GNHWPCA
Protecting the Environment
Greater New Haven Water Pollution Control Authority
260 East Street New Haven, CT 06511
203.466.5280 p 203 772.1564 f www.gnhwpca.com

June 29, 2015

Mr. George V. Hicks, P.E,
Department of Energy and Environmental Protection
Planning & Standards Division
Bureau of Water Protection and Land Reuse
79 Elm Street
Hartford, CT 06106-5127

Subject: GNHWPCA Annual Progress Report
Consent Order WC5509

Dear Mr. Hicks:

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 to be used in both the "Annual Progress Report" and "5-yr Update to the LTCP." 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 2015 Hydraulic Model Update Report.

Attachment "B" is a listing of Approval / Denial letters the Authority has received from the DEEP between July 1, 2014 and the date of this letter.

Attachment "C" is a listing of emails between DEEP and the Authority from July 1, 2014 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.

Attachment "D" includes calibrated flow monitoring results obtained from all Permitted CSO outfalls between May 2014 and April 2015. 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

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
Bruce J. Kirkland, P.E., Senior Engineer

w/ Attachments

ATTACHMENT “A”

GNHWPCA

CSO LTCP

ANNUAL STATUS REPORT

FY 2015

ATTACHMENT "A"

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO LONG TERM CONTROL PLAN ANNUAL STATUS REPORT
June 30, 2015

1997 EXISTING CONDITIONS MODEL							CALIBRATED 2013 CONDITIONS MODEL				2015 STATUS				LONG TERM CONTROL PLAN GOAL		
NPDES PERMIT CSO REFERENCE NO.	NO. OF CSO OUTFALLS	NO. OF CSO REGULATOR LOCATIONS	CSO REGULATOR LOCATION	CSO RECEIVING WATER	1997 CSO REGULATOR STATUS	1997 EXISTING CONDITIONS MODEL 2-YEAR DESIGN STORM CSO VOLUME (MG)	CSO LTCP CAPITAL IMPROVEMENTS 1997-2013	2013 CSO REGULATOR STATUS	CALIBRATED 2013 CONDITONS MODEL 2-YEAR DESIGN STORM CSO VOLUME (MG)	REDUCTION 1997-2013 CSO VOLUME (MG)	NPDES PERMIT CSO REFERENCE NO.	PROPOSED NPDES PERMIT CSO REF. NO.	CSO LTCP CAPITAL IMPROVEMENTS & NOTES 2013-2015	2015 CSO REGULATOR STATUS	PROPOSED CAPITAL IMPROVEMENTS	CSO LTCP FINAL CSO STATUS	CSO LTCP FUTURE CONDITIONS MODEL 2-YEAR DESIGN STORM CSO VOLUME (MG)
CSO 001	1	1	East Shore WPAF	New Haven Harbor	Active	No model data		Active	No model data		CSO 001	CSO 001	Wet Weather Improvements	Active	Wet Weather Improvements	Active w/ Treatment	No model data
CSO 002	2	2	E.T.G. Boulevard @ Lamberton Street	West River	Active	1.47	Truman Tank	Closed	0.00	1.47	CSO 002			Closed		Closed	0.00
CSO 003	3	3	E.T.G.Boulevard @ Orange Avenue	West River	Active	0.68	Truman Tank	Active	0.40	0.28	CSO 003	CSO 003	Improvements pending DEEP approval of planning study	Active	Regulator Improvements & CSO Storage Tank	Inactive	0.00
CSO 004	4	4	E.T.G. Boulevard @ Legion Avenue	West River	Active	1.01		Active	1.74	-0.73	CSO 004	CSO 004	Weir raised 8 inches in 2014, further improvements pending DEEP approval of planning study	Active	Regulator Improvements & CSO Storage Tank	Inactive	0.00
CSO 005	5	5	E.T.G. Boulevard @ Derby Avenue	West River	Active	2.43		Active	2.08	0.35	CSO 005	CSO 005	Weir raised 1.45 feet in 2014, further improvements pending DEEP approval of planning study	Active	CSO Storage Tank	Inactive	0.00
CSO 005 (A)		6	University Place		Active	Discharges to CSO 005 outfall		Closed			CSO 005 (A)			Closed		Closed	0.00
CSO 005 (B)		7	Elm / University Place		Active	Discharges to CSO 005 outfall		Closed			CSO 005 (B)			Closed		Closed	0.00
CSO 006	6	8	Whalley Avenue @ Fitch Street	West River	Active	2.34		Active	2.18	0.16	CSO 006	CSO 006		Active	Regulator Improvements & CSO Storage Tank	Inactive	0.00
CSO 007	7	9	Munson Street @ Canal Street	Mill River	Closed	0.00		Closed	0.00	0.00	CSO 007			Closed		Closed	0.00
CSO 008	8	10	Munson Street @ Orchard Street	Beaver Ponds	Active	0.00		Active	0.00	0.00	CSO 008		Closed in 2014	Closed		Closed	0.00
CSO 009	9	11	Grand Avenue @ James Street	Mill River	Active	0.49		Active	0.38	0.11	CSO 009	CSO 009	I&I Project in Progress	Active	Sewer Separation	Inactive	0.00
CSO 010	10	12	East Street @ I-91	Mill River	Active	0.34	Sewer Separation	Active	0.32	0.02	CSO 010		Closed in 2014	Closed		Closed	0.00
CSO 010 (A)		13	East Street @ I-91	Mill River	Active	Discharges to CSO 011 outfall		Active	Discharges to CSO 011 outfall	Discharges to CSO 011 outfall	CSO 010 (A)	R 010 (A)	Sewer Separation Design Complete, Discharges to CSO 011	Active		Inactive	0.00
CSO 011	11	14	Humphrey Street @ I-91	Mill River	Active	6.15	Sewer Separation	Active	2.11	4.04	CSO 011	CSO 011	Sewer Separation Design Complete	Active	CSO Storage Tank	Inactive	0.00
CSO 012	12	15	Mitchell Drive east of Nicoll Street	Mill River	Active	1.01	Sewer Separation	Active	0.15	0.86	CSO 012	CSO 012	Weir raised 6 inches in 2013, Closure pending DEEP approval of planning study, design and construction	Active	Relief Sewer / Close CSO	Closed	0.00
CSO 013	13	16	Everitt Street @ East Rock Road	Mill River	Active	0.05	Sewer Separation	Active	0.00	0.05	CSO 013		Closed in 2014	Closed		Closed	0.00
CSO 013 (A)		17	East Rock Road @ Everitt Street		Active	Discharges to CSO 013 outfall		Closed			CSO 013 (A)			Closed		Closed	0.00
CSO 014		18	Trumbull Street @ Orange Street	Mill River	Active	Discharges to CSO 011 outfall		Active	Discharges to CSO 011 outfall	Discharges to CSO 011 outfall	CSO 014		Closed in 2014	Closed		Closed	0.00
CSO 015	14	19	James Street Siphon	Quinnipiac River	Active	1.50		Active	0.63	0.87	CSO 015	CSO 015	I&I Project in Progress	Active	Sewer Separation & CSO Storage Tank	Inactive	0.00
CSO 016	15	20	Poplar Street @ River Street	Quinnipiac River	Active	1.39		Active	1.27	0.12	CSO 016	CSO 016		Active	Sewer Separation & CSO Storage Tank	Inactive	0.00
CSO 017	16	21	Grand Avenue @ Front Street	Quinnipiac River	Closed	0.00		Closed	0.00	0.00	CSO 017			Closed		Closed	0.00
CSO 018	17	22	Lombard Street @ North Front Street	Quinnipiac River	Active	0.01	Sewer Separation	Closed	0.00	0.01	CSO 018			Closed		Closed	0.00
CSO 019	18	23	Pine Street @ North Front Street	Quinnipiac River	Active	0.43	Sewer Separation	Active	0.25	0.18	CSO 019	CSO 019		Active	Sewer Separation / Close CSO	Closed	0.00
CSO 020	19	24	Quinnipiac Avenue @ Clifton Street	Quinnipiac River	Active	0.12		Active	0.12	0.00	CSO 020	CSO 020	Closure pending DEEP approval of planning study, design and construction	Active	Relief Sewer / Close CSO	Closed	0.00
CSO 021	20	25	East Street Pump Station	New Haven Harbor	Active	1.36	Sewer Separation	Active	1.65	-0.29	CSO 021	CSO 021	Sewer Separation Design Complete; Tide Gate 2013	Active	Major Pump Station Upgrade	Inactive	0.00
CSO 021 (A)		26	Chapel / Hamilton	New Haven Harbor	Active	Discharges to CSO 021 outfall	Sewer Separation	Closed		0.00	CSO 021 (A)			Closed		Closed	0.00
CSO 022	21	27	Allen Place	New Haven Harbor	Active	No model data	Sewer Separation	Closed			CSO 022			Closed		Closed	0.00
CSO 023	22	28	Chestnut Street @ Water Street	New Haven Harbor	Closed	0.00		Closed	0.00	0.00	CSO 023			Closed		Closed	0.00
CSO 024	23	29	Boulevard Pump Station	New Haven Harbor	Active	3.18	Truman Tank	Active	1.94	1.24	CSO 024	CSO 024	Tide Gate 2010	Active	Major Pump Station Upgrade & CSO Storage Tank	Inactive	0.00
CSO 025	24	30	Union Pump Station	New Haven Harbor	Active	1.39	Sewer Separation	Active	1.11	0.28	CSO 025	CSO 025		Active	Major Pump Station Upgrade	Inactive	0.00
CSO 025 (A)		31	Elm / University Place	New Haven Harbor	Active	Discharges to CSO 025 outfall	Sewer Separation	Closed			CSO 025 (A)			Closed		Closed	0.00
CSO 025 (B)		32	Grove / Whitney	New Haven Harbor	Active	Discharges to CSO 025 outfall	Sewer Separation	Closed			CSO 025 (B)			Closed		Closed	0.00
CSO 026		33	Humphrey Pump Station	Mill River	Active	Discharges to CSO 011 outfall	Sewer Separation	Active	Discharges to CSO 011 outfall	Discharges to CSO 011 outfall	CSO 026	R 026	Discharges to CSO 011	Active	Pump Station Upgrade / Close CSO	Closed	0.00
CSO 027	25	34	East / Ives	Mill River	Active	0.42		Closed	0.00	0.42	CSO 027			Closed		Closed	0.00
CSO 028		35	Mitchell Pump Station	Mill River	Active	Discharges to CSO 012 outfall		Active	Discharges to CSO 012 outfall	Discharges to CSO 012 outfall	CSO 028	R 028	Discharge to CSO 012	Active	Pump Station Upgrade / Close CSO	Closed	0.00
CSO 029	26	36	Barnes Pump Station	Quinnipiac River	Active	No model data	Pump Station Upgrade	Closed	0.00		CSO 029			Closed		Closed	0.00
CSO 030	27	37	Quinnipiac Pump Station	Quinnipiac River	Active	No model data	Pump Station Upgrade	Closed	0.00		CSO 030			Closed		Closed	0.00
CSO 031		38	South Frontage / Davenport	New Haven Harbor	Active	Discharges to CSO 025 outfall	Sewer Separation	Active	Discharges to CSO 025 outfall	Discharges to CSO 025 outfall	CSO 031		Closed in 2013	Closed		Closed	0.00
CSO 032		39	Port Sea / Liberty	New Haven Harbor	Active	Discharges to CSO 025 outfall	Sewer Separation	Active	Discharges to CSO 025 outfall	Discharges to CSO 025 outfall	CSO 032		Closed in 2014	Closed		Closed	0.00
CSO 033		40	Carlisle / Liberty	New Haven Harbor	Active	Discharges to CSO 025 outfall	Sewer Separation	Closed			CSO 033			Closed		Closed	0.00
CSO 034		41	George / Temple	New Haven Harbor	Active	Discharges to CSO 025 outfall	Sewer Separation	Active	Discharges to CSO 025 outfall	Discharges to CSO 025 outfall	CSO 034	R 034	Discharge to CSO 025, closure pending DEEP approval of planning study, design and construction	Active	Relief Sewer / Close Regulator	Closed	0.00
CSO 035	28	42	Woodward Pump Station	New Haven Harbor	Active	No model data		Closed	0.00		CSO 035			Closed		Closed	0.00
(not assigned)	29	43	Greene Street	New Haven Harbor	Active	0.27		Active	0.00	0.27	(not assigned)		Closed in 2014	Closed		Closed	0.00
N/A	30	44	Middletown / Front	Quinnipiac River	Closed	0.00		Closed	0.00	0.00	N/A			Closed		Closed	0.00
N/A	31	45	State / James	Mill River	Closed	0.00		Closed	0.00	0.00	N/A			Closed		Closed	0.00
CSO VOLUME (MG)						26.04			16.33	9.71							0.00
CSO VOLUME REDUCTION (%)						0%			37%								100%
NUMBER OF ACTIVE CSO REGULATORS					40			24						19		0	
NUMBER OF INACTIVE / CLOSED CSO REGULATORS					5			21						26		45	
NUMBER OF ACTIVE CSO OUTFALLS					26			12						15		0	
NUMBER OF INACTIVE / CLOSED CSO OUFALLS					5			19						23		38	

LEGEND/NOTES	
	DENOTES CSO OUTFALL CURRENTLY INACTIVE/CLOSED
	DATA OBTAINED FROM 2015 HYDRAULIC MODEL UPDATE REPORT

DEFINITIONS	
ACTIVE	ACTIVE CSO DURING A 2-YEAR STORM FREQUENCY
INACTIVE	INACTIVE CSO DURING STORM FREQUENCIES BELOW 2-YEARS
CLOSED	CLOSED - BULKHEADED CSO - CLOSED FOR ALL STORMS

ATTACHMENT “B”

