10	**						
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74	**						
7	12/23/2022	10:05	16:20	6.25	0.11	**						
8	12/31/2022	7:40	23:05	15.42	0.43	**						
											TOTAL MONTH FLOW VOLUME =	0.527

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive

LOCATION: 021

NPDES Permit Outfall #:

MONTH: December YEAR: 2022

Average Low Temp: 30.6

Average High Temp: 45.5

Measured Rainfall: 4.70

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)			
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)	
1	12/3/2022	8:40	14:25	5.75	0.45	**							
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75	1 month	12/7/2022	3:40	4:05	0.42	0.184	0.003	
3	12/12/2022	10:15	11:05	0.83	0.11	**							
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97	**							
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10	**							
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74	**							
7	12/23/2022	10:05	16:20	6.25	0.11	**							
8	12/31/2022	7:40	23:05	15.42	0.43	**							

TOTAL MONTH FLOW VOLUME = 0.003

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 NPDES Permit Outfall #:
 MONTH: December YEAR: 2022
 Average Low Temp: 30.6
 Average High Temp: 45.5
 Measured Rainfall: 4.70
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	12/3/2022	8:40	14:25	5.75	0.45	**					
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75	1 month					
3	12/12/2022	10:15	11:05	0.83	0.11	**					
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97	**					
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10	**					
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74	**					
7	12/23/2022	10:05	16:20	6.25	0.11	**					
8	12/31/2022	7:40	23:05	15.42	0.43	**					
TOTAL MONTH										FLOW VOLUME =	0.000

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 NPDES Permit Outfall #: 2022
 MONTH: December
 Average Low Temp: 30.6
 Average High Temp: 45.5
 Measured Rainfall: 4.70
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	START	STOP	DURATION (hours)		OUTFALL Qavg (MGD)
1	12/3/2022	8:40	14:25	5.75	0.45	**					
2	12/6/2022-12/7/2022	15:20	20:40	29.33	1.75	1 month					
3	12/12/2022	10:15	11:05	0.83	0.11	**					
4	12/15/2022-12/16/2022	21:05	13:35	16.50	0.97	**					
5	12/16/2022-12/17/2022	19:00	1:45	6.75	0.10	**					
6	12/22/2022-12/23/2022	14:50	6:15	15.42	0.74	**					
7	12/23/2022	10:05	16:20	6.25	0.11	**					
8	12/31/2022	7:40	23:05	15.42	0.43	**					

TOTAL MONTH
 FLOW VOLUME = 0.000

METER DATA

NOVEMBER 2022

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY		
CSO FLOW MONITORING PROGRAM		
METER DATA SUMMARY - NOVEMBER 2022		
MONTHLY RAINFALL SUMMARY		
2.95 inches of rain (3.44 inches of rain in a typical month)		
No snow		
8 rain events (10 rain events in a typical month)		
One 1 month event. All other storms less than 1 month return frequency.		
<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>
		<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	0
CSO 005	REG 005	0
CSO 004	REG 004	1
CSO 003	REG 003	0
CSO 024	REG 024	1
CSO 009	REG 009	1
CSO 016	REG 016	1
CSO 015	REG 015	1
CSO 011	REG 011	0
CSO 025	REG 025	0
CSO 021	REG 021	1
TOTAL		6
		1.512

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 NPDES Permit Outfall #: 003
 MONTH: November YEAR: 2022
 Average Low Temp: 40.8
 Average High Temp: 57.7
 Measured Rainfall: 2.95
 Measured Snowfall: 0.00

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	RAINFALL EVENT	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	11/1/2022	1:35	5:30	3.92	0.16	**					
2	11/11/2022	13:45	20:40	6.92	0.76	1 month					
3	11/12/2022	4:25	8:30	4.08	0.06	**					
4	11/13/2022	4:45	10:55	6.17	0.16	**					
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56	**					
6	11/25/2022	10:35	12:00	1.42	0.03	**					
7	11/27/2022	14:30	21:40	7.17	0.71	**					
8	11/30/2022	12:00	18:45	6.75	0.51	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yards North of Legion Ave.
 NPDES Permit Outfall #: 004
 MONTH: November YEAR: 2022
 Average Low Temp: 40.8
 Average High Temp: 57.7
 Measured Rainfall: 2.95
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2022	1:35	5:30	3.92	0.16 **		11/11/2022	18:55	19:05	0.17	0.953	0.007
2	11/11/2022	13:45	20:40	6.92	0.76 1 month							
3	11/12/2022	4:25	8:30	4.08	0.06 **							
4	11/13/2022	4:45	10:55	6.17	0.16 **							
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56 **							
6	11/25/2022	10:35	12:00	1.42	0.03 **							
7	11/27/2022	14:30	21:40	7.17	0.71 **							
8	11/30/2022	12:00	18:45	6.75	0.51 **							

TOTAL MONTH FLOW VOLUME = 0.007

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.
 LOCATION: 005
 NPDES Permit Outfall #: November YEAR: 2022
 MONTH: 40.8
 Average Low Temp: 57.7
 Average High Temp: 2.95
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	11/1/2022	1:35	5:30	3.92	0.16 **						
2	11/11/2022	13:45	20:40	6.92	0.76 1 month						
3	11/12/2022	4:25	8:30	4.08	0.06 **						
4	11/13/2022	4:45	10:55	6.17	0.16 **						
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56 **						
6	11/25/2022	10:35	12:00	1.42	0.03 **						
7	11/27/2022	14:30	21:40	7.17	0.71 **						
8	11/30/2022	12:00	18:45	6.75	0.51 **						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #:
 MONTH: November YEAR: 2022
 Average Low Temp: 40.8
 Average High Temp: 57.7
 Measured Rainfall: 2.95
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2022	1:35	5:30	3.92	0.16	**						
2	11/11/2022	13:45	20:40	6.92	0.76	1 month						
3	11/12/2022	4:25	8:30	4.08	0.06	**						
4	11/13/2022	4:45	10:55	6.17	0.16	**						
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56	**						
6	11/25/2022	10:35	12:00	1.42	0.03	**						
7	11/27/2022	14:30	21:40	7.17	0.71	**						
8	11/30/2022	12:00	18:45	6.75	0.51	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

MONTH: November YEAR: 2022

Average Low Temp: 40.8

Average High Temp: 57.7

Measured Rainfall: 2.95

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2022	1:35	5:30	3.92	0.16	**						
2	11/11/2022	13:45	20:40	6.92	0.76	1 month	11/11/2022	18:55	19:20	0.42	0.313	0.005
3	11/12/2022	4:25	8:30	4.08	0.06	**						
4	11/13/2022	4:45	10:55	6.17	0.16	**						
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56	**						
6	11/25/2022	10:35	12:00	1.42	0.03	**						
7	11/27/2022	14:30	21:40	7.17	0.71	**						
8	11/30/2022	12:00	18:45	6.75	0.51	**						
TOTAL MONTH											FLOW VOLUME =	0.005

Note: Overflow occurs when Interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

MONTH: November

Average Low Temp: 40.8

Average High Temp: 57.7

Measured Rainfall: 2.95

Measured Snowfall: 0

YEAR: 2022

EVENT NO.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	11/1/2022	1:35	5:30	3.92	0.16	**					
2	11/11/2022	13:45	20:40	6.92	0.76	1 month					
3	11/12/2022	4:25	8:30	4.08	0.06	**					
4	11/13/2022	4:45	10:55	6.17	0.16	**					
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56	**					
6	11/25/2022	10:35	12:00	1.42	0.03	**					
7	11/27/2022	14:30	21:40	7.17	0.71	**					
8	11/30/2022	12:00	18:45	6.75	0.51	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Int. River & Poplar 016
 NPDES Permit Outfall #: November YEAR: 2022
 MONTH: 40.8
 Average Low Temp: 57.7
 Average High Temp: 2.95
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	11/1/2022	1:35	5:30	3.92	0.16 **		11/11/2022	18:05	19:55	1.83	3.594	0.275
2	11/11/2022	13:45	20:40	6.92	0.76 1 month							
3	11/12/2022	4:25	8:30	4.08	0.06 **							
4	11/13/2022	4:45	10:55	6.17	0.16 **							
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56 **							
6	11/25/2022	10:35	12:00	1.42	0.03 **							
7	11/27/2022	14:30	21:40	7.17	0.71 **							
8	11/30/2022	12:00	18:45	6.75	0.51 **							

TOTAL MONTH FLOW VOLUME = 0.275

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015
 NPDES Permit Outfall #:
 MONTH: November YEAR: 2022
 Average Low Temp: 40.8
 Average High Temp: 57.7
 Measured Rainfall: 2.95
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT							
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2022	1:35	5:30	3.92	0.16	**						
2	11/11/2022	13:45	20:40	6.92	0.76	1 month	11/11/2022	18:45	19:35	0.83	1.377	0.048
3	11/12/2022	4:25	8:30	4.08	0.06	**						
4	11/13/2022	4:45	10:55	6.17	0.16	**						
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56	**						
6	11/25/2022	10:35	12:00	1.42	0.03	**						
7	11/27/2022	14:30	21:40	7.17	0.71	**						
8	11/30/2022	12:00	18:45	6.75	0.51	**						

