



GREATER NEW HAVEN
Water Pollution Control Authority

CONSENT ORDER WC5509
Annual Progress Report
July 1, 2015 – June 30, 2016



ATTACHMENT "A"

GNHWPCA

CSO LTCP

ANNUAL STATUS REPORT

FY 2016

ATTACHMENT "B"

**DEEP LETTER
CORRESPONDENCE**

FY 2016



FY 2016 DEEP LETTER CORRESPONDENCE

| APPROVAL DATE | LETTER TYPE | CWF # | PROJECT | Amount | TO | FROM |
|---------------|---|--------|---|-------------|--------------|---------------------|
| 07/20/15 | Approval/Ineligible | 441-C | ESWPAF Phase 1 Change Order 12 | \$0 | Sid Holbrook | Dennis J. Greci, PE |
| 07/28/15 | Preapproval/Ineligible | 441-C | ESWPAF Phase 1 Change Order 15 | \$197,239 | Sid Holbrook | Dennis J. Greci, PE |
| 07/30/15 | Approval | 676-C | GNHWPCA Contract No. 14-006 Change Order 1 | \$155,337 | Sid Holbrook | Dennis J. Greci, PE |
| 08/13/15 | Approval | 676-C | GNHWPCA Contract No. 14-006 Change Order 1 | \$155,337 | Sid Holbrook | Dennis J. Greci, PE |
| 08/24/15 | Approval | 441-C | ESWPAF Phase 1 Change Order 14 | \$87,464.00 | Sid Holbrook | Dennis J. Greci, PE |
| 08/24/15 | Approval/Ineligible | 441-C | ESWPAF Phase 1 Change Order 15 | \$0 | Sid Holbrook | Dennis J. Greci, PE |
| 10/20/15 | Approval | 441-C | ESWPAF Phase 1 Change Order 16 | \$85,121 | Sid Holbrook | Dennis J. Greci, PE |
| 10/20/15 | Approval | 441-C | ESWPAF Phase 1 Change Order 17 | \$59,083 | Sid Holbrook | Dennis J. Greci, PE |
| 10/20/15 | Approval | 441-C | ESWPAF Phase 1 Change Order 18 | \$79,492 | Sid Holbrook | Dennis J. Greci, PE |
| 11/18/15 | Approval | 441-C | ESWPAF Phase 1 Change Order 19 | \$90,048 | Sid Holbrook | Dennis J. Greci, PE |
| 12/03/15 | Approval of Preliminary Design Memo | 66B-PG | West River CSO Abatement | | Sid Holbrook | Denise Ruzicka, PE |
| 12/14/15 | Approval | 682-PG | Engineering Agreement -Long Term Control Plan | \$700,000 | Sid Holbrook | Denise Ruzicka, PE |
| 12/22/15 | Approval | 441-C | ESWPAF Phase 1 Change Order 21 | \$88,444 | Sid Holbrook | Dennis J. Greci, PE |
| 12/23/15 | Approval | 441-C | ESWPAF Phase 1 Change Order 22 | \$36,711 | Sid Holbrook | Dennis J. Greci, PE |
| 12/30/15 | Pre-Approval | 441-C | ESWPAF Phase 1 Change Order 23 | \$147,790 | Sid Holbrook | Dennis J. Greci, PE |
| 01/05/16 | Approval | 682-PG | Engineering Agreement -Long Term Control Plan | \$700,000 | Sid Holbrook | Denise Ruzicka, PE |
| 01/08/16 | Approval | 441-C | ESWPAF Phase 1 Change Order 20 | \$69,748 | Sid Holbrook | Dennis J. Greci, PE |
| 01/12/16 | Revised Approval | 441-C | ESWPAF Phase 1 Change Order 22 - Item 22b | \$86,776 | Sid Holbrook | Dennis J. Greci, PE |
| 01/15/16 | Approval | 670-PG | ESWPAF Phase 1 Change Order 23 | \$147,790 | Sid Holbrook | Dennis J. Greci, PE |
| 02/02/16 | Approval | 441-C | ESWPAF Phase 1 Change Order 24 | \$94,806 | Sid Holbrook | Dennis J. Greci, PE |
| 02/04/16 | Approval of Preliminary Design Memo | | Relief Sewers for CSO Abatement | | Sid Holbrook | Denise Ruzicka, PE |
| 02/10/16 | Draft Approval of Engineering Agreement | TBD | I/I Study for Mill River - Hamden | \$324,985 | Sid Holbrook | Denise Ruzicka, PE |
| 02/10/16 | Draft Approval of Engineering Agreement | TBD | SSS Woodbridge W2 & W2A, East Haven Areas 15, 18 & 23 | \$650,000 | Sid Holbrook | Denise Ruzicka, PE |
| 02/23/16 | Final Approval of Engineering Agreement | TBD | I/I Study for Mill River - Hamden | \$324,985 | Sid Holbrook | Denise Ruzicka, PE |
| 02/23/16 | Final Approval of Engineering Agreement | TBD | SSS Woodbridge W2 & W2A, East Haven Areas 15, 18 & 23 | \$650,000 | Sid Holbrook | Denise Ruzicka, PE |
| 03/03/16 | Approval | 441-C | ESWPAF Phase 1 Change Order 25 | \$70,452 | Sid Holbrook | Dennis J. Greci, PE |
| 03/04/16 | Draft Approval of Engineering Agreement | TBD | Final Design Services for Regulators 012 & 020 Relief Sewers | \$339,091 | Sid Holbrook | Denise Ruzicka, PE |
| 03/04/16 | Draft Approval of Engineering Agreement | TBD | Regulator 034 Relief Sewer Design Services (DTC No. 15-233-000) | \$287,735 | Sid Holbrook | Denise Ruzicka, PE |
| 03/04/16 | Draft Approval of Engineering Agreement | TBD | Final Design Services for West River CSO Improvement Project | \$228,061 | Sid Holbrook | Denise Ruzicka, PE |
| 03/15/16 | Draft Approval of Engineering Agreement | TBD | Green Infrastructure Design - West River Watershed | \$90,000 | Sid Holbrook | Denise Ruzicka, PE |
| 03/29/16 | Final Approval of Engineering Agreement | TBD | Final Design Services for West River CSO Improvement Project | \$228,061 | Sid Holbrook | Denise Ruzicka, PE |
| 03/04/16 | Final Approval of Engineering Agreement | TBD | Final Design Services for Regulators 012 & 020 Relief Sewers | \$339,091 | Sid Holbrook | Denise Ruzicka, PE |
| 03/29/16 | Final Approval of Engineering Agreement | TBD | Regulator 034 Relief Sewer Design Services (DTC No. 15-233-000) | \$287,735 | Sid Holbrook | Denise Ruzicka, PE |
| 04/22/16 | Final Approval of Engineering Agreement | TBD | Green Infrastructure Design - West River Watershed | \$90,000 | Sid Holbrook | Denise Ruzicka, PE |
| 04/25/16 | Approval | 441-C | ESWPAF Phase 1 Change Order 26 | \$80,470 | Sid Holbrook | Denise Ruzicka, PE |

**2016 ANNUAL REPORT
ATTACHMENT "B"**

| | | | | | | |
|----------|--------------|-------|--------------------------------|-----------|--------------|---------------------|
| 04/25/16 | Pre-Approval | 441-C | ESWPAF Phase 1 Change Order 27 | \$258,892 | Sid Holbrook | Denise Ruzicka, PE |
| 05/06/16 | Approval | 441-C | ESWPAF Phase 1 Change Order 27 | \$258,892 | Sid Holbrook | Denise Ruzicka, PE |
| 06/15/16 | Approval | 441-C | ESWPAF Phase 1 Change Order 28 | \$0 | Sid Holbrook | George V. Hicks, PE |
| 06/21/16 | Approval | 441-C | ESWPAF Phase 1 Change Order 29 | \$69,383 | Sid Holbrook | George V. Hicks, PE |
| | | | | | | |

ATTACHMENT "C"

**DEEP / GNHWPCA
LETTER & EMAIL
CORRESPONDENCE**

FY 2016



| FY 2016 GNHWPCA LETTER & E-MAIL CORRESPONDENCE/TRANSMITTALS | | | | | |
|---|---------------|---------------|--|-------------------------------|-------------------|
| DATE | DOCUMENT TYPE | Ref/CWF # | PROJECT | TO | FROM |
| 06/15/15 | email | LTCP | Proposed LTCP Update Scope of Service | D.Ruzica, G.Hicks | T.Sgroi |
| 06/16/15 | email | 441-C | Change Order No. 11 - Disagreement with interpretation | G.Hicks | T.Sgroi |
| 06/23/15 | email | CSOs | CSO Closure Report | G.Hicks | T.Sgroi |
| 07/10/15 | email | LTCP | CWF Progress Draft Meeting Agenda | G.Hicks | T.Sgroi |
| 07/20/15 | email | NPDES | Draft NPDES Initial Transmittal for review | G.Zrelak | I.Hall |
| 08/05/15 | email | NPDES | GNHWPCA Comments to Draft NPDES Permit from DEEP | I.Hall | G.Zrelak |
| 08/10/15 | email | LTCP | Approval Request for West River Study | G.Hicks | T.Sgroi |
| 08/10/16 | email | NPDES | Draft NPDES Permit | G.Zrelak | I.Hall |
| 08/15/15 | email | NPDES | Draft NPDES Follow up to Meeting | G.Zrelak, T.Sgroi, J.Torre | I.Hall |
| 08/19/15 | Letter | EPA Order | EPA Administrative Consent Order CWA 01-15-004 | Sid Holbrook | John Melcher, EPA |
| 08/25/16 | email | NPDES | Request for CSO Monitoring Meeting Related To NPDES Requirements | G.Zrelak | I.Hall |
| 08/28/15 | email | NPDES | Response to DEEP Comments related to Draft NPDES Permit | I.Hall | G.Zrelak |
| 10/16/15 | email | CSOs | Request for CSO Table | T.Sgroi | I.Hall |
| 10/21/15 | Letter | NPDES | Response to NPDES Permit Renewal | Lynne Bonnett | I.Hall |
| 10/22/15 | email | CSOs | CSO Closure Certification Forms | I.Hall | B.Kirkland |
| 10/23/15 | email | LTCP | Post LTCP Powerpoint followup | G.Hicks, S.Muollo | T.Sgroi |
| 11/09/15 | email | LTCP | CWF Progress Status | D.Ruzica | T.Sgroi |
| 12/07/15 | email | Priority List | FY17 Priority List Request and 5yr Schedule of Projects | G.Hicks | T.Sgroi |
| 12/08/15 | email | Priority List | Follow up to Priority List Email | G.Hicks | T.Sgroi |
| 12/30/15 | email | 441-C | Change Order Specification Interpretation Disagreement | G.Hicks | T.Sgroi |
| 01/15/16 | email | I/I | Mill River Trunk Sewer Proposal Package | G.Hicks | T.Sgroi |
| 01/29/16 | Letter | EPA Order | EPA Adminstrative Consent Order - CMOM Self Assesment | J.Melcher, G.Hicks | Sid Holbrook |
| 02/04/16 | email | LTCP | Status Report Email - Critical Path Items related to LTCP Schedule | G.Hicks | T.Sgroi |
| 02/12/16 | letter | EPA Order | Consent Order CWA 01-15-004 Response to Comments | Sid Holbrook | John Melcher, EPA |
| 02/24/16 | Letter | EPA Order | Consent Order CWA 01-15-004 Revised to Adress Comments | J.Melcher, G.Hicks | Sid Holbrook |
| 03/08/16 | Letter | NPDES | NPDES Permit Renewal | GNH | DEEP |
| 03/23/16 | letter | Priority List | FY16 Draft Priority List Request Questions | G.Hicks | T.Sgroi |
| 06/20/16 | email | EPA | Air Rights Garage Flooding - EPA New Haven Office Response | Anne Sangiovani, EPA | T.Sgroi |

ATTACHMENT "D"

ANNUAL CSO FLOW MONITORING DATA

JUNE 2016

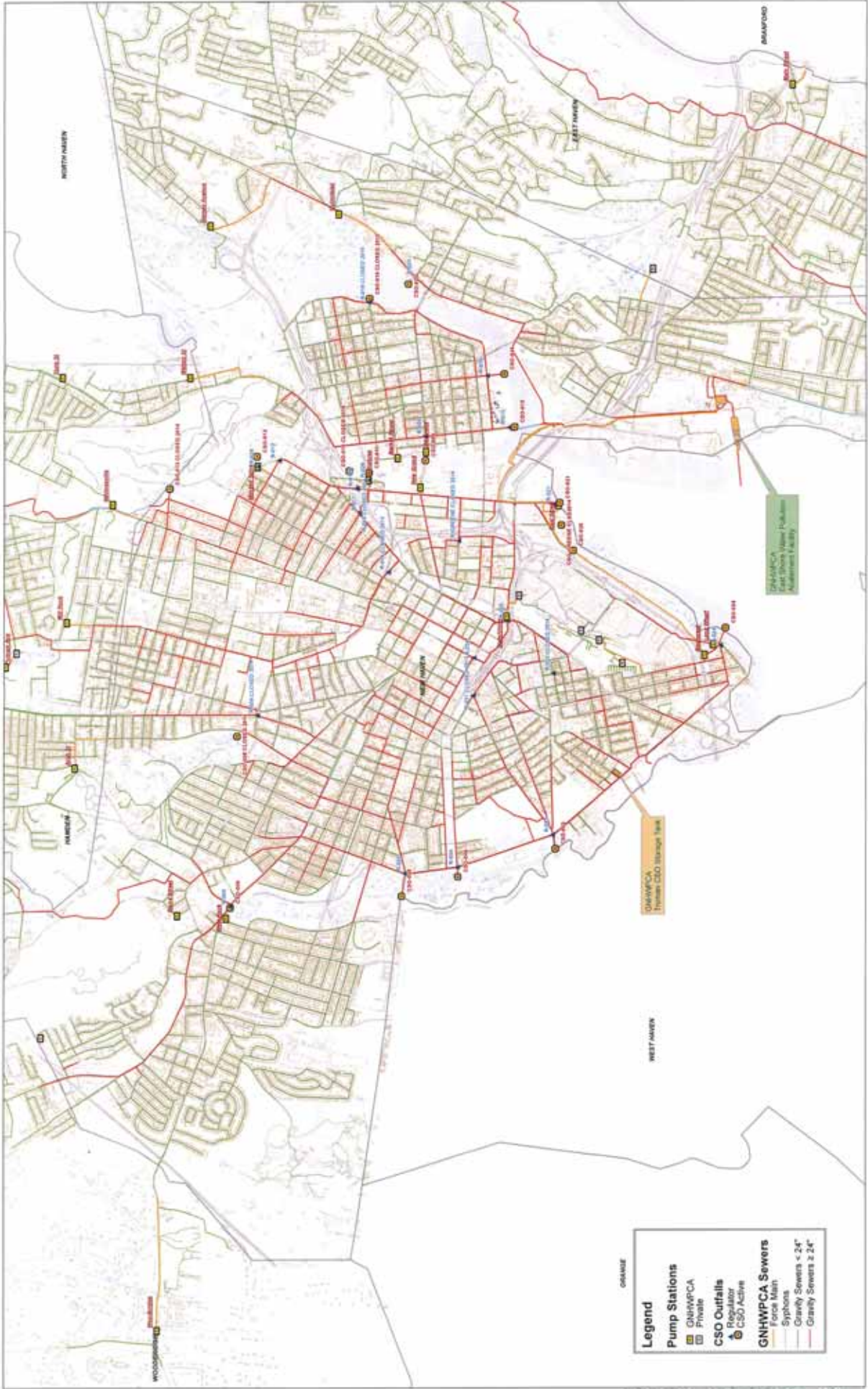
ATTACHMENT "D"

**JUNE 2016
ANNUAL CSO FLOW MONITORING PROGRAM DATA**

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UPDATED SEWER MAP



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



REGULATOR & CSO DESIGNATIONS & STATUS

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
REGULATOR AND CSO DESIGNATIONS AND STATUS

23-Jun-16

| (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 raised 8 inches in 2015 |
| #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 | Closed in 2015 | #019 | Closed in 2015 |
| #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 | Carislie/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 |
| | | | | 13 | ACTIVE CSOS | 17 | ACTIVE REGULATORS |

(1) NPDES Permit # CT 0100366 dated February 9, 2016
(2) Ongoing CSO Flow Monitoring Program initiated in June 2012

METER LOCATION SUMMARY

**GREATER NEW HAVEN WPCA
CSO FLOW MONITORING PROGRAM
METER LOCATION SUMMARY
JUNE 27, 2016**

UPDATED TO NAVD88 DATUM

OF-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

OF-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

OF-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

OF-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 SEWER AND 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 2.65
- The regulator consists of a 5.5 foot long weir at an elevation of 4.65. The weir was rebuilt on January 27, 2013. The overflow was raised 8 inches to elevation 5.32 on 6/23/15.
- Meter OF-009 Sewer (FM-19) was installed in the 35 inch wide by 52 inch high sewer one manhole upstream of REG-009 on 7/21/15 at an invert elevation of 2.81 (overflow depth is 30 inches)
- CSO start and stop times are based on a depths greater than 30 inches at Meter OF-009 Sewer (FM-19) and positive velocities at Meter OF-009 Overflow
- CSO volumes are calculated based on depths and velocities at Meter OF-009 Overflow, the hydraulic elements chart and the Continuity Equation
- There is significant tidal influence at Meter OF-009 Overflow

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 OF-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

OF-012 SEWER

- 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 SEPTEMBER 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 OF-012 Sewer 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 OF-012 Sewer
- 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

OF-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

OF-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)

OF-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

OF-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 2015 – APRIL 2016

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - MAY 2015 THROUGH APRIL 2016

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 15 | 2.235 | 35.42 | 12 |
| CSO 005 | REG 005 | 6 | 0.360 | 35.42 | 12 |
| CSO 004 | REG 004 | 21 | 1.664 | 35.42 | 12 |
| CSO 003 | REG 003 | 27 | 1.901 | 35.42 | 12 |
| CSO 024 | REG 024 | 12 | 4.166 | 35.42 | 12 |
| CSO 009 | REG 009 | 20 | 0.325 | 35.42 | 12 |
| CSO 016 | REG 016 | 27 | 8.579 | 35.42 | 12 |
| CSO 015 | REG 015 | 27 | 2.523 | 35.42 | 12 |
| CSO 011 | REGS 010A, 011, 026 | 16 | 1.884 | 35.42 | 12 |
| CSO 012 | REGS 012A, 012B, 028 | 2 | 0.015 | 35.42 | 12 |
| CSO 025 | REGS 025, 034 | 15 | 1.694 | 35.42 | 12 |
| CSO 021 | REG 021 | 18 | 9.874 | 35.42 | 12 |
| CSO 020 | REG 020 | 2 | 0.004 | 35.42 | 12 |
| TOTAL | | 208 | 35.224 | | |