DEEP LETTER CORRESPONDENCE

FY 2015

GNHWPCA
Protecting the Environment

FY 2015 DEEP LETTER CORRESPONDENCE						
APPROVAL DATE	LETTER TYPE	CWF #	PROJECT	Amount	TO	FROM
07/21/14	Pre-Approval	441-C	ESWPAF Phase 1 Change Order 1	$41,101	Sid Holbrook	Dennis J. Greci, PE
07/25/14	Approval	441-C	ESWPAF Phase 1 Change Order 1	$41,101	Sid Holbrook	Dennis J. Greci, PE
08/01/14	Approval	670-PG	Flow Metering Extension Amendment No. 1	$78,000	Sid Holbrook	Denise Ruzicka, PE
08/07/14	Approval	211	I/I Rehabilitation Construction Engineering Services	$345,000	Sid Holbrook	Denise Ruzicka, PE
08/15/14	Authorization	211-CSL	Authorization to Award	$3,330,344.50	Sid Holbrook	Denise Ruzicka, PE
09/05/14	Approval	441-C	ESWPAF Phase 1 Change Order 2	$25,150	Sid Holbrook	Dennis J. Greci, PE
10/15/14	Pre-Approval	441-C	ESWPAF Phase 1 Change Order 3	$107,080	Sid Holbrook	Dennis J. Greci, PE
10/27/14	Approval	441-C	ESWPAF Phase 1 Change Order 3	$107,081	Sid Holbrook	Dennis J. Greci, PE
11/13/14	Approval	441-C	ESWPAF Phase 1 Change Order 4	$80,710	Sid Holbrook	Dennis J. Greci, PE
11/14/14	Pre-Approval	441-C	ESWPAF Phase 1 Change Order 6	$233,494	Sid Holbrook	Dennis J. Greci, PE
11/19/15	Approval	441-C	ESWPAF Phase 1 Change Order 5	$84,751	Sid Holbrook	Dennis J. Greci, PE
11/24/14	Pre-Approval	441-C	ESWPAF Phase 1 Change Order 7	$84,247	Sid Holbrook	Dennis J. Greci, PE
11/25/14	Approval	441-C	ESWPAF Phase 1 Change Order 6	$233,494	Sid Holbrook	Dennis J. Greci, PE
12/08/14	Approval	441-C	ESWPAF Phase 1 Change Order 7	$84,247	Sid Holbrook	Dennis J. Greci, PE
01/30/15	Pre-Approval	441-C	ESWPAF Phase 1 Change Order 8	$106,900	Sid Holbrook	Dennis J. Greci, PE
01/30/15	Approval	441-C	ESWPAF Phase 1 Change Order 4 (Revised)	$91,640	Sid Holbrook	Dennis J. Greci, PE
01/30/15	Approval	441-C	ESWPAF Phase 1 Change Order 8	$106,900	Sid Holbrook	Dennis J. Greci, PE
03/12/15	Pre-Approval	441-C	ESWPAF Phase 1 Change Order 9	$41,019	Sid Holbrook	Dennis J. Greci, PE
03/25/15	Approval	670-PG	Hydraulic Model Update Amendment No. 2	$64,000	Sid Holbrook	Denise Ruzicka, PE
04/06/15	Approval	441-C	ESWPAF Phase 1 Change Order 9 (Revised)	$47,537	Sid Holbrook	Dennis J. Greci, PE
04/24/15	Approval	441-C	ESWPAF Phase 1 Change Order 4 (Revision 2)	$60,489	Sid Holbrook	Dennis J. Greci, PE
05/11/15	Acknowledgement	CO WC5509	Letter to DEEP and GNH from EPA	n/a	Sid Holbrook	Jack Melcher
05/18/15	Approval	441-C	ESWPAF Phase 1 Change Order 10	$107,885	Sid Holbrook	Dennis J. Greci, PE
05/19/15	Pre-Approval	441-C	ESWPAF Phase 1 Change Order 11	$37,874	Sid Holbrook	Dennis J. Greci, PE
05/28/15	Pre-Approval	441-C	ESWPAF Phase 1 Change Order 12	$0	Sid Holbrook	Dennis J. Greci, PE
06/15/15	Approval	441-C	ESWPAF Phase 1 Change Order 13	$96,910	Sid Holbrook	Dennis J. Greci, PE
06/18/15	Approval	441-C	ESWPAF Phase 1 Change Order 11	$42,780	Sid Holbrook	Dennis J. Greci, PE

ATTACHMENT "C"

DEEP/GNHWPCA

LETTER & EMAIL

CORRESPONDENCE

FY 2015

GNHWPCA
Protecting the Environment

FY 2015 GNHWPCA LETTER & E-MAIL CORRESPONDENCE/TRANSMITTALS

DATE	DOCUMENT TYPE	CWF #	PROJECT	TO	FROM
06/12/14	Transmittal	649PG	State St Hamden Area 10 East Haven I/I Req. to Award	I.Hall, PE	Mario Ricozzi, PE
06/27/15	Report	CO WC5509	GNHWPCA Annual Progress Report	G. Hicks, PE	Sidney J. Holbrook
07/24/14	Transmittal	441-C	ESWPAF Phase 1 Change Order 1	S.Muollo	Mario Ricozzi, PE
07/25/14	Transmittal	441-C	Task Order CH2M 15 Amendment 1 - Hydraulic Model	I.Hall, PE	Mario Ricozzi, PE
08/05/14	Notification	Permit	CSO Closures and Weir Adjustments	G. Hicks, PE	Tom Sgroi, PE
08/14/15	Report (FedEx)	668-PG	West River CSO Abatement Preliminary Design Report Memo	G. Hicks, PE	B.Buckley
08/20/14	Email/Info	Permit	Regulator 12 Response to EPA Phone Questions	Jack Melcher/G. Hicks	Tom Sgroi, PE
08/29/14	Trans/email	441-C	ESWPAF Phase 1 Change Order 2	S.Muollo	Mario Ricozzi, PE
09/18/14	Report	668-PG	Green Infrastructure Suitablity Pilot Study	S.Pappano	Tom Sgroi, PE
10/24/14	Transmittal	441-C	ESWPAF Phase 1 Change Order 3	S.Muollo	Mario Ricozzi, PE
11/07/14	Transmittal	441-C	ESWPAF Phase 1 Change Order 4	S.Muollo	Mario Ricozzi, PE
11/12/14	Transmittal	441-C	ESWPAF Phase 1 Change Order 5	S.Muollo	Mario Ricozzi, PE
11/10/14	Report (FedEx)	n/a	Construction of Relief Sewers Preliminary Design Report	G. Hicks, PE	B.Buckley
11/20/14	Transmittal	441-C	ESWPAF Phase 1 Change Order 6	S.Muollo	Mario Ricozzi, PE
12/05/14	Transmittal	441-C	ESWPAF Phase 1 Change Order 7	S.Muollo	Mario Ricozzi, PE
12/22/14	Trans/Email	CO WC5509	Two Year Bid Schedule	G. Hicks, PE	Tom Sgroi, PE
01/13/15	Transmittal	676	I/I Rehab State St Hamden and Lower Farm River East Haven - Contract/Plans	S.Pappano	Mario Ricozzi, PE
01/23/15	Transmittal	677	I/I Rehab State St Hamden and Lower Farm River East Haven - Task Order	S.Pappano	Mario Ricozzi, PE
02/05/15	Transmittal	441-C	ESWPAF Phase 1 Change Order 8	S.Muollo	Mario Ricozzi, PE
03/13/15	Transmittal	678	I/I Rehab State St Hamden and Lower Farm River East Haven - MBE / WBE	S.Pappano	Mario Ricozzi, PE
04/02/15	Transmittal	441-C	ESWPAF Phase 1 Change Order 9	S.Muollo	Mario Ricozzi, PE
04/02/15	Transmittal	441-C	ESWPAF Phase 1 Change Order 10	S.Muollo	Mario Ricozzi, PE
04/27/15	Letter	CO WC5509	Joint DEEP / GNHWPCA Consent Order Negotiation Letter to EPA	J.Melcher	Ruzicka/Holbrook
05/21/15	Email/Trans	441-C	Draft Change Order 12 (Nitrogen Credits)	S.Muollo	Mario Ricozzi, PE
05/29/15	Letter	n/a	FY 16-17 Draft Priority List	G. Hicks, PE	Tom Sgroi, PE
06/12/14	Transmittal	441-C	ESWPAF Phase 1 Change Order 11	S.Muollo	Mario Ricozzi, PE
06/12/14	Transmittal	441-C	ESWPAF Phase 1 Change Order 13	S.Muollo	Mario Ricozzi, PE
06/17/15	Letter	CO WC5509	Executed Copies of Modified Consent Order	D.Ruzicka	Tom Sgroi, PE

ATTACHMENT “D”

ANNUAL CSO FLOW MONITORING DATA

JUNE 2015

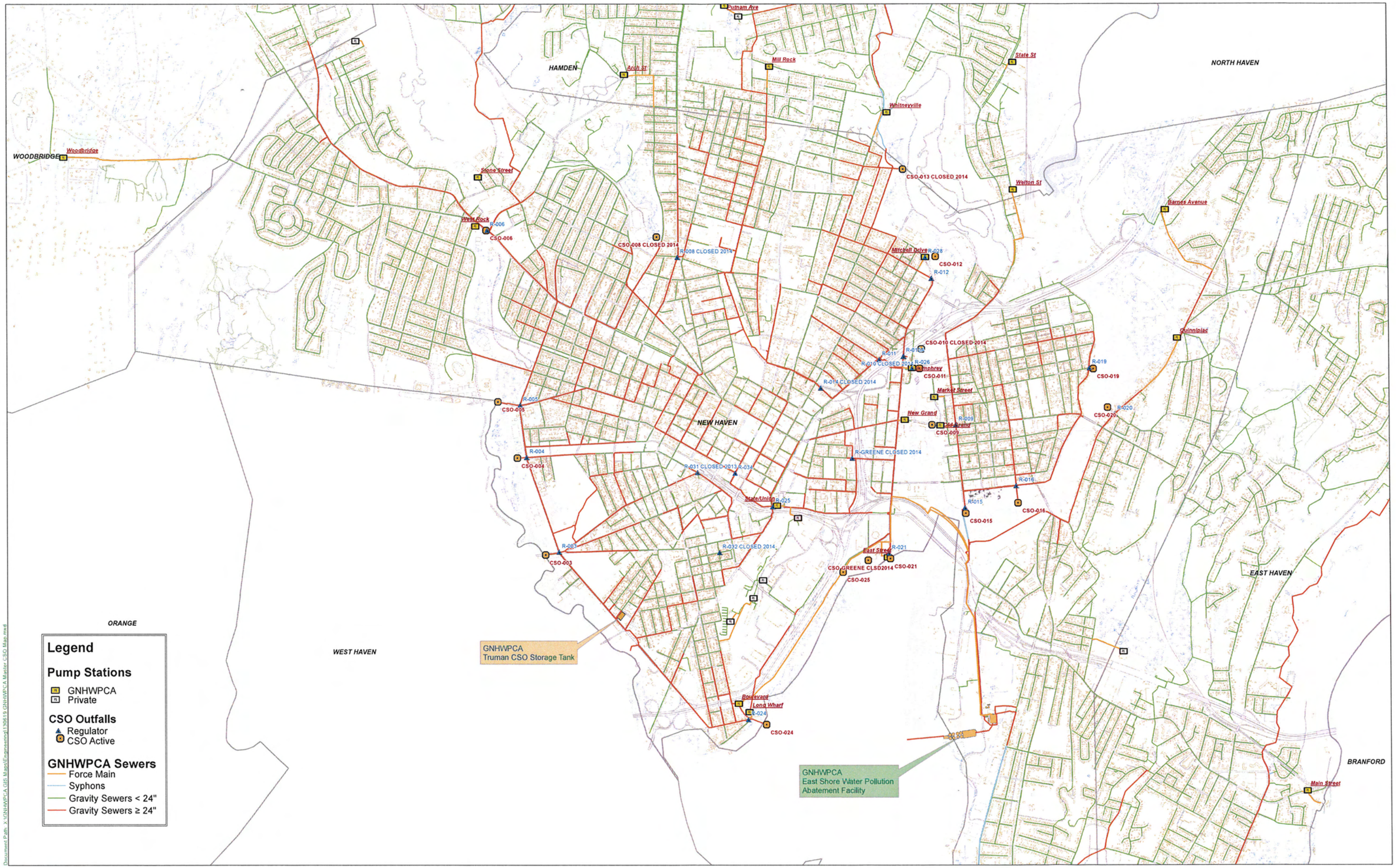
ATTACHMENT "D"

JUNE 2015
ANNUAL CSO FLOW MONITORING PROGRAM DATA

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UPDATED SEWER MAP



GNHWPCA
Protecting the Environment

Disclaimer:
This map was created as a tool for planning purposes only. Although compiled from recent digital data, there is no guarantee that the data is free from errors and omissions.

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

N

1 inch = 1,250 feet

6/19/2015

ATTACHMENT "D"

GREATER NEW HAVEN

WATER POLLUTION CONTROL AUTHORITY

GNHWPCA
Protecting the Environment

JUNE 2015

ANNUAL CSO FLOW MONITORING

PROGRAM DATA

ATTACHMENT "D"

JUNE 2015
ANNUAL CSO FLOW MONITORING PROGRAM DATA

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REGULATOR & CSO

DESIGNATION & STATUS

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

REGULATOR AND CSO DESIGNATIONS AND STATUS

12-Feb-15

(1) NPDES CSO #	(1) NPDES REGULATOR LOCATION	(1) NPDES CSO RECEIVING WATER	(1) NPDES CSO STATUS	(2) CSO #	(2) CSO STATUS	(2) REG #	(2) REG STATUS
#003	E.T. Grasso Boulevard @ Orange Av	West River	Active	#003	Active	#003	Weir replaced in 2012
#004	E.T. Grasso Boulevard @ Legion Av	West River	Active	#004	Active	#004	Weir raised 8 inches in 2014
#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	Active
#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 replaced in 2012
#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)	Active
#011	Humphrey St @ I-91	Mill River	Active	#011	Active	#011	Active
#012	Mitchell Dr east of Nicoll St	Mill River	Active	#012	Active	#012	Weir raised 6 inches in 2013
#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	Active
#016	Poplar St @ River St	Quinnipiac River	Active	#016	Active	#016	Weir repaired in 2014
#019	Pine St @ North Front St	Quinnipiac River	Active	#019	Active	#019	Active
#020	Quinnipiac Av @ Clifton St	Quinnipiac River	Active	#020	Active	#020	Active
#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	Active
#025	Union Pump Station (Union & State St)	New Haven Harbor	Active	#025	Active	#025	Weir repaired in 2014
#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	Active
#027	East/Ives	Mill River	Active	None	Closed prior to 2008	None	Closed prior to 2008
#028	Mitchell Pump Station	Mill River	Active	#012	Active	#028	Active
#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	Weir raised 2 feet in 2014
	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
				14	**ACTIVE CSOs**	**18**	**ACTIVE REGULATORS**

(1) NPDES Permit # CT 0100366 dated January 25, 2011

(2) Ongoing CSO Flow Monitoring Program initiated in June 2012

METER LOCATION

SUMMARY

GREATER NEW HAVEN WPCA
CSO FLOW MONITORING PROGRAM
METER LOCATION SUMMARY
MARCH 27, 2015

UPDATED TO NAVD88 DATUM

0F-003 SEWER AND OVERFLOW

- Meter OF-003 Sewer was installed in the 72 inch wide by 67 inch high sewer downstream of REG 003 on 6/5/12 at an invert elevation of 1.34 (overflow depth is 46 inches)
- Meter OF-003 Overflow was installed in the 54 inch overflow pipe on 6/5/12 at an invert elevation of 1.70
- The regulator consists of an 5 foot long transverse weir
- CSO start and stop times are based on a depth greater than 46 inches at Meter OF-003 Sewer and positive velocities at Meter OF-003 Overflow
- CSO volumes are calculated based on depths and velocities at Meter OF-003 Overflow, the hydraulic elements chart and the Continuity Equation
- There is significant tidal influence at Meter OF-003 Overflow

0F-004 SEWER AND OVERFLOW

- Meter OF-004 Sewer was installed in the 72 inch wide by 64 inch high sewer downstream of REG 004 on 6/6/12 at an invert elevation of 3.00 (overflow depth is 43 inches)
- Meters OF-004 Overflow was installed in the 5 foot wide by 3 foot high box culvert overflow on 6/6/12 at an invert elevation of 3.01
- The regulator consists of three weirs, each two feet wide. The weirs were raised 8 inches on 7/25/14 to elevation 6.59
- CSO start and stop times are based on a depth greater than 43 inches at Meter OF-004 Sewer and positive velocities at Meter OF-004 Overflow
- CSO volumes are calculated based on depths and velocities at Meter OF-004 Overflow, the hydraulic elements chart and the Continuity Equation