TOTAL MONTH FLOW VOLUME = 0.048

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 638 Long Wharf Drive
 NPDES Permit Outfall #: 021
 MONTH: November YEAR: 2022
 Average Low Temp: 40.8
 Average High Temp: 57.7
 Measured Rainfall: 2.95
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	11/1/2022	1:35	5:30	3.92	0.16	**						
2	11/11/2022	13:45	20:40	6.92	0.76	1 month	11/11/2022	18:45	20:40	1.92	10.471	0.836
3	11/12/2022	4:25	8:30	4.08	0.06	**						
4	11/13/2022	4:45	10:55	6.17	0.16	**						
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56	**						
6	11/25/2022	10:35	12:00	1.42	0.03	**						
7	11/27/2022	14:30	21:40	7.17	0.71	**						
8	11/30/2022	12:00	18:45	6.75	0.51	**						

TOTAL MONTH FLOW VOLUME = 0.836

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 NPDES Permit Outfall #: 2022
 MONTH: November YEAR: 2022
 Average Low Temp: 40.8
 Average High Temp: 57.7
 Measured Rainfall: 2.95
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2022	1:35	5:30	3.92	0.16	**						
2	11/11/2022	13:45	20:40	6.92	0.76	1 month		18:40	23:05	4.42	1.854	0.341
3	11/12/2022	4:25	8:30	4.08	0.06	**						
4	11/13/2022	4:45	10:55	6.17	0.16	**						
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56	**						
6	11/25/2022	10:35	12:00	1.42	0.03	**						
7	11/27/2022	14:30	21:40	7.17	0.71	**						
8	11/30/2022	12:00	18:45	6.75	0.51	**						

TOTAL MONTH FLOW VOLUME = 0.341

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 NPDES Permit Outfall #:
 MONTH: November YEAR: 2022
 Average Low Temp: 40.8
 Average High Temp: 57.7
 Measured Rainfall: 2.95
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	11/1/2022	1:35	5:30	3.92	0.16	**					
2	11/11/2022	13:45	20:40	6.92	0.76	1 month					
3	11/12/2022	4:25	8:30	4.08	0.06	**					
4	11/13/2022	4:45	10:55	6.17	0.16	**					
5	11/15/2022 - 11/16/2022	19:30	9:25	13.92	0.56	**					
6	11/25/2022	10:35	12:00	1.42	0.03	**					
7	11/27/2022	14:30	21:40	7.17	0.71	**					
8	11/30/2022	12:00	18:45	6.75	0.51	**					

TOTAL MONTH
FLOW VOLUME = 0.000

METER DATA

OCTOBER 2022

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY			
CSO FLOW MONITORING PROGRAM			
METER DATA SUMMARY - OCTOBER 2022			
MONTHLY RAINFALL SUMMARY			
3.89 inches of rain (3.44 inches of rain in a typical month)			
No snow			
8 rain events (10 rain events in a typical month)			
One 1 month event. All other storms less than 1 month return frequency.			
<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	0	0.000
CSO 005	REG 005	0	0.000
CSO 004	REG 004	0	0.000
CSO 003	REG 003	0	0.000
CSO 024	REG 024	1	0.856
CSO 009	REG 009	1	0.002
CSO 016	REG 016	1	0.462
CSO 015	REG 015	1	0.120
CSO 011	REG 011	2	0.283
CSO 025	REG 025	0	0.000
CSO 021	REG 021	1	0.729
TOTAL		7	2.452

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003
 NPDES Permit Outfall #: 2022
 MONTH: October YEAR: 2022
 Average Low Temp: 48.32
 Average High Temp: 64.35
 Measured Rainfall: 3.89
 Measured Snowfall: 0.00

EVENT NO.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	RAINFALL EVENT	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	10/1/2022	6:00	10:35	4.58	0.32	**					
2	10/3/2022	18:05	19:15	1.17	0.04	**					
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04	**					
4	10/8/2022	5:05	5:15	0.17	0.02	**					
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72	**					
6	10/17/2022	10:00	11:25	1.42	0.07	**					
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67	1 month					
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yards North of Legion Ave.
 NPDES Permit Outfall #: 004
 MONTH: October YEAR: 2022
 Average Low Temp: 48.32
 Average High Temp: 64.35
 Measured Rainfall: 3.89
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2022	6:00	10:35	4.58	0.32	**						
2	10/3/2022	18:05	19:15	1.17	0.04	**						
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04	**						
4	10/8/2022	5:05	5:15	0.17	0.02	**						
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72	**						
6	10/17/2022	10:00	11:25	1.42	0.07	**						
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67	1 month						
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.
 LOCATION: 005
 NPDES Permit Outfall #: October YEAR: 2022
 MONTH: 48.32
 Average Low Temp: 64.35
 Average High Temp: 3.89
 Measured Rainfall: 0
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2022	6:00	10:35	4.58	0.32	**						
2	10/3/2022	18:05	19:15	1.17	0.04	**						
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04	**						
4	10/8/2022	5:05	5:15	0.17	0.02	**						
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72	**						
6	10/17/2022	10:00	11:25	1.42	0.07	**						
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67	1 month						
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03	**						
TOTAL MONTH											FLOW VOLUME =	0.000

Note: Overflow occurs when Interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #: October YEAR: 2022
 MONTH: 48.32
 Average Low Temp: 64.35
 Average High Temp: 3.89
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	10/1/2022	6:00	10:35	4.58	0.32	**					
2	10/3/2022	18:05	19:15	1.17	0.04	**					
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04	**					
4	10/8/2022	5:05	5:15	0.17	0.02	**					
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72	**					
6	10/17/2022	10:00	11:25	1.42	0.07	**					
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67	1 month					
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Grand Avenue & James Street
 009
 NPDES Permit Outfall #: 009
 MONTH: October YEAR: 2022
 Average Low Temp: 48.32
 Average High Temp: 64.35
 Measured Rainfall: 3.89
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2022	6:00	10:35	4.58	0.32	**						
2	10/3/2022	18:05	19:15	1.17	0.04	**						
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04	**						
4	10/8/2022	5:05	5:15	0.17	0.02	**						
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72	**						
6	10/17/2022	10:00	11:25	1.42	0.07	**						
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67	1 month	10/24/2022	11:25	12:25	1.00	0.059	0.002
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.002

Note: Overflow occurs when Interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011
 NPDES Permit Outfall #: October 2022
 MONTH: 48.32
 Average Low Temp: 64.35
 Average High Temp: 3.89
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2022	6:00	10:35	4.58	0.32	**						
2	10/3/2022	18:05	19:15	1.17	0.04	**						
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04	**						
4	10/8/2022	5:05	5:15	0.17	0.02	**						
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72	**						
6	10/17/2022	10:00	11:25	1.42	0.07	**						
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67	1 month	10/24/2022	8:10	8:55	0.75	4.758	0.149
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03	**	10/24/2022	11:35	12:20	0.75	4.291	0.134

TOTAL MONTH
 FLOW VOLUME = 0.283

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Int. River & Poplar 016
 NPDES Permit Outfall #: October 2022
 MONTH: October 2022
 Average Low Temp: 48.32
 Average High Temp: 64.35
 Measured Rainfall: 3.89
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2022	6:00	10:35	4.58	0.32 **							
2	10/3/2022	18:05	19:15	1.17	0.04 **							
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04 **							
4	10/8/2022	5:05	5:15	0.17	0.02 **							
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72 **							
6	10/17/2022	10:00	11:25	1.42	0.07 **							
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67 1 month	10/24/2022	11:25	12:55	1.50	7.398	0.462	
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03 **							

TOTAL MONTH FLOW VOLUME = 0.462

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015
 NPDES Permit Outfall #: October YEAR: 2022
 MONTH: 48.32
 Average Low Temp: 64.35
 Average High Temp: 3.89
 Measured Rainfall: 0
 Measured Snowfall:

EVENT No.	RAINFALL EVENT				CSO EVENT							
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2022	6:00	10:35	4.58	0.32	**						
2	10/3/2022	18:05	19:15	1.17	0.04	**						
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04	**						
4	10/8/2022	5:05	5:15	0.17	0.02	**						
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72	**						
6	10/17/2022	10:00	11:25	1.42	0.07	**						
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67	1 month	10/24/2022	11:20	12:55	1.58	1.815	0.120
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03	**						
TOTAL MONTH											FLOW VOLUME =	0.120

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive

LOCATION: 021

NPDES Permit Outfall #:

MONTH: October YEAR: 2022

Average Low Temp: 48.32

Average High Temp: 64.35

Measured Rainfall: 3.89

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	10/1/2022	6:00	10:35	4.58	0.32	**						
2	10/3/2022	18:05	19:15	1.17	0.04	**						
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04	**						
4	10/8/2022	5:05	5:15	0.17	0.02	**						
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72	**						
6	10/17/2022	10:00	11:25	1.42	0.07	**						
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67	1 month	10/24/2022	8:35	13:10	4.58	3.817	0.729
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.729

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 NPDES Permit Outfall #: 024
 MONTH: October YEAR: 2022
 Average Low Temp: 48.32
 Average High Temp: 64.35
 Measured Rainfall: 3.89
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	10/1/2022	6:00	10:35	4.58	0.32	**						
2	10/3/2022	18:05	19:15	1.17	0.04	**						
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04	**						
4	10/8/2022	5:05	5:15	0.17	0.02	**						
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72	**						
6	10/17/2022	10:00	11:25	1.42	0.07	**						
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67	1 month	10/24/2022	9:05	15:55	6.83	3.008	0.856
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03	**						