METER DATA

APRIL 2016

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - APRIL 2016

MONTHLY RAINFALL SUMMARY

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

0.2 inches of snow

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

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

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO_EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|-------------------|--------------------------|-------------------|------------------------|
| CSO 006 | REGS 006 A, 006 B | 1 | 0.042 |
| CSO 005 | REG 005 | 0 | 0.000 |
| CSO 004 | REG 004 | 3 | 0.024 |
| CSO 003 | REG 003 | 3 | 0.243 |
| CSO 024 | REG 024 | 1 | 0.437 |
| CSO 009 | REG 009 | 2 | 0.052 |
| CSO 016 | REG 016 | 3 | 0.933 |
| CSO 015 | REG 015 | 3 | 0.278 |
| CSO 011 | REGS 010A, 011, 026 | 3 | 0.019 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.009 |
| CSO 025 | REGS 025, 034 | 0 | 0.000 |
| CSO 021 | REG 021 | 1 | 0.110 |
| CSO 020 | REG 020 | 0 | 0.000 |
| TOTAL | | 21 | 2.147 |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH APRIL 2016

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 57 | 13.996 | 155.97 | 48 |
| CSO 005 | REG 005 | 9 | 0.442 | 57.15 | 21 |
| CSO 004 | REG 004 | 38 | 4.444 | 57.39 | 21 |
| CSO 003 | REG 003 | 121 | 35.732 | 153.06 | 47 |
| CSO 024 | REG 024 | 38 | 30.396 | 142.74 | 44 |
| CSO 009 | REG 009 | 78 | 3.752 | 135.62 | 43 |
| CSO 016 | REG 016 | 100 | 37.642 | 138.27 | 46 |
| CSO 015 | REG 015 | 83 | 10.530 | 135.77 | 43 |
| CSO 011 | REGS 010A, 011, 026 | 37 | 15.637 | 131.25 | 41 |
| CSO 012 | REGS 012A, 012B, 028 | 2 | 0.015 | 53.66 | 19 |
| CSO 025 | REGS 025, 034 | 17 | 1.722 | 57.30 | 21 |
| CSO 021 | REG 021 | 55 | 39.912 | 132.23 | 42 |
| CSO 020 | REG 020 | 9 | 0.274 | 115.68 | 37 |
| TOTAL | | 644 | 194.494 | | |

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 | 3.703 | 14 | 3.499 |
| CSO 005 | REG 005 | 6 | 0.319 | 5 | 0.253 |
| CSO 004 | REG 004 | 27 | 3.196 | 21 | 2.510 |
| CSO 003 | REG 003 | 33 | 9.635 | 31 | 9.101 |
| CSO 024 | REG 024 | 11 | 8.788 | 10 | 8.290 |
| CSO 009 | REG 009 | 24 | 1.142 | 22 | 1.047 |
| CSO 016 | REG 016 | 30 | 11.235 | 26 | 9.897 |
| CSO 015 | REG 015 | 25 | 3.201 | 23 | 2.927 |
| CSO 011 | REGS 010A, 011, 026 | 12 | 4.917 | 11 | 4.574 |
| CSO 012 | REGS 012A, 012B, 028 | 2 | 0.012 | 1 | 0.009 |
| CSO 025 | REGS 025, 034 | 12 | 1.240 | 10 | 0.977 |
| CSO 021 | REG 021 | 17 | 12.457 | 16 | 11.403 |
| CSO 020 | REG 020 | 3 | 0.098 | 3 | 0.089 |
| TOTAL | | 214 | 59.844 | 191 | 54.486 |

(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
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 NPDES Permit Outfall #: 003
 MONTH: April YEAR: 2016
 Average Low Temp: 38
 Average High Temp: 57
 Measured Rainfall: 3.90
 Measured Snowfall: 0.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Q avg (MGD) | OUTFALL Q volume (MG) |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|---------------------|-------|------|------------------|-------|---------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | | | |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | 4/2/2016 - 4/3/2016 | 20:40 | 4:25 | 7.75 | 0.002 | 0.186 | |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | 4/23/2016 | 2:05 | 2:50 | 0.75 | 0.004 | 0.036 | |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | 4/26/2016 | 5:25 | 5:50 | 0.42 | 0.004 | 0.021 | |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.243

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yds North of Legion Ave.
 004
 NPDES Permit Outfall #: April YEAR: 2016
 MONTH: 38
 Average Low Temp: 57
 Average High Temp: 3.90
 Measured Rainfall: 0.20
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | 4/3/2016 | 0:55 | 4:00 | 3.08 | 0.000 | 0.017 |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | 4/23/2016 | 1:50 | 2:45 | 0.92 | 0.000 | 0.005 |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | 4/26/2016 | 5:25 | 5:40 | 0.25 | 0.001 | 0.002 |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.024

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 005

NPDES Permit Outfall #:

MONTH: April YEAR: 2016

Average Low Temp: 38

Average High Temp: 57

Measured Rainfall: 3.90

Measured Snowfall: 0.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | | | | | | |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | | | | | | |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | | | | | | |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Grand Avenue & James Street
 009

NPDES Permit Outfall #:

April YEAR: 2016

MONTH:

38

Average Low Temp:

57

Average High Temp:

3-90

Measured Rainfall:

0.20

| EVENT NO. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | | | | | | |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | | | | | | |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | | | | | | |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.052

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 011
 LOCATION: NPDES Permit Outfall #: April YEAR: 2016
 MONTH: 38
 Average Low Temp: 57
 Average High Temp: 3-90
 Measured Rainfall: 0.20
 Measured Snowfall:

| EVENT NO. | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|-------|-------|------------------|-------|-----------|-----------|-------|------|------------------|---------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Q avg (MGD) | OUTFALL Q volume (MG) |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | 4/3/2016 | 3:10 | 3:45 | 0.58 | 2.395 | 0.008 |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | 4/23/2016 | 2:05 | 2:30 | 0.42 | 2.751 | 0.010 |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | 4/26/2016 | 5:20 | 5:40 | 0.33 | 0.234 | 0.001 |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | |

Sum of 010A and 011

TOTAL MONTH FLOW VOLUME = 0.019

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

MONTH: April YEAR: 2016

Average Low Temp: 38

Average High Temp: 57

Measured Rainfall: 3.90

Measured Snowfall: 0.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|--------------------|-----------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | | | | | | | |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | | | | | | | |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | | | | | | | |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.009

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street

LOCATION: 015

NPDES Permit Outfall #:

April YEAR: 2016

MONTH: 38

Average Low Temp: 57

Average High Temp: 3.90

Measured Rainfall: 0.20

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|---------------------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | 4/2/2016 - 4/3/2016 | 20:30 | 3:55 | 7.42 | 0.002 | 0.190 |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | 4/23/2016 | 2:10 | 2:35 | 0.42 | 0.006 | 0.030 |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | 4/26/2016 | 5:05 | 5:50 | 0.75 | 0.006 | 0.058 |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | |

Expected capacity of siphon is between 24 and 30 MGD.

TOTAL MONTH FLOW VOLUME =

0.278

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinpiac
 LOCATION: 020
 NPDES Permit Outfall #: April YEAR: 2016
 MONTH: 38
 Average Low Temp: 57
 Average High Temp: 3.90
 Measured Rainfall: 0.20
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|---------------|-----------------------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | | | | | | |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | | | | | | |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | | | | | | |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | 0.000 | |
| 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: April YEAR: 2016

Average Low Temp: 38

Average High Temp: 57

Measured Rainfall: 3.90

Measured Snowfall: 0.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|----------|-----------|------|------------------|--------------------|-----------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | 4/3/2016 | 3:30 | 4:30 | 1.00 | 0.009 | 0.110 | |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | | | | | | | |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | | | | | | | |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.110

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 NPDDES Permit Outfall #: 2016
 MONTH: April YEAR: 2016
 Average Low Temp: 38
 Average High Temp: 57
 Measured Rainfall: 3.90
 Measured Snowfall: 0.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|---------------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | | | | | | |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | | | | | | |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | | | | | | |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | |
| | | | | | | | | | | | TOTAL MONTH FLOW VOLUME = | 0.437 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 MONTH: April YEAR: 2016
 NPDES Permit Outfall #: 38
 Average Low Temp: 57
 Average High Temp: 3.90
 Measured Rainfall: 0.20
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Qavg (MGD) | OUTFALL volume (MG) |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--|--------------------|---------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | | | |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | | | | | | | |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | | | | | | | |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | | | | | | | |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: George and Temple
 Regulator 34

NPDES Permit Outfall #:

MONTH: April YEAR: 2016

Average Low Temp: 38

Average High Temp: 57

Measured Rainfall: 3.90

Measured Snowfall: 0.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 4/1/2016 | 0:50 | 20:15 | 19.42 | 0.14 | *** | | | | | | |
| 2 | 4/2/2016 | 4:15 | 13:15 | 9.00 | 0.32 | *** | | | | | | |
| 3 | 4/2/2016 - 4/3/2016 | 20:05 | 8:50 | 12.75 | 1.53 | 3 month | | | | | | |
| 4 | 4/4/2016 | 8:35 | 15:30 | 6.92 | 0.22 | *** | | | | | | |
| 5 | 4/5/2016 | 10:25 | 13:40 | 3.25 | 0.23 | *** | | | | | | |
| 6 | 4/7/2016 | 11:15 | 20:35 | 9.33 | 0.12 | *** | | | | | | |
| 7 | 4/11/2016 - 4/12/2016 | 20:25 | 12:20 | 15.92 | 0.26 | *** | | | | | | |
| 8 | 4/22/2016 - 4/23/2016 | 22:55 | 8:00 | 9.08 | 0.44 | 1 month | | | | | | |
| 9 | 4/26/2016 | 3:55 | 16:45 | 12.83 | 0.43 | 1 month | | | | | | |
| 10 | 4/28/2016 | 23:05 | 23:10 | 0.08 | 0.01 | *** | | | | | | |
| 11 | 4/29/2016 - 4/30/2016 | 23:10 | 2:15 | 3.08 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

METER DATA

MARCH 2016

**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - MARCH 2016**

MONTHLY RAINFALL SUMMARY

2.60 inches of rain (3.44 inches of rain in a typical month)
4.2 inches of snow
8 rain events (10 rain events in a typical month)
One 3 month storm, all other storms less than 1 month return frequency

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|--------------------------|---------------------------------|--------------------------|-------------------------------|
| CSO 006 | 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 | 1 | 0.021 |
| CSO 024 | REG 024 | 0 | 0.000 |
| CSO 009 | REG 009 | 0 | 0.000 |
| CSO 016 | REG 016 | 1 | 0.202 |
| CSO 015 | REG 015 | 1 | 0.052 |
| 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 | | 3 | 0.275 |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
 CSO FLOW MONITORING PROGRAM
 METER DATA SUMMARY - THROUGH MARCH 2016

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 56 | 13.954 | 152.07 | 47 |
| CSO 005 | REG 005 | 9 | 0.442 | 53.25 | 20 |
| CSO 004 | REG 004 | 35 | 4.420 | 53.49 | 20 |
| CSO 003 | REG 003 | 118 | 35.489 | 149.16 | 46 |
| CSO 024 | REG 024 | 37 | 29.959 | 138.84 | 43 |
| CSO 009 | REG 009 | 76 | 3.700 | 131.72 | 42 |
| CSO 016 | REG 016 | 97 | 36.709 | 134.37 | 45 |
| CSO 015 | REG 015 | 80 | 10.252 | 131.87 | 42 |
| CSO 011 | REGS 010A, 011, 026 | 34 | 15.618 | 127.35 | 40 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 | 49.76 | 18 |
| CSO 025 | REGS 025, 034 | 17 | 1.722 | 53.40 | 20 |
| CSO 021 | REG 021 | 54 | 39.802 | 128.33 | 41 |
| CSO 020 | REG 020 | 9 | 0.274 | 111.78 | 36 |
| TOTAL | | 623 | 192.347 | | |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>ANNUAL CSO EVENTS BASED ON RAINFALL⁽¹⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON RAINFALL⁽²⁾</u> | <u>ANNUAL CSO EVENTS BASED ON MONTHS⁽³⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON MONTHS⁽⁴⁾</u> |
|--|--------------------------|--|---|--|---|
| CSO 006 | REGS 006 A, 006 B | 15 | 3.787 | 14 | 3.563 |
| CSO 005 | REG 005 | 7 | 0.343 | 5 | 0.265 |
| CSO 004 | REG 004 | 27 | 3.410 | 21 | 2.620 |
| CSO 003 | REG 003 | 33 | 9.819 | 31 | 9.235 |
| CSO 024 | REG 024 | 11 | 8.905 | 10 | 8.361 |
| CSO 009 | REG 009 | 24 | 1.159 | 22 | 1.057 |
| CSO 016 | REG 016 | 30 | 11.275 | 26 | 9.868 |
| CSO 015 | REG 015 | 25 | 3.208 | 23 | 2.917 |
| CSO 011 | REGS 010A, 011, 026 | 11 | 5.061 | 10 | 4.683 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.005 | 1 | 0.004 |
| CSO 025 | REGS 025, 034 | 13 | 1.331 | 10 | 1.025 |
| CSO 021 | REG 021 | 17 | 12.800 | 16 | 11.649 |
| CSO 020 | REG 020 | 3 | 0.101 | 3 | 0.091 |
| TOTAL | | 214 | 61.103 | 189 | 55.246 |
| (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: 2016

34

Average Low Temp:

51

Average High Temp:

2.60

Measured Rainfall:

4.20

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | 3/14/2016 | 23:05 | 23:40 | 0.58 | 0.003 | 0.021 |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.021

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 004

NPDES Permit Outfall #:

March YEAR: 2016

MONTH: 34

Average Low Temp: 51

Average High Temp: 2.60

Measured Rainfall: 4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 005

NPDES Permit Outfall #:

MONTH: March YEAR: 2016

Average Low Temp: 34

Average High Temp: 51

Measured Rainfall: 2.60

Measured Snowfall: 4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|--------------------|-----------------------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | |
| TOTAL MONTH | | | | | | | | | | FLOW VOLUME = | 0.000 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #: 006
 MONTH: March YEAR: 2016
 Average Low Temp: 34
 Average High Temp: 51
 Measured Rainfall: 2.60
 Measured Snowfall: 4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|-------------|-----------------------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | |
| TOTAL MONTH | | | | | | | | | | FLOW VOLUME = | 0.000 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

009

LOCATION: Grand Avenue & James Street

NPDES Permit Outfall #: 009

MONTH: March YEAR: 2016

Average Low Temp: 34

Average High Temp: 51

Measured Rainfall: 2.60

Measured Snowfall: 4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

011

LOCATION:

NPDES Permit Outfall #:

March YEAR: 2016

34

51

2.60

4.20

Average Low Temp:

Average High Temp:

Measured Rainfall:

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

March YEAR: 2016

MONTH: 34

Average Low Temp:

51

Average High Temp:

2.60

Measured Rainfall:

4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|---------------|-----------------------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | 0.000 | |
| FLOW VOLUME = | | | | | | | | | | | | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street

LOCATION: 015

NPDES Permit Outfall #:

MONTH: March YEAR: 2016

Average Low Temp: 34

Average High Temp: 51

Measured Rainfall: 2.60

Measured Snowfall: 4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|---------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Q avg (MGD) | OUTFALL Q volume (MG) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | 3/14/2016 | 22:55 | 23:35 | 0.67 | 0.007 | 0.052 |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | | |

Expected capacity of siphon is between 24 and 30 MGD.