0F-005 SEWER AND OVERFLOW

- Meter OF-005 Sewer was installed in the 60 inch wide by 57 inch high sewer at REG 005 on 6/7/12 at an elevation of 4.27 (5 inches above the invert due to sediment) (overflow depth is 72 inches)
- Meter OF-005 Overflow was installed in the 48 inch overflow pipe on 6/7/12 at an invert elevation of 7.35 downstream of the 36 inch drain connection
- Meter OF-005 Overflow was reinstalled in the 48 inch overflow pipe on 11/17/13 at an invert elevation of 7.35 upstream of the 36 inch drain connection
- A new overflow weir was constructed on 7/25/14 at an elevation of 10.25

- CSO start and stop times are based on a depth greater than 72 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

0F-006 SEWER, OVERFLOW AA AND OVERFLOW BB

- Meter OF-006 Sewer was installed in the 36 inch sewer upstream of the two overflow pipes on 6/4/12 at an invert elevation of 7.20 (overflow depth is 27 inches)
- Meters OF-006 Overflows AA and BB were installed in the twin 24 inch overflow pipes on 7/30/12 at an invert elevation of 9.49
- CSO start and stop times are based on a depth greater than 27 inches at Meter OF-006 Sewer and positive velocities at Meters OF-006 Overflows AA and BB
- CSO volumes are calculated based on depths and velocities at Meters OF-006 Overflows AA and BB, the hydraulic elements chart and the Continuity Equation

OF-009 OVERFLOW

- Meter OF-009 Overflow was installed in the 30 inch wide by 45 inch high overflow pipe on 10/3/12 at an invert elevation of 2.45 (overflow depth is only 25 inches)
- The regulator consists of a 5.5 foot long weir at an elevation of 4.65. The weir was rebuilt on January 27, 2013
- CSO start and stop times are based on a 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

REG 010A (CSO 011)

- Meter REG 010A was installed in the 54 inch sewer at REG 010A on 12/20/12 at an invert elevation of 7.42 (overflow depth is 62 inches)
- The regulator is a 114 inch wide weir at elevation 12.62
- CSO start and stop times at REG 010A are based on a depth greater than 62 inches at Meter REG 010A
- CSO volumes at REG 010A are calculated based on depth over the 114 inch weir at REG 010A using the weir formula

REG 011 (METERS 0F-011-997, 609, 631 AND 819) (CSO 011)

- Four meters were installed in December 2012 to estimate CSOs at REG 011
- Meter OF-011-997 was installed in the 30 inch sewer on State Street upstream of the 42 inch discharge pipe– **(THIS METER WAS REMOVED IN SEPTEMBER 2013)** Metered flows were very consistent and relatively small

- Meter OF-011-609 was installed in the 37 inch wide by 25 inch high sewer on Humphrey Street upstream of REG 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 REG 011
- Meter OF-011-819 was installed in the 42 inch discharge pipe downstream of REG 011 and Meter OF-011-631
- CSO start and stop times at REG 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 REG 011 are estimated using the resultant flows as calculated above
- Total CSO volumes from CSO 011 are estimated by summing the CSO volumes from REG 010A, REG 011 and REG 026

REG 026 AT HUMPHREY STREET PUMP STATION

- Regulator 026 is a 10 inch overflow pipe from the Humphrey Street PS wetwell to CSO 011
- The SCADA system monitors the depth in the wetwell
- When depths in the wetwell exceed 74 inches an overflow is occurring

REG 012

- Meters OF-012 Overflows A and B were installed in the twin 18 inch overflow pipes on 10/15/12 at an invert elevation of 13.05 **(THESE METERS WERE RELOCATED IN SEPTEMER 2014)**
- New 6 inch high weirs were installed in each 18 inch overflow pipes on 5/3/13 at an elevation of 13.65 (raising the overflow depth to 36 inches)
- The new Meter REG-012 was installed in the 36 inch wide by 55 inch high sewer, three manholes downstream of REG 012, at an invert elevation of 9.89 (overflow depth is 36 inches)
- CSO start and stop times at REG 012 are based on a depth greater than 36 inches at Meter REG 012
- CSO volumes at REG 012 are calculated based on depth over the equivalent 1.08 foot long weir at REG 012 using the weir formula

REG 028 AT MITCHELL DRIVE PUMP STATION

- Regulator 028 is a 15 inch overflow pipe from the Mitchell Drive PS wetwell to CSO 012
- The SCADA system monitors the depth in the wetwell
- When depths in the wetwell exceed 102 inches a CSO is occurring

0F-015 US and DS SEWERS

- Meter OF-015 US Sewer was installed in the 45 inch sewer upstream of REG 015 on 10/3/12 at an invert elevation of -1.21
- Meter OF-015 DS Sewer was installed in the 48 inch sewer to the James Street siphon inlet downstream of REG 015 on 10/3/12 at an invert elevation of -2.15 (overflow depth is 40.5 inches)

- 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
- CSO start and stop times are based on depths greater than 40.5 inches at Meter OF-015 DS Sewer
- CSO volumes are calculated by subtracting the Meter 015 DS Sewer flows from the Meter 015 US Sewer flows

0F-016 OVERFLOW

- Meter OF-016 Overflow was installed in the 48 inch wide by 60 inch high overflow pipe on 8/30/12 at an invert elevation of -0.43
- The regulator consists of an 3.8 foot long weir at an elevation of 2.35
- CSO start and stop times are based on a positive velocities at Meter OF-016 Overflow
- CSO volumes are calculated based on depths and velocities at Meter OF-016 Overflow, the hydraulic elements chart and the Continuity Equation
- There is significant tidal influence at Meter OF-016 Overflow (even though there is a duckbill)

0F-019 OVERFLOW

- Meter OF-019 Overflow was installed in the 24 inch overflow pipe on 8/13/12 at an invert elevation of 3.75
- The regulator consists of twin 15 inch overflow pipes at an elevation of 5.53
- CSO start and stop times are based on a positive velocities at Meter OF-019 Overflow
- CSO volumes are calculated based on depths and velocities at Meter OF-019 Overflow, the hydraulic elements chart and the Continuity Equation
- There is significant tidal influence at Meter OF-019 Overflow

OF-020 SEWER AND OVERFLOW

- Meter OF-020 Overflow (depth sensor) was installed in the 15 inch overflow pipe at REG 020 on 3/25/13 at an invert elevation of 12.90
- Meter OF-020 Sewer was installed in the 24 inch sewer at REG 020 on 3/25/13 at an invert elevation of 10.45 (overflow depth is 30 inches)
- The regulator is a 15 inch pipe
- CSO start and stop times are based on a depth greater than 30 inches at REG-020
- CSO volumes are calculated based on depth over the 30 inches at REG-020 using the hydraulic elements chart and the Continuity Equation

REG 021-OF AND OF-021 US SEWER (E ST PS SEWER)

- Meter OF-021 US Sewer (E St PS) was installed in the 62 inch wide by 67 inch high sewer upstream of REG 021 on 9/13/12 at an invert elevation of -0.95
- Meter OF-021 was installed in REG 021 on 11/15/12 at an invert elevation of -2.21 (overflow depth is 90 inches)
- The regulator is twin 84 inch wide steel plate weirs at elevation 5.29

- There is a duckbill on the overflow pipe
- CSO start and stop times are based on a depth greater than 90 inches at REG 021
- CSO volumes are calculated based on depth over the twin 84 inch weirs at REG 021 using the weir formula

0F-024 US and DS SEWER AND REG 024 WEIR

- Meter OF-024 US Sewer was installed in the 84 inch wide by 69 inch high sewer upstream of REG 024 on 7/30/12 at an invert elevation of -2.22 (overflow depth is 65 inches)
- Meter OF-024 DS Sewer was installed in the 48 inch sewer downstream of REG 024 on 7/30/12 at an invert elevation of -3.19 (overflow depth is 81 inches)
- Meter 024 Weir was installed to measure weir depth at REG 024 on 10/31/12 at the weir elevation of 2.99
- The regulator consists of three weirs each 4.5 feet wide
- CSO start and stop times are based on depths greater than 65 inches at Meter OF-024 US Sewer, depths greater than 81 inches at Meter OF-024 DS Sewer (verified by the Meter 024 Weir depths)
- CSO volumes are calculated by subtracting the Meter OF-024 DS flows from the Meter OF-024 US flows

REG 025 (METERS State, Frontage, Columbus and weir) (CSO 025)

- Four meters were installed in September 2013 to estimate CSOs at REG 025
- Meter State was installed in the 48 inch wide by 60 inch high sewer on State Street upstream of REG 025 at an invert of 3.87
- Meter Frontage was installed in the 30 inch sewer on North Frontage Road upstream of REG 025 at an invert of 1.95
- Meter Columbus was installed in the 30 inch sewer on Columbus Avenue in November 2013 at an invert of -1.78
- Meter REG 025 weir was installed in REG 025 in November 2013. Sensors are metering the depths above the overflow elevation on each side of the overflow weir
- The overflow weir is 45 inches long and is made up of stainless steel plates at an overflow elevation of 5.35
- CSO or stormwater inflow start and stop times are estimated based on the depths at the overflow weir
- CSO or stormwater inflow volumes are estimated using the weir formula

REG 034 (METERS Temple, George, and weir) (CSO 025)

- Three meters were installed in September 2013 to estimate CSOs at REG 034
- Meter Temple was installed in the 25 inch wide by 37 inch high sewer on Temple Street upstream of REG 034
- Meter George was installed in the 36 inch wide by 48 inch high sewer on George Street upstream of REG 034

- Meter REG 034 weir was installed in REG 034 in November 2013. Sensors are metering the depths on each side of the overflow weir above the overflow elevation
- The overflow weir consists of wood stop logs, 6.6 feet long. The overflow elevation was raised two feet by adding stop logs to elevation 13.65 on 8/1/14
- CSO or stormwater inflow start and stop times are estimated based on the depths at the overflow weir
- CSO or stormwater inflow volumes are estimated using the weir formula

GNH1 SEWER AT TRUMAN TANK

- Meter GNH1 Sewer was installed in the 72 inch wide by 64 inch high sewer downstream of the Truman Tank Diversion Chamber on 6/12/12 at an invert elevation of 0.25 (there is 14 inches of hard packed sediment in the Diversion Chamber) (overflow depth is 36 inches)
- The regulator is a 10 foot 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 Sewer and SCADA depths in the Truman Tank
- CSO storage volumes are calculated based on SCADA depths in the Truman Tank

METER DATA

SUMMARY

MAY 2014 – APRIL 2015

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - MAY 2014 THROUGH APRIL 2015

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	14	2.916	41.60	12
CSO 005	REG 005	3	0.082	28.39	9
CSO 004	REG 004	17	2.780	28.39	9
CSO 003	REG 003	31	2.351	41.60	12
CSO 024	REG 024	5	2.060	37.00	11
CSO 009	REG 009	20	0.663	41.60	12
CSO 019	REG 019	8	0.150	41.60	12
CSO 016	REG 016	24	3.293	41.60	12
CSO 015	REG 015	25	2.405	41.60	12
CSO 010	REG 010	3	1.094	13.21	3
CSO 011	REGS 010A, 011, 026	6	4.518	41.60	12
CSO 012	REGS 012A, 012B, 028	0	0.000	24.90	7
CSO 025	REGS 025, 034	2	0.028	28.39	9
CSO 021	REG 021	11	5.328	41.60	12
CSO 020	REG 020	3	0.042	41.60	12
TOTAL		**172**	**27.710**		

METER DATA

APRIL 2015

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - APRIL 2015

MONTHLY RAINFALL SUMMARY

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

No snow

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

One 3 to 6 month storm, one 1 month storm, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	1	0.046
CSO 005	REG 005	0	0.000
CSO 004	REG 004	2	0.044
CSO 003	REG 003	2	0.176
CSO 024	REG 024	0	0.000
CSO 009	REG 009	1	0.094
CSO 019	REG 019	1	0.035
CSO 016	REG 016	1	0.184
CSO 015	REG 015	2	0.348
CSO 011	REGS 010A, 011, 026	0	0.000
CSO 012	REGS 012A, 012B, 028	0	0.000
CSO 025	REGS 025, 034	1	0.023
CSO 021	REG 021	0	0.000
CSO 020	REG 020	0	0.000
TOTAL		**11**	**0.950**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH APRIL 2015

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	42	11.761	120.55	35
CSO 005	REG 005	3	0.082	24.76	9
CSO 004	REG 004	17	2.780	24.76	9
CSO 003	REG 003	94	33.841	120.55	35
CSO 024	REG 024	26	26.230	110.35	32
CSO 009	REG 009	58	3.427	103.21	31
CSO 019	REG 019	33	1.593	114.95	33
CSO 016	REG 016	73	29.103	105.24	33
CSO 015	REG 015	56	8.007	103.21	31
CSO 011	REGS 010A, 011, 026	21	13.753	98.84	29
CSO 012	REGS 012A, 012B, 028	0	0.000	21.27	7
CSO 025	REGS 025, 034	2	0.028	24.76	9
CSO 021	REG 021	37	30.038	99.84	30
CSO 020	REG 020	7	0.270	83.29	25
TOTAL		**469**	**160.913**		

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]
CSO 006	REGS 006 A, 006 B	14	4.026	14	4.032
CSO 005	REG 005	5	0.137	4	0.109
CSO 004	REG 004	28	4.634	23	3.707
CSO 003	REG 003	32	11.585	32	11.603
CSO 024	REG 024	10	9.810	10	9.836
CSO 009	REG 009	23	1.370	22	1.327
CSO 019	REG 019	12	0.572	12	0.579
CSO 016	REG 016	29	11.413	27	10.583
CSO 015	REG 015	22	3.202	22	3.099
CSO 011	REGS 010A, 011, 026	9	5.742	9	5.691
CSO 012	REGS 012A, 012B, 028	0	0.000	0	0.000
CSO 025	REGS 025, 034	3	0.047	3	0.037
CSO 021	REG 021	15	12.417	15	12.015
CSO 020	REG 020	3	0.134	3	0.130
TOTAL		**203**	**64.954**	**192**	**62.619**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date

(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date

(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date

(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: April **YEAR:** 2015
Average Low Temp: 38
Average High Temp: 57
Measured Rainfall: 2.16
Measured Snowfall: 0.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month	4/20/2015	13:00	16:35	3.58	0.766	0.114
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month	4/21/2015	2:05	2:50	0.75	1.995	0.062
9	4/22/2015	16:45	19:50	3.08	0.10	***						

TOTAL MONTH FLOW VOLUME = 0.176

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: April **YEAR:** 2015
Average Low Temp: 38
Average High Temp: 57
Measured Rainfall: 2.16
Measured Snowfall: 0.00

	RAINFALL EVENT						CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month	4/20/2015	13:20	16:15	2.92	0.239	0.029
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month	4/21/2015	2:05	3:10	1.08	0.330	0.015
9	4/22/2015	16:45	19:50	3.08	0.10	***						

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
LOCATION: 005
NPDES Permit Outfall #:
MONTH: April **YEAR:** 2015
Average Low Temp: 38
Average High Temp: 57
Measured Rainfall: 2.16
Measured Snowfall: 0.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month						
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	Whalley Ave. 30 yrds from Fitch Street		
LOCATION:	006		
NPDES Permit Outfall #:			
MONTH:	April	**YEAR:**	2015
Average Low Temp:	38		
Average High Temp:	57		
Measured Rainfall:	2.16		
Measured Snowfall:	0.00		

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month	4/21/2015	2:20	2:50	0.50	2.208	0.046
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	Grand Avenue & James Street		
LOCATION:	009		
NPDES Permit Outfall #:			
MONTH:	April	**YEAR:**	2015
Average Low Temp:	38		
Average High Temp:	57		
Measured Rainfall:	2.16		
Measured Snowfall:	0.00		

	RAINFALL EVENT						CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month	4/21/2015	2:05	2:40	0.58	3.865	0.094
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	547 East Street
LOCATION:	010A
NPDES Permit Outfall #:	
MONTH:	April **YEAR:** 2015
Average Low Temp:	38
Average High Temp:	57
Measured Rainfall:	2.16
Measured Snowfall:	0.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month						
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: April YEAR: 2015
Average Low Temp: 38
Average High Temp: 57
Measured Rainfall: 2.16
Measured Snowfall: 0.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month						
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive
LOCATION: 012
NPDES Permit Outfall #:
MONTH: April **YEAR:** 2015
Average Low Temp: 38
Average High Temp: 57
Measured Rainfall: 2.16
Measured Snowfall: 0.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month						
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: April **YEAR:** 2015
Average Low Temp: 38
Average High Temp: 57
Measured Rainfall: 2.16
Measured Snowfall: 0.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month	4/20/2015	13:40	15:30	1.83	1.409	0.108
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month	4/21/2015	2:10	3:10	1.00	5.759	0.240
9	4/22/2015	16:45	19:50	3.08	0.10	***						

Expected capacity of siphon is between 24 and 30 MGD.