TOTAL MONTH FLOW VOLUME = 0.856

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 NPDDES Permit Outfall #: 025
 MONTH: October YEAR: 2022
 Average Low Temp: 48.32
 Average High Temp: 64.35
 Measured Rainfall: 3.89
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg volume (MG)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP				DURATION (hours)
1	10/1/2022	6:00	10:35	4.58	0.32	**							
2	10/3/2022	18:05	19:15	1.17	0.04	**							
3	10/4/2022 - 10/5/2022	12:50	23:15	34.42	0.04	**							
4	10/8/2022	5:05	5:15	0.17	0.02	**							
5	10/13/2022 - 10/14/2022	17:45	5:40	11.92	0.72	**							
6	10/17/2022	10:00	11:25	1.42	0.07	**							
7	10/23/2022 - 10/24/2022	14:20	0:10	9.83	1.67	1 month							
8	10/25/2022 - 10/26/2022	22:00	6:50	8.83	0.03	**							

TOTAL MONTH FLOW VOLUME = 0.000

METER DATA

SEPTEMBER 2022

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY			
CSO FLOW MONITORING PROGRAM			
METER DATA SUMMARY - SEPTEMBER 2022			
<u>MONTHLY RAINFALL SUMMARY</u>			
6.4 inches of rain (3.44 inches of rain in a typical month)			
No snow			
7 rain events (10 rain events in a typical month)			
One 5-10 Year storm, and one 1 month event. All other storms less than 1 month return frequency.			
<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	1	0.164
CSO 005	REG 005	1	0.430
CSO 004	REG 004	1	2.922
CSO 003	REG 003	1	3.709
CSO 024	REG 024	1	1.923
CSO 009	REG 009	2	1.844
CSO 016	REG 016	4	2.026
CSO 015	REG 015	3	1.199
CSO 011	REG 011	1	2.894
CSO 025	REG 025	0	
CSO 021	REG 021	3	3.290
TOTAL		18	20.401

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 Orange Ave. @ Int. of Ella T. Grasso Blvd.
 LOCATION: 003
 NPDES Permit Outfall #: 2022
 MONTH: September
 Average Low Temp: 60.63
 Average High Temp: 76.67
 Measured Rainfall: 6.36
 Measured Snowfall: 0.00

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	INFALL EVE	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	9/4/2022	19:35	19:55	0.33	0.02	**	9/6/2022	4:35	13:00	8.42	10.576	3.709
2	9/5/2022 - 9/6/2022	18:50	19:50	25.00	4.07	5 year						
3	9/12/2022	3:05	5:50	2.75	0.11	**						
4	9/13/2022	4:30	10:45	6.25	0.68	**						
5	9/19/2022	18:45	19:10	0.42	0.24	**						
6	9/22/2022	8:15	15:10	6.92	1.04	1 month						
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20	**						

TOTAL MONTH FLOW VOLUME = 3.709

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 Eila T. Grasso Blvd. - 23 yds North of Legion Ave.
 004

LOCATION:

NPDES Permit Outfall #:

MONTH:

Average Low Temp:

Average High Temp:

Measured Rainfall:

Measured Snowfall:

September YEAR: 2022

60.63

76.67

6.36

0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	9/4/2022	19:35	19:55	0.33	0.02	**	9/6/2022	4:35	12:55	8.33	8.414	2.922
2	9/5/2022 - 9/6/2022	18:50	19:50	25.00	4.07	5 year						
3	9/12/2022	3:05	5:50	2.75	0.11	**						
4	9/13/2022	4:30	10:45	6.25	0.68	**						
5	9/19/2022	18:45	19:10	0.42	0.24	**						
6	9/22/2022	8:15	15:10	6.92	1.04	1 month						
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20	**						

TOTAL MONTH FLOW VOLUME = 2.922

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Derby Ave. 20 yds East of Ella T. Grasso Blvd.
 005
 NPDES Permit Outfall #: September YEAR: 2022
 MONTH: 60.63
 Average Low Temp: 76.67
 Average High Temp: 6.36
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/4/2022	19:35	19:55	0.33	0.02	**						
2	9/5/2022 - 9/6/2022	18:50	19:50	25.00	4.07	5 year	9/6/2022	5:20	12:45	7.42	1.393	0.430
3	9/12/2022	3:05	5:50	2.75	0.11	**						
4	9/13/2022	4:30	10:45	6.25	0.68	**						
5	9/19/2022	18:45	19:10	0.42	0.24	**						
6	9/22/2022	8:15	15:10	6.92	1.04	1 month						
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20	**						

TOTAL MONTH FLOW VOLUME = 0.430

Note: Overflow occurs when Interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #: 006
 MONTH: September YEAR: 2022
 Average Low Temp: 60.63
 Average High Temp: 76.67
 Measured Rainfall: 6.36
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	9/4/2022	19:35	19:55	0.33	0.02 **							
2	9/5/2022 - 9/6/2022	18:50	19:50	25.00	4.07 5 year	9/6/2022	5:55	12:20	6.42	0.612	0.164	
3	9/12/2022	3:05	5:50	2.75	0.11 **							
4	9/13/2022	4:30	10:45	6.25	0.68 **							
5	9/19/2022	18:45	19:10	0.42	0.24 **							
6	9/22/2022	8:15	15:10	6.92	1.04 1 month							
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20 **							

TOTAL MONTH FLOW VOLUME = 0.164

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

MONTH: September YEAR: 2022

Average Low Temp: 60.63

Average High Temp: 76.67

Measured Rainfall: 6.36

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	9/4/2022	19:35	19:55	0.33	0.02	**						
2	9/5/2022 - 9/6/2022	18:50	19:50	25.00	4.07	5 year	9/6/2022	4:55	9:40	4.75	9.297	1.840
3	9/12/2022	3:05	5:50	2.75	0.11	**						
4	9/13/2022	4:30	10:45	6.25	0.68	**						
5	9/19/2022	18:45	19:10	0.42	0.24	**						
6	9/22/2022	8:15	15:10	6.92	1.04	1 month	9/22/2022	8:50	9:15	0.42	0.239	0.004
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20	**						

TOTAL MONTH FLOW VOLUME = 1.844

Note: Overflow occurs when interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011
NPDES Permit Outfall #: September YEAR: 2022
MONTH: 60.63
Average Low Temp: 76.67
Average High Temp: 6.36
Measured Rainfall: 0
Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/4/2022	19:35	19:55	0.33	0.02 **							
2	9/5/2022 - 9/6/2022	18:50	19:50	25.00	4.07 5 year	9/6/2022	4:25	12:50	8.42	8.253	2.894	
3	9/12/2022	3:05	5:50	2.75	0.11 **							
4	9/13/2022	4:30	10:45	6.25	0.68 **							
5	9/19/2022	18:45	19:10	0.42	0.24 **							
6	9/22/2022	8:15	15:10	6.92	1.04 1 month							
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20 **							

TOTAL MONTH FLOW VOLUME = 2.894

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015
 NPDES Permit Outfall #:
 MONTH: September 2022
 Average Low Temp: 60.63
 Average High Temp: 76.67
 Measured Rainfall: 6.36
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT							CSO EVENT				
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/4/2022	19:35	19:55	0.33	0.02	**						
2	9/5/2022 - 9/6/2022	18:50	19:50	25:00	4.07	5 year	9/6/2022	5:00	12:45	7.75	3.180	1.027
3	9/12/2022	3:05	5:50	2.75	0.11	**						
4	9/13/2022	4:30	10:45	6.25	0.68	**	9/13/2022	6:40	7:55	1.25	2.015	0.105
5	9/19/2022	18:45	19:10	0.42	0.24	**						
6	9/22/2022	8:15	15:10	6.92	1.04	1 month	9/22/2022	8:45	9:45	1.00	1.605	0.067
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20	**						

TOTAL MONTH FLOW VOLUME =

1.199

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Int. River & Poplar 016
 NPDES Permit Outfall #: 016
 MONTH: September YEAR: 2022
 Average Low Temp: 60.63
 Average High Temp: 76.67
 Measured Rainfall: 6.36
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	9/4/2022	19:35	19:55	0.33	0.02	**	9/6/2022	6:30	13:05	6.58	5.094	1.397
2	9/5/2022 - 9/6/2022	18:50	19:50	25.00	4.07	5 year						
3	9/12/2022	3:05	5:50	2.75	0.11	**						
4	9/13/2022	4:30	10:45	6.25	0.68	**	9/13/2022	6:40	8:10	1.50	2.718	0.170
5	9/19/2022	18:45	19:10	0.42	0.24	**	9/19/2022	19:10	19:35	0.42	0.100	0.002
6	9/22/2022	8:15	15:10	6.92	1.04	1 month	9/22/2022	8:40	13:50	5.17	2.121	0.457
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20	**						

TOTAL MONTH FLOW VOLUME = 2.026

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive

LOCATION: 021

NPDES Permit Outfall #:

September 2022

MONTH:

Average Low Temp: 60.63

Average High Temp: 76.67

Measured Rainfall: 6.36

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT							
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/4/2022	19:35	19:55	0.33	0.02	**						
2	9/5/2022 - 9/6/2022	18:50	19:50	25.00	4.07	5 year	9/6/2022	4:40	13:55	9.25	8.298	3.198
3	9/12/2022	3:05	5:50	2.75	0.11	**						
4	9/13/2022	4:30	10:45	6.25	0.68	**	9/13/2022	7:20	7:40	0.33	0.653	0.009
5	9/19/2022	18:45	19:10	0.42	0.24	**						
6	9/22/2022	8:15	15:10	6.92	1.04	1 month	9/22/2022	9:20	10:10	0.83	2.398	0.083
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20	**						