TOTAL MONTH FLOW VOLUME = 0.052

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: March YEAR: 2016

Average Low Temp: 34

Average High Temp: 51

Measured Rainfall: 2.60

Measured Snowfall: 4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------------------|-------|------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | 3/14/2016 - 3/15/2016 | 22:45 | 0:35 | 1.83 | 0.009 | 0.202 |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | | |
| | | | | | | | | | | TOTAL MONTH | 0.202 | |
| | | | | | | | | | | FLOW VOLUME = | 0.202 | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinpiac

LOCATION: 020

NPDES Permit Outfall #: March YEAR: 2016

MONTH: 34

Average Low Temp: 51

Average High Temp: 2.60

Measured Rainfall: 4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q, volume (MG) | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|------|-------|------|------------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | |
| | | | | | | | | | | TOTAL MONTH | 0.000 |
| | | | | | | | | | | FLOW VOLUME = | |

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: March YEAR: 2016

Average Low Temp: 34

Average High Temp: 51

Measured Rainfall: 2.60

Measured Snowfall: 4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

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

NPDES Permit Outfall #: 2016
 MONTH: March YEAR: 2016
 Average Low Temp: 34
 Average High Temp: 51
 Measured Rainfall: 2.60
 Measured Snowfall: 4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | OUTFALL Q volume (MG) |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|---------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Q avg (MGD) | |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 MONTH: March YEAR: 2016
 NPDES Permit Outfall #: 34
 Average Low Temp: 51
 Average High Temp: 2.60
 Measured Rainfall: 4.20
 Measured Snowfall:

| EVENT NO. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|---------------|-----------------------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | 0.000 | |
| FLOW VOLUME = | | | | | | | | | | | | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: George and Temple Regulator 34
 NPDES Permit Outfall #: 34
 MONTH: March YEAR: 2016
 Average Low Temp: 34
 Average High Temp: 51
 Measured Rainfall: 2.60
 Measured Snowfall: 4.20

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|-------------|-----------------------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 3/1/2016 | 22:20 | 23:00 | 0.67 | 0.12 | *** | | | | | |
| 2 | 3/2/2016 | 2:05 | 7:45 | 5.67 | 0.19 | *** | | | | | |
| 3 | 3/4/2016 | 13:25 | 13:30 | 0.08 | 0.01 | *** | | | | | |
| 4 | 3/11/2016 | 3:15 | 5:35 | 2.33 | 0.04 | *** | | | | | |
| 5 | 3/14/2016 - 3/15/2016 | 9:35 | 4:20 | 18.75 | 1.21 | 3 month | | | | | |
| 6 | 3/16/2016 | 19:15 | 20:50 | 1.58 | 0.08 | *** | | | | | |
| 7 | 3/21/2016 | 10:30 | 11:00 | 0.50 | 0.15 | *** | | | | | |
| 8 | 3/28/2016 | 4:55 | 14:35 | 9.67 | 0.80 | *** | | | | | |
| TOTAL MONTH | | | | | | | | | | FLOW VOLUME = | 0.000 |

METER DATA

FEBRUARY 2016

**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - FEBRUARY 2016**

MONTHLY RAINFALL SUMMARY

4.98 inches of rain (3.44 inches of rain in a typical month)
14.2 inches of snow
13 rain events (10 rain events in a typical month)
Two 6 month storms, one 3 month storm, all other storms less than 1 month return frequency

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|-------------------|--------------------------|-------------------|------------------------|
| CSO 006 | REGS 006 A, 006 B | 4 | 0.554 |
| CSO 005 | REG 005 | 1 | 0.057 |
| CSO 004 | REG 004 | 4 | 0.440 |
| CSO 003 | REG 003 | 4 | 0.286 |
| CSO 024 | REG 024 | 4 | 1.031 |
| CSO 009 | REG 009 | 3 | 0.027 |
| CSO 016 | REG 016 | 4 | 2.219 |
| CSO 015 | REG 015 | 4 | 0.747 |
| CSO 011 | REGS 010A, 011, 026 | 4 | 0.236 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 2 | 0.023 |
| CSO 021 | REG 021 | 3 | 2.194 |
| CSO 020 | REG 020 | 1 | 0.002 |
| TOTAL | | 38 | 7.816 |

**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM**

METER DATA SUMMARY - THROUGH FEBRUARY 2016

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 56 | 13.954 | 149.47 | 46 |
| CSO 005 | REG 005 | 9 | 0.442 | 50.65 | 19 |
| CSO 004 | REG 004 | 35 | 4.420 | 50.89 | 19 |
| CSO 003 | REG 003 | 117 | 35.478 | 146.56 | 45 |
| CSO 024 | REG 024 | 37 | 29.959 | 136.24 | 42 |
| CSO 009 | REG 009 | 76 | 3.700 | 129.12 | 41 |
| CSO 016 | REG 016 | 96 | 36.547 | 131.77 | 44 |
| CSO 015 | REG 015 | 79 | 10.200 | 129.27 | 41 |
| CSO 011 | REGS 010A, 011, 026 | 34 | 15.618 | 124.75 | 39 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 | 47.16 | 17 |
| CSO 025 | REGS 025, 034 | 17 | 1.722 | 50.80 | 19 |
| CSO 021 | REG 021 | 54 | 39.802 | 125.73 | 40 |
| CSO 020 | REG 020 | 9 | 0.274 | 109.18 | 35 |
| TOTAL | | 620 | 192.122 | | |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>ANNUAL CSO EVENTS BASED ON RAINFALL⁽¹⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON RAINFALL⁽²⁾</u> | <u>ANNUAL CSO EVENTS BASED ON MONTHS⁽³⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON MONTHS⁽⁴⁾</u> |
|-------------------|--------------------------|--|---|--|---|
| CSO 006 | REGS 006 A, 006 B | 15 | 3.853 | 15 | 3.640 |
| CSO 005 | REG 005 | 7 | 0.360 | 6 | 0.279 |
| CSO 004 | REG 004 | 28 | 3.584 | 22 | 2.756 |
| CSO 003 | REG 003 | 33 | 9.991 | 31 | 9.436 |
| CSO 024 | REG 024 | 11 | 9.075 | 11 | 8.560 |
| CSO 009 | REG 009 | 24 | 1.183 | 22 | 1.082 |
| CSO 016 | REG 016 | 30 | 11.446 | 26 | 10.049 |
| CSO 015 | REG 015 | 25 | 3.256 | 23 | 2.973 |
| CSO 011 | REGS 010A, 011, 026 | 11 | 5.167 | 10 | 4.803 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.005 | 1 | 0.004 |
| CSO 025 | REGS 025, 034 | 14 | 1.399 | 11 | 1.079 |
| CSO 021 | REG 021 | 18 | 13.064 | 16 | 11.940 |
| CSO 020 | REG 020 | 3 | 0.104 | 3 | 0.094 |
| TOTAL | | 219 | 62.383 | 193 | 56.602 |

(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 #:

February YEAR: 2016

MONTH: 24

Average Low Temp: 42

Average High Temp: 4.98

Measured Rainfall: 14.20

| EVENT No. | RAINFALL EVENT | | | | CSO EVENT | | | | TOTAL MONTH FLOW VOLUME = | | | |
|-----------|-----------------------|-------|-------|------------------|-----------|-----------|-----------|-------|---------------------------|------|------------------|--------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | | STOP | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 17:10 | 20:35 | 3.42 | 0.003 | 0.118 |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | 2/16/2016 | 15:10 | 16:55 | 1.75 | 0.002 | 0.035 |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | 2/24/2016 | 13:30 | 16:25 | 2.92 | 0.002 | 0.078 |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | 2/25/2016 | 1:10 | 2:40 | 1.50 | 0.003 | 0.055 |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | |

Note: Overflow occurs when Interceptor level reaches 46"

TOTAL MONTH FLOW VOLUME = 0.286

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: 2016

Average Low Temp: 24

Average High Temp: 42

Measured Rainfall: 4.98

Measured Snowfall: 14.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-----------|-------|------------------|--------------------|-----------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 17:10 | 19:55 | 2.75 | 0.004 | 0.128 | |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | 2/16/2016 | 15:35 | 16:30 | 0.92 | 0.001 | 0.006 | |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | 2/24/2016 | 13:30 | 16:15 | 2.75 | 0.001 | 0.025 | |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | 2/25/2016 | 1:15 | 2:25 | 1.17 | 0.020 | 0.281 | |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.440

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yrds East of Ella T. Grasso Blvd.
 LOCATION: 005

NPDES Permit Outfall #:

February YEAR: 2016

MONTH: 24

Average Low Temp: 42

Average High Temp: 4.98

Measured Rainfall: 14.20

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-----------|------|------------------|--------------------|-----------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | | | | | | | |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | | | | | | | |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | | | | | | | |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | 2/25/2016 | 1:15 | 1:45 | 0.50 | 0.009 | 0.057 | |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.057

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 NPDES Permit Outfall #: 006
 MONTH: February YEAR: 2016
 Average Low Temp: 24
 Average High Temp: 42
 Measured Rainfall: 4.98
 Measured Snowfall: 14.20

| EVENT NO. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-----------|-------|------------------|--------------------|-----------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 17:25 | 19:45 | 2.33 | 2.582 | 0.251 | |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | 2/16/2016 | 16:05 | 16:45 | 0.67 | 0.216 | 0.006 | |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | 2/24/2016 | 13:40 | 16:20 | 2.67 | 1.428 | 0.159 | |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | 2/25/2016 | 1:20 | 1:50 | 0.50 | 6.624 | 0.138 | |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.554

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Grand Avenue & James Street
 009

NPDES Permit Outfall #: February YEAR: 2016
 MONTH: 24
 Average Low Temp: 42
 Average High Temp: 4.98
 Measured Rainfall: 14.20
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | OUTFALL Q.volum (MG) |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-----------|-------|------------------|--------------------|----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 17:20 | 19:40 | 2.33 | 0.001 | 0.015 |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | | | | | | |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | 2/24/2016 | 13:10 | 15:50 | 2.67 | 0.000 | 0.005 |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | 2/25/2016 | 1:05 | 1:40 | 0.58 | 0.001 | 0.007 |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.027

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

011

LOCATION:

NPDES Permit Outfall #:

February YEAR: 2016

MONTH:

24

Average Low Temp:

42

Average High Temp:

4.98

Measured Rainfall:

14.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Q volume (MG) |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 17:30 | 19:05 | 1.58 | 0.500 | 0.033 |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | 2/16/2016 | 14:10 | 16:40 | 2.50 | 1.493 | 0.005 |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | 2/24/2016 | 15:30 | 16:15 | 0.75 | 3.614 | 0.013 |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | 2/25/2016 | 1:05 | 2:50 | 1.75 | 2.537 | 0.185 |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.236

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

February YEAR: 2016

MONTH: 24

Average Low Temp: 42

Average High Temp: 4.98

Measured Rainfall: 14.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|--------------------|-----------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | | | | | | | |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | | | | | | | |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | | | | | | | |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | | | | | | | |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
 LOCATION: 015

NPDES Permit Outfall #:

MONTH: February YEAR: 2016

Average Low Temp: 24

Average High Temp: 42

Measured Rainfall: 4.98

Measured Snowfall: 14.20

| EVENT NO. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|-------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | | | |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 17:10 | 19:45 | 2.58 | 0.006 | 0.176 | |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | 2/16/2016 | 15:00 | 16:25 | 1.42 | 0.010 | 0.173 | |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | 2/24/2016 | 13:10 | 16:05 | 2.92 | 0.008 | 0.284 | |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | 2/25/2016 | 1:05 | 2:20 | 1.25 | 0.008 | 0.114 | |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | | |

Expected capacity of siphon is between 24 and 30 MGD.

TOTAL MONTH FLOW VOLUME =

0.747

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Int. River & Poplar 016
 NPDES Permit Outfall #: 2016
 MONTH: February YEAR: 2016
 Average Low Temp: 24
 Average High Temp: 42
 Measured Rainfall: 4.98
 Measured Snowfall: 14.20

| EVENT No. | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|-------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 17:15 | 19:05 | 1.83 | 0.076 | 0.835 |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | 2/16/2016 | 10:55 | 15:20 | 4.42 | 0.007 | 0.375 |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | 2/24/2016 | 13:20 | 16:40 | 3.33 | 0.022 | 0.432 |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | 2/25/2016 | 0:55 | 2:40 | 1.75 | 0.055 | 0.577 |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 2.219

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Clifton and Quinnpiac
 020
 NPDES Permit Outfall #: 2016
 MONTH: February YEAR: 2016
 Average Low Temp: 24
 Average High Temp: 42
 Measured Rainfall: 4.98
 Measured Snowfall: 14.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|--------------------|-----------------------|----------------|-------|------------------|-------|-----------|----------|-----------|-------|------------------|----------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 18:25 | 18:55 | 0.50 | 0.000 | 0.002 |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | | | | | | |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | | | | | | |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | | | | | | |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.002 |

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

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 638 Long Wharf Drive
 021
 NPDES Permit Outfall #: February YEAR: 2016
 MONTH: 24
 Average Low Temp: 42
 Average High Temp: 49
 Measured Rainfall: 4.98
 Measured Snowfall: 14.20

| EVENT No. | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | | |
|-----------|-----------------------|-------|-------|------------------|-----------|-----------|-----------|-------|-----------------------|------|------------------|--------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | | STOP | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 17:35 | 20:30 | 2.92 | 0.040 | 1.396 |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | | | | | | |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | 2/24/2016 | 14:30 | 16:50 | 2.33 | 0.012 | 0.337 |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | 2/25/2016 | 1:30 | 3:10 | 1.67 | 0.023 | 0.461 |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 2.194

FLOW MONITORING REPORT SUMMARY TABLE

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

NPDES Permit Outfall #: 2016
 MONTH: February YEAR: 2016
 Average Low Temp: 24
 Average High Temp: 42
 Measured Rainfall: 4.98
 Measured Snowfall: 14.20

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 15:40 | 21:40 | 6.00 | 0.004 | 0.301 |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | 2/16/2016 | 15:25 | 16:15 | 0.83 | 0.005 | 0.049 |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | 2/24/2016 | 14:15 | 16:00 | 1.75 | 0.002 | 0.046 |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | 2/25/2016 | 1:20 | 3:40 | 2.33 | 0.023 | 0.635 |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 1.031

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 NPDES Permit Outfall #: February YEAR: 2016
 MONTH: 24
 Average Low Temp: 42
 Average High Temp: 4.98
 Measured Rainfall: 14.20
 Measured Snowfall:

| EVENT NO. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | | | | | | |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | | | | | | |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | | | | | | |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | | | | | | |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG George and Temple

LOCATION: Regulator 34

NPDES Permit Outfall #:

February YEAR: 2016

MONTH: 24

Average Low Temp: 42

Average High Temp: 4.98

Measured Rainfall: 14.20

| EVENT No. | RAINFALL EVENT | | | | CSO EVENT | | | | | | | |
|-----------|-----------------------|-------|-------|------------------|-----------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 2/3/2016 | 12:45 | 21:10 | 8.42 | 1.49 | 6 month | 2/3/2016 | 17:15 | 17:40 | 0.42 | 0.000 | 0.009 |
| 2 | 2/4/2016 | 5:45 | 7:25 | 1.67 | 0.03 | *** | | | | | | |
| 3 | 2/5/2016 | 3:15 | 4:55 | 1.67 | 0.05 | *** | | | | | | |
| 4 | 2/6/2016 | 8:10 | 17:15 | 9.08 | 0.46 | *** | | | | | | |
| 5 | 2/7/2016 | 9:15 | 9:30 | 0.25 | 0.02 | *** | | | | | | |
| 6 | 2/9/2016 | 10:40 | 13:50 | 3.17 | 0.10 | *** | | | | | | |
| 7 | 2/10/2016 | 10:35 | 11:30 | 0.92 | 0.04 | *** | | | | | | |
| 8 | 2/16/2016 | 7:25 | 15:35 | 8.17 | 0.70 | *** | | | | | | |
| 9 | 2/18/2016 | 3:30 | 3:35 | 0.08 | 0.01 | *** | | | | | | |
| 10 | 2/21/2016 | 19:55 | 20:55 | 1.00 | 0.03 | *** | | | | | | |
| 11 | 2/23/2016 - 2/24/2016 | 14:10 | 23:25 | 33.25 | 1.26 | 1 month | 2/24/2016 | 15:30 | 15:45 | 0.25 | 0.005 | 0.014 |
| 12 | 2/25/2016 | 0:10 | 1:20 | 1.17 | 0.71 | 6 month | | | | | | |
| 13 | 2/29/2016 | 12:00 | 13:15 | 1.25 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.023

METER DATA

JANUARY 2016

**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - JANUARY 2016**

MONTHLY RAINFALL SUMMARY

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

12.1 inches of snow

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

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

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|-------------------|--------------------------|-------------------|------------------------|
| CSO 006 | REGS 006 A, 006 B | 1 | 0.346 |
| CSO 005 | REG 005 | 1 | 0.049 |
| CSO 004 | REG 004 | 1 | 0.342 |
| CSO 003 | REG 003 | 1 | 0.168 |
| CSO 024 | REG 024 | 1 | 0.507 |
| CSO 009 | REG 009 | 1 | 0.040 |
| CSO 016 | REG 016 | 1 | 0.152 |
| CSO 015 | REG 015 | 1 | 0.148 |
| CSO 011 | REGS 010A, 011, 026 | 1 | 0.522 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 1 | 0.221 |
| CSO 021 | REG 021 | 1 | 4.929 |
| CSO 020 | REG 020 | 1 | 0.002 |
| TOTAL | | 12 | 7.426 |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
 CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH JANUARY 2016

| CSO NUMBER | REGULATOR NUMBERS | CSO EVENTS | CSO VOLUME (MG) | RAINFALL (IN) | METER MONTHS |
|--------------|----------------------|------------|-----------------|---------------|--------------|
| CSO 006 | REGS 006 A, 006 B | 52 | 13,400 | 144.49 | 45 |
| CSO 005 | REG 005 | 8 | 0.385 | 45.67 | 18 |
| CSO 004 | REG 004 | 31 | 3,980 | 45.91 | 18 |
| CSO 003 | REG 003 | 113 | 35,192 | 141.58 | 44 |
| CSO 024 | REG 024 | 33 | 28,928 | 131.26 | 41 |
| CSO 009 | REG 009 | 73 | 3,673 | 124.14 | 40 |
| CSO 016 | REG 016 | 92 | 34,328 | 126.79 | 43 |
| CSO 015 | REG 015 | 75 | 9,453 | 124.29 | 40 |
| CSO 011 | REGS 010A, 011, 026 | 30 | 15,382 | 119.77 | 38 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 | 42.18 | 16 |
| CSO 025 | REGS 025, 034 | 15 | 1,699 | 45.82 | 18 |
| CSO 021 | REG 021 | 51 | 37,608 | 120.75 | 39 |
| CSO 020 | REG 020 | 8 | 0.272 | 104.20 | 34 |
| TOTAL | | 582 | 184,306 | | |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>ANNUAL CSO EVENTS BASED ON RAINFALL⁽¹⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON RAINFALL⁽²⁾</u> | <u>ANNUAL CSO EVENTS BASED ON MONTHS⁽³⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON MONTHS⁽⁴⁾</u> |
|-------------------|--------------------------|--|---|--|---|
| CSO 006 | REGS 006 A, 006 B | 15 | 3.827 | 14 | 3.573 |
| CSO 005 | REG 005 | 7 | 0.348 | 5 | 0.257 |
| CSO 004 | REG 004 | 28 | 3.578 | 20 | 2.618 |
| CSO 003 | REG 003 | 33 | 10.259 | 31 | 9.573 |
| CSO 024 | REG 024 | 10 | 9.095 | 10 | 8.467 |
| CSO 009 | REG 009 | 24 | 1.221 | 22 | 1.101 |
| CSO 016 | REG 016 | 30 | 11.174 | 26 | 9.660 |
| CSO 015 | REG 015 | 25 | 3.139 | 22 | 2.824 |
| CSO 011 | REGS 010A, 011, 026 | 10 | 5.300 | 9 | 4.854 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 | 1 | 0.005 |
| CSO 025 | REGS 025, 034 | 14 | 1.530 | 10 | 1.123 |
| CSO 021 | REG 021 | 17 | 12.853 | 16 | 11.571 |
| CSO 020 | REG 020 | 3 | 0.108 | 3 | 0.096 |
| TOTAL | | 215 | 62.330 | 186 | 55.626 |

(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
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003

NPDES Permit Outfall #:
 MONTH: January YEAR: 2016
 Average Low Temp: 23
 Average High Temp: 40
 Measured Rainfall: 1.68
 Measured Snowfall: 12.10