TOTAL MONTH

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	Int. River & Poplar		
LOCATION:	016		
NPDES Permit Outfall #:			
MONTH:	April	**YEAR:**	2015
Average Low Temp:	38		
Average High Temp:	57		
Measured Rainfall:	2.16		
Measured Snowfall:	0.00		

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month	4/21/2015	2:15	2:30	0.25	17.636	0.184
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	279 Front Street		
LOCATION:	019		
NPDES Permit Outfall #:			
MONTH:	April	**YEAR:**	2015
Average Low Temp:	38		
Average High Temp:	57		
Measured Rainfall:	2.16		
Measured Snowfall:	0.00		

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month	4/21/2015	2:20	2:30	0.17	4.996	0.035
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: April **YEAR:** 2015
Average Low Temp: 38
Average High Temp: 57
Measured Rainfall: 2.16
Measured Snowfall: 0.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month						
9	4/22/2015	16:45	19:50	3.08	0.10	***						

Note: Overflow occurs when level is 31" in the interceptor.

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: April **YEAR:** 2015
Average Low Temp: 38
Average High Temp: 57
Measured Rainfall: 2.16
Measured Snowfall: 0.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month						
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: April **YEAR:** 2015
Average Low Temp: 38
Average High Temp: 57
Measured Rainfall: 2.16
Measured Snowfall: 0.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month						
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: April **YEAR:** 2015
Average Low Temp: 38
Average High Temp: 57
Measured Rainfall: 2.16
Measured Snowfall: 0.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month						
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	George and Temple		
LOCATION:	Regulator 34		
NPDES Permit Outfall #:			
MONTH:	April	**YEAR:**	2015
Average Low Temp:	38		
Average High Temp:	57		
Measured Rainfall:	2.16		
Measured Snowfall:	0.00		

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	4/3/2015	3:35	20:15	16.67	0.09	***						
2	4/4/2015	4:50	6:05	1.25	0.03	***						
3	4/7/2015	12:10	18:15	6.08	0.23	***						
4	4/8/2015-4/9/15	21:40	0:45	3.08	0.06	***						
5	4/10/2015	6:10	7:30	1.33	0.07	***						
6	4/17/2015	5:10	9:30	4.33	0.21	***						
7	4/20/2015	5:00	21:35	16.58	0.81	1 month						
8	4/21/2015	1:10	4:35	3.42	0.56	3 to 6 month	4/21/2015	2:05	2:25	0.33	1.629	0.023
9	4/22/2015	16:45	19:50	3.08	0.10	***						
										TOTAL MONTH		

METER DATA

MARCH 2015

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - MARCH 2015

MONTHLY RAINFALL SUMMARY

3.85 inches of rain (3.44 inches of rain in a typical month)
10.70 inches of snow
13 rain events (10 rain events in a typical month)
One 1 month storm, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	0	0.000
CSO 005	REG 005	0	0.000
CSO 004	REG 004	1	0.226
CSO 003	REG 003	1	0.084
CSO 024	REG 024	0	0.000
CSO 009	REG 009	1	0.019
CSO 019	REG 019	0	0.000
CSO 016	REG 016	1	0.324
CSO 015	REG 015	0	0.000
CSO 011	REGS 010A, 011, 026	0	0.000
CSO 012	REGS 012A, 012B, 028	0	0.000
CSO 025	REGS 025, 034	0	0.000
CSO 021	REG 021	0	0.000
CSO 020	REG 020	0	0.000
TOTAL		**4**	**0.653**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH MARCH 2015

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	41	11.715	118.39	34
CSO 005	REG 005	3	0.082	22.60	8
CSO 004	REG 004	15	2.736	22.60	8
CSO 003	REG 003	92	33.665	118.39	34
CSO 024	REG 024	26	26.230	108.19	31
CSO 009	REG 009	57	3.333	101.05	30
CSO 019	REG 019	32	1.558	112.79	32
CSO 016	REG 016	72	28.919	103.08	32
CSO 015	REG 015	54	7.659	101.05	30
CSO 011	REGS 010A, 011, 026	21	13.753	96.68	28
CSO 012	REGS 012A, 012B, 028	0	0.000	19.11	6
CSO 025	REGS 025, 034	1	0.005	22.60	8
CSO 021	REG 021	37	30.038	97.68	29
CSO 020	REG 020	7	0.270	81.13	24
TOTAL		**458**	**159.963**		

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]
CSO 006	REGS 006 A, 006 B	14	4.084	14	4.135
CSO 005	REG 005	5	0.150	5	0.123
CSO 004	REG 004	27	4.996	23	4.104
CSO 003	REG 003	32	11.735	32	11.882
CSO 024	REG 024	10	10.006	10	10.154
CSO 009	REG 009	23	1.361	23	1.333
CSO 019	REG 019	12	0.570	12	0.584
CSO 016	REG 016	29	11.578	27	10.845
CSO 015	REG 015	22	3.128	22	3.064
CSO 011	REGS 010A, 011, 026	9	5.871	9	5.894
CSO 012	REGS 012A, 012B, 028	0	0.000	0	0.000
CSO 025	REGS 025, 034	2	0.009	2	0.008
CSO 021	REG 021	16	12.691	15	12.430
CSO 020	REG 020	4	0.137	4	0.135
TOTAL		**201**	**66.179**	**193**	**64.554**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date

(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date

(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date

(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***	3/14/2015	11:30	16:00	4.50	0.449	0.084
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						

TOTAL MONTH FLOW VOLUME = 0.084

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***	3/14/2015	11:30	16:00	4.50	1.207	0.226
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						

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:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***	3/14/2015	11:10	14:30	3.33	0.135	0.019
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
LOCATION: 010A
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

MONTH: March **YEAR:** 2015

Average Low Temp: 25

Average High Temp: 41

Measured Rainfall: 3.85

Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive
LOCATION: 012
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar
LOCATION: 016
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***	3/14/2015	10:45	15:55	5.17	1.503	0.324
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street
LOCATION: 019
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						

Note: Overflow occurs when level is 31" in the interceptor.

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: March **YEAR:** 2015
Average Low Temp: 25
Average High Temp: 41
Measured Rainfall: 3.85
Measured Snowfall: 10.70

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	George and Temple		
LOCATION:	Regulator 34		
NPDES Permit Outfall #:			
MONTH:	March	**YEAR:**	2015
Average Low Temp:	25		
Average High Temp:	41		
Measured Rainfall:	3.85		
Measured Snowfall:	10.70		

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	3/2/2015	8:45	13:20	4.58	0.38	1 month						
2	3/3/15-3/5/15	23:35	4:15	28.67	1.00	***						
3	3/6/2015	13:30	13:50	0.33	0.03	***						
4	3/7/2015	10:05	10:35	0.50	0.03	***						
5	3/10/15-3/11/15	18:20	2:15	7.92	0.23	***						
6	3/14/2015	7:15	22:05	14.83	0.94	***						
7	3/17/2015	4:30	9:40	5.17	0.10	***						
8	3/21/2015	12:10	12:30	0.33	0.21	***						
9	3/25/2015-3/26/15	17:35	1:40	8.08	0.12	***						
10	3/26/15-3/27/15	12:50	8:15	19.42	0.57	***						
11	3/28/2015	9:30	18:10	8.67	0.15	***						
12	3/29/2015	10:00	10:35	0.58	0.02	***						
13	3/31/2015	16:35	20:35	4.00	0.07	***						

METER DATA

FEBRUARY 2015

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - FEBRUARY 2015

MONTHLY RAINFALL SUMMARY

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

19.00 inches of snow

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

One 3 month storm, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	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 019	REG 019	0	0.000
CSO 016	REG 016	0	0.000
CSO 015	REG 015	0	0.000
CSO 011	REGS 010A, 011, 026	0	0.000
CSO 012	REGS 012A, 012B, 028	0	0.000
CSO 025	REGS 025, 034	0	0.000
CSO 021	REG 021	0	0.000
CSO 020	REG 020	0	0.000
TOTAL		**0**	**0.000**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - THROUGH FEBRUARY 2015

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	41	11.715	114.54	33
CSO 005	REG 005	3	0.082	18.75	7
CSO 004	REG 004	14	2.510	18.75	7
CSO 003	REG 003	91	33.581	114.54	33
CSO 024	REG 024	26	26.230	104.34	30
CSO 009	REG 009	56	3.314	97.20	29
CSO 019	REG 019	32	1.558	108.94	31
CSO 016	REG 016	71	28.595	99.23	31
CSO 015	REG 015	54	7.659	97.20	29
CSO 011	REGS 010A, 011, 026	21	13.753	92.83	27
CSO 012	REGS 012A, 012B, 028	0	0.000	15.26	5
CSO 025	REGS 025, 034	1	0.005	18.75	7
CSO 021	REG 021	37	30.038	93.83	28
CSO 020	REG 020	7	0.270	77.28	23
TOTAL		**454**	**159.310**		

Weirs were raised at Regulators 004, 005 and 034 in July 2014
Meter location was changed at Regulator 012 in September 2014
Meter locations were changed at Regulators 025 and 034 in July 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]
CSO 006	REGS 006 A, 006 B	15	4.221	15	4.260
CSO 005	REG 005	7	0.180	5	0.141
CSO 004	REG 004	31	5.525	24	4.303
CSO 003	REG 003	33	12.100	33	12.211
CSO 024	REG 024	10	10.375	10	10.492
CSO 009	REG 009	24	1.407	23	1.371
CSO 019	REG 019	12	0.590	12	0.603
CSO 016	REG 016	30	11.893	27	11.069
CSO 015	REG 015	23	3.252	22	3.169
CSO 011	REGS 010A, 011, 026	9	6.114	9	6.112
CSO 012	REGS 012A, 012B, 028	0	0.000	0	0.000
CSO 025	REGS 025, 034	2	0.011	2	0.009
CSO 021	REG 021	16	13.212	16	12.873
CSO 020	REG 020	4	0.144	4	0.141
TOTAL		**211**	**68.880**	**200**	**66.614**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date

(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date

(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date

(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
LOCATION: 005
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
LOCATION: 010A
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	75 Mitchell Drive
LOCATION:	012
NPDES Permit Outfall #:	
MONTH:	February **YEAR:** 2015
Average Low Temp:	9
Average High Temp:	29
Measured Rainfall:	1.25
Measured Snowfall:	19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	15 James Street		
LOCATION:	015		
NPDES Permit Outfall #:			
MONTH:	February	**YEAR:**	2015
Average Low Temp:	9		
Average High Temp:	29		
Measured Rainfall:	1.25		
Measured Snowfall:	19"		

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						

Expected capacity of siphon is between 24 and 30 MGD.

TOTAL MONTH

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar
LOCATION: 016
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	279 Front Street		
LOCATION:	019		
NPDES Permit Outfall #:			
MONTH:	February	**YEAR:**	2015
Average Low Temp:	9		
Average High Temp:	29		
Measured Rainfall:	1.25		
Measured Snowfall:	19"		

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						

Note: Overflow occurs when level is 31" in the interceptor.

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:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: February **YEAR:** 2015
Average Low Temp: 9
Average High Temp: 29
Measured Rainfall: 1.25
Measured Snowfall: 19"

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	George and Temple		
LOCATION:	Regulator 34		
NPDES Permit Outfall #:			
MONTH:	February	**YEAR:**	2015
Average Low Temp:	9		
Average High Temp:	29		
Measured Rainfall:	1.25		
Measured Snowfall:	19"		

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	2/3/2015	13:25	15:35	2.17	0.13	***						
2	2/4/2015	10:35	15:10	4.58	0.15	***						
3	2/5/2015	7:50	8:00	0.17	0.18	***						
4	2/10/2015	11:50	17:05	5.25	0.08	***						
5	2/22/2015	10:50	14:35	3.75	0.71	3 month						
										TOTAL MONTH		

METER DATA

JANUARY 2015

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - JANUARY 2015

MONTHLY RAINFALL SUMMARY

3.63 inches of rain (3.44 inches of rain in a typical month)
14.00 inches of snow
6 rain events (10 rain events in a typical month)
Two 1 month storm, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	1	0.198
CSO 005	REG 005	0	0.000
CSO 004	REG 004	1	0.382
CSO 003	REG 003	3	0.196
CSO 024	REG 024	1	0.263
CSO 009	REG 009	2	0.020
CSO 019	REG 019	0	0.000
CSO 016	REG 016	1	0.348
CSO 015	REG 015	2	0.108
CSO 011	REGS 010A, 011, 026	0	0.000
CSO 012	REGS 012A, 012B, 028	0	0.000
CSO 025	REGS 025, 034	0	0.000
CSO 021	REG 021	1	0.014
CSO 020	REG 020	0	0.000
TOTAL		**12**	**1.529**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH JANUARY 2015

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	41	11.715	113.29	32
CSO 005	REG 005	3	0.082	17.50	6
CSO 004	REG 004	14	2.510	17.50	6
CSO 003	REG 003	91	33.581	113.29	32
CSO 024	REG 024	26	26.230	103.09	29
CSO 009	REG 009	56	3.314	95.95	28
CSO 019	REG 019	32	1.558	107.69	30
CSO 016	REG 016	71	28.595	97.98	30
CSO 015	REG 015	54	7.659	95.95	28
CSO 011	REGS 010A, 011, 026	21	13.753	91.58	26
CSO 012	REGS 012A, 012B, 028	0	0.000	14.01	4
CSO 025	REGS 025, 034	1	0.005	17.50	6
CSO 021	REG 021	37	30.038	92.58	27
CSO 020	REG 020	7	0.270	76.03	22
TOTAL		**454**	**159.310**		

Weirs were raised at Regulators 004, 005 and 034 in July 2014

Meter location was changed at Regulator 012 in September 2014

Meter locations were changed at Regulators 025 and 034 in July 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]
CSO 006	REGS 006 A, 006 B	15	4.268	15	4.393
CSO 005	REG 005	7	0.193	6	0.164
CSO 004	REG 004	33	5.919	28	5.020
CSO 003	REG 003	33	12.233	34	12.593
CSO 024	REG 024	10	10.501	11	10.854
CSO 009	REG 009	24	1.425	24	1.420
CSO 019	REG 019	12	0.597	13	0.623
CSO 016	REG 016	30	12.044	28	11.438
CSO 015	REG 015	23	3.294	23	3.282
CSO 011	REGS 010A, 011, 026	9	6.198	10	6.348
CSO 012	REGS 012A, 012B, 028	0	0.000	0	0.000
CSO 025	REGS 025, 034	2	0.012	2	0.010
CSO 021	REG 021	16	13.390	16	13.350
CSO 020	REG 020	4	0.147	4	0.147
TOTAL		**216**	**70.075**	**211**	**69.495**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date