TOTAL MONTH FLOW VOLUME = 3.290

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street

LOCATION: 024

NPDES Permit Outfall #:

MONTH: September YEAR: 2022

Average Low Temp:

60.63

Average High Temp:

76.67

Measured Rainfall:

6.36

Measured Snowfall:

0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)	
1	9/4/2022	19:35	19:55	0.33	0.02	**							
2	9/5/2022 - 9/6/2022	18:50	19:50	25.00	4.07	5 year	9/6/2022	5:00	16:25	11.42	4.041	1.923	
3	9/12/2022	3:05	5:50	2.75	0.11	**							
4	9/13/2022	4:30	10:45	6.25	0.68	**							
5	9/19/2022	18:45	19:10	0.42	0.24	**							
6	9/22/2022	8:15	15:10	6.92	1.04	1 month							
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20	**							

TOTAL MONTH FLOW VOLUME = 1.923

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
 LOCATION: 025
 NPDES Permit: Outfall #: September YEAR: 2022
 MONTH: 60.63
 Average Low Temp: 76.67
 Average High Temp: 6.34
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	9/4/2022	19:35	19:55	0.33	0.02	**						
2	9/5/2022 - 9/6/2022	18:50	19:50	25.00	4.07	5 year						
3	9/12/2022	3:05	5:50	2.75	0.11	**						
4	9/13/2022	4:30	10:45	6.25	0.68	**						
5	9/19/2022	18:45	19:10	0.42	0.24	**						
6	9/22/2022	8:15	15:10	6.92	1.04	1 month						
7	9/25/2022 - 9/26/2022	22:35	0:40	2.08	0.20	**						

TOTAL MONTH FLOW VOLUME = 0.000

METER DATA

AUGUST 2022

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY			
CSO FLOW MONITORING PROGRAM			
METER DATA SUMMARY - AUGUST 2022			
MONTHLY RAINFALL SUMMARY			
2.57 inches of rain (3.44 inches of rain in a typical month)			
No snow			
8 rain events (10 rain events in a typical month)			
One 25 Year storm. All other storms less than 1 month return frequency.			
<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	1	0.516
CSO 005	REG 005	1	0.666
CSO 004	REG 004	1	0.616
CSO 003	REG 003	1	0.217
CSO 024	REG 024	1	0.320
CSO 009	REG 009	1	0.010
CSO 016	REG 016	1	0.049
CSO 015	REG 015	1	0.111
CSO 011	REG 011	1	0.462
CSO 025	REG 025	0	0.000
CSO 021	REG 021	1	0.438
TOTAL		10	3.405

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003
 NPDES Permit Outfall #: August YEAR: 2022
 MONTH: 70.96
 Average Low Temp: 84.73
 Average High Temp: 2.57
 Measured Rainfall: 0.00
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q _{avg} (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	8/1/2022	2:15	5:40	3.42	0.38	**						
2	8/2/2022	19:30	20:00	0.50	0.04	**						
3	8/7/2022	20:30	20:50	0.33	0.04	**						
4	8/9/2022	14:25	14:55	0.50	0.05	**						
5	8/17/2022 - 8/18/2022	7:30	18:10	34.67	0.07	**						
6	8/22/2022	22:35	23:45	1.17	1.85	25 year						
7	8/23/2022 - 8/24/2022	19:40	4:50	9.17	0.12	**						
8	8/31/2022	1:25	1:50	0.42	0.02	**						
											TOTAL MONTH FLOW VOLUME =	0.217

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yds North of Legion Ave.
 004
 NPDES Permit Outfall #: August YEAR: 2022
 MONTH: 70.96
 Average Low Temp: 84.73
 Average High Temp: 2.57
 Measured Rainfall: 0
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	8/1/2022	2:15	5:40	3:42	0.38	**						
2	8/2/2022	19:30	20:00	0:50	0.04	**						
3	8/7/2022	20:30	20:50	0:33	0.04	**						
4	8/9/2022	14:25	14:55	0:50	0.05	**						
5	8/17/2022 - 8/18/2022	7:30	18:10	34:67	0.07	**						
6	8/22/2022	22:35	23:45	1:17	1.85	25 year	8/22/2022 - 8/23/2022	22:50	0:05	1.25	11.818	0.616
7	8/23/2022 - 8/24/2022	19:40	4:50	9:17	0.12	**						
8	8/31/2022	1:25	1:50	0:42	0.02	**						

TOTAL MONTH FLOW VOLUME = 0.616

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.
 LOCATION: 005
 NPDES Permit Outfall #: August YEAR: 2022
 MONTH: 70.96
 Average Low Temp: 84.73
 Average High Temp: 2.57
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	8/1/2022	2:15	5:40	3.42	0.38	**						
2	8/2/2022	19:30	20:00	0.50	0.04	**						
3	8/7/2022	20:30	20:50	0.33	0.04	**						
4	8/9/2022	14:25	14:55	0.50	0.05	**						
5	8/17/2022 - 8/18/2022	7:30	18:10	34.67	0.07	**						
6	8/22/2022	22:35	23:45	1.17	1.85	25 year	8/22/2022 - 8/23/2022	22:50	0:05	1.25	0.044	0.666
7	8/23/2022 - 8/24/2022	19:40	4:50	9.17	0.12	**						
8	8/31/2022	1:25	1:50	0.42	0.02	**						

TOTAL MONTH FLOW VOLUME = 0.666

Note: Overflow occurs when Interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #: August YEAR: 2022
 MONTH: 70.96
 Average Low Temp: 84.73
 Average High Temp: 2.57
 Measured Rainfall: 0
 Measured Snowfall:

EVENT NO.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)
1	8/1/2022	2:15	5:40	3.42	0.38	**						
2	8/2/2022	19:30	20:00	0.50	0.04	**						
3	8/7/2022	20:30	20:50	0.33	0.04	**						
4	8/9/2022	14:25	14:55	0.50	0.05	**						
5	8/17/2022 - 8/18/2022	7:30	18:10	34.67	0.07	**						
6	8/22/2022	22:35	23:45	1.17	1.85	25 year	8/22/2022	22:55	23:50	0.92	13.504	0.516
7	8/23/2022 - 8/24/2022	19:40	4:50	9.17	0.12	**						
8	8/31/2022	1:25	1:50	0.42	0.02	**						

TOTAL MONTH FLOW VOLUME = 0.516

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Grand Avenue & James Street
 009

NPDES Permit Outfall #:

MONTH: August

YEAR: 2022

Average Low Temp: 70.96

Average High Temp: 84.73

Measured Rainfall: 2.57

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Q avg (MGD)
1	8/1/2022	2:15	5:40	3.42	0.38	**						
2	8/2/2022	19:30	20:00	0.50	0.04	**						
3	8/7/2022	20:30	20:50	0.33	0.04	**						
4	8/9/2022	14:25	14:55	0.50	0.05	**						
5	8/17/2022 - 8/18/2022	7:30	18:10	34.67	0.07	**						
6	8/22/2022	22:35	23:45	1.17	1.85	25 year	8/22/2022 - 8/23/2022	23:20	0:00	0.67	0.373	0.010
7	8/23/2022 - 8/24/2022	19:40	4:50	9.17	0.12	**						
8	8/31/2022	1:25	1:50	0.42	0.02	**						
										TOTAL MONTH	0.010	
										FLOW VOLUME =		

Note: Overflow occurs when Interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011
 NPDES Permit Outfall #: August YEAR: 2022
 MONTH: 70.96
 Average Low Temp: 84.73
 Average High Temp: 2.57
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	8/1/2022	2:15	5:40	3.42	0.38**						
2	8/2/2022	19:30	20:00	0.50	0.04**						
3	8/7/2022	20:30	20:50	0.33	0.04**						
4	8/9/2022	14:25	14:55	0.50	0.05**						
5	8/17/2022 - 8/18/2022	7:30	18:10	34.67	0.07**						
6	8/22/2022	22:35	23:45	1.17	1.85/25 year	8/22/2022 - 8/23/2022	23:00	0:25	1.42	7.823	0.462
7	8/23/2022 - 8/24/2022	19:40	4:50	9.17	0.12**						
8	8/31/2022	1:25	1:50	0.42	0.02**						

TOTAL MONTH FLOW VOLUME = 0.462

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015
 NPDES Permit Outfall #: August YEAR: 2022
 MONTH: 70.96
 Average Low Temp: 84.73
 Average High Temp: 2.57
 Measured Rainfall: 0
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	8/1/2022	2:15	5:40	3.42	0.38	**						
2	8/2/2022	19:30	20:00	0.50	0.04	**						
3	8/7/2022	20:30	20:50	0.33	0.04	**						
4	8/9/2022	14:25	14:55	0.50	0.05	**						
5	8/17/2022 - 8/18/2022	7:30	18:10	34.67	0.07	**						
6	8/22/2022	22:35	23:45	1.17	1.85	25 year	8/22/2022 - 8/23/2022	23:35	0:15	0.67	3.994	0.111
7	8/23/2022 - 8/24/2022	19:40	4:50	9.17	0.12	**						
8	8/31/2022	1:25	1:50	0.42	0.02	**						

TOTAL MONTH FLOW VOLUME = 0.111

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: August YEAR: 2022

Average Low Temp:

70.96

Average High Temp:

84.73

Measured Rainfall:

2.57

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)	OUTFALL Qavg (MGD)
1	8/1/2022	2:15	5:40	3.42	0.38 **							
2	8/2/2022	19:30	20:00	0.50	0.04 **							
3	8/7/2022	20:30	20:50	0.33	0.04 **							
4	8/9/2022	14:25	14:55	0.50	0.05 **							
5	8/17/2022 - 8/18/2022	7:30	18:10	34.67	0.07 **							
6	8/22/2022	22:35	23:45	1.17	1.85 25 year	8/22/2022 - 8/23/2022	23:30	0:35	1.08	1.086	0.049	
7	8/23/2022 - 8/24/2022	19:40	4:50	9.17	0.12 **							
8	8/31/2022	1:25	1:50	0.42	0.02 **							

TOTAL MONTH FLOW VOLUME = 0.049

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive

LOCATION: 021

NPDES Permit Outfall #:

MONTH: August YEAR: 2022

Average Low Temp: 70.96

Average High Temp: 84.73

Measured Rainfall: 2.57

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT							
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/1/2022	2:15	5:40	3:42	0.38	**						
2	8/2/2022	19:30	20:00	0:50	0.04	**						
3	8/7/2022	20:30	20:50	0:33	0.04	**						
4	8/9/2022	14:25	14:55	0:50	0.05	**						
5	8/17/2022 - 8/18/2022	7:30	18:10	34:67	0.07	**						
6	8/22/2022	22:35	23:45	1:17	1.85	25 year	8/22/2022 - 8/23/2022	23:20	1:05	1.75	6.001	0.438
7	8/23/2022 - 8/24/2022	19:40	4:50	9:17	0.12	**						
8	8/31/2022	1:25	1:50	0:42	0.02	**						

TOTAL MONTH FLOW VOLUME = 0.438

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 MONTH: August YEAR: 2022
 Average Low Temp: 70.96
 Average High Temp: 84.73
 Measured Rainfall: 2.57
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	8/1/2022	2:15	5:40	3.42	0.38**							
2	8/2/2022	19:30	20:00	0.50	0.04**							
3	8/7/2022	20:30	20:50	0.33	0.04**							
4	8/9/2022	14:25	14:55	0.50	0.05**							
5	8/17/2022 - 8/18/2022	7:30	18:10	34.67	0.07**							
6	8/22/2022	22:35	23:45	1.17	1.85/25 year	8/22/2022 - 8/23/2022	23:25	1:25	2.00	3.836	0.320	
7	8/23/2022 - 8/24/2022	19:40	4:50	9.17	0.12**							
8	8/31/2022	1:25	1:50	0.42	0.02**							

TOTAL MONTH FLOW VOLUME = 0.320

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #: August YEAR: 2022
MONTH: 70.96
Average Low Temp: 84.73
Average High Temp: 2.57
Measured Rainfall: 0
Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	8/1/2022	2:15	5:40	3.42	0.38	**					
2	8/2/2022	19:30	20:00	0.50	0.04	**					
3	8/7/2022	20:30	20:50	0.33	0.04	**					
4	8/9/2022	14:25	14:55	0.50	0.05	**					
5	8/17/2022 - 8/18/2022	7:30	18:10	34.67	0.07	**					
6	8/22/2022	22:35	23:45	1.17	1.85	25 year					
7	8/23/2022 - 8/24/2022	19:40	4:50	9.17	0.12	**					
8	8/31/2022	1:25	1:50	0.42	0.02	**					

TOTAL MONTH FLOW VOLUME =
 0.000

METER DATA

JULY 2022

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY			
CSO FLOW MONITORING PROGRAM			
METER DATA SUMMARY - JULY 2022			
<u>MONTHLY RAINFALL SUMMARY</u>			
1.5 inches of rain (3.44 inches of rain in a typical month)			
No snow			
7 rain events (10 rain events in a typical month)			
Two 1. month storms. All other storms less than 1. month return frequency.			
<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	0	0.000
CSO 005	REG 005	0	0.000
CSO 004	REG 004	0	0.000
CSO 003	REG 003	0	0.000
CSO 024	REG 024	0	0.000
CSO 009	REG 009	1	0.005
CSO 016	REG 016	1	0.225
CSO 015	REG 015	1	0.259
CSO 011	REG 011	1	0.028
CSO 025	REG 025	0	0.000
CSO 021	REG 021	1	0.122
TOTAL		5	0.639
			West River
			West River
			West River
			West River
			West River
			Fairhaven
			Fairhaven
			Fairhaven
			Humphrey
			East Street

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 Orange Ave. @ Int. of Ella T. Grasso Blvd.
 LOCATION: 003
 NPDES Permit Outfall #: July YEAR: 2022
 MONTH: 70.1
 Average Low Temp: 86
 Average High Temp: 1.50
 Measured Rainfall: 0.00
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	7/5/2022	18:55	19:30	0.58	0.09	**					
2	7/16/2022	14:35	14:45	0.17	0.01	**					
3	7/18/2022	9:15	19:30	10.25	1.02	1 month					
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24	1 month					
5	7/25/2022	15:35	18:05	2.50	0.05	**					
6	7/28/2022	5:45	5:55	0.17	0.02	**					
7	7/29/2022	22:45	23:25	0.67	0.07	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
 NPDDES Permit Outfall #: 004
 MONTH: July YEAR: 2022
 Average Low Temp: 70.1
 Average High Temp: 86
 Measured Rainfall: 1.50
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/5/2022	18:55	19:30	0.58	0.09	**						
2	7/16/2022	14:35	14:45	0.17	0.01	**						
3	7/18/2022	9:15	19:30	10.25	1.02	1 month						
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24	1 month						
5	7/25/2022	15:35	18:05	2.50	0.05	**						
6	7/28/2022	5:45	5:55	0.17	0.02	**						
7	7/29/2022	22:45	23:25	0.67	0.07	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.
 LOCATION: 005
 NPDDES Permit Outfall #: July YEAR: 2022
 MONTH: July 70.1
 Average Low Temp: 86
 Average High Temp: 1.50
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/5/2022	18:55	19:30	0.58	0.09	**						
2	7/16/2022	14:35	14:45	0.17	0.01	**						
3	7/18/2022	9:15	19:30	10.25	1.02	1 month						
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24	1 month						
5	7/25/2022	15:35	18:05	2.50	0.05	**						
6	7/28/2022	5:45	5:55	0.17	0.02	**						
7	7/29/2022	22:45	23:25	0.67	0.07	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 82".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #: July YEAR: 2022
MONTH: 70.1
Average Low Temp: 86
Average High Temp: 1.50
Measured Rainfall: 0
Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/5/2022	18:55	19:30	0.58	0.09	**						
2	7/16/2022	14:35	14:45	0.17	0.01	**						
3	7/18/2022	9:15	19:30	10.25	1.02	1 month						
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24	1 month						
5	7/25/2022	15:35	18:05	2.50	0.05	**						
6	7/28/2022	5:45	5:55	0.17	0.02	**						
7	7/29/2022	22:45	23:25	0.67	0.07	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

MONTH: July YEAR: 2022

Average Low Temp:

70.1

Average High Temp:

86

Measured Rainfall:

1.50

0

0

EVENT No.	RAINFALL EVENT							CSO EVENT				
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/5/2022	18:55	19:30	0.58	0.09	**						
2	7/16/2022	14:35	14:45	0.17	0.01	**						
3	7/18/2022	9:15	19:30	10.25	1.02	1 month	7/18/2022	19:40	20:10	0.50	0.238	0.005
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24	1 month						
5	7/25/2022	15:35	18:05	2.50	0.05	**						
6	7/28/2022	5:45	5:55	0.17	0.02	**						
7	7/29/2022	22:45	23:25	0.67	0.07	**						

TOTAL MONTH FLOW VOLUME = 0.005

Note: Overflow occurs when Interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 011
 NPDES Permit Outfall #: July YEAR: 2022
 MONTH: July 70.1
 Average Low Temp: 86
 Average High Temp: 1.50
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT							CSO EVENT				
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/5/2022	18:55	19:30	0.58	0.09	**						
2	7/16/2022	14:35	14:45	0.17	0.01	**						
3	7/18/2022	9:15	19:30	10.25	1.02	1 month	7/18/2022	19:45	20:15	0.50	1.333	0.028
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24	1 month						
5	7/25/2022	15:35	18:05	2.50	0.05	**						
6	7/28/2022	5:45	5:55	0.17	0.02	**						
7	7/29/2022	22:45	23:25	0.67	0.07	**						

TOTAL MONTH FLOW VOLUME = 0.028

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015
 NPDES Permit Outfall #:
 MONTH: July YEAR: 2022
 Average Low Temp: 70.1
 Average High Temp: 86
 Measured Rainfall: 1.50
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/5/2022	18:55	19:30	0.58	0.09 **							
2	7/16/2022	14:35	14:45	0.17	0.01 **							
3	7/18/2022	9:15	19:30	10.25	1.02 1 month							
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24 1 month	7/18/2022	19:40	20:30	0.83	7.462	0.259	
5	7/25/2022	15:35	18:05	2.50	0.05 **							
6	7/28/2022	5:45	5:55	0.17	0.02 **							
7	7/29/2022	22:45	23:25	0.67	0.07 **							

TOTAL MONTH FLOW VOLUME = 0.259

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: July YEAR: 2022

Average Low Temp: 70.1

Average High Temp: 86

Measured Rainfall: 1.50

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/5/2022	18:55	19:30	0.58	0.09	**						
2	7/16/2022	14:35	14:45	0.17	0.01	**						
3	7/18/2022	9:15	19:30	10.25	1.02	1 month						
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24	1 month	7/18/2022	19:40	20:40	0.00	5.410	0.225
5	7/25/2022	15:35	18:05	2.50	0.05	**						
6	7/28/2022	5:45	5:55	0.17	0.02	**						
7	7/29/2022	22:45	23:25	0.67	0.07	**						

TOTAL MONTH FLOW VOLUME = 0.225

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 638 Long Wharf Drive
 021
 NPDES Permit Outfall #: 021
 MONTH: July YEAR: 2022
 Average Low Temp: 70.1
 Average High Temp: 86
 Measured Rainfall: 1.50
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/5/2022	18:55	19:30	0.58	0.09	**						
2	7/16/2022	14:35	14:45	0.17	0.01	**						
3	7/18/2022	9:15	19:30	10.25	1.02	1 month						
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24	1 month						
5	7/25/2022	15:35	18:05	2.50	0.05	**						
6	7/28/2022	5:45	5:55	0.17	0.02	**						
7	7/29/2022	22:45	23:25	0.67	0.07	**						
											TOTAL MONTH FLOW VOLUME =	0.122

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 NPDES Permit Outfall #:
 MONTH: July YEAR: 2022
 Average Low Temp: 70.1
 Average High Temp: 86
 Measured Rainfall: 1.50
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	7/5/2022	18:55	19:30	0.58	0.09	**					
2	7/16/2022	14:35	14:45	0.17	0.01	**					
3	7/18/2022	9:15	19:30	10.25	1.02	1 month					
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24	1 month					
5	7/25/2022	15:35	18:05	2.50	0.05	**					
6	7/28/2022	5:45	5:55	0.17	0.02	**					
7	7/29/2022	22:45	23:25	0.67	0.07	**					
										TOTAL MONTH FLOW VOLUME =	0.000

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #: July YEAR: 2022
MONTH: 70.1
Average Low Temp: 86
Average High Temp: 1.50
Measured Rainfall: 0
Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q		
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	Qavg (MGD)	OUTFALL Q volume (MG)
1	7/5/2022	18:55	19:30	0.58	0.09 **							
2	7/16/2022	14:35	14:45	0.17	0.01 **							
3	7/18/2022	9:15	19:30	10.25	1.02 1 month							
4	7/18/2022-7/19/2022	23:50	0:05	0.25	0.24 1 month							
5	7/25/2022	15:35	18:05	2.50	0.05 **							
6	7/28/2022	5:45	5:55	0.17	0.02 **							
7	7/29/2022	22:45	23:25	0.67	0.07 **							

TOTAL MONTH FLOW VOLUME = 0.000

METER DATA

JUNE 2022

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - JUNE 2022

MONTHLY RAINFALL SUMMARY

2.51 inches of rain (3.44 inches of rain in a typical month)

No snow

12 rain events (10 rain events in a typical month)

All storms less than 1 month return frequency.

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	0	0.000
CSO 005	REG 005	0	0.000
CSO 004	REG 004	0	0.000
CSO 003	REG 003	0	0.000
CSO 024	REG 024	0	0.000
CSO 009	REG 009	0	0.000
CSO 016	REG 016	1	0.014
CSO 015	REG 015	0	0.000
CSO 011	REG 011	0	0.000
CSO 025	REG 025	0	0.000
CSO 021	REG 021	0	0.000
TOTAL		1	0.014

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003
 NPDES Permit: Outfall #: June YEAR: 2022
 MONTH: 77.87
 Average Low Temp: 61.37
 Average High Temp: 2.51
 Measured Rainfall: 0.00
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/1/2022	19:40	23:50	4.17	0.13	**						
2	6/2/2022	16:30	17:55	1.42	0.21	**						
3	6/3/2022	8:45	8:50	0.08	0.01	**						
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44	**						
5	6/9/2022	4:05	7:25	3.33	0.43	**						
6	6/13/2022	2:05	4:20	2.25	0.18	**						
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11	**						
8	6/21/2022	23:05	23:40	0.58	0.02	**						
9	6/22/2022	2:35	8:40	6.08	0.37	**						
10	6/22/2022	13:40	16:55	3.25	0.29	**						
11	6/27/2022	11:10	11:30	0.33	0.02	**						
12	6/27/2022	15:30	17:30	2.00	0.30	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
 004
 MONTH: June YEAR: 2022
 NPDES Permit Outfall #: 77.87
 Average Low Temp: 61.37
 Average High Temp: 2.51
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	6/1/2022	19:40	23:50	4.17	0.13	**					
2	6/2/2022	16:30	17:55	1.42	0.21	**					
3	6/3/2022	8:45	8:50	0.08	0.01	**					
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44	**					
5	6/9/2022	4:05	7:25	3.33	0.43	**					
6	6/13/2022	2:05	4:20	2.25	0.18	**					
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11	**					
8	6/21/2022	23:05	23:40	0.58	0.02	**					
9	6/22/2022	2:35	8:40	6.08	0.37	**					
10	6/22/2022	13:40	16:55	3.25	0.29	**					
11	6/27/2022	11:10	11:30	0.33	0.02	**					
12	6/27/2022	15:30	17:30	2.00	0.30	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 Derby Ave. 20 yds East of Ella T. Grasso Blvd.
LOCATION: 005
MONTH: June YEAR: 2022
NPDES Permit Outfall #: 77.87
Average Low Temp: 61.37
Average High Temp: 2.51
Measured Rainfall: 0
Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT					CSO EVENT					
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/1/2022	19:40	23:50	4.17	0.13	**						
2	6/2/2022	16:30	17:55	1.42	0.21	**						
3	6/3/2022	8:45	8:50	0.08	0.01	**						
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44	**						
5	6/9/2022	4:05	7:25	3.33	0.43	**						
6	6/13/2022	2:05	4:20	2.25	0.18	**						
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11	**						
8	6/21/2022	23:05	23:40	0.58	0.02	**						
9	6/22/2022	2:35	8:40	6.08	0.37	**						
10	6/22/2022	13:40	16:55	3.25	0.29	**						
11	6/27/2022	11:10	11:30	0.33	0.02	**						
12	6/27/2022	15:30	17:30	2.00	0.30	**						

TOTAL MONTH
 FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #: June YEAR: 2022
 MONTH: 77.87
 Average Low Temp: 61.37
 Average High Temp: 2.51
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q. volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	6/1/2022	19:40	23:50	4.17	0.13	**					
2	6/2/2022	16:30	17:55	1.42	0.21	**					
3	6/3/2022	8:45	8:50	0.08	0.01	**					
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44	**					
5	6/9/2022	4:05	7:25	3.33	0.43	**					
6	6/13/2022	2:05	4:20	2.25	0.18	**					
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11	**					
8	6/21/2022	23:05	23:40	0.58	0.02	**					
9	6/22/2022	2:35	8:40	6.08	0.37	**					
10	6/22/2022	13:40	16:55	3.25	0.29	**					
11	6/27/2022	11:10	11:30	0.33	0.02	**					
12	6/27/2022	15:30	17:30	2.00	0.30	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
 LOCATION: 009

NPDES Permit Outfall #:

MONTH: June YEAR: 2022

Average Low Temp: 77.87

Average High Temp: 61.37

Measured Rainfall: 2.51

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT				OUTFALL Q _v volume (MG)		
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START		STOP	DURATION (hours)
1	6/1/2022	19:40	23:50	4.17	0.13	**					
2	6/2/2022	16:30	17:55	1.42	0.21	**					
3	6/3/2022	8:45	8:50	0.08	0.01	**					
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44	**					
5	6/9/2022	4:05	7:25	3.33	0.43	**					
6	6/13/2022	2:05	4:20	2.25	0.18	**					
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11	**					
8	6/21/2022	23:05	23:40	0.58	0.02	**					
9	6/22/2022	2:35	8:40	6.08	0.37	**					
10	6/22/2022	13:40	16:55	3.25	0.29	**					
11	6/27/2022	11:10	11:30	0.33	0.02	**					
12	6/27/2022	15:30	17:30	2.00	0.30	**					

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

MONTH: June YEAR: 2022

Average Low Temp: 77.87

Average High Temp: 61.37

Measured Rainfall: 2.51

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT				CSO EVENT							
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/1/2022	19:40	23:50	4.17	0.13	**						
2	6/2/2022	16:30	17:55	1.42	0.21	**						
3	6/3/2022	8:45	8:50	0.08	0.01	**						
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44	**						
5	6/9/2022	4:05	7:25	3.33	0.43	**						
6	6/13/2022	2:05	4:20	2.25	0.18	**						
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11	**						
8	6/21/2022	23:05	23:40	0.58	0.02	**						
9	6/22/2022	2:35	8:40	6.08	0.37	**						
10	6/22/2022	13:40	16:55	3.25	0.29	**						
11	6/27/2022	11:10	11:30	0.33	0.02	**						
12	6/27/2022	15:30	17:30	2.00	0.30	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015
 NPDES Permit Outfall #: June 2022
 MONTH: 77.87
 Average Low Temp: 61.37
 Average High Temp: 2.51
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/1/2022	19:40	23:50	4.17	0.13	**						
2	6/2/2022	16:30	17:55	1.42	0.21	**						
3	6/3/2022	8:45	8:50	0.08	0.01	**						
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44	**						
5	6/9/2022	4:05	7:25	3.33	0.43	**						
6	6/13/2022	2:05	4:20	2.25	0.18	**						
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11	**						
8	6/21/2022	23:05	23:40	0.58	0.02	**						
9	6/22/2022	2:35	8:40	6.08	0.37	**						
10	6/22/2022	13:40	16:55	3.25	0.29	**						
11	6/27/2022	11:10	11:30	0.33	0.02	**						
12	6/27/2022	15:30	17:30	2.00	0.30	**						

TOTAL MONTH FLOW VOLUME = 0.000

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Int. River & Poplar 016
 NPDES Permit Outfall #: June YEAR: 2022
 MONTH: 77.87
 Average Low Temp: 61.37
 Average High Temp: 2.51
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/1/2022	19:40	23:50	4.17	0.13	**						
2	6/2/2022	16:30	17:55	1.42	0.21	**						
3	6/3/2022	8:45	8:50	0.08	0.01	**						
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44	**						
5	6/9/2022	4:05	7:25	3.33	0.43	**						
6	6/13/2022	2:05	4:20	2.25	0.18	**	6/9/2022	6:55	7:05	0.17	1.997	0.014
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11	**						
8	6/21/2022	23:05	23:40	0.58	0.02	**						
9	6/22/2022	2:35	8:40	6.08	0.37	**						
10	6/22/2022	13:40	16:55	3.25	0.29	**						
11	6/27/2022	11:10	11:30	0.33	0.02	**						
12	6/27/2022	15:30	17:30	2.00	0.30	**						

TOTAL MONTH FLOW VOLUME = 0.014

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 638 Long Wharf Drive

LOCATION: 021

NPDES Permit Outfall #:

MONTH: June YEAR: 2022

Average Low Temp: 77.87

Average High Temp: 61.37

Measured Rainfall: 2.51

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/1/2022	19:40	23:50	4.17	0.13	**						
2	6/2/2022	16:30	17:55	1.42	0.21	**						
3	6/3/2022	8:45	8:50	0.08	0.01	**						
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44	**						
5	6/9/2022	4:05	7:25	3.33	0.43	**						
6	6/13/2022	2:05	4:20	2.25	0.18	**						
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11	**						
8	6/21/2022	23:05	23:40	0.58	0.02	**						
9	6/22/2022	2:35	8:40	6.08	0.37	**						
10	6/22/2022	13:40	16:55	3.25	0.29	**						
11	6/27/2022	11:10	11:30	0.33	0.02	**						
12	6/27/2022	15:30	17:30	2.00	0.30	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 MONTH: June YEAR: 2022
 Average Low Temp: 77.87
 Average High Temp: 61.37
 Measured Rainfall: 2.51
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	6/1/2022	19:40	23:50	4.17	0.13	**					
2	6/2/2022	16:30	17:55	1.42	0.21	**					
3	6/3/2022	8:45	8:50	0.08	0.01	**					
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44	**					
5	6/9/2022	4:05	7:25	3.33	0.43	**					
6	6/13/2022	2:05	4:20	2.25	0.18	**					
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11	**					
8	6/21/2022	23:05	23:40	0.58	0.02	**					
9	6/22/2022	2:35	8:40	6.08	0.37	**					
10	6/22/2022	13:40	16:55	3.25	0.29	**					
11	6/27/2022	11:10	11:30	0.33	0.02	**					
12	6/27/2022	15:30	17:30	2.00	0.30	**					

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 MONTH: June YEAR: 2022
 Average Low Temp: 77.87
 Average High Temp: 61.37
 Measured Rainfall: 2.51
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)
		START	STOP	DURATION (hours)	TOTAL FREQUENCY	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	
1	6/1/2022	19:40	23:50	4.17	0.13 **					
2	6/2/2022	16:30	17:55	1.42	0.21 **					
3	6/3/2022	8:45	8:50	0.08	0.01 **					
4	6/7/2022-6/8/2022	23:25	5:00	5.58	0.44 **					
5	6/9/2022	4:05	7:25	3.33	0.43 **					
6	6/13/2022	2:05	4:20	2.25	0.18 **					
7	6/18/2022-6/19/2022	21:10	1:35	4.42	0.11 **					
8	6/21/2022	23:05	23:40	0.58	0.02 **					
9	6/22/2022	2:35	8:40	6.08	0.37 **					
10	6/22/2022	13:40	16:55	3.25	0.29 **					
11	6/27/2022	11:10	11:30	0.33	0.02 **					
12	6/27/2022	15:30	17:30	2.00	0.30 **					

TOTAL MONTH
FLOW VOLUME = 0.000

METER DATA

MAY 2022

**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - MAY 2022**

MONTHLY RAINFALL SUMMARY

2.56 inches of rain (3.44 inches of rain in a typical month)

No snow

16 rain events (10 rain events in a typical month)

All storms less than 1 month return frequency.

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>
CSO 006	REG 006	0	0.000
CSO 005	REG 005	0	0.000
CSO 004	REG 004	0	0.000
CSO 003	REG 003	0	0.000
CSO 024	REG 024	0	0.000
CSO 009	REG 009	0	0.000
CSO 016	REG 016	1	0.004
CSO 015	REG 015	0	0.000
CSO 011	REG 011	0	0.000
CSO 025	REG 025	0	0.000
CSO 021	REG 021	0	0.000
TOTAL		1	0.004

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003
 MONTH: May YEAR: 2022
 NPDES Permit Outfall #: 49
 Average Low Temp: 69
 Average High Temp: 2.56
 Measured Rainfall: 0.00
 Measured Snowfall:

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	5/2/2022	7:55	9:10	1.25	0.04	**					
2	5/2/2022	15:35	20:30	4.92	0.37	**					
3	5/4/2022	5:30	12:10	6.67	0.10	**					
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**					
5	5/7/2022	14:10	14:15	0.08	0.01	**					
6	5/7/2022	23:20	23:25	0.08	0.01	**					
7	5/13/2022	7:25	7:30	0.08	0.01	**					
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**					
9	5/16/2022	18:35	19:20	0.75	0.19	**					
10	5/19/2022	1:55	11:15	9.33	0.41	**					
11	5/20/2022	18:55	22:50	3.92	0.24	**					
12	5/21/2022	13:25	13:30	0.08	0.01	**					
13	5/24/2022	3:20	3:25	0.08	0.01	**					
14	5/27/2022	2:30	8:30	6.00	0.03	**					
15	5/28/2022	1:25	3:45	2.33	0.33	**					
16	5/28/2022	14:40	15:05	0.42	0.08	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yds North of Legion Ave.

LOCATION: 004

NPDES Permit Outfall #:

MONTH: May YEAR: 2022

Average Low Temp: 49

Average High Temp: 69

Measured Rainfall: 2.56

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	5/2/2022	7:55	9:10	1.25	0.04	**						
2	5/2/2022	15:35	20:30	4.92	0.37	**						
3	5/4/2022	5:30	12:10	6.67	0.10	**						
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**						
5	5/7/2022	14:10	14:15	0.08	0.01	**						
6	5/7/2022	23:20	23:25	0.08	0.01	**						
7	5/13/2022	7:25	7:30	0.08	0.01	**						
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**						
9	5/16/2022	18:35	19:20	0.75	0.19	**						
10	5/19/2022	1:55	11:15	9.33	0.41	**						
11	5/20/2022	18:55	22:50	3.92	0.24	**						
12	5/21/2022	13:25	13:30	0.08	0.01	**						
13	5/24/2022	3:20	3:25	0.08	0.01	**						
14	5/27/2022	2:30	8:30	6.00	0.03	**						
15	5/28/2022	1:25	3:45	2.33	0.33	**						
16	5/28/2022	14:40	15:05	0.42	0.08	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.

LOCATION: 005

NPDES Permit Outfall #:

MONTH: May YEAR: 2022

Average Low Temp: 49

Average High Temp: 69

Measured Rainfall: 2.56

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2022	7:55	9:10	1.25	0.04	**						
2	5/2/2022	15:35	20:30	4.92	0.37	**						
3	5/4/2022	5:30	12:10	6.67	0.10	**						
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**						
5	5/7/2022	14:10	14:15	0.08	0.01	**						
6	5/7/2022	23:20	23:25	0.08	0.01	**						
7	5/13/2022	7:25	7:30	0.08	0.01	**						
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**						
9	5/16/2022	18:35	19:20	0.75	0.19	**						
10	5/19/2022	1:55	11:15	9.33	0.41	**						
11	5/20/2022	18:55	22:50	3.92	0.24	**						
12	5/21/2022	13:25	13:30	0.08	0.01	**						
13	5/24/2022	3:20	3:25	0.08	0.01	**						
14	5/27/2022	2:30	8:30	6.00	0.03	**						
15	5/28/2022	1:25	3:45	2.33	0.33	**						
16	5/28/2022	14:40	15:05	0.42	0.08	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 82"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDDES Permit Outfall #: May YEAR: 2022
 MONTH: 49
 Average Low Temp: 69
 Average High Temp: 2.56
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT						
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Q avg (MGD)	OUTFALL Q volume (MG)
1	5/2/2022	7:55	9:10	1.25	0.04	**						
2	5/2/2022	15:35	20:30	4.92	0.37	**						
3	5/4/2022	5:30	12:10	6.67	0.10	**						
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**						
5	5/7/2022	14:10	14:15	0.08	0.01	**						
6	5/7/2022	23:20	23:25	0.08	0.01	**						
7	5/13/2022	7:25	7:30	0.08	0.01	**						
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**						
9	5/16/2022	18:35	19:20	0.75	0.19	**						
10	5/19/2022	1:55	11:15	9.33	0.41	**						
11	5/20/2022	18:55	22:50	3.92	0.24	**						
12	5/21/2022	13:25	13:30	0.08	0.01	**						
13	5/24/2022	3:20	3:25	0.08	0.01	**						
14	5/27/2022	2:30	8:30	6.00	0.03	**						
15	5/28/2022	1:25	3:45	2.33	0.33	**						
16	5/28/2022	14:40	15:05	0.42	0.08	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

MONTH: May YEAR: 2022

Average Low Temp: 49

Average High Temp: 69

Measured Rainfall: 2.56

Measured Snowfall: 0

EVENT No.	RAINFALL EVENT						CSO EVENT					
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2022	7:55	9:10	1.25	0.04	**						
2	5/2/2022	15:35	20:30	4.92	0.37	**						
3	5/4/2022	5:30	12:10	6.67	0.10	**						
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**						
5	5/7/2022	14:10	14:15	0.08	0.01	**						
6	5/7/2022	23:20	23:25	0.08	0.01	**						
7	5/13/2022	7:25	7:30	0.08	0.01	**						
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**						
9	5/16/2022	18:35	19:20	0.75	0.19	**						
10	5/19/2022	1:55	11:15	9.33	0.41	**						
11	5/20/2022	18:55	22:50	3.92	0.24	**						
12	5/21/2022	13:25	13:30	0.08	0.01	**						
13	5/24/2022	3:20	3:25	0.08	0.01	**						
14	5/27/2022	2:30	8:30	6.00	0.03	**						
15	5/28/2022	1:25	3:45	2.33	0.33	**						
16	5/28/2022	14:40	15:05	0.42	0.08	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

MONTH: May

YEAR: 2022

Average Low Temp: 49

Average High Temp: 69

Measured Rainfall: 2.56

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				OUTFALL Q.volum (MG)
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	
1	5/2/2022	7:55	9:10	1.25	0.04	**						
2	5/2/2022	15:35	20:30	4.92	0.37	**						
3	5/4/2022	5:30	12:10	6.67	0.10	**						
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**						
5	5/7/2022	14:10	14:15	0.08	0.01	**						
6	5/7/2022	23:20	23:25	0.08	0.01	**						
7	5/13/2022	7:25	7:30	0.08	0.01	**						
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**						
9	5/16/2022	18:35	19:20	0.75	0.19	**						
10	5/19/2022	1:55	11:15	9.33	0.41	**						
11	5/20/2022	18:55	22:50	3.92	0.24	**						
12	5/21/2022	13:25	13:30	0.08	0.01	**						
13	5/24/2022	3:20	3:25	0.08	0.01	**						
14	5/27/2022	2:30	8:30	6.00	0.03	**						
15	5/28/2022	1:25	3:45	2.33	0.33	**						
16	5/28/2022	14:40	15:05	0.42	0.08	**						

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015
 NPDES Permit Outfall #: May YEAR: 2022
 MONTH: 49
 Average Low Temp: 69
 Average High Temp: 2.56
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT						CSO EVENT				
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2022	7:55	9:10	1.25	0.04	**						
2	5/2/2022	15:35	20:30	4.92	0.37	**						
3	5/4/2022	5:30	12:10	6.67	0.10	**						
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**						
5	5/7/2022	14:10	14:15	0.08	0.01	**						
6	5/7/2022	23:20	23:25	0.08	0.01	**						
7	5/13/2022	7:25	7:30	0.08	0.01	**						
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**						
9	5/16/2022	18:35	19:20	0.75	0.19	**						
10	5/19/2022	1:55	11:15	9.33	0.41	**						
11	5/20/2022	18:55	22:50	3.92	0.24	**						
12	5/21/2022	13:25	13:30	0.08	0.01	**						
13	5/24/2022	3:20	3:25	0.08	0.01	**						
14	5/27/2022	2:30	8:30	6.00	0.03	**						
15	5/28/2022	1:25	3:45	2.33	0.33	**						
16	5/28/2022	14:40	15:05	0.42	0.08	**						

TOTAL MONTH FLOW VOLUME = 0.000

Expected capacity of siphon is between 24 and 30 MGD.
 Weir Height 58.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: May

Average Low Temp: 49

Average High Temp: 69

Measured Rainfall: 2.56

Measured Snowfall: 0

YEAR: 2022

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP			DURATION (hours)
1	5/2/2022	7:55	9:10	1.25	0.04	**						
2	5/2/2022	15:35	20:30	4.92	0.37	**						
3	5/4/2022	5:30	12:10	6.67	0.10	**						
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**						
5	5/7/2022	14:10	14:15	0.08	0.01	**						
6	5/7/2022	23:20	23:25	0.08	0.01	**						
7	5/13/2022	7:25	7:30	0.08	0.01	**						
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**						
9	5/16/2022	18:35	19:20	0.75	0.19	**						
10	5/19/2022	1:55	11:15	9.33	0.41	**						
11	5/20/2022	18:55	22:50	3.92	0.24	**						
12	5/21/2022	13:25	13:30	0.08	0.01	**						
13	5/24/2022	3:20	3:25	0.08	0.01	**						
14	5/27/2022	2:30	8:30	6.00	0.03	**						
15	5/28/2022	1:25	3:45	2.33	0.33	**	5/28/2022	2:10	2:20	0.17	0.530	0.004
16	5/28/2022	14:40	15:05	0.42	0.08	**						

TOTAL MONTH FLOW VOLUME = 0.004

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive

LOCATION: 021

NPDES Permit Outfall #:

MONTH: May YEAR: 2022

Average Low Temp: 49

Average High Temp: 69

Measured Rainfall: 2.56

Measured Snowfall: 0

EVENT No.	DATE	RAINFALL EVENT				CSO EVENT				OUTFALL Q volume (MG)	
		START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP		DURATION (hours)
1	5/2/2022	7:55	9:10	1.25	0.04	**					
2	5/2/2022	15:35	20:30	4.92	0.37	**					
3	5/4/2022	5:30	12:10	6.67	0.10	**					
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**					
5	5/7/2022	14:10	14:15	0.08	0.01	**					
6	5/7/2022	23:20	23:25	0.08	0.01	**					
7	5/13/2022	7:25	7:30	0.08	0.01	**					
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**					
9	5/16/2022	18:35	19:20	0.75	0.19	**					
10	5/19/2022	1:55	11:15	9.33	0.41	**					
11	5/20/2022	18:55	22:50	3.92	0.24	**					
12	5/21/2022	13:25	13:30	0.08	0.01	**					
13	5/24/2022	3:20	3:25	0.08	0.01	**					
14	5/27/2022	2:30	8:30	6.00	0.03	**					
15	5/28/2022	1:25	3:45	2.33	0.33	**					
16	5/28/2022	14:40	15:05	0.42	0.08	**					

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 NPDES Permit Outfall #: May YEAR: 2022
 MONTH: 49
 Average Low Temp: 69
 Average High Temp: 2.56
 Measured Rainfall: 0
 Measured Snowfall: 0

EVENT No.	RAINFALL EVENT			CSO EVENT								
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2022	7:55	9:10	1.25	0.04	**						
2	5/2/2022	15:35	20:30	4.92	0.37	**						
3	5/4/2022	5:30	12:10	6.67	0.10	**						
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**						
5	5/7/2022	14:10	14:15	0.08	0.01	**						
6	5/7/2022	23:20	23:25	0.08	0.01	**						
7	5/13/2022	7:25	7:30	0.08	0.01	**						
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**						
9	5/16/2022	18:35	19:20	0.75	0.19	**						
10	5/19/2022	1:55	11:15	9.33	0.41	**						
11	5/20/2022	18:55	22:50	3.92	0.24	**						
12	5/21/2022	13:25	13:30	0.08	0.01	**						
13	5/24/2022	3:20	3:25	0.08	0.01	**						
14	5/27/2022	2:30	8:30	6.00	0.03	**						
15	5/28/2022	1:25	3:45	2.33	0.33	**						
16	5/28/2022	14:40	15:05	0.42	0.08	**						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 83" in US & 99" in DS

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 MONTH: May YEAR: 2022
 Average Low Temp: 49
 Average High Temp: 69
 Measured Rainfall: 2.56
 Measured Snowfall: 0

EVENT NO.	RAINFALL EVENT			CSO EVENT			OUTFALL Q volume (MG)				
	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY		DATE	START	STOP	DURATION (hours)
1	5/2/2022	7:55	9:10	1.25	0.04	**					
2	5/2/2022	15:35	20:30	4.92	0.37	**					
3	5/4/2022	5:30	12:10	6.67	0.10	**					
4	5/6/2022-5/7/2022	17:40	9:35	15.92	0.58	**					
5	5/7/2022	14:10	14:15	0.08	0.01	**					
6	5/7/2022	23:20	23:25	0.08	0.01	**					
7	5/13/2022	7:25	7:30	0.08	0.01	**					
8	5/14/2022-5/15/2022	17:20	6:20	13.00	0.14	**					
9	5/16/2022	18:35	19:20	0.75	0.19	**					
10	5/19/2022	1:55	11:15	9.33	0.41	**					
11	5/20/2022	18:55	22:50	3.92	0.24	**					
12	5/21/2022	13:25	13:30	0.08	0.01	**					
13	5/24/2022	3:20	3:25	0.08	0.01	**					
14	5/27/2022	2:30	8:30	6.00	0.03	**					
15	5/28/2022	1:25	3:45	2.33	0.33	**					
16	5/28/2022	14:40	15:05	0.42	0.08	**					

TOTAL MONTH
 FLOW VOLUME = 0.000