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
|-------------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|--------------------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | | DURATION (hours) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 7:30 | 12:55 | 5.42 | 0.003 | 0.168 |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.168 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yds North of Legion Ave.
 004
 NPDES Permit Outfall #: January YEAR: 2016
 MONTH: 23
 Average Low Temp: 40
 Average High Temp: 1.68
 Measured Rainfall: 12.10
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q. volume (MG) | | |
|--------------------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------------|----------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 7:30 | 12:00 | 4.50 | 0.006 | 0.342 |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | |

0.342

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.
 LOCATION: 005

NPDES Permit Outfall #:

MONTH: January YEAR: 2016

Average Low Temp: 23

Average High Temp: 40

Measured Rainfall: 1.68

Measured Snowfall: 12.10

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 10:40 | 11:05 | 0.42 | 0.010 | 0.049 |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.049

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Whalley Ave. 30 yds from Fitch Street
 LOCATION: 006
 NPDES Permit Outfall #: January YEAR: 2016
 MONTH: 23
 Average Low Temp: 40
 Average High Temp: 1.68
 Measured Rainfall: 12.10
 Measured Snowfall:

| EVENT No. | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | | |
|-----------|----------------|-------|-------|------------------|-----------|-----------|-----------|-------|-----------------------|------|------------------|--------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | | STOP | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 9:50 | 11:15 | 1.42 | 5.862 | 0.346 |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.346

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Grand Avenue & James Street
 009

NPDES Permit Outfall #:
 MONTH: January YEAR: 2016
 Average Low Temp: 23
 Average High Temp: 40
 Measured Rainfall: 1.68
 Measured Snowfall: 12.10

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 8:50 | 12:00 | 3.17 | 0.001 | 0.040 |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.040

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011
 NPDES Permit Outfall #: 2016
 MONTH: January YEAR: 2016
 Average Low Temp: 23
 Average High Temp: 40
 Measured Rainfall: 1.68
 Measured Snowfall: 12.10

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 9:50 | 11:45 | 1.92 | 0.023 | 0.522 |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.522

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 75 Mitchell Drive
 012
 NPDES Permit Outfall #: 2016
 MONTH: January YEAR: 2016
 Average Low Temp: 23
 Average High Temp: 40
 Measured Rainfall: 1.68
 Measured Snowfall: 12.10

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | | | | | |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 15 James Street
 015

LOCATION:

NPDES Permit Outfall #:

MONTH:

Average Low Temp:

Average High Temp:

Measured Rainfall:

Measured Snowfall:

January YEAR: 2016
 23
 40
 1.68
 12.10

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|---------------------------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 8:25 | 12:15 | 3.83 | 0.003 | 0.148 |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | |
| TOTAL MONTH FLOW VOLUME = | | | | | | | | | | | 0.148 | |

Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quininiac

LOCATION: 020

NPDES Permit Outfall #:

January YEAR: 2016

MONTH: 23

Average Low Temp:

40

Average High Temp:

1.68

Measured Rainfall:

12.10

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|--------------------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|-----------------------|----------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 10:30 | 10:55 | 0.42 | 0.000 | 0.002 |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.002 |

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 #: January YEAR: 2016
 MONTH: 23
 Average Low Temp: 40
 Average High Temp: 1.68
 Measured Rainfall: 12.10
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-----------|-------|------------------|--------------------|-----------------------|-------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 9:30 | 12:40 | 3.17 | 0.130 | 4.929 | |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | | |
| | | | | | | | | | | | TOTAL MONTH | FLOW VOLUME = | 4.929 |

FLOW MONITORING REPORT SUMMARY TABLE

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

NPDES Permit Outfall #:
 MONTH: January YEAR: 2016
 Average Low Temp: 23
 Average High Temp: 40
 Measured Rainfall: 1.68
 Measured Snowfall: 12.10

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 7:40 | 14:40 | 7.00 | 0.006 | 0.507 |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.507

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 NPDES Permit Outfall #: 2016
 MONTH: January YEAR: 2016
 Average Low Temp: 23
 Average High Temp: 40
 Measured Rainfall: 1.68
 Measured Snowfall: 12.10

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | OUTFALL Q Qavg (MGD) | OUTFALL Q volume (MG) | |
|-------------|-----------|----------------|-------|---------------------|-------|-----------|------|-----------|------|---------------------|--|----------------------------|-----------------------------|-------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | | | | |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | | | | | | | | |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | **** | | | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | **** | | | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | **** | | | | | | | | |
| TOTAL MONTH | | | | | | | | | | | | FLOW VOLUME = | | 0.000 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: George and Temple
 Regulator 34

NPDES Permit Outfall #: January YEAR: 2016

MONTH: 23

Average Low Temp: 40

Average High Temp: 1.68

Measured Rainfall: 12.10

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 1/10/2016 | 5:30 | 13:10 | 7.67 | 1.32 | 3 month | 1/10/2016 | 9:50 | 11:05 | 1.25 | 0.015 | 0.221 |
| 2 | 1/12/2016 | 16:20 | 17:00 | 0.67 | 0.03 | *** | | | | | | |
| 3 | 1/16/2016 | 2:30 | 10:40 | 8.17 | 0.26 | *** | | | | | | |
| 4 | 1/24/2016 | 9:20 | 10:45 | 1.42 | 0.07 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.221

METER DATA

DECEMBER 2015

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - DECEMBER 2015

MONTHLY RAINFALL SUMMARY

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

0.5 inches of snow

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

Three 1 month storms, all other storms less than 1 month return frequency

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|-------------------|--------------------------|-------------------|------------------------|
| CSO 006 | REGS 006 A, 006 B | 1 | 0.371 |
| CSO 005 | REG 005 | 1 | 0.019 |
| CSO 004 | REG 004 | 3 | 0.297 |
| CSO 003 | REG 003 | 3 | 0.142 |
| CSO 024 | REG 024 | 2 | 0.512 |
| CSO 009 | REG 009 | 3 | 0.007 |
| CSO 016 | REG 016 | 3 | 0.980 |
| CSO 015 | REG 015 | 3 | 0.191 |
| CSO 011 | REGS 010A, 011, 026 | 1 | 0.229 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 1 | 0.045 |
| CSO 021 | REG 021 | 3 | 0.913 |
| CSO 020 | REG 020 | 0 | 0.000 |
| TOTAL | | 24 | 3.706 |

**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM**

METER DATA SUMMARY - THROUGH DECEMBER 2015

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 51 | 13.054 | 142.81 | 44 |
| CSO 005 | REG 005 | 7 | 0.336 | 43.99 | 17 |
| CSO 004 | REG 004 | 30 | 3.638 | 44.23 | 17 |
| CSO 003 | REG 003 | 112 | 35.024 | 139.90 | 43 |
| CSO 024 | REG 024 | 32 | 28.421 | 129.58 | 40 |
| CSO 009 | REG 009 | 72 | 3.633 | 122.46 | 39 |
| CSO 016 | REG 016 | 91 | 34.176 | 125.11 | 42 |
| CSO 015 | REG 015 | 74 | 9.305 | 122.61 | 39 |
| CSO 011 | REGS 010A, 011, 026 | 29 | 14.860 | 118.09 | 37 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 | 40.50 | 15 |
| CSO 025 | REGS 025, 034 | 14 | 1.478 | 44.14 | 17 |
| CSO 021 | REG 021 | 50 | 32.679 | 119.07 | 38 |
| CSO 020 | REG 020 | 7 | 0.270 | 102.52 | 33 |
| TOTAL | | 570 | 176.880 | | |

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 | 3.772 | 14 | 3.560 |
| CSO 005 | REG 005 | 7 | 0.315 | 5 | 0.237 |
| CSO 004 | REG 004 | 28 | 3.394 | 21 | 2.532 |
| CSO 003 | REG 003 | 33 | 10.332 | 31 | 9.748 |
| CSO 024 | REG 024 | 10 | 9.052 | 10 | 8.526 |
| CSO 009 | REG 009 | 24 | 1.224 | 22 | 1.117 |
| CSO 016 | REG 016 | 30 | 11.273 | 26 | 9.849 |
| CSO 015 | REG 015 | 25 | 3.132 | 23 | 2.851 |
| CSO 011 | REGS 010A, 011, 026 | 10 | 5.193 | 9 | 4.816 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 | 1 | 0.005 |
| CSO 025 | REGS 025, 034 | 13 | 1.382 | 10 | 1.034 |
| CSO 021 | REG 021 | 17 | 11.326 | 16 | 10.319 |
| CSO 020 | REG 020 | 3 | 0.109 | 3 | 0.098 |
| TOTAL | | 213 | 60.403 | 187 | 54.594 |

(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 #: 2015
 MONTH: December YEAR: 2015
 Average Low Temp: 38
 Average High Temp: 52
 Measured Rainfall: 4.73
 Measured Snowfall: 0.50

| EVENT No. | RAINFALL EVENT | | | | | CSO EVENT | | | | | | |
|--------------------|-------------------------|-------|-------|------------------|-------|-----------|-------------------------|-------|-------|------------------|----------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | 12/14/2015 | 21:10 | 23:05 | 1.92 | 0.176 | 0.014 |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | 12/17/2015 | 17:40 | 19:05 | 1.42 | 0.381 | 0.022 |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | 12/23/2015 - 12/24/2015 | 17:50 | 0:40 | 6.83 | 0.373 | 0.106 |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.142 |

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 004

NPDES Permit Outfall #:

December

YEAR: 2015

38

MONTH:

Average Low Temp:

52

Average High Temp:

4.73

Measured Rainfall:

0.50

| EVENT No. | RAINFALL EVENT | | | | | CSO EVENT | | | | | | |
|-----------|-------------------------|-------|-------|------------------|-------|-----------|-------------------------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | 12/14/2015 | 21:15 | 23:00 | 1.75 | 0.103 | 0.007 |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | 12/17/2015 | 17:40 | 19:05 | 1.42 | 0.415 | 0.024 |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | 12/23/2015 - 12/24/2015 | 17:50 | 0:20 | 6.50 | 0.981 | 0.266 |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.297

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 005

NPDES Permit Outfall #:

December YEAR: 2015

MONTH: 38

Average Low Temp:

52

Average High Temp:

4.73

Measured Rainfall:

0.50

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|------------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | | | | | | |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | | | | | | |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | 12/23/2015 | 18:25 | 19:15 | 0.83 | 0.540 | 0.019 |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.019

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #: 2015
 MONTH: December YEAR: 2015
 Average Low Temp: 38
 Average High Temp: 52
 Measured Rainfall: 4.73
 Measured Snowfall: 0.50

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|------------|-----------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | | | | | | |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | | | | | | |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | 12/23/2015 | 18:05 | 23:50 | 5.75 | 1.549 | 0.371 |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.371

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #: December YEAR: 2015

MONTH: 38

Average Low Temp: 52

Average High Temp: 4.73

Measured Rainfall: 0.50

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|------------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | 12/14/2015 | 20:45 | 21:25 | 0.67 | 0.106 | 0.003 |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | 12/17/2015 | 17:20 | 18:40 | 1.33 | 0.004 | 0.000 |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | 12/23/2015 | 17:35 | 23:35 | 6.00 | 0.063 | 0.004 |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.007

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

011

LOCATION:

NPDES Permit Outfall #:

2015

December YEAR:

38

MONTH:

Average Low Temp:

52

Average High Temp:

4.73

Measured Rainfall:

0.50

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|------------|-----------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | | | | | | |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | | | | | | |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | 12/23/2015 | 18:15 | 19:35 | 1.33 | 4.113 | 0.229 |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME =

0.229

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 75 Mitchell Drive
 012

NPDES Permit Outfall #: December YEAR: 2015

MONTH: 38

Average Low Temp: 52

Average High Temp: 4.73

Measured Rainfall: 0.50

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|--------------------|-----------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | | | | | | | |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | | | | | | | |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | | | | | | | |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015

NPDES Permit Outfall #: December YEAR: 2015

MONTH: 38
 Average Low Temp: 52
 Average High Temp: 4.73
 Measured Rainfall: 0.50
 Measured Snowfall:

| EVENT No. | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|-------|-------|------------------|-------|-----------|-------------------------|-------|-------|------------------|---------------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | 12/14/2015 | 20:50 | 23:10 | 2.33 | 0.600 | 0.058 |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | 12/17/2015 | 17:20 | 18:50 | 1.50 | 1.379 | 0.086 |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | 12/23/2015 - 12/24/2015 | 17:45 | 0:10 | 6.42 | 0.174 | 0.047 |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |
| | | | | | | | | | | | TOTAL MONTH FLOW VOLUME = | 0.191 |

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 #: December YEAR: 2015

MONTH: 38

Average Low Temp: 52

Average High Temp: 4.73

Measured Rainfall: 0.50

| EVENT No. | RAINFALL EVENT | | | | | CSO EVENT | | | | | | |
|-----------|-------------------------|-------|-------|------------------|-------|-----------|-------------------------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | 12/14/2015 | 20:40 | 23:05 | 2.42 | 2.671 | 0.269 |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | 12/17/2015 | 17:50 | 20:05 | 2.25 | 2.571 | 0.241 |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | 12/23/2015 - 12/24/2015 | 17:35 | 1:15 | 7.67 | 1.471 | 0.470 |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.980

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quinnpiac

LOCATION: 020

NPDES Permit Outfall #:

December YEAR: 2015

MONTH: 38

Average Low Temp:

52

Average High Temp:

4.73

Measured Rainfall:

0.50

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | | | | | | |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | | | | | | |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | | | | | | |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |

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

TOTAL MONTH FLOW VOLUME =

0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 638 Long Wharf Drive
 NPDES Permit Outfall #: 021
 MONTH: December YEAR: 2015
 Average Low Temp: 38
 Average High Temp: 52
 Measured Rainfall: 4.73
 Measured Snowfall: 0.50

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Q volume (MG) |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-----------|------|------------------|--------------------|--|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | | |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | | | | | | 0.103 |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | | | | | | 0.410 |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | | | | | | 0.400 |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.913

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 NPDES Permit Outfall #: December YEAR: 2015
 MONTH: 38
 Average Low Temp: 52
 Average High Temp: 4.73
 Measured Rainfall: 0.50
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Qavg volume (MG) |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|--------------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | | | | | | |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | | | | | | |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | | | | | | |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG George and Temple
 Regulator 34

LOCATION: NPDES Permit Outfall #:

MONTH: December YEAR: 2015

Average Low Temp: 38

Average High Temp: 52

Measured Rainfall: 4.73

Measured Snowfall: 0.50

| EVENT No. | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|-------|-------|------------------|-------|-----------|------------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 12/1/2015 | 15:55 | 23:00 | 7.08 | 0.29 | *** | | | | | | |
| 2 | 12/2/2015 | 6:20 | 21:40 | 15.33 | 0.14 | *** | | | | | | |
| 3 | 12/10/2015 | 3:10 | 3:15 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 12/14/2015 - 12/15/2015 | 19:30 | 4:10 | 8.67 | 0.61 | 1 month | | | | | | |
| 5 | 12/17/2015 | 4:40 | 20:00 | 15.33 | 0.90 | 1 month | | | | | | |
| 6 | 12/18/2015 | 11:45 | 12:40 | 0.92 | 0.02 | *** | | | | | | |
| 7 | 12/22/2015 | 9:55 | 22:25 | 12.50 | 0.42 | *** | | | | | | |
| 8 | 12/23/2015 - 12/24/2015 | 15:20 | 7:30 | 16.17 | 1.34 | 1 month | 12/23/2015 | 17:55 | 19:00 | 1.08 | 0.988 | 0.045 |
| 9 | 12/27/2015 | 0:45 | 6:50 | 6.08 | 0.20 | *** | | | | | | |
| 10 | 12/29/2015 | 7:10 | 12:50 | 5.67 | 0.54 | *** | | | | | | |
| 11 | 12/30/2015 - 12/31/2015 | 22:45 | 2:30 | 3.75 | 0.25 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.045

METER DATA

NOVEMBER 2015

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

MONTHLY RAINFALL SUMMARY

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

No snow

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

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

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|-------------------|--------------------------|-------------------|------------------------|
| CSO 006 | REGS 006 A, 006 B | 1 | 0.189 |
| CSO 005 | REG 005 | 0 | 0.000 |
| CSO 004 | REG 004 | 1 | 0.226 |
| CSO 003 | REG 003 | 1 | 0.197 |
| CSO 024 | REG 024 | 0 | 0.000 |
| CSO 009 | REG 009 | 1 | 0.006 |
| CSO 016 | REG 016 | 1 | 0.180 |
| CSO 015 | REG 015 | 1 | 0.067 |
| CSO 011 | REGS 010A, 011, 026 | 0 | 0.000 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 1 | 0.060 |
| CSO 021 | REG 021 | 1 | 0.893 |
| CSO 020 | REG 020 | 0 | 0.000 |
| TOTAL | | 8 | 1.818 |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH NOVEMBER 2015

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 50 | 12.683 | 138.08 | 43 |
| CSO 005 | REG 005 | 6 | 0.317 | 39.26 | 16 |
| CSO 004 | REG 004 | 27 | 3.341 | 39.50 | 16 |
| CSO 003 | REG 003 | 109 | 34.882 | 135.17 | 42 |
| CSO 024 | REG 024 | 30 | 27.909 | 124.85 | 39 |
| CSO 009 | REG 009 | 69 | 3.626 | 117.73 | 38 |
| CSO 016 | REG 016 | 88 | 33.196 | 120.38 | 41 |
| CSO 015 | REG 015 | 71 | 9.114 | 117.88 | 38 |
| CSO 011 | REGS 010A, 011, 026 | 28 | 14.631 | 113.36 | 36 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 | 35.77 | 14 |
| CSO 025 | REGS 025, 034 | 13 | 1.433 | 39.41 | 16 |
| CSO 021 | REG 021 | 47 | 31.766 | 114.34 | 37 |
| CSO 020 | REG 020 | 7 | 0.270 | 97.79 | 32 |
| TOTAL | | 546 | 173.174 | | |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>ANNUAL CSO EVENTS BASED ON RAINFALL⁽¹⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON RAINFALL⁽²⁾</u> | <u>ANNUAL CSO EVENTS BASED ON MONTHS⁽³⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON MONTHS⁽⁴⁾</u> |
|-------------------|--------------------------|--|---|--|---|
| CSO 006 | REGS 006 A, 006 B | 15 | 3.791 | 14 | 3.539 |
| CSO 005 | REG 005 | 6 | 0.333 | 5 | 0.238 |
| CSO 004 | REG 004 | 28 | 3.490 | 20 | 2.468 |
| CSO 003 | REG 003 | 33 | 10.650 | 31 | 9.939 |
| CSO 024 | REG 024 | 10 | 9.226 | 9 | 8.587 |
| CSO 009 | REG 009 | 24 | 1.271 | 22 | 1.145 |
| CSO 016 | REG 016 | 30 | 11.380 | 26 | 9.801 |
| CSO 015 | REG 015 | 25 | 3.191 | 22 | 2.865 |
| CSO 011 | REGS 010A, 011, 026 | 10 | 5.326 | 9 | 4.874 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.007 | 1 | 0.005 |
| CSO 025 | REGS 025, 034 | 14 | 1.501 | 10 | 1.065 |
| CSO 021 | REG 021 | 17 | 11.465 | 15 | 10.302 |
| CSO 020 | REG 020 | 3 | 0.114 | 3 | 0.101 |
| TOTAL | | 214 | 61.632 | 184 | 54.828 |

(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
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 NPDES Permit Outfall #: 003
 MONTH: November YEAR: 2015
 Average Low Temp: 38
 Average High Temp: 56
 Measured Rainfall: 1.55
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|--------------------|-------------------------|----------------|-------|------------------|-------|-----------|-------------------------|-------|------|------------------|----------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0:08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21:08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15:17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8:75 | 0.92 | 1 month | 11/19/2015 - 11/20/2015 | 20:40 | 1:50 | 5.17 | 0.913 | 0.197 |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2:92 | 0.02 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.197 |

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 004

NPDES Permit Outfall #:

MONTH: November YEAR: 2015

Average Low Temp: 38

Average High Temp: 56

Measured Rainfall: 1.55

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-------------------------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0.08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21.08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15.17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8.75 | 0.92 | 1 month | 11/19/2015 - 11/20/2015 | 20:40 | 1:45 | 5.08 | 1.069 | 0.226 |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2.92 | 0.02 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.226

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: 2015

Average Low Temp: 38

Average High Temp: 56

Measured Rainfall: 1.55

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Q volume (MG) |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0.08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21.08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15.17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8.75 | 0.92 | 1 month | | | | | | |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2.92 | 0.02 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 NPDES Permit Outfall #: 006
 MONTH: November YEAR: 2015
 Average Low Temp: 38
 Average High Temp: 56
 Measured Rainfall: 1.55
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-------------------------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0.08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21.08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15.17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8.75 | 0.92 | 1 month | 11/19/2015 - 11/20/2015 | 20:55 | 1:20 | 4.42 | 1.027 | 0.189 |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2.92 | 0.02 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.189

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Grand Avenue & James Street
 009

MONTH: November YEAR: 2015

Average Low Temp: 38

Average High Temp: 56

Measured Rainfall: 1.55

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-------------------------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0:08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21:08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15:17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8:75 | 0.92 | 1 month | 11/19/2015 - 11/20/2015 | 20:30 | 1:05 | 4.58 | 0.030 | 0.006 |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2:92 | 0.02 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.006

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

November YEAR: 2015

MONTH: 38

Average Low Temp: 56

Average High Temp: 1.55

Measured Rainfall: 0.00

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|---------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0.08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/ | 12:15 | 9:20 | 21.08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/ | 21:55 | 13:05 | 15.17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/ | 18:45 | 3:30 | 8.75 | 0.92 | 1 month | | | | | | |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2.92 | 0.02 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive
 LOCATION: 012

NPDES Permit Outfall #:

MONTH: November YEAR: 2015

Average Low Temp: 38

Average High Temp: 56

Measured Rainfall: 1.55

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0.08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21.08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15.17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8.75 | 0.92 | 1 month | | | | | | |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2.92 | 0.02 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street
 015
 NPDES Permit Outfall #: 2015
 MONTH: November YEAR: 2015
 Average Low Temp: 38
 Average High Temp: 56
 Measured Rainfall: 1.55
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Q volume (MG) |
|-----------|---------------------|----------------|-------|------------------|-------|-----------|-------------------------|-------|------|------------------|---------------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0.08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/ | 12:15 | 9:20 | 21.08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/ | 21:55 | 13:05 | 15.17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/ | 18:45 | 3:30 | 8.75 | 0.92 | 1 month | 11/19/2015 - 11/20/2015 | 20:30 | 1:20 | 4.83 | 0.334 | 0.067 |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2.92 | 0.02 | *** | | | | | | |
| | | | | | | | | | | | TOTAL MONTH FLOW VOLUME = | 0.067 |

Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

Int. River & Poplar
016

LOCATION:

NPDES Permit Outfall #:

MONTH:

Average Low Temp:

Average High Temp:

Measured Rainfall:

Measured Snowfall:

November YEAR: 2015

38

56

1.55

0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-------------------------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0:08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21:08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15:17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8:75 | 0.92 | 1 month | 11/19/2015 - 11/20/2015 | 20:40 | 1:50 | 5.17 | 0.836 | 0.180 |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2:92 | 0.02 | *** | | | | | | |

TOTAL MONTH
FLOW VOLUME = 0.180

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Clifton and Quininiac
 020

NPDES Permit Outfall #:

MONTH: November YEAR: 2015

Average Low Temp: 38

Average High Temp: 56

Measured Rainfall: 1.55

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0.08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21.08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15.17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8.75 | 0.92 | 1 month | | | | | | |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2.92 | 0.02 | *** | | | | | | |

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 #: 2015
 MONTH: November YEAR: 2015
 Average Low Temp: 38
 Average High Temp: 56
 Measured Rainfall: 1.55
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-------------------------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0:08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21:08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15:17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8:75 | 0.92 | 1 month | 11/19/2015 - 11/20/2015 | 21:10 | 2:15 | 5:08 | 4.217 | 0.893 |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2:92 | 0.02 | *** | | | | | | |
| | | | | | | | | | | | TOTAL MONTH | 0.893 |
| | | | | | | | | | | | FLOW VOLUME = | |

FLOW MONITORING REPORT SUMMARY TABLE

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

NPDES Permit Outfall #:
 MONTH: November YEAR: 2015
 Average Low Temp: 38
 Average High Temp: 56
 Measured Rainfall: 1.55
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0.08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21.08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15.17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8.75 | 0.92 | 1 month | | | | | | |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2.92 | 0.02 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 MONTH: November YEAR: 2015
 NPDES Permit Outfall #: 38
 Average Low Temp: 56
 Average High Temp: 1.55
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT NO. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Q Qavg (MGD) | OUTFALL volume (MG) |
|-----------|-------------------------|----------------|-------|---------------------|-------|-----------|-----------|-------|------|---------------------|--|----------------------------|---------------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | | | |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0.08 | 0.01 | *** | | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21.08 | 0.50 | *** | | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15.17 | 0.09 | *** | | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8.75 | 0.92 | 1 month | | | | | | | |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2.92 | 0.02 | *** | | | | | | | |

TOTAL MONTH
 FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 George and Temple
 Regulator 34

NPDES Permit Outfall #:

MONTH: November YEAR: 2015

Average Low Temp: 38

Average High Temp: 56

Measured Rainfall: 1.55

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-------------------------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 11/5/2015 | 21:50 | 21:55 | 0:08 | 0.01 | *** | | | | | | |
| 2 | 11/10/2015 - 11/11/2015 | 12:15 | 9:20 | 21:08 | 0.50 | *** | | | | | | |
| 3 | 11/11/2015 - 11/12/2015 | 21:55 | 13:05 | 15:17 | 0.09 | *** | | | | | | |
| 4 | 11/19/2015 - 11/20/2015 | 18:45 | 3:30 | 8:75 | 0.92 | 1 month | 11/19/2015 - 11/20/2015 | 20:55 | 0:15 | 3.33 | 0.431 | 0.060 |
| 5 | 11/28/2015 | 14:00 | 16:55 | 2:92 | 0.02 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.060

METER DATA

OCTOBER 2015

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

MONTHLY RAINFALL SUMMARY

2.40 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 3 month storm, one 1 month storm, all other storms less than 1 month return frequency

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|-------------------|--------------------------|-------------------|------------------------|
| CSO 006 | REGS 006 A, 006 B | 1 | 0.004 |
| CSO 005 | REG 005 | 0 | 0.000 |
| CSO 004 | REG 004 | 2 | 0.071 |
| CSO 003 | REG 003 | 2 | 0.150 |
| CSO 024 | REG 024 | 0 | 0.000 |
| CSO 009 | REG 009 | 2 | 0.083 |
| CSO 016 | REG 016 | 2 | 0.466 |
| CSO 015 | REG 015 | 2 | 0.276 |
| CSO 011 | REGS 010A, 011, 026 | 1 | 0.059 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 2 | 0.100 |
| CSO 021 | REG 021 | 1 | 0.043 |
| CSO 020 | REG 020 | 0 | 0.000 |
| TOTAL | | 15 | 1.252 |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH OCTOBER 2015

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 49 | 12.494 | 136.53 | 41 |
| CSO 005 | REG 005 | 6 | 0.317 | 37.71 | 14 |
| CSO 004 | REG 004 | 26 | 3.115 | 37.95 | 14 |
| CSO 003 | REG 003 | 108 | 34.685 | 133.62 | 40 |
| CSO 024 | REG 024 | 30 | 27.909 | 123.30 | 37 |
| CSO 009 | REG 009 | 68 | 3.620 | 116.18 | 36 |
| CSO 016 | REG 016 | 87 | 33.016 | 118.83 | 39 |
| CSO 015 | REG 015 | 70 | 9.047 | 116.33 | 36 |
| CSO 011 | REGS 010A, 011, 026 | 28 | 14.631 | 111.81 | 34 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 | 34.22 | 12 |
| CSO 025 | REGS 025, 034 | 12 | 1.373 | 37.86 | 14 |
| CSO 021 | REG 021 | 46 | 30.873 | 112.79 | 35 |
| CSO 020 | REG 020 | 7 | 0.270 | 96.24 | 30 |
| TOTAL | | 538 | 171.356 | | |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>ANNUAL CSO EVENTS BASED ON RAINFALL⁽¹⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON RAINFALL⁽²⁾</u> | <u>ANNUAL CSO EVENTS BASED ON MONTHS⁽³⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON MONTHS⁽⁴⁾</u> |
|-------------------|--------------------------|--|---|--|---|
| CSO 006 | REGS 006 A, 006 B | 15 | 3.777 | 14 | 3.657 |
| CSO 005 | REG 005 | 7 | 0.347 | 5 | 0.272 |
| CSO 004 | REG 004 | 28 | 3.387 | 22 | 2.624 |
| CSO 003 | REG 003 | 33 | 10.713 | 32 | 10.375 |
| CSO 024 | REG 024 | 10 | 9.341 | 10 | 9.052 |
| CSO 009 | REG 009 | 24 | 1.286 | 23 | 1.206 |
| CSO 016 | REG 016 | 30 | 11.466 | 27 | 10.253 |
| CSO 015 | REG 015 | 25 | 3.210 | 23 | 3.001 |
| CSO 011 | REGS 010A, 011, 026 | 10 | 5.400 | 10 | 5.160 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.007 | 1 | 0.006 |
| CSO 025 | REGS 025, 034 | 13 | 1.497 | 10 | 1.164 |
| CSO 021 | REG 021 | 17 | 11.296 | 16 | 10.584 |
| CSO 020 | REG 020 | 3 | 0.116 | 3 | 0.108 |
| TOTAL | | 214 | 61.728 | 193 | 57.355 |

(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
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003
 NPDES Permit Outfall #: 43
 MONTH: October YEAR: 2015
 Average Low Temp: 63
 Average High Temp: 2.40
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|--------------------|-------------------------|----------------|-------|------------------|-------|-----------|-----------------------|-------|-------|-----------------------|----------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | 10/9/2015 | 18:10 | 18:30 | 0.33 | 1.119 | 0.031 |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | 10/28/2015 - 10/29/15 | 18:45 | 2:35 | 7.83 | 0.354 | 0.119 |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.150 |

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 004

NPDES Permit Outfall #:

MONTH: October YEAR: 2015

Average Low Temp: 43

Average High Temp: 63

Measured Rainfall: 2.40

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|-----------------------|-----------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | 10/9/2015 | 18:05 | 18:35 | 0.50 | 0.620 | 0.013 |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | 10/28/2015 - 10/29/15 | 18:35 | 2:20 | 7.75 | 0.180 | 0.058 |

TOTAL MONTH FLOW VOLUME = 0.071

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 005

NPDES Permit Outfall #:

MONTH: October YEAR: 2015

Average Low Temp: 43

Average High Temp: 63

Measured Rainfall: 2.40

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
|---------------|-------------------------|----------------|-------|------------------|-------|-----------|------|-------|------|--------------------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | | DURATION (hours) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | | | | | | |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | | | | | | |
| TOTAL MONTH | | | | | | | | | | | 0.000 | |
| FLOW VOLUME = | | | | | | | | | | | 0.000 | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 NPDES Permit Outfall #: 006
 MONTH: October YEAR: 2015
 Average Low Temp: 43
 Average High Temp: 63
 Measured Rainfall: 2.40
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|------------|-------|------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | | | | | | |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | 10/29/2015 | 1:40 | 1:50 | 0.17 | 0.576 | 0.004 |

TOTAL MONTH FLOW VOLUME = 0.004

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

October YEAR: 2015

MONTH: 43

Average Low Temp:

63

Average High Temp:

2.40

Measured Rainfall:

0.00

Measured Snowfall:

0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q. volume (MG) | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|---------------------|-------|-------|------------------------|------------------|--------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) | |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | 10/9/2015 | 18:00 | 18:20 | 0.33 | 0.025 | 0.000 | |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | 10/28/15 - 10/29/15 | 18:10 | 1:45 | 7.58 | 0.262 | 0.083 | |

TOTAL MONTH FLOW VOLUME = 0.083

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

MONTH: October YEAR: 2015

Average Low Temp: 43

Average High Temp: 63

Measured Rainfall: 2.40

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|-----------|---------------------|----------------|-------|------------------|-------|-----------|------------|-------|------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | |
| 2 | 10/2/2015 - 10/3/20 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | | | | | | |
| 4 | 10/28/2015 - 10/29/ | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | 10/29/2015 | 1:30 | 2:05 | 0.58 | 2.435 | 0.059 |

TOTAL MONTH FLOW VOLUME = 0.059

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 75 Mitchell Drive
 012

NPDES Permit Outfall #:

MONTH: October YEAR: 2015

43

Average Low Temp:

63

Average High Temp:

2.40

Measured Rainfall:

0.00

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|------|-------|------|---------------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | | | | | |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | | | | | |
| | | | | | | | | | | TOTAL MONTH FLOW VOLUME = | 0.000 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
 LOCATION: 015

NPDES Permit Outfall #:

MONTH: October YEAR: 2015

Average Low Temp: 43

Average High Temp: 63

Measured Rainfall: 2.40

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|-----------|---------------------|----------------|-------|------------------|-------|-----------|---------------------|-------|-------|-----------------------|---------------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | |
| 2 | 10/2/2015 - 10/3/20 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | 10/9/2015 | 18:10 | 18:25 | 0.25 | 3.387 | 0.035 |
| 4 | 10/28/2015 - 10/29/ | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | 10/28/15 - 10/29/15 | 18:15 | 2:40 | 8.42 | 0.284 | 0.241 |
| | | | | | | | | | | | TOTAL MONTH FLOW VOLUME = | 0.276 |

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: 2015

43

63

2.40

0.00

Average Low Temp:

Average High Temp:

Measured Rainfall:

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|---------------------|-----------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | 10/9/2015 | 18:05 | 18:35 | 0.50 | 10.738 | 0.224 |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | 10/28/15 - 10/29/15 | 18:30 | 1:40 | 7.17 | 0.810 | 0.242 |

TOTAL MONTH FLOW VOLUME = 0.466

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Clifton and Quinncipi
 020

NPDES Permit Outfall #:

October YEAR: 2015

43

MONTH:

63

Average Low Temp:

2.40

Measured Rainfall:

0.00

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
|--------------------|-------------------------|----------------|-------|------------------|-------|-----------|------|-------|------|--------------------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | | DURATION (hours) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | | | | | | |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | | | | | | |
| 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 #: October YEAR: 2015

MONTH: 43

Average Low Temp: 63

Average High Temp: 2.40

Measured Rainfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|------------|-----------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | | | | | | |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | 10/29/2015 | 1:50 | 2:40 | 0.83 | 1.228 | 0.043 |

TOTAL MONTH FLOW VOLUME = 0.043

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 NPDES Permit Outfall #: 43
 MONTH: October YEAR: 2015
 Average Low Temp: 63
 Average High Temp: 2.40
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|---------------------------|-------------------------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | | | | | |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | | | | | |
| TOTAL MONTH FLOW VOLUME = | | | | | | | | | | | 0.000 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 NPDES Permit Outfall #: 025
 MONTH: October YEAR: 2015
 Average Low Temp: 43
 Average High Temp: 63
 Measured Rainfall: 2.40
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|---------------|-------------------------|----------------|-------|---------------------|-------|-----------|------|-------|------|-----------------------------|---------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | | | | | |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | | | | | |
| TOTAL MONTH | | | | | | | | | | | 0.000 |
| FLOW VOLUME = | | | | | | | | | | | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: George and Temple Regulator 34
 NPDES Permit Outfall #: 43
 MONTH: October YEAR: 2015
 Average Low Temp: 63
 Average High Temp: 2.40
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------------|----------------|-------|------------------|-------|-----------|------------|-------|-------|------------------|---------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Q avg (MGD) | OUTFALL Q volume (MG) |
| 1 | 10/1/2015 | 18:50 | 21:20 | 2.50 | 0.02 | *** | | | | | | |
| 2 | 10/2/2015 - 10/3/2015 | 7:10 | 8:20 | 25.17 | 0.43 | *** | | | | | | |
| 3 | 10/9/2015 | 10:45 | 19:30 | 8.75 | 0.32 | 3 month | 10/9/2015 | 18:00 | 18:05 | 0.08 | 1.141 | 0.004 |
| 4 | 10/28/2015 - 10/29/2015 | 13:10 | 7:25 | 18.25 | 1.10 | 1 month | 10/29/2015 | 1:10 | 1:40 | 0.50 | 4.610 | 0.096 |

TOTAL MONTH FLOW VOLUME = 0.100

METER DATA

SEPTEMBER 2015

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - SEPTEMBER 2015

MONTHLY RAINFALL SUMMARY

3.03 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 3 month storm, all other storms less than 1 month return frequency

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|--------------------------|---------------------------------|--------------------------|-------------------------------|
| CSO 006 | REGS 006 A, 006 B | 1 | 0.105 |
| CSO 005 | REG 005 | 0 | 0.000 |
| CSO 004 | REG 004 | 1 | 0.243 |
| CSO 003 | REG 003 | 1 | 0.116 |
| CSO 024 | REG 024 | 0 | 0.000 |
| CSO 009 | REG 009 | 1 | 0.017 |
| CSO 016 | REG 016 | 2 | 0.642 |
| CSO 015 | REG 015 | 1 | 0.170 |
| CSO 011 | REGS 010A, 011, 026 | 1 | 0.024 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 1 | 0.152 |
| CSO 021 | REG 021 | 1 | 0.003 |
| CSO 020 | REG 020 | 0 | 0.000 |
| TOTAL | | 10 | 1.472 |

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

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 48 | 12,490 | 134.13 | 40 |
| CSO 005 | REG 005 | 6 | 0.317 | 35.31 | 13 |
| CSO 004 | REG 004 | 24 | 3.044 | 35.55 | 13 |
| CSO 003 | REG 003 | 106 | 34.535 | 131.22 | 39 |
| CSO 024 | REG 024 | 30 | 27.909 | 120.90 | 36 |
| CSO 009 | REG 009 | 66 | 3.537 | 113.78 | 35 |
| CSO 016 | REG 016 | 85 | 32.550 | 116.43 | 38 |
| CSO 015 | REG 015 | 68 | 8.771 | 113.93 | 35 |
| CSO 011 | REGS 010A, 011, 026 | 27 | 14.572 | 109.41 | 33 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 | 31.82 | 11 |
| CSO 025 | REGS 025, 034 | 10 | 1.273 | 35.46 | 13 |
| CSO 021 | REG 021 | 45 | 30.830 | 110.39 | 34 |
| CSO 020 | REG 020 | 7 | 0.270 | 93.84 | 29 |
| TOTAL | | 523 | 170.104 | | |

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 | 3.843 | 14 | 3.747 |
| CSO 005 | REG 005 | 7 | 0.371 | 6 | 0.293 |
| CSO 004 | REG 004 | 28 | 3.533 | 22 | 2.758 |
| CSO 003 | REG 003 | 33 | 10.862 | 33 | 10.595 |
| CSO 024 | REG 024 | 10 | 9.527 | 10 | 9.303 |
| CSO 009 | REG 009 | 24 | 1.283 | 23 | 1.212 |
| CSO 016 | REG 016 | 30 | 11.538 | 27 | 10.377 |
| CSO 015 | REG 015 | 25 | 3.177 | 23 | 2.993 |
| CSO 011 | REGS 010A, 011, 026 | 10 | 5.496 | 10 | 5.295 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.008 | 1 | 0.007 |
| CSO 025 | REGS 025, 034 | 12 | 1.481 | 9 | 1.161 |
| CSO 021 | REG 021 | 17 | 11.526 | 16 | 10.880 |
| CSO 020 | REG 020 | 3 | 0.119 | 3 | 0.112 |
| TOTAL | | 212 | 62.645 | 193 | 58.620 |

(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
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003
 NPDES Permit Outfall #: 003
 MONTH: September YEAR: 2015
 Average Low Temp: 59
 Average High Temp: 79
 Measured Rainfall: 3.03
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|--------------------|---------------------|----------------|-------|------------------|-------|-----------|-----------------------|-------|------|-----------------------|----------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 3 month | 9/29/2015 - 9/30/2015 | 23:20 | 9:45 | 10.42 | 0.267 | 0.116 |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.116 |

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 004

NPDES Permit Outfall #:

MONTH: September YEAR: 2015

Average Low Temp: 59

Average High Temp: 79

Measured Rainfall: 3.03

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q avg (MGD) | OUTFALL Q volume (MG) | |
|-----------|---------------------|----------------|-------|------------------|-------|-----------|---------------------|-------|------|---------------------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | | DURATION (hours) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 3 month | 9/29/15 - 9/30/2015 | 23:25 | 9:25 | 10.00 | 0.587 | 0.243 |

TOTAL MONTH FLOW VOLUME = 0.243

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 005

NPDES Permit Outfall #:

MONTH: September YEAR: 2015

Average Low Temp: 59

Average High Temp: 79

Measured Rainfall: 3.03

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|---------------------------|---------------------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 3 month | | | | | |
| TOTAL MONTH FLOW VOLUME = | | | | | | | | | | | 0.000 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #: September YEAR: 2015
 MONTH: 59
 Average Low Temp: 79
 Average High Temp: 3.03
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|---------------|---------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 3 month | 9/30/2015 | 4:25 | 9:10 | 4.75 | 0.531 | 0.105 |
| TOTAL MONTH | | | | | | | | | | | 0.105 | |
| FLOW VOLUME = | | | | | | | | | | | 0.105 | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

September YEAR: 2015

MONTH: 59

Average Low Temp: 79

Average High Temp:

Measured Rainfall: 3.03

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q. volume (MG) | | |
|-----------|---------------------|----------------|-------|------------------|-------|-----------|-----------------------|-------|------|------------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29:50 | 1.73 | 3 month | 9/29/2015 - 9/30/2015 | 22:50 | 9:00 | 10.17 | 0.040 | 0.017 |

TOTAL MONTH FLOW VOLUME = 0.017

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

September 2015

MONTH: September

Average Low Temp: 59

Average High Temp: 79

Measured Rainfall: 3.03

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|-----------|---------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 3 month | 9/30/2015 | 4:25 | 4:50 | 0.42 | 0.864 | 0.015 |
| | | | | | | | 9/30/2015 | 8:45 | 8:55 | 0.17 | 1.277 | 0.009 |

TOTAL MONTH FLOW VOLUME =

0.024

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

MONTH: September YEAR: 2015

Average Low Temp: 59

Average High Temp: 79

Measured Rainfall: 3.03

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
|--------------------|---------------------|----------------|-------|------------------|--------------|-----------|------|-------|------|--------------------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | | DURATION (hours) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 *** | | | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 **** | | | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 **** | | | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 3 month | | | | | | | |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.000 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street

LOCATION: 015

NPDES Permit Outfall #:

MONTH: September YEAR: 2015

Average Low Temp: 59

Average High Temp: 79

Measured Rainfall: 3.03

Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | | |
|-----------|---------------------|-------|-------|------------------|-----------|-----------|-----------------------|-------|-----------------------|------|---------------------------|--------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | | STOP | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 3 month | 9/29/2015 - 9/30/2015 | 22:50 | 0:10 | 1.33 | 1.023 | 0.057 |
| | | | | | | | 9/30/2015 | 4:15 | 6:00 | 1.75 | 0.738 | 0.054 |
| | | | | | | | 9/30/2015 | 8:35 | 9:00 | 0.42 | 3.427 | 0.059 |
| | | | | | | | | | | | TOTAL MONTH FLOW VOLUME = | 0.170 |

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 #: September YEAR: 2015
 MONTH: 59
 Average Low Temp: 79
 Average High Temp: 3.03
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|--------------------|---------------------|----------------|-------|------------------|-------|-----------|-----------------------|-----------|-------|------------------|----------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | 9/10/2015 | 15:10 | 16:45 | 1.58 | 0.401 | 0.026 |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 3 month | 9/29/2015 - 9/30/2015 | 23:10 | 9:20 | 10.17 | 1.455 | 0.616 |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.642 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quininiac

LOCATION: 020

NPDES Permit Outfall #:

September YEAR: 2015

MONTH: 59

Average Low Temp: 79

Average High Temp: 3.03

Measured Rainfall: 0.00

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|-----------|---------------------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 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: September YEAR: 2015

Average Low Temp: 59

Average High Temp: 79

Measured Rainfall: 3.03

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|---------------------|----------------|-------|------------------|-------|-----------|-----------|-----------|------|------------------|--------------------|-----------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 3 month | 9/30/2015 | 5:40 | 6:10 | 0.50 | 0.157 | 0.003 | |

TOTAL MONTH FLOW VOLUME = 0.003

FLOW MONITORING REPORT SUMMARY TABLE

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

NPDES Permit Outfall #:

MONTH: September YEAR: 2015

Average Low Temp: 59

Average High Temp: 79

Measured Rainfall: 3.03

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|--------------------|---------------------|----------------|-------|------------------|-------|-----------|------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 3 month | | | | | |
| TOTAL MONTH | | | | | | | | | | FLOW VOLUME = | 0.000 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 NPDES Permit Outfall #: 025
 MONTH: September YEAR: 2015
 Average Low Temp: 59
 Average High Temp: 79
 Measured Rainfall: 3.03
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q Qavg (MGD) | OUTFALL volume (MG) |
|-----------|---------------------|----------------|-------|---------------------|--------------------|-----------|------|---------------------|--|----------------------------|---------------------------|
| | | START | STOP | DURATION (hours) | TOTAL FREQUENCY | START | STOP | DURATION (hours) | | | |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 *** | | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 *** | | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 *** | | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 3 month | | | | | | |

TOTAL MONTH
 FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: George and Temple Regulator 34
 NPDES Permit Outfall #:
 MONTH: September YEAR: 2015
 Average Low Temp: 59
 Average High Temp: 79
 Measured Rainfall: 3.03
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | |
|---------------------------|---------------------|----------------|-------|------------------|-------|-----------|-----------------------|-------|------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 9/10/2015 - 9/11/15 | 3:45 | 5:25 | 25.67 | 0.84 | *** | | | | | |
| 2 | 9/12/2015 | 12:00 | 22:30 | 10.50 | 0.35 | *** | | | | | |
| 3 | 9/13/2015 | 1:30 | 20:20 | 18.83 | 0.11 | *** | | | | | |
| 4 | 9/29/15 - 9/30/15 | 8:05 | 13:35 | 29.50 | 1.73 | 3 month | 9/29/2015 - 9/30/2015 | 23:25 | 8:50 | 9.42 | 0.387 |
| TOTAL MONTH FLOW VOLUME = | | | | | | | | | | | 0.152 |

METER DATA

AUGUST 2015

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

MONTHLY RAINFALL SUMMARY

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

No snow

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

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

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|-------------------|--------------------------|-------------------|------------------------|
| CSO 006 | REGS 006 A, 006 B | 1 | 0.319 |
| CSO 005 | REG 005 | 1 | 0.215 |
| CSO 004 | REG 004 | 1 | 0.004 |
| CSO 003 | REG 003 | 1 | 0.152 |
| CSO 024 | REG 024 | 1 | 0.217 |
| CSO 009 | REG 009 | 1 | 0.057 |
| CSO 016 | REG 016 | 1 | 0.341 |
| CSO 015 | REG 015 | 1 | 0.206 |
| CSO 011 | REGS 010A, 011, 026 | 1 | 0.470 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 |
| CSO 025 | REGS 025, 034 | 1 | 0.556 |
| CSO 021 | REG 021 | 2 | 0.133 |
| CSO 020 | REG 020 | 0 | 0.000 |
| TOTAL | | 13 | 2.676 |

**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM**

METER DATA SUMMARY - THROUGH AUGUST 2015

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 47 | 12.385 | 131.10 | 39 |
| CSO 005 | REG 005 | 6 | 0.317 | 35.31 | 13 |
| CSO 004 | REG 004 | 23 | 2.801 | 35.31 | 13 |
| CSO 003 | REG 003 | 105 | 34.419 | 131.10 | 39 |
| CSO 024 | REG 024 | 30 | 27.909 | 120.90 | 36 |
| CSO 009 | REG 009 | 65 | 3.520 | 113.76 | 35 |
| CSO 016 | REG 016 | 83 | 31.908 | 115.79 | 37 |
| CSO 015 | REG 015 | 67 | 8.601 | 113.76 | 35 |
| CSO 011 | REGS 010A, 011, 026 | 26 | 14.548 | 109.39 | 33 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.006 | 31.82 | 11 |
| CSO 025 | REGS 025, 034 | 9 | 1.121 | 35.31 | 13 |
| CSO 021 | REG 021 | 44 | 30.827 | 110.39 | 34 |
| CSO 020 | REG 020 | 7 | 0.270 | 93.84 | 29 |
| TOTAL | | 513 | 168.632 | | |

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 | 3.899 | 14 | 3.811 |
| CSO 005 | REG 005 | 7 | 0.371 | 6 | 0.293 |
| CSO 004 | REG 004 | 27 | 3.274 | 21 | 2.586 |
| CSO 003 | REG 003 | 33 | 10.835 | 32 | 10.590 |
| CSO 024 | REG 024 | 10 | 9.527 | 10 | 9.303 |
| CSO 009 | REG 009 | 24 | 1.277 | 22 | 1.207 |
| CSO 016 | REG 016 | 30 | 11.373 | 27 | 10.349 |
| CSO 015 | REG 015 | 24 | 3.120 | 23 | 2.949 |
| CSO 011 | REGS 010A, 011, 026 | 10 | 5.489 | 9 | 5.290 |
| CSO 012 | REGS 012A, 012B, 028 | 1 | 0.008 | 1 | 0.007 |
| CSO 025 | REGS 025, 034 | 11 | 1.310 | 8 | 1.035 |
| CSO 021 | REG 021 | 16 | 11.525 | 16 | 10.880 |
| CSO 020 | REG 020 | 3 | 0.119 | 3 | 0.112 |
| TOTAL | | 208 | 62.006 | 190 | 58.298 |
| (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
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 NPDES Permit Outfall #: 003
 MONTH: August YEAR: 2015
 Average Low Temp: 65
 Average High Temp: 83
 Measured Rainfall: 1.85
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | CSO EVENT | | | OUTFALL Q volume (MG) | | | | | |
|--------------------|-----------|----------------|-------|------------------|-----------|-----------|-----------|-----------------------|-------|------|----------------------|--------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 7:55 | 12:30 | 4.58 | 0.797 | 0.152 | |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | | |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.152 | |

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 004

NPDES Permit Outfall #:

MONTH: August YEAR: 2015

Average Low Temp: 65

Average High Temp: 83

Measured Rainfall: 1.85

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-----------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 9:30 | 9:50 | 0.33 | 0.264 | 0.004 |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |
| | | | | | | | | | | | TOTAL MONTH | 0.004 |
| | | | | | | | | | | | FLOW VOLUME = | |

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 005

NPDES Permit Outfall #:

MONTH: August YEAR: 2015

Average Low Temp: 65

Average High Temp: 83

Measured Rainfall: 1.85

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 9:25 | 10:10 | 0.75 | 6.869 | 0.215 |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.215

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 NPDES Permit Outfall #: 006
 MONTH: August YEAR: 2015
 Average Low Temp: 65
 Average High Temp: 83
 Measured Rainfall: 1.85
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-----------|-------|------------------|---------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Q avg (MGD) | OUTFALL Q volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 9:30 | 10:55 | 1.42 | 5.392 | 0.319 |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.319

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

August YEAR: 2015

MONTH: 65

Average Low Temp: 83

Average High Temp: 1.85

Measured Rainfall: 0.00

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-----------|------|------------------|--------------------|-----------------------|--|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | | |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 7:40 | 9:55 | 2.25 | 0.606 | 0.057 | | |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.057

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
 LOCATION: 010A

NPDES Permit Outfall #:

MONTH: August YEAR: 2015

Average Low Temp: 65

Average High Temp: 83

Measured Rainfall: 1.85

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | | | | | | |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011

NPDES Permit Outfall #:

MONTH: August YEAR: 2015

Average Low Temp: 65

Average High Temp: 83

Measured Rainfall: 1.85

Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|----------------|-------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 9:20 | 11:25 | 2.08 | 5.410 | 0.470 |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.470

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

MONTH: August YEAR: 2015

Average Low Temp: 65

Average High Temp: 83

Measured Rainfall: 1.85

Measured Snowfall: 0.00

| EVENT NO. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-----------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 9:45 | 10:15 | 0.50 | 0.274 | 0.006 |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.006

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
 LOCATION: 015

NPDES Permit Outfall #:

MONTH: August YEAR: 2015

Average Low Temp: 65

Average High Temp: 83

Measured Rainfall: 1.85

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-----------|-------|------------------|--------------------|-----------------------|-------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | | |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 7:40 | 11:10 | 3.50 | 1.416 | 0.206 | | |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | | | |
| | | | | | | | | | | | | TOTAL MONTH | | |
| | | | | | | | | | | | | FLOW VOLUME = | 0.206 | |

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: 2015

Average Low Temp: 65

Average High Temp: 83

Measured Rainfall: 1.85

Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|----------------|-------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 9:25 | 10:55 | 1.50 | 5.457 | 0.341 |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.341

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Clifton and Quinmpiac
 020
 NPDES Permit Outfall #: August YEAR: 2015
 MONTH: 65
 Average Low Temp: 83
 Average High Temp: 1.85
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|------|-----------|------|------------------|---------------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | | | | | | |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |
| | | | | | | | | | | | 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: 2015

Average Low Temp: 65

Average High Temp: 83

Measured Rainfall: 1.85

Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|----------------|-------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 9:40 | 11:15 | 1.58 | 2.003 | 0.132 |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | 8/20/2015 | 7:35 | 8:20 | 0.75 | 0.026 | 0.001 |

TOTAL MONTH FLOW VOLUME = 0.133

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 NPDES Permit Outfall #: 2015
 MONTH: August YEAR: 2015
 Average Low Temp: 65
 Average High Temp: 83
 Measured Rainfall: 1.85
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | |
|-----------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|-----------------------|------------------|--------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 9:25 | 10:45 | 1.33 | 3.908 | 0.217 |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.217

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 NPDES Permit Outfall #: 025
 MONTH: August YEAR: 2015
 Average Low Temp: 65
 Average High Temp: 83
 Measured Rainfall: 1.85
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | OUTFALL Q | |
|-------------|-----------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|---------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | | | | | | |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.000 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: George and Temple Regulator 34
 NPDES Permit Outfall #:
 MONTH: August YEAR: 2015
 Average Low Temp: 65
 Average High Temp: 83
 Measured Rainfall: 1.85
 Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | | | CSO EVENT | | | | | |
|-----------|----------------|-------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 8/4/2015 | 5:25 | 5:35 | 0.17 | 0.02 | *** | | | | | | |
| 2 | 8/11/2015 | 6:25 | 20:10 | 13.75 | 1.54 | 6 month | 8/11/2015 | 9:20 | 10:15 | 0.92 | 14.552 | 0.556 |
| 3 | 8/21/2015 | 4:35 | 14:50 | 10.25 | 0.23 | *** | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.556

METER DATA

JULY 2015

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

MONTHLY RAINFALL SUMMARY

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

No snow

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

One 2 year storm, three 6 month storms, all other storms less than 1 month return frequency

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|-------------------|--------------------------|-------------------|------------------------|
| CSO 006 | REGS 006 A, 006 B | 1 | 0.030 |
| CSO 005 | REG 005 | 1 | 0.010 |
| CSO 004 | REG 004 | 0 | 0.000 |
| CSO 003 | REG 003 | 4 | 0.112 |
| CSO 024 | REG 024 | 1 | 0.439 |
| CSO 009 | REG 009 | 3 | 0.032 |
| CSO 019 | REG 019 | 0 | 0.000 |
| CSO 016 | REG 016 | 3 | 0.832 |
| CSO 015 | REG 015 | 3 | 0.066 |
| CSO 011 | REGS 010A, 011, 026 | 2 | 0.118 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 2 | 0.317 |
| CSO 021 | REG 021 | 1 | 0.001 |
| CSO 020 | REG 020 | 0 | 0.000 |
| TOTAL | | 21 | 1.957 |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH JULY 2015

| CSO NUMBER | REGULATOR NUMBERS | CSO EVENTS | CSO VOLUME (MG) | RAINFALL (IN) | METER MONTHS |
|--------------|----------------------|------------|-----------------|---------------|--------------|
| CSO 006 | REGS 006 A, 006 B | 46 | 12,066 | 129.25 | 38 |
| CSO 005 | REG 005 | 5 | 0.102 | 33.46 | 12 |
| CSO 004 | REG 004 | 22 | 2.797 | 33.46 | 12 |
| CSO 003 | REG 003 | 104 | 34.267 | 129.25 | 38 |
| CSO 024 | REG 024 | 29 | 27.692 | 119.05 | 35 |
| CSO 009 | REG 009 | 64 | 3.463 | 111.91 | 34 |
| CSO 019 | REG 019 | 33 | 1.593 | 123.65 | 36 |
| CSO 016 | REG 016 | 82 | 31.567 | 113.94 | 36 |
| CSO 015 | REG 015 | 66 | 8.395 | 111.91 | 34 |
| CSO 011 | REGS 010A, 011, 026 | 25 | 14.078 | 107.54 | 32 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 | 29.97 | 10 |
| CSO 025 | REGS 025, 034 | 8 | 0.565 | 33.46 | 12 |
| CSO 021 | REG 021 | 42 | 30.694 | 108.54 | 33 |
| CSO 020 | REG 020 | 7 | 0.270 | 91.99 | 28 |
| TOTAL | | 533 | 167.549 | | |

**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM**

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>ANNUAL CSO EVENTS BASED ON RAINFALL⁽¹⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON RAINFALL⁽²⁾</u> | <u>ANNUAL CSO EVENTS BASED ON MONTHS⁽³⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON MONTHS⁽⁴⁾</u> |
|-------------------|--------------------------|--|---|--|---|
| CSO 006 | REGS 006 A, 006 B | 15 | 3.853 | 15 | 3.810 |
| CSO 005 | REG 005 | 6 | 0.126 | 5 | 0.102 |
| CSO 004 | REG 004 | 27 | 3.450 | 22 | 2.797 |
| CSO 003 | REG 003 | 33 | 10.942 | 33 | 10.821 |
| CSO 024 | REG 024 | 10 | 9.600 | 10 | 9.494 |
| CSO 009 | REG 009 | 24 | 1.277 | 23 | 1.222 |
| CSO 019 | REG 019 | 11 | 0.532 | 11 | 0.531 |
| CSO 016 | REG 016 | 30 | 11.434 | 27 | 10.522 |
| CSO 015 | REG 015 | 24 | 3.096 | 23 | 2.963 |
| CSO 011 | REGS 010A, 011, 026 | 10 | 5.403 | 9 | 5.279 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 10 | 0.697 | 8 | 0.565 |
| CSO 021 | REG 021 | 16 | 11.671 | 15 | 11.161 |
| CSO 020 | REG 020 | 3 | 0.121 | 3 | 0.116 |
| TOTAL | | 215 | 62.078 | 201 | 59.269 |

(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
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003
 NPDES Permit Outfall #: 2015
 MONTH: July YEAR: 2015
 Average Low Temp: 66
 Average High Temp: 82
 Measured Rainfall: 3.06
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Q volume (MG) |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | 7/1/2015 | 6:10 | 7:25 | 1.25 | 0.745 | 0.039 |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | 7/14/2015 | 16:05 | 17:15 | 1.17 | 0.591 | 0.029 |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | 7/15/2015 | 16:00 | 16:20 | 0.33 | 0.104 | 0.001 |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | 7/30/2015 | 18:00 | 18:55 | 0.92 | 1.117 | 0.043 |

TOTAL MONTH FLOW VOLUME = 0.112

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

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

NPDES Permit Outfall #:
 MONTH: July YEAR: 2015
 Average Low Temp: 66
 Average High Temp: 82
 Measured Rainfall: 3.06
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | | | | | | |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 005

NPDES Permit Outfall #:

MONTH: July YEAR: 2015

Average Low Temp: 66

Average High Temp: 82

Measured Rainfall: 3.06

Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | | CSO EVENT | | | | | | |
|-----------|----------------------|-------|-------|------------------|-------|-----------|----------|-------|------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | 7/1/2015 | 6:05 | 6:10 | 0.08 | 2.693 | 0.010 |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.010

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Grand Avenue & James Street
 009

NPDES Permit Outfall #: 2015
 MONTH: July YEAR: 2015
 Average Low Temp: 66
 Average High Temp: 82
 Measured Rainfall: 3.06
 Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | | | | | | | CSO EVENT | | | |
|-----------|----------------------|-------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|--|--|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | | |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | 7/1/2015 | 6:10 | 6:30 | 0.33 | 2.092 | 0.029 | | |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | 7/8/2015 | 16:05 | 16:10 | 0.08 | 0.452 | 0.002 | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | 7/30/2015 | 18:05 | 18:20 | 0.25 | 0.049 | 0.001 | | |

TOTAL MONTH FLOW VOLUME = 0.032

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 547 East Street
 010A

NPDES Permit Outfall #:

July YEAR: 2015

MONTH: 66

Average Low Temp:

82

Average High Temp:

3.06

Measured Rainfall:

0.00

Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | | | | | | |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 011
 NPDES Permit Outfall #: July YEAR: 2015
 MONTH: 66
 Average Low Temp: 82
 Average High Temp: 3.06
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q avg (MGD) | OUTFALL Q volume (MG) | |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|---------------------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | | DURATION (hours) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | 7/1/2015 | 6:20 | 6:50 | 0.50 | 4.171 | 0.087 |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | 7/30/2015 | 18:05 | 18:40 | 0.58 | 1.289 | 0.031 |

TOTAL MONTH FLOW VOLUME = 0.118

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 75 Mitchell Drive
 NPDES Permit Outfall #: 012
 MONTH: July YEAR: 2015
 Average Low Temp: 66
 Average High Temp: 82
 Measured Rainfall: 3.06
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | | | | | | |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
 LOCATION: 015

NPDES Permit Outfall #: July YEAR: 2015

MONTH: Average Low Temp: 66

Average High Temp: 82

Measured Rainfall: 3.06

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Q volume (MG) |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | 7/1/2015 | 6:15 | 7:00 | 0.75 | 0.985 | 0.031 |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | 7/8/2015 | 16:00 | 16:30 | 0.50 | 0.658 | 0.014 |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | 7/30/2015 | 18:05 | 18:45 | 0.67 | 0.748 | 0.021 |

Expected capacity of siphon is between 24 and 30 MGD.

TOTAL MONTH FLOW VOLUME = 0.066

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Int. River & Poplar

LOCATION: 016

NPDES Permit Outfall #:

MONTH: July YEAR: 2015

Average Low Temp: 66

Average High Temp: 82

Measured Rainfall: 3.06

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|--------------------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | | DURATION (hours) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | 7/1/2015 | 6:05 | 7:35 | 1.50 | 7.070 | 0.442 |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | 7/26/2015 | 8:45 | 9:30 | 0.75 | 1.588 | 0.050 |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | 7/30/2015 | 17:55 | 19:25 | 1.50 | 5.433 | 0.340 |

TOTAL MONTH FLOW VOLUME =

0.832

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quininiac

LOCATION: 020

NPDES Permit Outfall #:

MONTH: July YEAR: 2015

Average Low Temp: 66

Average High Temp: 82

Measured Rainfall: 3.06

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | | | | | | |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | | | | | | |
| | | | | | | | | | | | TOTAL MONTH | 0.000 |
| | | | | | | | | | | | FLOW VOLUME = | |

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: 2015

Average Low Temp: 66

Average High Temp: 82

Measured Rainfall: 3.06

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | 7/1/2015 | 6:55 | 7:15 | 0.33 | 0.063 | 0.001 |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.001

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 024
 MONTH: July YEAR: 2015
 NPDES Permit Outfall #: 66
 Average Low Temp: 82
 Average High Temp: 3.06
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | 7/1/2015 | 6:35 | 8:05 | 1.50 | 7.027 | 0.439 |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.439

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 MONTH: July YEAR: 2015
 NPDES Permit Outfall #: 66
 Average Low Temp: 82
 Average High Temp: 3.06
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Q _{avg} (MGD) | OUTFALL Q volume (MG) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | | | | | | |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | | | | | | |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: George and Temple Regulator 34
 NPDES Permit Outfall #: 66
 MONTH: July YEAR: 2015
 Average Low Temp: 66
 Average High Temp: 82
 Measured Rainfall: 3.06
 Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | | |
|-----------|----------------------|-------|-------|------------------|-----------|-----------|-----------|-------|-----------------------|------|------------------|--------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | | STOP | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 7/1/2015 | 5:45 | 6:20 | 0.58 | 0.85 | 2 year | 7/1/2015 | 6:10 | 6:40 | 0.50 | 10.179 | 0.212 |
| 2 | 7/7/2015 - 7/8/2015 | 19:40 | 2:05 | 6.42 | 0.14 | *** | | | | | | |
| 3 | 7/9/2015 - 7/10/2015 | 21:35 | 2:20 | 4.75 | 0.08 | *** | | | | | | |
| 4 | 7/14/2015 | 5:50 | 20:40 | 14.83 | 0.27 | *** | | | | | | |
| 5 | 7/15/2015 | 15:35 | 15:55 | 0.33 | 0.33 | 6 month | | | | | | |
| 6 | 7/18/2015 | 9:25 | 9:30 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 7/20/2015 | 22:40 | 22:50 | 0.17 | 0.09 | *** | | | | | | |
| 8 | 7/26/2015 | 8:20 | 9:45 | 1.42 | 0.60 | 6 month | | | | | | |
| 9 | 7/27/2015 | 4:45 | 9:05 | 4.33 | 0.17 | *** | 7/30/2015 | 17:55 | 18:20 | 0.42 | 6.026 | 0.105 |
| 10 | 7/30/2015 | 17:20 | 18:35 | 1.25 | 0.52 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.317

METER DATA

JUNE 2015

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

MONTHLY RAINFALL SUMMARY

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

No snow

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

One 1 year storm, one 6 month storm, three 1 month storms, all other storms less than 1 month return frequency

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|-------------------|--------------------------|-------------------|------------------------|
| CSO 006 | REGS 006 A, 006 B | 2 | 0.257 |
| CSO 005 | REG 005 | 1 | 0.010 |
| CSO 004 | REG 004 | 3 | 0.008 |
| CSO 003 | REG 003 | 4 | 0.221 |
| CSO 024 | REG 024 | 2 | 1.023 |
| CSO 009 | REG 009 | 1 | 0.002 |
| CSO 019 | REG 019 | 0 | 0.000 |
| CSO 016 | REG 016 | 4 | 1.225 |
| CSO 015 | REG 015 | 5 | 0.221 |
| CSO 011 | REGS 010A, 011, 026 | 2 | 0.207 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 2 | 0.164 |
| CSO 021 | REG 021 | 3 | 0.204 |
| CSO 020 | REG 020 | 0 | 0.000 |
| TOTAL | | 29 | 3.542 |

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

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 45 | 12.036 | 126.19 | 37 |
| CSO 005 | REG 005 | 4 | 0.092 | 30.40 | 11 |
| CSO 004 | REG 004 | 22 | 2.797 | 30.40 | 11 |
| CSO 003 | REG 003 | 100 | 34.155 | 126.19 | 37 |
| CSO 024 | REG 024 | 28 | 27.253 | 115.99 | 34 |
| CSO 009 | REG 009 | 61 | 3.431 | 108.85 | 33 |
| CSO 019 | REG 019 | 33 | 1.593 | 120.59 | 35 |
| CSO 016 | REG 016 | 79 | 30.735 | 110.88 | 35 |
| CSO 015 | REG 015 | 63 | 8.329 | 108.85 | 33 |
| CSO 011 | REGS 010A, 011, 026 | 23 | 13.960 | 104.48 | 31 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 | 26.91 | 9 |
| CSO 025 | REGS 025, 034 | 6 | 0.248 | 30.40 | 11 |
| CSO 021 | REG 021 | 41 | 30.693 | 105.48 | 32 |
| CSO 020 | REG 020 | 7 | 0.270 | 88.93 | 27 |
| TOTAL | | 512 | 165.592 | | |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>ANNUAL CSO EVENTS BASED ON RAINFALL⁽¹⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON RAINFALL⁽²⁾</u> | <u>ANNUAL CSO EVENTS BASED ON MONTHS⁽³⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON MONTHS⁽⁴⁾</u> |
|-------------------|--------------------------|--|---|--|---|
| CSO 006 | REGS 006 A, 006 B | 15 | 3.936 | 15 | 3.904 |
| CSO 005 | REG 005 | 5 | 0.125 | 4 | 0.100 |
| CSO 004 | REG 004 | 30 | 3.797 | 24 | 3.051 |
| CSO 003 | REG 003 | 33 | 11.170 | 32 | 11.077 |
| CSO 024 | REG 024 | 10 | 9.697 | 10 | 9.619 |
| CSO 009 | REG 009 | 23 | 1.301 | 22 | 1.248 |
| CSO 019 | REG 019 | 11 | 0.545 | 11 | 0.546 |
| CSO 016 | REG 016 | 29 | 11.440 | 27 | 10.538 |
| CSO 015 | REG 015 | 24 | 3.158 | 23 | 3.029 |
| CSO 011 | REGS 010A, 011, 026 | 9 | 5.514 | 9 | 5.404 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 8 | 0.337 | 7 | 0.271 |
| CSO 021 | REG 021 | 16 | 12.009 | 15 | 11.510 |
| CSO 020 | REG 020 | 3 | 0.125 | 3 | 0.120 |
| TOTAL | | 214 | 63.029 | 200 | 60.296 |

(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
 MONTH: June YEAR: 2015
 NPDES Permit Outfall #: 58
 Average Low Temp: 74
 Average High Temp: 4.69
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | RAINFALL EVENT | | | | CSO EVENT | | | | | | | |
|--------------------|-----------------------|-------|-------|------------------|-----------|-----------|-----------|-------|-------|------------------|----------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | 6/1/2015 | 6:40 | 16:40 | 10.00 | 0.007 | 0.003 |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | 6/15/2015 | 5:35 | 10:25 | 4.83 | 0.213 | 0.043 |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | 6/21/2015 | 1:40 | 6:55 | 5.25 | 0.291 | 0.064 |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | 6/28/2015 | 2:25 | 7:30 | 5.08 | 0.526 | 0.111 |
| TOTAL MONTH | | | | | | | | | | | FLOW VOLUME = | 0.221 |

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 004

NPDES Permit Outfall #:

June YEAR: 2015

MONTH: 58

Average Low Temp: 74

Average High Temp: 4.69

Measured Rainfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|---------------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | | | | | | |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | 6/15/2015 | 5:40 | 7:45 | 2.08 | 0.036 | 0.003 |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | 6/21/2015 | 1:40 | 5:45 | 4.08 | 0.018 | 0.003 |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | 6/28/2015 | 2:50 | 6:45 | 3.92 | 0.010 | 0.002 |
| TOTAL MONTH | | | | | | | | | | | 0.008 | |
| FLOW VOLUME = | | | | | | | | | | | 0.008 | |

FLOW MONITORING REPORT SUMMARY TABLE

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

LOCATION: 005

NPDES Permit Outfall #:

MONTH: June YEAR: 2015

Average Low Temp: 58

Average High Temp: 74

Measured Rainfall: 4.69

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | | | | | | |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | | | | | | |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | 6/21/2015 | 1:40 | 2:05 | 0.42 | 0.601 | 0.010 |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.010

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Grand Avenue & James Street

LOCATION: 009

NPDES Permit Outfall #:

MONTH: June YEAR: 2015

Average Low Temp: 58

Average High Temp: 74

Measured Rainfall: 4.69

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | | CSO EVENT | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-----------|------|------------------|--------------------|------------------------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q ₃ volume (MG) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | | | | | | |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | | | | | | |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | 6/21/2015 | 1:40 | 5:45 | 4.08 | 0.010 | 0.002 |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.002

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 547 East Street
 LOCATION: 010A

NPDES Permit Outfall #:

MONTH: June YEAR: 2015

Average Low Temp: 58

Average High Temp: 74

Measured Rainfall: 4.69

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | | | | | | |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | | | | | | |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | | | | | | |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011
 NPDES Permit Outfall #: June YEAR: 2015
 MONTH: 58
 Average Low Temp: 74
 Average High Temp: 4.69
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | RAINFALL EVENT | | | | CSO EVENT | | | | | | | |
|-----------|-----------------------|-------|-------|------------------|-----------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | | | | | | |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | | | | | | |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | 6/21/2015 | 1:45 | 6:25 | 4.67 | 0.342 | 0.066 |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | 6/28/2015 | 3:05 | 4:05 | 1.00 | 3.389 | 0.141 |

TOTAL MONTH FLOW VOLUME = 0.207

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

June YEAR: 2015

MONTH: 58

Average Low Temp: 74

Average High Temp:

Measured Rainfall: 4.69

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Q _{avg} (MGD) | OUTFALL Q _{volume} (MG) |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--|--------------------------------|----------------------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | | | |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | | | | | | | |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | | | | | | | |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | | | | | | | |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | | | | | | | |

TOTAL MONTH FLOW VOLUME = 0.000

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 15 James Street
 LOCATION: 015
 MONTH: June YEAR: 2015
 Average Low Temp: 58
 Average High Temp: 74
 Measured Rainfall: 4.69
 Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | CSO EVENT | | | | | | | |
|-----------|---------------------|-------|-------|------------------|-----------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | 6/1/2015 | 15:55 | 16:10 | 0.25 | 2.674 | 0.028 |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | 6/2/2015 | 1:00 | 1:20 | 0.33 | 0.959 | 0.013 |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | 6/15/2015 | 5:30 | 6:25 | 0.92 | 2.471 | 0.094 |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | 6/21/2015 | 1:45 | 6:25 | 4.67 | 0.142 | 0.028 |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/20 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | 6/28/2015 | 2:40 | 5:25 | 2.75 | 0.504 | 0.058 |

Expected capacity of siphon is between 24 and 30 MGD.

TOTAL MONTH FLOW VOLUME = 0.221

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Int. River & Poplar 016
 NPDES Permit Outfall #: June YEAR: 2015
 MONTH: 58
 Average Low Temp: 74
 Average High Temp: 4.69
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | 6/1/2015 | 6:40 | 16:40 | 10.00 | 0.266 | 0.111 |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | 6/15/2015 | 5:30 | 8:00 | 2.50 | 2.631 | 0.274 |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | 6/21/2015 | 1:35 | 7:05 | 5.50 | 2.145 | 0.492 |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | 6/28/2015 | 2:30 | 3:55 | 1.42 | 5.892 | 0.348 |

TOTAL MONTH FLOW VOLUME = 1.225

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quininiac

LOCATION: 020

NPDES Permit Outfall #:

June YEAR: 2015

MONTH: Average Low Temp: 58

Average High Temp: 74

Measured Rainfall: 4.69

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | | | | | | |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | | | | | | |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | | | | | | |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 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: June YEAR: 2015

Average Low Temp: 58

Average High Temp: 74

Measured Rainfall: 4.69

Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Q volume (MG) | | | |
|-----------|-----------------------|-------|-------|------------------|-----------|-----------|-----------|-------|-----------------------|------|------------------|--------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | | STOP | DURATION (hours) | OUTFALL Qavg (MGD) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | 6/1/2015 | 6:45 | 7:55 | 1.17 | 2.530 | 0.123 |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | | | | | | |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | 6/21/2015 | 6:15 | 7:00 | 0.75 | 0.803 | 0.025 |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | 6/28/2015 | 3:25 | 4:35 | 1.17 | 1.143 | 0.056 |

TOTAL MONTH FLOW VOLUME = 0.204

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 NPDES Permit Outfall #: 024
 MONTH: June YEAR: 2015
 Average Low Temp: 58
 Average High Temp: 74
 Measured Rainfall: 4.69
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|--------------------|-----------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | | DURATION (hours) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | | | | | | |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | | | | | | |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | 6/21/2015 | 2:30 | 7:10 | 4.67 | 3.163 | 0.615 |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | 6/28/2015 | 3:15 | 6:55 | 3.67 | 2.669 | 0.408 |

TOTAL MONTH FLOW VOLUME = 1.023

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 NPDES Permit Outfall #: 025
 MONTH: June YEAR: 2015
 Average Low Temp: 58
 Average High Temp: 74
 Measured Rainfall: 4.69
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | CSO EVENT | | | | OUTFALL Qavg volume (MG) | |
|---------------|-----------------------|----------------|-------|------------------|-------|-----------|------|-------|------|--------------------------|------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | | DURATION (hours) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | | | | | |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | | | | | |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | | | | | |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | | | | | |
| TOTAL MONTH | | | | | | | | | | 0.000 | |
| FLOW VOLUME = | | | | | | | | | | 0.000 | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 George and Temple
 Regulator 34

NPDES Permit Outfall #:
 MONTH: June YEAR: 2015

Average Low Temp: 58
 Average High Temp: 74
 Measured Rainfall: 4.69
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-----------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 6/1/2015 | 15:15 | 15:35 | 0.33 | 0.18 | 1 month | | | | | | |
| 2 | 6/1/2015 - 6/2/2015 | 21:05 | 16:55 | 19.83 | 0.57 | 1 month | | | | | | |
| 3 | 6/6/2015 | 1:30 | 1:35 | 0.08 | 0.01 | *** | | | | | | |
| 4 | 6/9/2015 | 8:40 | 8:45 | 0.08 | 0.01 | *** | | | | | | |
| 5 | 6/15/2015 | 2:50 | 13:10 | 10.33 | 0.97 | 1 month | | | | | | |
| 6 | 6/16/2015 | 17:50 | 17:55 | 0.08 | 0.01 | *** | | | | | | |
| 7 | 6/20/2015 | 14:50 | 20:55 | 6.08 | 0.19 | *** | | | | | | |
| 8 | 6/21/2015 | 1:15 | 19:30 | 18.25 | 1.16 | 1 year | 6/21/2015 | 1:35 | 5:50 | 4.25 | 0.580 | 0.103 |
| 9 | 6/23/2015 | 16:35 | 16:40 | 0.08 | 0.04 | *** | | | | | | |
| 10 | 6/27/2015 - 6/28/2015 | 19:10 | 20:40 | 25.50 | 1.55 | 6 month | 6/28/2015 | 2:50 | 3:25 | 0.58 | 2.500 | 0.061 |

TOTAL MONTH FLOW VOLUME = 0.164

METER DATA

MAY 2015

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

MONTHLY RAINFALL SUMMARY

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

No snow

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

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

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> |
|-------------------|--------------------------|-------------------|------------------------|
| CSO 006 | REGS 006 A, 006 B | 1 | 0.018 |
| CSO 005 | REG 005 | 0 | 0.000 |
| CSO 004 | REG 004 | 2 | 0.009 |
| CSO 003 | REG 003 | 2 | 0.093 |
| CSO 024 | REG 024 | 0 | 0.000 |
| CSO 009 | REG 009 | 2 | 0.002 |
| CSO 019 | REG 019 | 0 | 0.000 |
| CSO 016 | REG 016 | 2 | 0.407 |
| CSO 015 | REG 015 | 2 | 0.101 |
| CSO 011 | REGS 010A, 011, 026 | 0 | 0.000 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 2 | 0.056 |
| CSO 021 | REG 021 | 1 | 0.451 |
| CSO 020 | REG 020 | 0 | 0.000 |
| TOTAL | | 14 | 1.137 |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - THROUGH MAY 2015

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>CSO EVENTS</u> | <u>CSO VOLUME (MG)</u> | <u>RAINFALL (IN)</u> | <u>METER MONTHS</u> |
|-------------------|--------------------------|-------------------|------------------------|----------------------|---------------------|
| CSO 006 | REGS 006 A, 006 B | 43 | 11.779 | 121.50 | 36 |
| CSO 005 | REG 005 | 3 | 0.082 | 25.71 | 10 |
| CSO 004 | REG 004 | 19 | 2.789 | 25.71 | 10 |
| CSO 003 | REG 003 | 96 | 33.934 | 121.50 | 36 |
| CSO 024 | REG 024 | 26 | 26.230 | 111.30 | 33 |
| CSO 009 | REG 009 | 60 | 3.429 | 104.16 | 32 |
| CSO 019 | REG 019 | 33 | 1.593 | 115.90 | 34 |
| CSO 016 | REG 016 | 75 | 29.510 | 106.19 | 34 |
| CSO 015 | REG 015 | 58 | 8.108 | 104.16 | 32 |
| CSO 011 | REGS 010A, 011, 026 | 21 | 13.753 | 99.79 | 30 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 | 22.22 | 8 |
| CSO 025 | REGS 025, 034 | 4 | 0.084 | 25.71 | 10 |
| CSO 021 | REG 021 | 38 | 30.489 | 100.79 | 31 |
| CSO 020 | REG 020 | 7 | 0.270 | 84.24 | 26 |
| TOTAL | | 483 | 162.050 | | |

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

CSO FLOW MONITORING PROGRAM

METER DATA SUMMARY - TYPICAL YEAR ESTIMATES

| <u>CSO NUMBER</u> | <u>REGULATOR NUMBERS</u> | <u>ANNUAL CSO EVENTS BASED ON RAINFALL⁽¹⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON RAINFALL⁽²⁾</u> | <u>ANNUAL CSO EVENTS BASED ON MONTHS⁽³⁾</u> | <u>ANNUAL CSO VOLUME (MG) BASED ON MONTHS⁽⁴⁾</u> |
|-------------------|--------------------------|--|---|--|---|
| CSO 006 | REGS 006 A, 006 B | 15 | 4.001 | 14 | 3.926 |
| CSO 005 | REG 005 | 5 | 0.132 | 4 | 0.098 |
| CSO 004 | REG 004 | 30 | 4.477 | 23 | 3.347 |
| CSO 003 | REG 003 | 33 | 11.526 | 32 | 11.311 |
| CSO 024 | REG 024 | 10 | 9.726 | 9 | 9.538 |
| CSO 009 | REG 009 | 24 | 1.359 | 23 | 1.286 |
| CSO 019 | REG 019 | 12 | 0.567 | 12 | 0.562 |
| CSO 016 | REG 016 | 29 | 11.469 | 26 | 10.415 |
| CSO 015 | REG 015 | 23 | 3.213 | 22 | 3.041 |
| CSO 011 | REGS 010A, 011, 026 | 9 | 5.688 | 8 | 5.501 |
| CSO 012 | REGS 012A, 012B, 028 | 0 | 0.000 | 0 | 0.000 |
| CSO 025 | REGS 025, 034 | 6 | 0.135 | 5 | 0.101 |
| CSO 021 | REG 021 | 16 | 12.484 | 15 | 11.802 |
| CSO 020 | REG 020 | 3 | 0.132 | 3 | 0.125 |
| TOTAL | | 210 | 64.776 | 192 | 60.929 |

(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
 LOCATION: Orange Ave. @ Int. of Ella T. Grasso Blvd.
 003
 NPDES Permit Outfall #: May YEAR: 2015
 MONTH: 51
 Average Low Temp: 71
 Average High Temp: 0.95
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|---------------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | 5/16/2015 | 8:00 | 9:15 | 1.25 | 1.169 | 0.061 |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | 5/31/2015 | 18:15 | 19:55 | 1.67 | 0.459 | 0.032 |
| | | | | | | | | | | | TOTAL MONTH FLOW VOLUME = | 0.093 |

Note: Overflow occurs when Interceptor level reaches 46"

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Ella T. Grasso Blvd. - 23 yrds North of Legion Ave.
 004
 NPDES Permit Outfall #: May YEAR: 2015
 MONTH: 51
 Average Low Temp: 71
 Average High Temp: 0.95
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | RAINFALL EVENT | | | | | CSO EVENT | | | | | | |
|-----------|-------------------|-------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0.08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0.08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | 5/16/2015 | 8:00 | 8:55 | 0.92 | 0.131 | 0.005 |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | 5/31/2015 | 18:15 | 19:00 | 0.75 | 0.134 | 0.004 |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Derby Ave. 20 yds East of Ella T. Grasso Blvd.
 LOCATION: 005
 NPDES Permit Outfall #: May YEAR: 2015
 MONTH: 51
 Average Low Temp: 71
 Average High Temp: 0.95
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-------------|-------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | | | | | | |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Whalley Ave. 30 yds from Fitch Street
 006
 NPDES Permit Outfall #: May YEAR: 2015
 MONTH: 51
 Average Low Temp: 71
 Average High Temp: 0.95
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|--------------------|-------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19:17 | 0.59 | 3 month | | | | | | |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17:17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4:17 | 0.28 | *** | 5/31/2015 | 18:25 | 19:15 | 0.83 | 0.520 | 0.018 |
| TOTAL MONTH | | | | | | | | | | | | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Grand Avenue & James Street
 009
 NPDES Permit Outfall #: 2015
 MONTH: May YEAR: 2015
 Average Low Temp: 51
 Average High Temp: 71
 Measured Rainfall: 0.95
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | 5/16/2015 | 8:00 | 8:20 | 0.33 | 0.099 | 0.001 |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | 5/31/2015 | 18:10 | 18:15 | 0.08 | 0.195 | 0.001 |
| | | | | | | | | | | | TOTAL MONTH | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 547 East Street
 010A

NPDES Permit Outfall #:

MONTH: May YEAR: 2015

Average Low Temp: 51

Average High Temp: 71

Measured Rainfall: 0.95

Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | | CSO EVENT | | | | | | |
|-----------|-------------------|-------|-------|------------------|-------|-----------|------|-------|------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | | | | | | |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | | | | | | |
| | | | | | | | | | | | TOTAL MONTH | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG

LOCATION: 011
 NPDES Permit Outfall #: May YEAR: 2015
 MONTH: 51
 Average Low Temp: 71
 Average High Temp: 0.95
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-------------|-------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | | | | | | |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 75 Mitchell Drive

LOCATION: 012

NPDES Permit Outfall #:

MONTH: May YEAR: 2015

Average Low Temp: 51

Average High Temp: 71

Measured Rainfall: 0.95

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-------------|-------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|---------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Q avg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | | | | | | |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | | | | | | |
| TOTAL MONTH | | | | | | | | | | | | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: 15 James Street 015
 NPDES Permit Outfall #:
 MONTH: May YEAR: 2015
 Average Low Temp: 51
 Average High Temp: 71
 Measured Rainfall: 0.95
 Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | | CSO EVENT | | | | | | |
|-----------|-------------------|-------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19:17 | 0.59 | 3 month | 5/16/2015 | 8:05 | 8:35 | 0.50 | 3.541 | 0.074 |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17:17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4:17 | 0.28 | *** | 5/31/2015 | 18:20 | 18:40 | 0.33 | 1.959 | 0.027 |
| | | | | | | | | | | | TOTAL MONTH | |

Expected capacity of siphon is between 24 and 30 MGD.

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Int. River & Poplar 016
 NPDES Permit Outfall #:
 MONTH: May YEAR: 2015
 Average Low Temp: 51
 Average High Temp: 71
 Measured Rainfall: 0.95
 Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0.08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0.08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | 5/16/2015 | 7:50 | 8:40 | 0.83 | 6.208 | 0.216 |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | 5/31/2015 | 18:10 | 19:40 | 1.50 | 3.052 | 0.191 |
| | | | | | | | | | | | TOTAL MONTH | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG 279 Front Street

LOCATION: 019

NPDES Permit Outfall #:

MONTH: May YEAR: 2015

Average Low Temp: 51

Average High Temp: 71

Measured Rainfall: 0.95

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | | | | | | |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | | | | | | |
| | | | | | | | | | | | TOTAL MONTH | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG Clifton and Quininnipiac

LOCATION: 020

NPDES Permit Outfall #:

MONTH: May YEAR: 2015

Average Low Temp: 51

Average High Temp: 71

Measured Rainfall: 0.95

Measured Snowfall: 0.00

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------|----------------|-------|------------------|-------|-----------|-----------|-------|------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19:17 | 0.59 | 3 month | | | | | | |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17:17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4:17 | 0.28 | *** | | | | | | |

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 #: May YEAR: 2015
 MONTH: 51
 Average Low Temp: 71
 Average High Temp: 0.95
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | |
|-----------|-------------------|----------------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | | | | | | |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | 5/31/2015 | 18:45 | 20:25 | 1.67 | 6.490 | 0.451 |
| | | | | | | | | | | | TOTAL MONTH | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Sea Street @ South Water Street
 NPDES Permit Outfall #: 024
 MONTH: May YEAR: 2015
 Average Low Temp: 51
 Average High Temp: 71
 Measured Rainfall: 0.95
 Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | | CSO EVENT | | | | | | |
|-----------|-------------------|-------|-------|------------------|-------|-----------|------|-------|------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0:08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0:08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19:17 | 0.59 | 3 month | | | | | | |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17:17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4:17 | 0.28 | *** | | | | | | |
| | | | | | | | | | | | TOTAL MONTH | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG
 LOCATION: Intersection of State & N. Front Street
 025
 MONTH: May YEAR: 2015
 NPDES Permit Outfall #: 51
 Average Low Temp: 71
 Average High Temp: 0.95
 Measured Rainfall: 0.00
 Measured Snowfall:

| EVENT No. | DATE | RAINFALL EVENT | | | | | CSO EVENT | | | | | OUTFALL Q Qavg (MGD) | OUTFALL Q volume (MG) | |
|--------------------|-------------------|----------------|-------|---------------------|-------|-----------|-----------|-------|-------|---------------------|--|----------------------------|-----------------------------|--|
| | | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | | | | |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0.08 | 0.10 | *** | | | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0.08 | 0.10 | *** | | | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | 5/16/2015 | 8:00 | 8:25 | 0.42 | | 1.744 | 0.030 | |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | 5/31/2015 | 18:15 | 18:25 | 0.17 | | 1.416 | 0.010 | |
| TOTAL MONTH | | | | | | | | | | | | | | |

FLOW MONITORING REPORT SUMMARY TABLE

CSO EVENTS LOG George and Temple

LOCATION: Regulator 34

NPDES Permit Outfall #:

MONTH: May YEAR: 2015

Average Low Temp: 51

Average High Temp: 71

Measured Rainfall: 0.95

Measured Snowfall: 0.00

| EVENT No. | RAINFALL EVENT | | | | | CSO EVENT | | | | | | |
|-----------|-------------------|-------|-------|------------------|-------|-----------|-----------|-------|-------|------------------|--------------------|-----------------------|
| | DATE | START | STOP | DURATION (hours) | TOTAL | FREQUENCY | DATE | START | STOP | DURATION (hours) | OUTFALL Qavg (MGD) | OUTFALL Q volume (MG) |
| 1 | 5/10/2015 | 0:50 | 0:55 | 0.08 | 0.10 | *** | | | | | | |
| 2 | 5/12/2015 | 3:35 | 3:40 | 0.08 | 0.10 | *** | | | | | | |
| 3 | 5/16/2015-5/17/15 | 6:20 | 1:30 | 19.17 | 0.59 | 3 month | 5/16/2015 | 8:05 | 8:10 | 0.08 | 2.730 | 0.009 |
| 4 | 5/19/2015 | 5:40 | 22:50 | 17.17 | 0.06 | *** | | | | | | |
| 5 | 5/31/2015 | 17:45 | 21:55 | 4.17 | 0.28 | *** | 5/31/2015 | 18:15 | 18:25 | 0.17 | 0.966 | 0.007 |
| | | | | | | | | | | | TOTAL MONTH | |