(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date

(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date

(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month	1/3/2015	22:00	22:25	0.42	0.828	0.014
2	1/12/2015	5:40	16:50	11.17	0.54	***	1/12/2015	14:10	14:55	0.75	0.134	0.004
3	1/18/2015	9:10	21:35	12.42	1.17	1 month	1/18/2015	12:10	20:55	8.75	0.488	0.178
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.196

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month	1/18/2015	12:20	20:55	8.58	1.069	0.382
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = **0.382**

Note: Overflow occurs when Interceptor level reaches 43"

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:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month						
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 71"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

	RAINFALL EVENT						CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month	1/18/2015	13:25	19:55	6.50	0.731	0.198
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.198

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month	1/4/2015	20:10	20:20	0.17	0.189	0.001
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month	1/18/2015	12:15	19:40	7.42	0.061	0.019
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.02

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month						
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Sum of 10A and 11

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive
LOCATION: 012
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month						
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Overflow occurs when level exceeds 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month	1/18/2015	12:30	14:20	1.83	0.688	0.053
4	1/24/2015	11:35	18:10	6.58	0.75	***	1/18/2015	17:55	20:00	2.08	0.634	0.055
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = **0.108**

Note: Overflow can occur with DS sewer depth reaches 40.5"
Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	Int. River & Poplar		
LOCATION:	016		
NPDES Permit Outfall #:			
MONTH:	January	**YEAR:**	2015
Average Low Temp:	21		
Average High Temp:	36		
Measured Rainfall:	3.63		
Measured Snowfall:	14.00		

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month	1/18/2015	12:35	21:20	8.75	0.955	0.348
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.348

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street
LOCATION: 019
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month						
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = **0.0000**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	Clifton and Quinnipiac		
LOCATION:	020		
NPDES Permit Outfall #:			
MONTH:	January	**YEAR:**	2015
Average Low Temp:	21		
Average High Temp:	36		
Measured Rainfall:	3.63		
Measured Snowfall:	14.00		

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month						
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Overflow occurs when level is 31" in the interceptor.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month	1/18/2015	14:10	20:15	6.08	0.055	0.014
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = **0.014**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month	1/18/2015	19:05	21:30	2.42	2.611	0.263
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = 0.263

Note: Overflow occurs when upstream depth reaches approx. 65" or when downstream reaches approx. 81".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month						
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: overflow occurs at 21"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG George and Temple
LOCATION: Regulator 34
NPDES Permit Outfall #:
MONTH: January **YEAR:** 2015
Average Low Temp: 21
Average High Temp: 36
Measured Rainfall: 3.63
Measured Snowfall: 14.00

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	1/3/2015-1/4/15	18:30	21:55	27.42	1.08	1 month						
2	1/12/2015	5:40	16:50	11.17	0.54	***						
3	1/18/2015	9:10	21:35	12.42	1.17	1 month						
4	1/24/2015	11:35	18:10	6.58	0.75	***						
5	1/28/2015	13:25	13:30	0.08	0.01	***						
6	1/30/2015	11:10	14:40	3.50	0.08	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: overflow occurs at 52"

METER DATA

DECEMBER 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - DECEMBER 2014

MONTHLY RAINFALL SUMMARY

5.72 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 6 month storm, one 1 month storm, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	1	0.572
CSO 005	REG 005	1	0.070
CSO 004	REG 004	3	0.761
CSO 003	REG 003	3	1.062
CSO 024	REG 024	1	0.873
CSO 009	REG 009	4	0.024
CSO 019	REG 019	1	0.015
CSO 016	REG 016	4	0.369
CSO 015	REG 015	1	0.330
CSO 011	REGS 010A, 011, 026	1	0.284
CSO 012	REGS 012A, 012B, 028	0	0.000
CSO 025	REGS 025, 034	1	0.005
CSO 021	REG 021	1	2.108
CSO 020	REG 020	0	0.000
TOTAL		**22**	**6.473**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH DECEMBER 2014

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	40	11.517	113.29	31
CSO 005	REG 005	3	0.082	17.50	5
CSO 004	REG 004	13	2.128	17.50	5
CSO 003	REG 003	88	33.385	113.29	31
CSO 024	REG 024	25	25.967	103.09	28
CSO 009	REG 009	54	3.294	95.95	27
CSO 019	REG 019	32	1.558	107.69	29
CSO 016	REG 016	70	28.247	97.98	29
CSO 015	REG 015	52	7.551	95.95	27
CSO 011	REGS 010A, 011, 026	21	13.753	91.58	25
CSO 012	REGS 012A, 012B, 028	0	0.000	14.01	3
CSO 025	REGS 025, 034	1	0.005	17.50	5
CSO 021	REG 021	36	30.024	92.58	26
CSO 020	REG 020	7	0.270	76.03	21
TOTAL		**442**	**157.781**		

Weirs were raised at Regulators 004, 005 and 034 in July 2014

Meter location was changed at Regulator 012 in September 2014

Meter locations were changed at Regulators 025 and 034 in July 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]
CSO 006	REGS 006 A, 006 B	15	4.195	15	4.458
CSO 005	REG 005	7	0.193	7	0.197
CSO 004	REG 004	31	5.018	31	5.107
CSO 003	REG 003	32	12.162	34	12.923
CSO 024	REG 024	10	10.395	11	11.129
CSO 009	REG 009	23	1.417	24	1.464
CSO 019	REG 019	12	0.597	13	0.645
CSO 016	REG 016	29	11.898	29	11.688
CSO 015	REG 015	22	3.248	23	3.356
CSO 011	REGS 010A, 011, 026	9	6.198	10	6.601
CSO 012	REGS 012A, 012B, 028	0	0.000	0	0.000
CSO 025	REGS 025, 034	2	0.012	2	0.012
CSO 021	REG 021	16	13.384	17	13.857
CSO 020	REG 020	4	0.147	4	0.154
TOTAL		**210**	**68.717**	**217**	**71.438**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date

(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date

(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date

(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***	12/5/14-12/6/14	22:45	21:55	23.17	0.088	0.085
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	8:05	19:30	11.42	1.909	0.908
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***	12/24/2014	15:40	19:05	3.42	0.488	0.069
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = 1.062

Note: Overflow occurs when Interceptor level reaches 46"

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:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***	12/5/14-12/6/14	23:20	22:20	23.00	0.037	0.036
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	8:05	18:35	10.50	1.585	0.693
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***	12/24/2014	16:15	18:55	2.67	0.291	0.032
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = **0.761**

Note: Overflow occurs when Interceptor level reaches 43"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
LOCATION: 005
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	10:25	11:45	1.33	1.266	0.070
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = 0.070

Note: Overflow occurs when Interceptor level reaches 71"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	9:35	14:05	4.50	3.051	0.572
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = 0.572

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month	12/6/2014	20:35	21:35	1.00	0.091	0.004
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	7:30	10:50	3.33	0.091	0.013
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***	12/17/2014	2:15	2:35	0.33	0.186	0.003
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***	12/24/2014	16:05	18:35	2.50	0.040	0.004
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = 0.024

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	9:55	13:55	4.00	1.706	0.284
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = **0.284**

Note: Sum of 10A and 11

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive
LOCATION: 012
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month						
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Overflow occurs when level exceeds 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2015	8:35	14:30	5.92	1.338	0.330
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = **0.330**

Note: Overflow can occur with DS sewer depth reaches 40.5"
Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar
LOCATION: 016
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***	12/6/2014	16:55	19:20	2.42	1.555	0.157
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	7:55	8:20	0.42	3.699	0.064
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***	12/17/2014	1:55	3:55	2.00	0.595	0.050
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***	12/24/2014	16:05	20:00	3.92	0.599	0.098
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = 0.369

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street
LOCATION: 019
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

	RAINFALL EVENT						CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	10:25	12:00	1.58	0.222	0.015
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = **0.0150**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month						
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Overflow occurs when level is 31" in the interceptor.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	9:50	15:55	6.08	8.316	2.108
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = **2.108**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	10:30	16:30	6	3.49	0.873
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = 0.873

Note: Overflow occurs when upstream depth reaches approx. 65" or when downstream reaches approx. 81".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month						
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: overflow occurs at 21"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG George and Temple
LOCATION: Regulator 34
NPDES Permit Outfall #:
MONTH: December **YEAR:** 2014
Average Low Temp: 34
Average High Temp: 46
Measured Rainfall: 5.72
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	12/1/2014	18:25	21:35	3.17	0.04	***						
2	12/2/2014-12/3/14	20:15	15:15	19.00	0.15	***						
3	12/5/14-12/6/14	18:35	8:35	14.00	0.78	***						
4	12/6/14-12/7/14	13:00	2:30	13.50	1.10	1 month						
5	12/9/2014	5:55	18:00	12.08	1.96	6 month	12/9/2014	10:20	11:20	1.00	0.125	0.005
6	12/10/2014	17:50	17:55	0.08	0.01	***						
7	12/11/2014	9:40	9:45	0.08	0.01	***						
8	12/16/14-12/17/14	20:00	3:25	7.42	0.39	***						
9	12/21/2014	11:25	18:10	6.75	0.06	***						
10	12/22/14-12/23/14	23:30	9:45	10.25	0.13	***						
11	12/24/2014	11:15	22:35	11.33	0.84	***						
12	12/25/2014	3:35	7:30	3.92	0.15	***						
13	12/28/2014	7:00	9:10	2.17	0.10	***						

TOTAL MONTH FLOW VOLUME = **0.005**

Note: overflow occurs at 52"

METER DATA

NOVEMBER 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - NOVEMBER 2014

MONTHLY RAINFALL SUMMARY

4.50 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

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	1	0.055
CSO 005	REG 005	0	0.000
CSO 004	REG 004	3	0.395
CSO 003	REG 003	3	0.086
CSO 024	REG 024	0	0.000
CSO 009	REG 009	1	0.006
CSO 019	REG 019	0	0.000
CSO 016	REG 016	2	0.309
CSO 015	REG 015	2	0.061
CSO 011	REGS 010A, 011, 026	0	0.000
CSO 012	REGS 012A, 012B, 028	0	0.000
CSO 025	REGS 025, 034	0	0.000
CSO 021	REG 021	1	0.001
CSO 020	REG 020	0	0.000
TOTAL		**13**	**0.913**

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH NOVEMBER 2014

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	39	10.945	107.57	30
CSO 005	REG 005	2	0.012	11.78	4
CSO 004	REG 004	10	1.367	11.78	4
CSO 003	REG 003	85	32.323	107.57	30
CSO 024	REG 024	24	25.094	97.37	27
CSO 009	REG 009	50	3.270	90.23	26
CSO 019	REG 019	31	1.543	101.97	28
CSO 016	REG 016	66	27.878	92.26	28
CSO 015	REG 015	51	7.221	90.23	26
CSO 011	REGS 010A, 011, 026	20	13.469	85.86	24
CSO 012	REGS 012A, 012B, 028	0	0.000	8.29	2
CSO 025	REGS 025, 034	0	0.000	11.78	4
CSO 021	REG 021	35	27.916	86.86	25
CSO 020	REG 020	7	0.270	70.31	20
TOTAL		**420**	**151.308**		

Weirs were raised at Regulators 004, 005 and 034 in July 2014

Meter location was changed at Regulator 012 in September 2014

Meter locations were changed at Regulators 025 and 034 in July 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]
CSO 006	REGS 006 A, 006 B	15	4.199	16	4.378
CSO 005	REG 005	7	0.042	6	0.036
CSO 004	REG 004	35	4.789	30	4.101
CSO 003	REG 003	33	12.401	34	12.929
CSO 024	REG 024	10	10.636	11	11.153
CSO 009	REG 009	23	1.496	23	1.509
CSO 019	REG 019	13	0.624	13	0.661
CSO 016	REG 016	30	12.470	28	11.948
CSO 015	REG 015	23	3.303	24	3.333
CSO 011	REGS 010A, 011, 026	10	6.474	10	6.735
CSO 012	REGS 012A, 012B, 028	0	0.000	0	0.000
CSO 025	REGS 025, 034	0	0.000	0	0.000
CSO 021	REG 021	17	13.264	17	13.400
CSO 020	REG 020	4	0.158	4	0.162
TOTAL		**214**	**69.699**	**211**	**70.182**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date

(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date

(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date

(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month	11/17/2014	5:50	17:20	11.50	0.095	0.046
5	11/24/2014	2:50	11:35	8.75	0.67	***	11/24/2014	5:00	8:10	3.17	0.240	0.032
6	11/26/2014	7:30	23:45	16.25	1.32	1 month	11/26/2014	10:40	17:40	7.00	0.029	0.008
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.086

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month	11/17/2014	5:50	17:20	11.50	0.546	0.261
5	11/24/2014	2:50	11:35	8.75	0.67	***	11/24/2014	5:00	8:20	3.33	0.881	0.122
6	11/26/2014	7:30	23:45	16.25	1.32	1 month	11/26/2014	10:55	17:35	6.67	0.044	0.012
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = **0.395**

Note: Overflow occurs when Interceptor level reaches 43"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
LOCATION: 005
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month						
5	11/24/2014	2:50	11:35	8.75	0.67	***						
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 71"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month	11/17/2014	15:40	16:30	0.83	1.586	0.055
5	11/24/2014	2:50	11:35	8.75	0.67	***						
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.055

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month	11/17/2014	14:55	16:30	1.58	0.065	0.004
5	11/24/2014	2:50	11:35	8.75	0.67	***	11/24/2014	4:50	5:55	1.08	0.054	0.002
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.006

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/1	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month						
5	11/24/2014	2:50	11:35	8.75	0.67	***						
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Sum of 10A and 11

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive
LOCATION: 012
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month						
5	11/24/2014	2:50	11:35	8.75	0.67	***						
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Overflow occurs when level exceeds 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/1	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month	11/17/2014	15:10	16:15	1.08	0.701	0.032
5	11/24/2014	2:50	11:35	8.75	0.67	***	11/24/2014	5:15	6:05	0.83	0.833	0.029
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = **0.061**

Note: Overflow can occur with DS sewer depth reaches 40.5"
Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar
LOCATION: 016
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month	11/17/2014	15:05	17:20	2.25	1.820	0.171
5	11/24/2014	2:50	11:35	8.75	0.67	***	11/24/2014	5:00	7:35	2.58	1.279	0.138
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.309

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street
LOCATION: 019
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month						
5	11/24/2014	2:50	11:35	8.75	0.67	***						
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0.0000

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month						
5	11/24/2014	2:50	11:35	8.75	0.67	***						
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Overflow occurs when level is 31" in the interceptor.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month	11/17/2014	16:15	16:35	0.33	0.036	0.001
5	11/24/2014	2:50	11:35	8.75	0.67	***						
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = **0.001**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month						
5	11/24/2014	2:50	11:35	8.75	0.67	***						
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when upstream depth reaches approx. 65" or when downstream reaches approx. 81".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: November **YEAR:** 2014
Average Low Temp: 36
Average High Temp: 52
Measured Rainfall: 4.50
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	11/1/2014	9:25	20:55	11.50	0.32	***						
2	11/6/2014	5:30	15:10	9.67	0.39	***						
3	11/13/2014-11/14/14	21:00	4:35	7.58	0.23	***						
4	11/17/2014	0:35	20:35	20.00	1.56	1 month						
5	11/24/2014	2:50	11:35	8.75	0.67	***						
6	11/26/2014	7:30	23:45	16.25	1.32	1 month						
7	11/28/2014	10:50	10:55	0.08	0.01	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: overflow occurs at 21"

METER DATA

OCTOBER 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - OCTOBER 2014

MONTHLY RAINFALL SUMMARY

3.79 inches of rain (3.44 inches of rain in a typical month)
No snow
12 rain events (10 rain events in a typical month)
Two 1 month storms, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	2	0.248
CSO 005	REG 005	1	0.001
CSO 004	REG 004	4	0.431
CSO 003	REG 003	4	0.169
CSO 024	REG 024	0	0.000
CSO 009	REG 009	2	0.004
CSO 019	REG 019	0	0.000
CSO 016	REG 016	2	0.291
CSO 015	REG 015	4	0.368
CSO 011	REGS 010A, 011, 026	0	0.000
CSO 012	REGS 012A, 012B, 028	0	0.000
CSO 025	REGS 025, 034	0	0.000
CSO 021	REG 021	2	0.187
CSO 020	REG 020	0	0.000
TOTAL		**21**	**1.699**
		(22 CSO events in a typical month)	(20.358 MG of CSO volume in a typical month)

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH OCTOBER 2014

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	38	10.890	103.07	29
CSO 005	REG 005	33	6.894	103.07	29
CSO 004	REG 004	104	45.948	103.07	29
CSO 003	REG 003	82	32.237	103.07	29
CSO 024	REG 024	24	25.094	92.87	26
CSO 009	REG 009	49	3.264	85.73	25
CSO 019	REG 019	31	1.543	97.47	27
CSO 016	REG 016	64	27.569	87.76	27
CSO 015	REG 015	49	7.160	85.73	25
CSO 011	REGS 010A, 011, 026	20	13.469	81.36	23
CSO 012	REGS 012A, 012B, 028	38	11.864	97.47	27
CSO 025	REGS 025, 034	9	1.556	40.98	11
CSO 021	REG 021	34	27.915	82.36	24
CSO 020	REG 020	7	0.270	65.81	19
TOTAL		**582**	**215.673**		

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]	MODEL CSO EVENTS	MODEL CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	15	4.360	16	4.506	27	27.0
CSO 005	REG 005	13	2.760	14	2.853	39	22.0
CSO 004	REG 004	42	18.398	43	19.013	44	65.3
CSO 003	REG 003	33	12.908	34	13.339	28	12.5
CSO 024	REG 024	11	11.151	11	11.582	0	1.9
CSO 009	REG 009	24	1.571	24	1.567	27	8.1
CSO 019	REG 019	13	0.653	14	0.686	7	2.4
CSO 016	REG 016	30	12.965	28	12.253	45	20.4
CSO 015	REG 015	24	3.447	24	3.437	9	4.1
CSO 011	REGS 010A, 011, 026	10	6.832	10	7.027	15	26.6
CSO 012	REGS 012A, 012B, 028	16	5.023	17	5.273	8	2.9
CSO 025	REGS 025, 034	9	1.567	10	1.697	6	9.0
CSO 021	REG 021	17	13.988	17	13.958	23	35.1
CSO 020	REG 020	4	0.169	4	0.171	8	1.4
TOTAL		**256**	**95.625**	**261**	**97.190**	**286**	**238.7**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date

(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date

(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date

(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 50
Average High Temp: 66
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***	10/1/2014	5:20	6:25	1.08	0.082	0.004
2	10/4/2014	8:30	17:15	8.75	0.82	1 month	10/4/2014	12:30	18:25	5.92	0.484	0.119
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month	10/16/2014	10:00	13:25	3.42	0.296	0.042
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***	10/22/2014	21:45	23:20	1.58	0.062	0.004
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = 0.169

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***	10/1/2014	5:20	6:05	0.75	0.331	0.010
2	10/4/2014	8:30	17:15	8.75	0.82	1 month	10/4/2014	12:30	18:15	5.75	0.908	0.218
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month	10/16/2014	10:05	13:10	3.08	1.429	0.184
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***	10/22/2014	22:05	23:05	1.00	0.467	0.019
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = **0.431**

Note: Overflow occurs when Interceptor level reaches 43"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
LOCATION: 005
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month	10/4/2014	16:35	17:05	0.50	0.033	0.001
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month						
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = 0.001

Note: Overflow occurs when Interceptor level reaches 71"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month	10/4/2014	12:50	17:40	4.83	0.943	0.190
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month	10/16/2014	11:00	11:55	0.92	1.519	0.058
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = 0.248

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

	RAINFALL EVENT						CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month	10/4/2014	12:35	17:05	4.50	0.007	0.001
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month	10/16/2014	9:55	10:50	0.92	0.081	0.003
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = 0.004

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month						
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month						
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Sum of 10A and 11

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive
LOCATION: 012
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month						
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month						
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Overflow occurs when level exceeds 36"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***	10/1/2014	5:10	5:35	0.42	1.580	0.027
2	10/4/2014	8:30	17:15	8.75	0.82	1 month	10/4/2014	12:35	17:25	4.83	1.141	0.230
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month	10/16/2014	10:00	11:50	1.83	1.180	0.090
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2	16:00	2:40	10.67	0.54	***	10/22/2014	22:15	22:45	0.50	1.011	0.021
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = **0.368**

Note: Overflow can occur with DS sewer depth reaches 40.5"
Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar
LOCATION: 016
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month	10/4/2014	12:40	17:15	4.58	0.432	0.083
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month	10/16/2014	10:40	13:05	2.42	2.065	0.208
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = 0.291

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street
LOCATION: 019
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month						
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month						
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = 0.0000

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month						
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month						
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Overflow occurs when level is 31" in the interceptor.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month	10/4/2014	13:20	18:20	5.00	0.697	0.145
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month	10/16/2014	10:50	12:25	1.58	0.643	0.042
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = **0.187**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month				0.00		
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month						
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when upstream depth reaches approx. 65" or when downstream reaches approx. 81".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month						
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month						
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: overflow occurs at 21"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG George and Temple
LOCATION: Regulator 34
NPDES Permit Outfall #:
MONTH: October **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 3.79
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	10/1/2014	0:45	19:55	19.17	0.68	***						
2	10/4/2014	8:30	17:15	8.75	0.82	1 month						
3	10/8/2014	1:20	2:55	1.58	0.05	***						
4	10/11/2014	5:15	11:45	6.50	0.26	***						
5	10/14/2014	1:10	4:05	2.92	0.04	***						
6	10/15/2014	10:10	10:15	0.08	0.01	***						
7	10/16/2014	3:40	13:15	9.58	1.13	1 month						
8	10/21/2014	19:35	20:25	0.83	0.08	***						
9	10/22/2014-10/23/2014	16:00	2:40	10.67	0.54	***						
10	10/24/2014	7:15	8:50	1.58	0.12	***						
11	10/29/2014	18:30	18:50	0.33	0.02	***						
12	10/31/2014	20:05	23:00	2.92	0.04	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: overflow occurs at 56.25"

METER DATA

SEPTEMBER 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - SEPTEMBER 2014

MONTHLY RAINFALL SUMMARY

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

No snow

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

One 1 month storm, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	0	0.000
CSO 005	REG 005	0	0.000
CSO 004	REG 004	1	0.003
CSO 003	REG 003	2	0.005
CSO 024	REG 024	0	0.000
CSO 009	REG 009	1	0.001
CSO 019	REG 019	1	0.001
CSO 016	REG 016	1	0.195
CSO 015	REG 015	1	0.024
CSO 011	REGS 010A, 011, 026	0	0.000
CSO 012	REGS 012A, 012B, 028	0	0.000
CSO 025	REGS 025, 034	0	0.000
CSO 021	REG 021	0	0.000
CSO 020	REG 020	0	0.000
TOTAL		**7**	**0.229**
		(22 CSO events in a typical month)	(20.358 MG of CSO volume in a typical month)

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH SEPTEMBER 2014

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	36	10.642	99.28	28
CSO 005	REG 005	32	6.893	99.28	28
CSO 004	REG 004	100	45.517	99.28	28
CSO 003	REG 003	78	32.068	99.28	28
CSO 024	REG 024	24	25.094	89.08	25
CSO 009	REG 009	47	3.260	81.94	24
CSO 019	REG 019	31	1.543	93.68	26
CSO 016	REG 016	62	27.278	83.97	26
CSO 015	REG 015	45	6.792	81.94	24
CSO 011	REGS 010A, 011, 026	20	13.469	77.57	22
CSO 012	REGS 012A, 012B, 028	38	11.864	93.68	26
CSO 025	REGS 025, 034	9	1.556	37.19	10
CSO 021	REG 021	32	27.728	78.57	23
CSO 020	REG 020	7	0.270	62.02	18
TOTAL		**561**	**213.974**		

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]	MODEL CSO EVENTS	MODEL CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	15	4.424	15	4.561	27	27.0
CSO 005	REG 005	13	2.865	14	2.954	39	22.0
CSO 004	REG 004	42	18.921	43	19.507	44	65.3
CSO 003	REG 003	32	13.330	33	13.743	28	12.5
CSO 024	REG 024	11	11.626	12	12.045	0	1.9
CSO 009	REG 009	24	1.642	24	1.630	27	8.1
CSO 019	REG 019	14	0.680	14	0.712	7	2.4
CSO 016	REG 016	30	13.407	29	12.590	45	20.4
CSO 015	REG 015	23	3.421	23	3.396	9	4.1
CSO 011	REGS 010A, 011, 026	11	7.166	11	7.347	15	26.6
CSO 012	REGS 012A, 012B, 028	17	5.227	18	5.476	8	2.9
CSO 025	REGS 025, 034	10	1.727	11	1.867	6	9.0
CSO 021	REG 021	17	14.565	17	14.467	23	35.1
CSO 020	REG 020	5	0.180	5	0.180	8	1.4
TOTAL		**258**	**99.000**	**262**	**100.295**	**286**	**238.7**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date
(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date
(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date
(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

	RAINFALL EVENT						CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***	9/13/2014	17:15	17:25	0.17	0.123	0.001
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month	9/21/2014	5:40	6:35	0.92	0.095	0.004
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = 0.005

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month	9/21/2014	5:40	6:05	0.42	0.181	0.003
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = **0.003**

Note: Overflow occurs when Interceptor level reaches 43"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
LOCATION: 005
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***				0.00		
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month						
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when Interceptor level reaches 71"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***				0.00	0.000	0.000
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month				0.00	0.000	0.000
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month	9/21/2014	5:30	5:45	0.25	0.084	0.001
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = 0.001

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
LOCATION: 010A
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month						
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when sewer level reaches 62"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***				0.00		
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month				0.00		
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: OF-011-609 and OF-011-997 removed on 8/26

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: September YEAR: 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month						
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Sum of 10A and 11

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive
LOCATION: 012
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month						
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Meter removed 9/29/14

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month	9/21/2014	5:30	6:25	0.92	0.618	0.024
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = **0.024**

Note: Overflow can occur with DS sewer depth reaches 40.5"
Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar
LOCATION: 016
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month	9/21/2014	5:15	6:40	1.42	3.307	0.195
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = 0.195

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street
LOCATION: 019
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month	9/21/2014	6:10	6:15	0.08	0.057	0.0002
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = **0.0002**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month						
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when level is 31" in the interceptor.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***				0.00		
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month						
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***				0.00		
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month						
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = 0

Note: Overflow occurs when upstream depth reaches approx. 65" or when downstream reaches approx. 81".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month						
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: overflow occurs at 21"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG George and Temple
LOCATION: Regulator 34
NPDES Permit Outfall #:
MONTH: September **YEAR:** 2014
Average Low Temp: 58
Average High Temp: 77
Measured Rainfall: 1.11
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	9/7/2014	0:45	0:50	0.08	0.01	***						
2	9/13/2014	16:10	20:25	4.25	0.22	***						
3	9/16/2014	9:50	10:30	0.67	0.03	***						
4	9/21/2014	1:55	7:50	5.92	0.69	1 Month						
5	9/25/2014	10:45	23:20	12.58	0.10	***						
6	9/30/2014	13:20	13:40	0.33	0.06	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: overflow occurs at 56.25"

METER DATA

AUGUST 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - AUGUST 2014

MONTHLY RAINFALL SUMMARY

2.38 inches of rain (3.44 inches of rain in a typical month)
No snow
4 rain events (10 rain events in a typical month)
One 6 month storm, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	2	0.234
CSO 005	REG 005	1	0.011
CSO 004	REG 004	2	0.538
CSO 003	REG 003	2	0.033
CSO 024	REG 024	1	0.607
CSO 009	REG 009	1	0.016
CSO 019	REG 019	1	0.003
CSO 016	REG 016	2	0.573
CSO 015	REG 015	1	0.423
CSO 011	REGS 010A, 011, 026	0	0.000
CSO 012	REGS 012A, 012B, 028	0	0.000
CSO 025	REGS 025, 034	0	0.000
CSO 021	REG 021	1	0.321
CSO 020	REG 020	0	0.000
TOTAL		**14**	**2.759**
		(22 CSO events in a typical month)	(20.358 MG of CSO volume in a typical month)

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - THROUGH AUGUST 2014

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	36	10.642	98.17	27
CSO 005	REG 005	32	6.893	98.17	27
CSO 004	REG 004	99	45.514	98.17	27
CSO 003	REG 003	76	32.063	98.17	27
CSO 024	REG 024	24	25.094	87.97	24
CSO 009	REG 009	46	3.259	80.83	23
CSO 019	REG 019	30	1.542	92.57	25
CSO 016	REG 016	61	27.083	82.86	25
CSO 015	REG 015	44	6.768	80.83	23
CSO 011	REGS 010A, 011, 026	20	13.469	76.46	21
CSO 012	REGS 012A, 012B, 028	38	11.864	92.57	25
CSO 025	REGS 025, 034	9	1.556	36.08	9
CSO 021	REG 021	32	27.728	77.46	22
CSO 020	REG 020	7	0.270	60.91	17
TOTAL		**554**	**213.745**		

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]	MODEL CSO EVENTS	MODEL CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	15	4.474	16	4.730	27	27.0
CSO 005	REG 005	13	2.898	14	3.064	39	22.0
CSO 004	REG 004	42	19.134	44	20.228	44	65.3
CSO 003	REG 003	32	13.479	34	14.250	28	12.5
CSO 024	REG 024	11	11.773	12	12.547	0	1.9
CSO 009	REG 009	23	1.664	24	1.700	27	8.1
CSO 019	REG 019	13	0.687	14	0.740	7	2.4
CSO 016	REG 016	30	13.489	29	13.000	45	20.4
CSO 015	REG 015	22	3.456	23	3.531	9	4.1
CSO 011	REGS 010A, 011, 026	11	7.270	11	7.697	15	26.6
CSO 012	REGS 012A, 012B, 028	17	5.289	18	5.695	8	2.9
CSO 025	REGS 025, 034	10	1.780	12	2.075	6	9.0
CSO 021	REG 021	17	14.773	17	15.124	23	35.1
CSO 020	REG 020	5	0.183	5	0.191	8	1.4
TOTAL		**258**	**100.166**	**270**	**104.381**	**286**	**238.7**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date
(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date
(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date
(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014	4:05	11:50	7.75	0.093	0.030
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09		8/31/2014	18:15	19:40	1.42	0.051	0.003

TOTAL MONTH FLOW VOLUME = 0.033

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014	4:20	11:35	7.25	1.507	0.455
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***	8/31/2014	18:10	19:30	1.33	1.499	0.083

TOTAL MONTH FLOW VOLUME = **0.538**

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
LOCATION: 005
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014	10:20	10:30	0.17	1.580	0.011
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = 0.011

Note: Overflow occurs when Interceptor level reaches 53.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014	10:25	11:10	0.75	4.032	0.126
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***	8/31/2014	18:05	19:05	1.00	2.592	0.108

TOTAL MONTH FLOW VOLUME = 0.234

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014	4:10	10:20	6.17	0.015	0.004
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***	8/31/2014	2:45	4:15	1.50	0.198	0.012

TOTAL MONTH FLOW VOLUME = 0.016

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
LOCATION: 010A
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month						
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when sewer level reaches 62"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month						
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Sum of 10A and 11

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014			0.00		
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***	8/31/2014			0.00		

TOTAL MONTH FLOW VOLUME = **0.000**

Note: OF-011-609 and OF-011-997 removed on 8/26

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	75 Mitchell Drive		
LOCATION:	012		
NPDES Permit Outfall #:			
MONTH:	August	**YEAR:**	2014
Average Low Temp:	63		
Average High Temp:	81		
Measured Rainfall:	2.38		
Measured Snowfall:			

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month						
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014	4:25	10:45	6.33	1.603	0.423
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = **0.423**

Note: Overflow can occur with DS sewer depth reaches 40.5"
Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar
LOCATION: 016
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014	5:25	10:30	5.08	2.579	0.546
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***	8/31/2014	18:15	19:55	1.67	0.386	0.027

TOTAL MONTH FLOW VOLUME = 0.573

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street
LOCATION: 019
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014	5:50	6:15	0.42	0.193	0.003
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = **0.003**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month						
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: Overflow occurs when level is 31" in the interceptor.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014	5:20	11:15	5.92	1.302	0.321
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = **0.321**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month	8/13/2014	5:55	11:00	5.08	2.864	0.607
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = 0.607

Note: Overflow occurs when upstream depth reaches approx. 65" or when downstream reaches approx. 81".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: August **YEAR:** 2014
Average Low Temp: 63
Average High Temp: 81
Measured Rainfall: 2.38
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month						
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/13/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: overflow occurs at 21"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	George and Temple
LOCATION:	Regulator 34
NPDES Permit Outfall #:	
MONTH:	August **YEAR:** 2014
Average Low Temp:	63
Average High Temp:	81
Measured Rainfall:	2.38
Measured Snowfall:	

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	8/2/2014	5:50	11:05	5.25	0.20	***						
2	8/13/2014	1:50	13:45	11.92	2.08	6 Month						
3	8/27/2014	21:55	22:00	0.08	0.01	***						
4	8/31/2014	17:55	20:55	3.00	0.09	***						

TOTAL MONTH FLOW VOLUME = **0.000**

Note: overflow occurs at 56.25"

METER DATA

JULY 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - THROUGH JULY 2014

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	34	10.408	95.79	26
CSO 005	REG 005	31	6.882	95.79	26
CSO 004	REG 004	97	44.976	95.79	26
CSO 003	REG 003	74	32.030	95.79	26
CSO 024	REG 024	23	24.487	85.59	23
CSO 009	REG 009	45	3.243	78.45	22
CSO 019	REG 019	29	1.539	90.19	24
CSO 016	REG 016	59	26.510	80.48	24
CSO 015	REG 015	43	6.345	78.45	22
CSO 010	REG 010	16	3.923	79.15	21
CSO 011	REGS 010A, 011, 026	20	13.469	74.08	20
CSO 012	REGS 012A, 012B, 028	38	11.864	90.19	24
CSO 025	REGS 025, 034	9	1.556	33.70	8
CSO 021	REG 021	31	27.407	75.08	21
CSO 020	REG 020	7	0.270	58.53	16
TOTAL		**556**	**214.909**		

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]	MODEL CSO EVENTS	MODEL CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	15	4.484	16	4.804	27	27.0
CSO 005	REG 005	13	2.965	14	3.176	39	22.0
CSO 004	REG 004	42	19.377	45	20.758	44	65.3
CSO 003	REG 003	32	13.800	34	14.783	28	12.5
CSO 024	REG 024	11	11.807	12	12.776	0	1.9
CSO 009	REG 009	24	1.706	25	1.769	27	8.1
CSO 019	REG 019	13	0.704	15	0.770	7	2.4
CSO 016	REG 016	30	13.594	30	13.255	45	20.4
CSO 015	REG 015	23	3.338	23	3.461	9	4.1
CSO 010	REG 010	8	2.046	9	2.242	6	2.4
CSO 011	REGS 010A, 011, 026	11	7.504	12	8.081	15	26.6
CSO 012	REGS 012A, 012B, 028	17	5.429	19	5.932	8	2.9
CSO 025	REGS 025, 034	11	1.906	14	2.334	6	9.0
CSO 021	REG 021	17	15.065	18	15.661	23	35.1
CSO 020	REG 020	5	0.190	5	0.203	8	1.4
TOTAL		**268**	**103.725**	**284**	**109.802**	**292**	**241.1**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date
(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date
(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date
(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - JULY 2014

MONTHLY RAINFALL SUMMARY

4.60 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 2 year storm, one 3 month storm, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	2	0.722
CSO 005	REG 005	3	0.842
CSO 004	REG 004	5	2.109
CSO 003	REG 003	4	0.271
CSO 024	REG 024	No Data	No Data
CSO 009	REG 009	3	0.278
CSO 019	REG 019	1	0.004
CSO 016	REG 016	5	0.314
CSO 015	REG 015	5	0.174
CSO 010	REG 010	1	0.597
CSO 011	REGS 010A, 011, 026	2	2.033
CSO 012	REGS 012A, 012B, 028	2	0.131
CSO 025	REGS 025, 034	3	0.564
CSO 021	REG 021	2	1.432
CSO 020	REG 020	2	0.037
TOTAL		**40** (22 CSO events in a typical month)	**9.508** (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***	7/2/2014	19:50	20:10	0.33	0.045	0.001
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	21:30	23:30	2.00	0.233	0.019
3	7/4/2014	11:00	19:35	8.58	0.36	***	7/4/2014	15:35	15:55	0.33	0.067	0.001
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014 - 7/15/14	20:25	0:10	3.75	0.381	0.250
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = 0.271

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***	7/2/2014	19:00	23:00	4.00	0.828	0.138
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	21:25	23:50	2.42	4.854	0.489
3	7/4/2014	11:00	19:35	8.58	0.36	***	7/4/2014	15:15	16:25	1.17	0.509	0.025
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014 - 7/15/14	20:20	0:40	4.33	7.709	1.392
6	7/15/2014	16:30	22:15	5.75	0.34	***	7/15/2014	21:45	23:00	1.25	1.254	0.065
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = **2.109**

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
LOCATION: 005
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***	7/2/2014	19:05	19:25	0.33	1.073	0.015
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	21:35	22:20	0.75	0.509	0.016
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:25	23:20	2.92	6.671	0.811
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = 0.842

Note: Overflow occurs when Interceptor level reaches 53.5"
weir raised on 7/25/14, new elevation is 71"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	21:35	22:40	1.08	5.051	0.228
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:35	22:05	1.50	7.904	0.494
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = 0.722

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***	7/2/14 - 7/3/14	19:05	19:10	0.08	0.058	0.000
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	21:30	21:55	0.42	0.076	0.001
3	7/4/2014	11:00	19:35	8.58	0.36	***	7/4/2014	11:50	11:55	0.08	0.056	0.000
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:30	23:15	2.75	2.399	0.275
6	7/15/2014	16:30	22:15	5.75	0.34	***	7/15/2014	21:50	22:30	0.67	0.082	0.002
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = 0.278

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
LOCATION: 010
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month						
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:40	23:20	2.67	5.37	0.597
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = **0.597**

Note: Overflow occurs when sewer level reaches 54"
Overflow closed on 7/25

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	547 East Street		
LOCATION:	010A		
NPDES Permit Outfall #:			
MONTH:	July	**YEAR:**	2014
Average Low Temp:	67		
Average High Temp:	83		
Measured Rainfall:	4.60		
Measured Snowfall:			

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month						
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:40	21:45	1.08	11.130	0.502
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = **0.502**

Note: Overflow occurs when sewer level reaches 62"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: July YEAR: 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	21:40	22:35	0.92	3.171	0.121
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:30	23:50	3.33	10.153	1.410
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = 1.531

Note: OF-011-609 and OF-011-997 removed on 8/26

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: July YEAR: 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	21:40	22:35	0.92	3.171	0.121
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:30	23:50	3.33	13.766	1.912
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = 2.033

Note: Sum of 10A and 11

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	75 Mitchell Drive		
LOCATION:	012		
NPDES Permit Outfall #:			
MONTH:	July	**YEAR:**	2014
Average Low Temp:	67		
Average High Temp:	83		
Measured Rainfall:	4.60		
Measured Snowfall:			

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month						
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:30	22:50	2.33	1.329	0.129
6	7/15/2014	16:30	22:15	5.75	0.34	***	7/15/2014	20:10	21:25	1.25	0.045	0.002
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = **0.131**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***	7/2/2014	19:10	19:30	0.33	2.043	0.028
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	21:35	22:35	1.00	1.866	0.078
3	7/4/2014	11:00	19:35	8.58	0.36	***	7/4/2014	11:55	12:10	0.25	0.520	0.005
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:35	23:50	3.25	0.453	0.061
6	7/15/2014	16:30	22:15	5.75	0.34	***	7/15/2014	21:40	22:00	0.33	0.162	0.002
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = **0.174**

Note: Overflow can occur with DS sewer depth reaches 40.5"
Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	Int. River & Poplar
LOCATION:	016
NPDES Permit Outfall #:	
MONTH:	July **YEAR:** 2014
Average Low Temp:	67
Average High Temp:	83
Measured Rainfall:	4.60
Measured Snowfall:	

		RAINFALL EVENT					CSO EVENT					
EVENT No.	**DATE**	**START**	**STOP**	**DURATION (hours)**	**TOTAL**	**FREQUENCY**	**DATE**	**START**	**STOP**	**DURATION (hours)**	**OUTFALL Qavg (MGD)**	**OUTFALL Q volume (MG)**
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***	7/2/2014	18:55	22:45	3.83	0.327	0.052
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	21:10	23:20	2.17	0.877	0.079
3	7/4/2014	11:00	19:35	8.58	0.36	***	7/4/2014	11:40	12:40	1.00	0.767	0.032
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:20	20:45	0.42	3.026	0.053
6	7/15/2014	16:30	22:15	5.75	0.34	***	7/15/2014	21:30	22:55	1.42	1.664	0.098
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = 0.314

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street
LOCATION: 019
NPDES Permit Outfall #:
MONTH: July YEAR: 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month						
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	20:55	21:15	0.33	0.295	0.004
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = 0.004

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month						
3	7/4/2014	11:00	19:35	8.58	0.36	***	7/4/2014	16:25	16:30	0.08	0.161	0.001
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	21:00	21:55	0.92	0.921	0.036
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = **0.037**

Note: Overflow occurs when level is 31" in the interceptor.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	22:30	23:00	0.50	0.316	0.007
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014 - 7/15/14	20:50	0:40	3.83	8.917	1.425
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = **1.432**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month						
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year						
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = 0

Meter not installed during Rain Event, removed for line service 6/17/14 to 7/15/14

Note: Overflow occurs when upstream depth reaches approx. 65" or when downstream reaches approx. 81".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: July **YEAR:** 2014
Average Low Temp: 67
Average High Temp: 83
Measured Rainfall: 4.60
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***						
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	22:15	22:20	0.08	1.559	0.005
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year						
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = **0.005**

Note: removed 7/30/14, on 8/6/14 meter reinstalled, CB telog, photos, video, weir wall was not raised it was coated with concrete / plaster, antenna was cut, swapped out, sensors calibrated before installing in flow

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG	George and Temple
LOCATION:	Regulator 34
NPDES Permit Outfall #:	
MONTH:	July **YEAR:** 2014
Average Low Temp:	67
Average High Temp:	83
Measured Rainfall:	4.60
Measured Snowfall:	

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	7/2/2014 - 7/3/14	18:40	0:30	5.83	0.40	***	7/2/2014	19:00	19:20	0.33	4.334	0.060
2	7/3/2014	20:50	22:40	1.83	0.52	3 Month	7/3/2014	21:25	22:15	0.83	10.332	0.359
3	7/4/2014	11:00	19:35	8.58	0.36	***						
4	7/8/2014	1:05	2:10	1.08	0.07	***						
5	7/14/2014 - 7/15/14	19:50	0:05	4.25	2.44	2 year	7/14/2014	21:25	21:45	0.33	10.680	0.140
6	7/15/2014	16:30	22:15	5.75	0.34	***						
7	7/23/2014	22:55	23:15	0.33	0.13	***						
8	7/28/2014	4:15	5:50	1.58	0.20	***						

TOTAL MONTH FLOW VOLUME = **0.559**

Note: removed on 7/30/14, on 8/6/14 reinstalled meter, CB telog, photos, video and measurements of new weir wall extension, overall height is 61", 25" added to the wall

METER DATA

JUNE 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - THROUGH JUNE 2014

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	32	9.686	91.19	25
CSO 005	REG 005	28	6.040	91.19	25
CSO 004	REG 004	92	42.867	91.19	25
CSO 003	REG 003	70	31.759	91.19	25
CSO 024	REG 024	23	24.487	85.59	23
CSO 009	REG 009	42	2.965	73.85	21
CSO 019	REG 019	28	1.535	85.59	23
CSO 016	REG 016	54	26.196	75.88	23
CSO 015	REG 015	38	6.171	73.85	21
CSO 010	REG 010	15	3.326	74.55	20
CSO 011	REGS 010A, 011, 014, 026	18	11.436	69.48	19
CSO 012	REGS 012A, 012B, 028	36	11.733	85.59	23
CSO 025	REGS 025, 034	6	0.992	29.10	7
CSO 021	REG 021	29	25.975	70.48	20
CSO 020	REG 020	5	0.233	53.93	15
TOTAL		**516**	**205.401**		

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]	MODEL CSO EVENTS	MODEL CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	14	4.384	15	4.649	27	27.0
CSO 005	REG 005	13	2.734	13	2.899	39	22.0
CSO 004	REG 004	42	19.400	44	20.576	44	65.3
CSO 003	REG 003	32	14.373	34	15.244	28	12.5
CSO 024	REG 024	11	11.807	12	12.776	0	1.9
CSO 009	REG 009	23	1.657	24	1.694	27	8.1
CSO 019	REG 019	14	0.740	15	0.801	7	2.4
CSO 016	REG 016	29	14.248	28	13.667	45	20.4
CSO 015	REG 015	21	3.449	22	3.526	9	4.1
CSO 010	REG 010	8	1.841	9	1.996	6	2.4
CSO 011	REGS 010A, 011, 014, 026	11	6.793	11	7.223	15	26.6
CSO 012	REGS 012A, 012B, 028	17	5.657	19	6.122	8	2.9
CSO 025	REGS 025, 034	9	1.407	10	1.701	6	9.0
CSO 021	REG 021	17	15.210	17	15.585	23	35.1
CSO 020	REG 020	4	0.178	4	0.186	8	1.4
TOTAL		**261**	**103.699**	**274**	**108.459**	**292**	**241.1**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date
(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date
(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date
(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - JUNE 2014

MONTHLY RAINFALL SUMMARY

4.39 inches of rain (3.44 inches of rain in a typical month)
No snow
6 rain events (10 rain events in a typical month)
Two 6 month storms, one 1 month storm, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	2	0.410
CSO 005	REG 005	3	0.557
CSO 004	REG 004	4	1.904
CSO 003	REG 003	4	0.114
CSO 024	REG 024	1	0.143
CSO 009	REG 009	2	0.099
CSO 019	REG 019	2	0.084
CSO 016	REG 016	3	0.202
CSO 015	REG 015	4	0.493
CSO 010	REG 010	1	0.201
CSO 011	REGS 010A, 011, 014, 026	2	0.921
CSO 012	REGS 012A, 012B, 028	1	0.074
CSO 025	REGS 025, 034	3	0.506
CSO 021	REG 021	2	0.367
CSO 020	REG 020	0	0.000
TOTAL		**34** (22 CSO events in a typical month)	**6.075** (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***	6/5/2014	10:35	11:50	1.25	0.090	0.005
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	13:40	15:45	2.08	0.118	0.010
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	11:00	22:10	11.17	0.180	0.084
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month	6/19/2014	7:25	9:40	2.25	0.163	0.015
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.114

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***	6/5/2014	10:25	12:15	1.83	1.154	0.088
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	13:40	16:00	2.33	3.029	0.294
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	10:50	22:25	11.58	2.461	1.188
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month	6/19/2014	7:20	10:05	2.75	2.918	0.334
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 1.904

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
LOCATION: 005
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	14:30	15:00	0.50	5.206	0.108
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	13:00	14:10	1.17	9.059	0.440
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month	6/19/2014	7:55	8:40	0.75	0.294	0.009
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.557

Note: Overflow occurs when Interceptor level reaches 53.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	14:40	14:55	0.25	1.056	0.011
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	13:10	14:50	1.67	5.746	0.399
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.41

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month						
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	12:55	20:55	8.00	0.291	0.097
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month	6/19/2014	7:20	7:55	0.58	0.081	0.002
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.099

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
LOCATION: 010
NPDES Permit Outfall #:
MONTH: June **YEAR:** 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month						
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	13:05	14:20	1.25	3.867	0.201
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = **0.201**

Note: Overflow occurs when sewer level reaches 54"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
LOCATION: 010A
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month						
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	13:15	14:05	0.83	5.801	0.201
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.201

Note: Overflow occurs when sewer level reaches 62"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	14:35	15:25	0.83	2.348	0.082
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	13:10	15:05	1.92	7.991	0.638
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.720

Note: OF-011-609 and OF-011-997 removed on 8/26

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	14:35	15:25	0.83	2.348	0.082
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	13:10	15:05	1.92	10.487	0.839
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.921

Note: Sum of 10A and 11

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive
LOCATION: 012
NPDES Permit Outfall #:
MONTH: June **YEAR:** 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month						
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	13:10	14:05	1.00	1.779	0.074
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = **0.074**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: June **YEAR:** 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	13:50	15:10	1.33	1.819	0.101
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	13:00	14:30	1.50	4.389	0.274
							6/13/2014	20:55	21:05	0.17	3.816	0.027
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month	6/19/2014	7:30	8:50	1.33	1.644	0.091
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = **0.493**

Note: Overflow can occur with DS sewer depth reaches 40.5"
Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar
LOCATION: 016
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***	6/5/2014	10:35	12:35	2.00	0.392	0.033
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	13:40	15:55	2.25	1.047	0.098
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	11:45	13:45	2.00	0.847	0.071
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.202

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street
LOCATION: 019
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	14:30	15:00	0.50	0.639	0.013
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	11:45	13:45	2.00	0.847	0.071
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.084

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month						
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month						
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.000

Note: Overflow occurs when level is 31" in the interceptor.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	14:35	15:30	0.92	0.668	0.025
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	13:25	15:25	2.00	4.104	0.342
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.367

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month						
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	13:10	14:35	1.42	2.422	0.143
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.143

Note: Overflow occurs when upstream depth reaches approx. 65" or when downstream reaches approx. 81".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month						
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month						
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month						
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH
FLOW VOLUME = 0.000

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG George and Temple
LOCATION: Regulator 34
NPDES Permit Outfall #:
MONTH: June YEAR: 2014
Average Low Temp: 60
Average High Temp: 78
Measured Rainfall: 4.39
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	6/5/2014	2:50	12:20	9.50	0.50	***						
2	6/9/2014	7:35	14:55	7.33	1.02	6 Month	6/9/2014	13:45	14:55	1.17	5.300	0.258
3	6/12/2014	12:05	12:35	0.50	0.02	***						
4	6/13/2014	0:00	23:55	23.92	2.08	6 Month	6/13/2014	10:55	14:15	3.33	1.243	0.173
5	6/19/2014	5:20	10:15	4.92	0.74	1 Month	6/19/2014	7:25	8:40	1.25	1.434	0.075
6	6/26/2014	1:55	4:40	2.75	0.03	***						

TOTAL MONTH FLOW VOLUME = 0.506

Note:

METER DATA

MAY 2014

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - THROUGH MAY 2014

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)	RAINFALL (IN)	METER MONTHS
CSO 006	REGS 006 A, 006 B	30	9.276	86.80	24
CSO 005	REG 005	25	5.483	86.80	24
CSO 004	REG 004	88	40.963	86.80	24
CSO 003	REG 003	66	31.645	86.80	24
CSO 024	REG 024	22	24.344	81.20	22
CSO 009	REG 009	40	2.866	69.46	20
CSO 019	REG 019	26	1.451	81.20	22
CSO 016	REG 016	51	25.994	71.49	22
CSO 015	REG 015	34	5.678	69.46	20
CSO 010	REG 010	14	3.125	70.16	19
CSO 011	REGS 010A, 011, 014, 026	16	10.515	65.09	18
CSO 012	REGS 012A, 012B, 028	35	11.659	81.20	22
CSO 025	REGS 025, 034	3	0.486	24.71	6
CSO 021	REG 021	27	25.608	66.09	19
CSO 020	REG 020	5	0.233	49.54	14
TOTAL		**482**	**199.326**		

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

CSO NUMBER	REGULATOR NUMBERS	ANNUAL CSO EVENTS BASED ON RAINFALL[1]	ANNUAL CSO VOLUME (MG) BASED ON RAINFALL[2]	ANNUAL CSO EVENTS BASED ON MONTHS[3]	ANNUAL CSO VOLUME (MG) BASED ON MONTHS[4]	MODEL CSO EVENTS	MODEL CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	14	4.410	15	4.638	27	27.0
CSO 005	REG 005	12	2.607	13	2.742	39	22.0
CSO 004	REG 004	42	19.476	44	20.482	44	65.3
CSO 003	REG 003	31	15.046	33	15.823	28	12.5
CSO 024	REG 024	11	12.373	12	13.279	0	1.9
CSO 009	REG 009	24	1.703	24	1.720	27	8.1
CSO 019	REG 019	13	0.737	14	0.791	7	2.4
CSO 016	REG 016	29	15.005	28	14.179	45	20.4
CSO 015	REG 015	20	3.374	20	3.407	9	4.1
CSO 010	REG 010	8	1.838	9	1.974	6	2.4
CSO 011	REGS 010A, 011, 014, 026	10	6.667	11	7.010	15	26.6
CSO 012	REGS 012A, 012B, 028	18	5.926	19	6.359	8	2.9
CSO 025	REGS 025, 034	5	0.812	6	0.972	6	9.0
CSO 021	REG 021	17	15.991	17	16.173	23	35.1
CSO 020	REG 020	4	0.194	4	0.200	8	1.4
TOTAL		**255**	**105.965**	**265**	**109.547**	**292**	**241.1**

(1) Annual CSO Events Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Events to Date / Rainfall to Date
(2) Annual CSO Volume (MG) Based on Rainfall = Annual Rainfall (3.44 in x 12 = 41.28 in) x CSO Volume (MG) to Date / Rainfall to Date
(3) Annual CSO Events Based on Months = 12 x CSO Events to Date / Meter Months to Date
(4) Annual CSO Volume (MG) Based on Months = 12 x CSO Volume (MG) to Date / Meter Months to Date

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - MAY 2014

MONTHLY RAINFALL SUMMARY

4.22 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 2 year storm, one 1 year storm, all other storms less than 1 month return frequency

CSO NUMBER	REGULATOR NUMBERS	CSO EVENTS	CSO VOLUME (MG)
CSO 006	REGS 006 A, 006 B	2	0.431
CSO 005	REG 005	2	0.402
CSO 004	REG 004	8	1.961
CSO 003	REG 003	3	0.155
CSO 024	REG 024	1	0.174
CSO 009	REG 009	2	0.102
CSO 019	REG 019	1	0.008
CSO 016	REG 016	2	0.184
CSO 015	REG 015	3	0.076
CSO 010	REG 010	1	0.296
CSO 011	REGS 010A, 011, 014, 026	1	1.280
CSO 012	REGS 012A, 012B, 028	1	0.064
CSO 025	REGS 025, 034	3	0.486
CSO 021	REG 021	1	0.898
CSO 020	REG 020	1	0.005
TOTAL		**32** (22 CSO events in a typical month)	**6.522** (20.358 MG of CSO volume in a typical month)

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Orange Ave. @ Int. of Ella T. Grasso Blvd.
LOCATION: 003
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	0:55	5:25	4.50	0.549	0.103
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***	5/22/2014	12:20	13:40	1.33	0.068	0.004
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR	5/27/2014	20:35	22:15	1.67	0.691	0.048
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 0.155

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
LOCATION: 004
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***	5/2/2014	0:00	10:00	10.00	0.123	0.051
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***	5/8/2014	10:40	12:25	1.75	0.626	0.046
4	5/9/2014	4:20	6:55	2.58	0.11	***	5/9/2014	7:30	8:05	0.58	0.479	0.012
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	0:55	5:40	4.75	5.599	1.108
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***	5/22/2014	12:15	20:15	8.00	0.595	0.198
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***	5/23/2014 - 5/24/2014	23:15	0:30	1.25	0.403	0.021
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR	5/27/2014	20:40	23:00	2.33	5.236	0.509
11	5/28/2014	9:50	10:25	0.58	0.10	***	5/28/2014	10:40	11:20	0.67	0.569	0.016
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 1.961

Note: Overflow occurs when Interceptor level reaches 35"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
LOCATION: 005
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:05	2:30	1.42	6.236	0.368
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR	5/27/2014	20:50	21:35	0.75	1.094	0.034
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 0.402

Note: Overflow occurs when Interceptor level reaches 53.5"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yrds from Fitch Street
LOCATION: 006
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:10	2:30	1.33	1.827	0.380
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR	5/27/2014	21:00	21:40	0.67	1.827	0.051
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 0.431

Note: Overflow occurs when Interceptor level reaches 27"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street
LOCATION: 009
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/20	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/20	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	2:20	3:25	1.08	2.151	0.097
8	5/22/2014 - 5/23/20	4:25	1:40	21.25	0.46	***	5/22/2014	12:20	13:05	0.75	0.159	0.005
9	5/23/20114 - 5/24/2	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH
FLOW VOLUME = 0.102

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
LOCATION: 010
NPDES Permit Outfall #:
MONTH: May **YEAR:** 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/201	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/20	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:15	2:25	1.17	6.093	0.296
8	5/22/2014 - 5/23/20	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = **0.296**

Note: Overflow occurs when sewer level reaches 54"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
LOCATION: 010A
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:20	2:05	0.75	4.487	0.140
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 0.140

Note: Overflow occurs when sewer level reaches 62"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/20	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/20	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:15	3:20	2.08	13.134	1.140
8	5/22/2014 - 5/23/20	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 1.140

Note: OF-011-609 and OF-011-997 removed on 8/26

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
LOCATION: 011
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

	RAINFALL EVENT						CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/201	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/20	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:15	3:20	2.08	14.769	1.280
8	5/22/2014 - 5/23/20	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 1.280

Note: Sum of 10A and 11

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive
LOCATION: 012
NPDES Permit Outfall #:
MONTH: May **YEAR:** 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/20	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/20	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:15	2:05	0.92	1.667	0.064
8	5/22/2014 - 5/23/20	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = **0.064**

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
LOCATION: 015
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/201	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/20	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	0:55	3:35	2.67	0.109	0.012
8	5/22/2014 - 5/23/20	4:25	1:40	21.25	0.46	***	5/22/2014	12:25	13:00	0.58	0.767	0.019
9	5/23/20114 - 5/24/2	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR	5/27/2014	20:50	21:35	0.75	1.441	0.045
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = **0.076**

Note: Overflow can occur with DS sewer depth reaches 40.5"
Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar
LOCATION: 016
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:00	2:25	1.42	2.401	0.142
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***	5/22/2014	12:05	13:30	1.42	0.704	0.042
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 0.184

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street
LOCATION: 019
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:15	1:25	0.17	1.091	0.008
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						
										TOTAL MONTH FLOW VOLUME =		0.008

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnipiac
LOCATION: 020
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:45	10:45	9.00	0.013	0.005
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 0.005

Note: Overflow occurs when level is 31" in the interceptor.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 638 Long Wharf Drive
LOCATION: 021
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:30	3:55	2.42	8.916	0.898
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 0.898

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Sea Street @ South Water Street
LOCATION: 024
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	1:25	3:25	2.00	2.019	0.174
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH
FLOW VOLUME = 0.174

Note: Overflow occurs when upstream depth reaches approx. 65" or when downstream reaches approx. 81".

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Intersection of State & N. Front Street
LOCATION: 025
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR						
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***						
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR						
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH
FLOW VOLUME = 0.000

Note:

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG George and Temple
LOCATION: Regulator 34
NPDES Permit Outfall #:
MONTH: May YEAR: 2014
Average Low Temp: 51
Average High Temp: 69
Measured Rainfall: 4.22
Measured Snowfall:

		RAINFALL EVENT					CSO EVENT					
EVENT No.	DATE	START	STOP	DURATION (hours)	TOTAL	FREQUENCY	DATE	START	STOP	DURATION (hours)	OUTFALL Qavg (MGD)	OUTFALL Q volume (MG)
1	5/2/2014	0:40	0:45	0.08	0.01	***						
2	5/4/2014	16:20	16:30	0.17	0.02	***						
3	5/8/2014	6:45	16:25	9.67	0.20	***						
4	5/9/2014	4:20	6:55	2.58	0.11	***						
5	5/10/2014 -5/11/2014	5:15	3:30	22.25	0.13	***						
6	5/15/2014	19:50	20:10	0.33	0.03	***						
7	5/16/2014 - 5/17/2014	5:55	4:20	22.42	1.62	1 YEAR	5/17/2014	0:50	2:20	1.50	4.944	0.309
8	5/22/2014 - 5/23/2014	4:25	1:40	21.25	0.46	***	5/22/2014	12:30	12:40	0.17	2.233	0.016
9	5/23/20114 - 5/24/2014	21:45	7:30	9.75	0.19	***						
10	5/27/2014	20:10	21:25	1.25	1.33	2 YEAR	5/27/2014	20:35	21:20	0.75	5.137	0.161
11	5/28/2014	9:50	10:25	0.58	0.10	***						
12	5/30/2014	21:35	21:50	0.25	0.02	***						

TOTAL MONTH FLOW VOLUME = 0.486

Note: