

Montague, MA

Montague, MA

March 2024 Report Submitted to Montague, MA
April 8, 2024



ADS ENVIRONMENTAL SERVICES

340 The Bridge Street, Suite 204
Huntsville, AL 35806

800-633-7246
www.adsenv.com



April 8, 2024

Tom Bergeron,
DPW Superintendent
1 Avenue A
Turners Falls MA 01376

SUBJECT: Montague, MA

Dear Mr. Bergeron,

ADS is pleased to submit the report for the Montague, MA completed on behalf of Montague, MA. The metering was conducted at five (5) locations. The study was conducted during the period of Friday, 01 March 2024 to Sunday, 31 March 2024.

The report contains depth, velocity, and quantity hydrographs as well as daily long tables for the metering period. An Excel file containing depth, quantity, and velocity entities for the monitoring location in 5-minute format was provided previously.

In addition, we would be happy to further explain any details about the report that may seem unclear. Should you have any questions or comments, you may contact the Project Manager, Scott Neesen at 603.484.0186.

It has been our pleasure to be of service to you in the performance of this project. Thank you for choosing ADS products and services to meet your flow monitoring needs.

Sincerely,

ADS ENVIRONMENTAL SERVICES

Melissa Hygom
Senior Hydraulic Data Analyst, Congers, NY

Friday, 01 March 2024 to Sunday, 31 March 2024



Montague, MA

Prepared For:

Tom Bergeron,
DPW Superintendent
1 Avenue A
Turners Falls MA 01376

Prepared By:



ADS, LLC
340 The Bridge Street, Suite 204
Huntsville, AL 35806

7th_L_CSO

Site Commentary

SITE INFORMATION

| | |
|------|--------------------|
| Pipe | Round (14.25 in H) |
| Silt | 0.00 (in) |

OBSERVATIONS

Average flow depth, velocity, and quantity data observed during **Friday, 01 March 2024 to Sunday, 31 March 2024**, along with observed minimum and maximum data, are provided in the following table.

Zero (0) overflows recorded during the March 2024 metering period.

| Observed Flow Conditions | | |
|--------------------------|-----------------------|-----------------------|
| Item | DFINAL (in) | VFINAL (ft/s) |
| Average | 1.70 | 2.05 |
| Minimum | 1.21 | 0.38 |
| Maximum | 5.90 | 12.17 |
| Min Time | 03/16/2024 4:40:00 AM | 03/09/2024 3:40:00 AM |
| Max Time | 03/23/2024 6:25:00 PM | 03/23/2024 6:25:00 PM |

Based upon the quality and consistency of the observed flow depth and velocity data, the Continuity equation was used to calculate flow rate and quantities during the monitoring period.

Values in the Observed Flow Conditions are based on the five minute average.

Values in the graphical reports are based on the fifteen minutes average.

Values in the tabular report are based on the five minute average.

DATA UPTIME

Data uptime observed during **Friday, 01 March 2024 to Sunday, 31 March 2024** is provided in the following table:

| Percent Uptime | |
|----------------|-----|
| DFINAL (in) | 100 |
| VFINAL (ft/s) | 100 |

Hydrograph Report

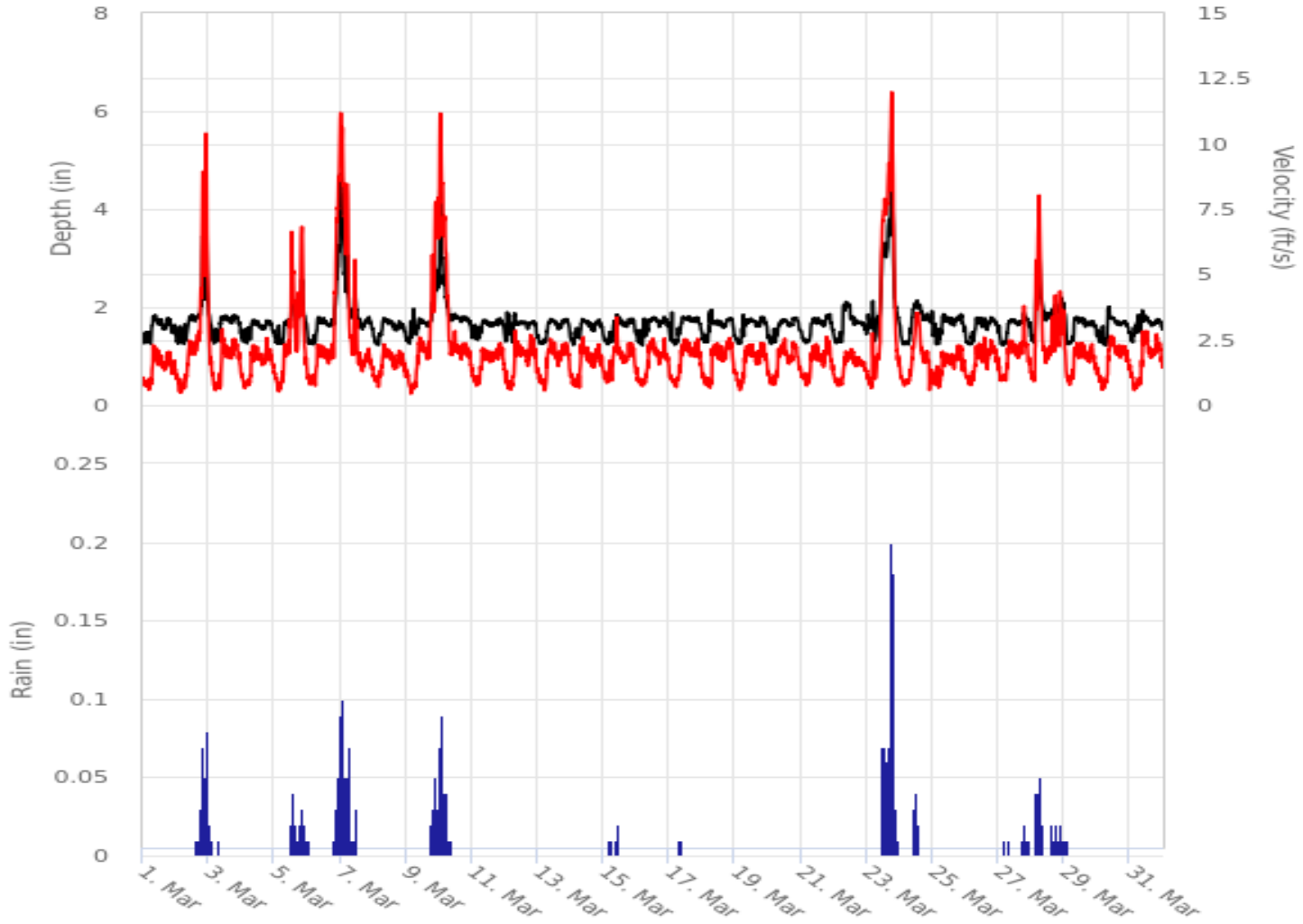
7th_L_CSO

Flow Monitor
7th_L_CSO

Pipe Height
14.25
in

Report Period
03/01/2024
To
03/31/2024

Legend
— DFINAL
— Rain
— VFINAL



Scattergraph Report

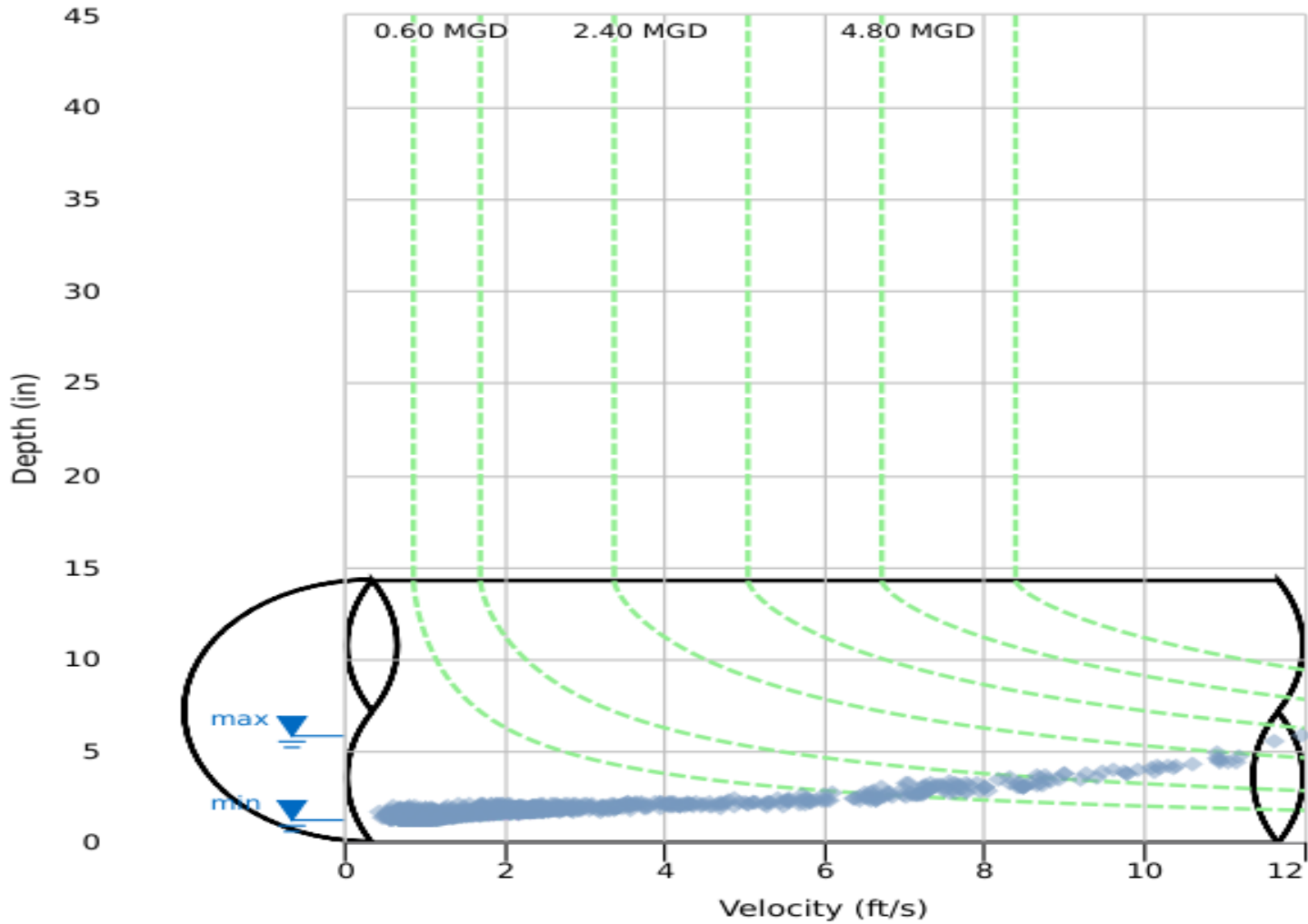
7th_L_CSO

Flow Monitor
7th_L_CSO

Pipe Height
14.25
in

Report Period
03/01/2024
To
03/31/2024

Legend
○ DFINAL - VFINAL
- - Iso-QTM
▼ Min-Max Depth



Daily Tabular Report

03/01/2024 00:00 - 03/31/2024 23:59

7th_L_CSOPipe: Round (14.25 in H), Silt0.00 in

| Date | DFINAL (in) | | | | | VFINAL (ft/s) | | | | | Rain (in) |
|------------|-------------|------|-------|------|------|---------------|------|-------|-------|------|-----------|
| | Time | Min | Time | Max | Avg | Time | Min | Time | Max | Avg | Total |
| 03/01/2024 | 05:30 | 1.24 | 09:05 | 1.85 | 1.57 | 04:45 | 0.52 | 07:30 | 2.43 | 1.43 | - |
| 03/02/2024 | 02:35 | 1.24 | 22:05 | 4.15 | 1.84 | 04:30 | 0.43 | 22:05 | 10.57 | 2.80 | 0.82 |
| 03/03/2024 | 04:00 | 1.25 | 00:00 | 1.97 | 1.65 | 05:10 | 0.51 | 00:00 | 3.61 | 1.72 | 0.04 |
| 03/04/2024 | 04:20 | 1.24 | 02:30 | 1.82 | 1.56 | 02:30 | 0.60 | 18:40 | 2.64 | 1.59 | - |
| 03/05/2024 | 05:35 | 1.25 | 20:05 | 2.59 | 1.73 | 03:15 | 0.49 | 20:10 | 6.97 | 2.64 | 0.54 |
| 03/06/2024 | 04:20 | 1.23 | 23:55 | 4.07 | 1.76 | 05:45 | 0.71 | 23:55 | 10.38 | 2.58 | 0.73 |
| 03/07/2024 | 23:10 | 1.53 | 00:20 | 4.76 | 2.16 | 16:10 | 1.28 | 00:15 | 11.26 | 3.72 | 1.23 |
| 03/08/2024 | 03:40 | 1.23 | 08:15 | 1.79 | 1.56 | 03:45 | 0.62 | 07:45 | 2.41 | 1.59 | - |
| 03/09/2024 | 02:50 | 1.21 | 21:45 | 2.78 | 1.75 | 03:40 | 0.38 | 21:30 | 7.98 | 2.63 | 0.67 |
| 03/10/2024 | 23:55 | 1.47 | 00:45 | 4.46 | 2.07 | 23:50 | 1.25 | 01:10 | 11.46 | 3.63 | 0.78 |
| 03/11/2024 | 04:30 | 1.31 | 02:20 | 1.84 | 1.60 | 03:25 | 0.66 | 20:50 | 2.41 | 1.67 | - |
| 03/12/2024 | 06:10 | 1.27 | 03:00 | 2.19 | 1.62 | 04:40 | 0.54 | 07:50 | 3.20 | 1.70 | - |
| 03/13/2024 | 03:10 | 1.25 | 20:55 | 1.79 | 1.56 | 04:55 | 0.49 | 11:30 | 2.80 | 1.71 | - |
| 03/14/2024 | 02:15 | 1.21 | 05:40 | 1.85 | 1.57 | 06:40 | 0.52 | 09:20 | 2.66 | 1.59 | - |
| 03/15/2024 | 03:20 | 1.23 | 09:40 | 1.91 | 1.59 | 02:35 | 0.79 | 09:40 | 3.81 | 1.75 | 0.07 |
| 03/16/2024 | 04:40 | 1.21 | 20:20 | 1.84 | 1.61 | 04:35 | 0.66 | 20:30 | 2.72 | 1.66 | - |
| 03/17/2024 | 04:05 | 1.22 | 02:10 | 1.93 | 1.61 | 04:25 | 0.58 | 18:50 | 2.73 | 1.72 | 0.02 |
| 03/18/2024 | 01:50 | 1.26 | 05:55 | 2.32 | 1.62 | 05:40 | 0.63 | 20:20 | 2.64 | 1.68 | - |
| 03/19/2024 | 03:35 | 1.24 | 06:05 | 2.08 | 1.60 | 03:35 | 0.52 | 12:35 | 2.71 | 1.68 | - |
| 03/20/2024 | 02:35 | 1.24 | 20:35 | 1.79 | 1.58 | 02:25 | 0.70 | 12:25 | 2.66 | 1.69 | - |
| 03/21/2024 | 04:05 | 1.26 | 21:15 | 1.89 | 1.60 | 04:20 | 0.72 | 18:55 | 3.07 | 1.64 | - |
| 03/22/2024 | 01:50 | 1.26 | 08:55 | 2.16 | 1.66 | 05:45 | 0.67 | 12:50 | 2.24 | 1.47 | - |
| 03/23/2024 | 06:00 | 1.30 | 18:25 | 5.90 | 2.45 | 03:20 | 0.61 | 18:25 | 12.17 | 4.35 | 2.46 |
| 03/24/2024 | 06:25 | 1.22 | 12:55 | 2.16 | 1.69 | 21:50 | 0.47 | 12:55 | 3.58 | 1.74 | 0.41 |
| 03/25/2024 | 03:00 | 1.23 | 00:10 | 1.87 | 1.65 | 04:45 | 0.58 | 18:50 | 2.34 | 1.56 | - |
| 03/26/2024 | 03:40 | 1.23 | 08:15 | 1.80 | 1.58 | 04:10 | 0.73 | 13:50 | 2.75 | 1.71 | - |
| 03/27/2024 | 03:45 | 1.21 | 23:25 | 1.99 | 1.59 | 05:30 | 0.80 | 18:50 | 3.90 | 1.87 | 0.09 |
| 03/28/2024 | 02:05 | 1.26 | 05:45 | 3.06 | 1.94 | 02:05 | 0.87 | 05:50 | 8.15 | 2.99 | 0.72 |
| 03/29/2024 | 03:05 | 1.23 | 00:00 | 1.96 | 1.61 | 04:05 | 0.74 | 00:05 | 2.70 | 1.76 | 0.02 |
| 03/30/2024 | 06:50 | 1.21 | 09:05 | 2.04 | 1.60 | 03:55 | 0.54 | 10:20 | 2.77 | 1.71 | - |
| 03/31/2024 | 02:10 | 1.26 | 06:10 | 1.98 | 1.64 | 03:25 | 0.53 | 09:35 | 3.17 | 1.74 | - |

03/01/2024 00:00 - 03/31/2024 23:59

| | DFINAL (in) | VFINAL (ft/s) | Rain (in) |
|---------|-------------|---------------|-----------|
| Total | | | 8.60 |
| Average | 1.70 | 2.06 | |

Ave_A_CSO

Site Commentary

SITE INFORMATION

| | |
|------|-----------------|
| Pipe | Round (21 in H) |
| Silt | 0.00 (in) |

OBSERVATIONS

Average flow depth, velocity, and quantity data observed during **Friday, 01 March 2024 to Sunday, 31 March 2024**, along with observed minimum and maximum data, are provided in the following table.

Zero (0) overflows recorded during the March 2024 metering period.

| Observed Flow Conditions | |
|--------------------------|------------------------|
| Item | DFINAL (in) |
| Average | 3.68 |
| Minimum | 2.27 |
| Maximum | 20.38 |
| Min Time | 03/15/2024 11:00:00 AM |
| Max Time | 03/01/2024 12:00:00 AM |

Based upon the quality and consistency of the observed flow depth and velocity data, the Continuity equation was used to calculate flow rate and quantities during the monitoring period.

Values in the Observed Flow Conditions are based on the five minute average.

Values in the graphical reports are based on the fifteen minutes average.

Values in the tabular report are based on the five minute average.

DATA UPTIME

Data uptime observed during **Friday, 01 March 2024 to Sunday, 31 March 2024** is provided in the following table:

| Percent Uptime | |
|----------------|-----|
| DFINAL (in) | 100 |

Hydrograph Report

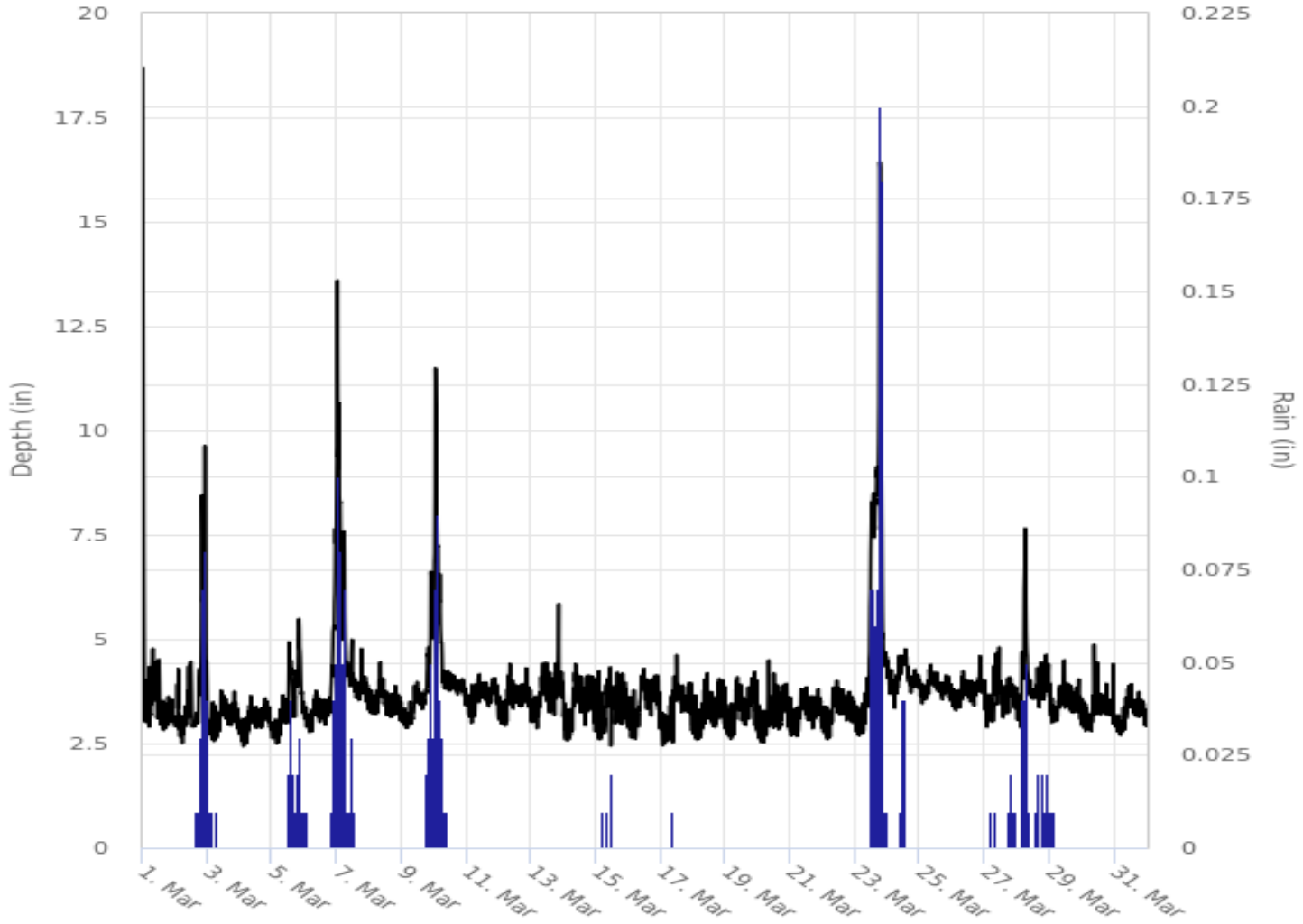
Ave_A_CSO

Flow Monitor
Ave_A_CSO

Pipe Height
21.00
in

Report Period
03/01/2024
To
03/31/2024

Legend
— DFINAL
— Rain
— VFINAL



Daily Tabular Report

03/01/2024 00:00 - 03/31/2024 23:59

Ave_A_CSOPipe: Round (21 in H), Silt0.00 in

| Date | Time | DFINAL (in) | | | | Rain (in) |
|------------|-------|-------------|-------|-------|------|-----------|
| | | Min | Time | Max | Avg | Total |
| 03/01/2024 | 15:25 | 2.76 | 00:00 | 20.38 | 3.77 | - |
| 03/02/2024 | 05:15 | 2.46 | 22:05 | 9.90 | 3.86 | 0.82 |
| 03/03/2024 | 04:55 | 2.50 | 19:10 | 4.29 | 3.11 | 0.04 |
| 03/04/2024 | 02:35 | 2.41 | 19:50 | 4.09 | 3.04 | - |
| 03/05/2024 | 03:25 | 2.46 | 19:55 | 6.24 | 3.53 | 0.54 |
| 03/06/2024 | 03:05 | 2.53 | 23:55 | 9.74 | 3.76 | 0.73 |
| 03/07/2024 | 23:05 | 3.11 | 00:25 | 16.57 | 4.88 | 1.23 |
| 03/08/2024 | 23:50 | 2.97 | 08:05 | 4.69 | 3.47 | - |
| 03/09/2024 | 03:15 | 2.74 | 21:25 | 6.83 | 3.70 | 0.67 |
| 03/10/2024 | 23:10 | 3.23 | 00:50 | 12.49 | 4.65 | 0.78 |
| 03/11/2024 | 03:40 | 2.94 | 08:35 | 4.53 | 3.61 | - |
| 03/12/2024 | 23:10 | 2.80 | 20:10 | 4.61 | 3.60 | - |
| 03/13/2024 | 23:45 | 2.65 | 20:10 | 6.54 | 3.73 | - |
| 03/14/2024 | 02:55 | 2.53 | 00:20 | 4.65 | 3.46 | - |
| 03/15/2024 | 11:00 | 2.27 | 02:00 | 7.32 | 3.44 | 0.07 |
| 03/16/2024 | 02:40 | 2.56 | 16:15 | 4.57 | 3.51 | - |
| 03/17/2024 | 08:40 | 2.33 | 11:50 | 4.79 | 3.34 | 0.02 |
| 03/18/2024 | 02:40 | 2.54 | 19:00 | 4.60 | 3.24 | - |
| 03/19/2024 | 03:40 | 2.56 | 04:35 | 4.62 | 3.37 | - |
| 03/20/2024 | 03:35 | 2.44 | 07:55 | 4.61 | 3.23 | - |
| 03/21/2024 | 04:45 | 2.62 | 09:40 | 4.30 | 3.25 | - |
| 03/22/2024 | 04:30 | 2.57 | 09:25 | 4.44 | 3.32 | - |
| 03/23/2024 | 03:00 | 2.59 | 18:30 | 16.60 | 5.71 | 2.46 |
| 03/24/2024 | 05:05 | 2.70 | 02:30 | 5.07 | 4.12 | 0.41 |
| 03/25/2024 | 02:35 | 3.27 | 10:35 | 4.77 | 3.88 | - |
| 03/26/2024 | 23:45 | 3.11 | 20:15 | 4.78 | 3.78 | - |
| 03/27/2024 | 01:40 | 2.76 | 10:35 | 4.86 | 3.70 | 0.09 |
| 03/28/2024 | 02:55 | 2.69 | 05:55 | 8.05 | 4.08 | 0.72 |
| 03/29/2024 | 03:05 | 2.89 | 10:45 | 4.69 | 3.52 | 0.02 |
| 03/30/2024 | 06:50 | 2.76 | 08:50 | 5.00 | 3.36 | - |
| 03/31/2024 | 04:30 | 2.65 | 10:00 | 4.87 | 3.26 | - |

03/01/2024 00:00 - 03/31/2024 23:59

| | DFINAL (in) | VFINAL (ft/s) | Rain (in) |
|---------|-------------|---------------|-----------|
| Total | | | 8.60 |
| Average | 3.69 | | |

CSO_ChlorineChamber

Site Commentary

SITE INFORMATION

| | |
|------|--------------------------------------|
| Pipe | Elliptical (24.38 in H x 24.62 in W) |
| Silt | 0.00 (in) |

OBSERVATIONS

Average flow depth, velocity, and quantity data observed during **Friday, 01 March 2024 to Sunday, 31 March 2024**, along with observed minimum and maximum data, are provided in the following table.

One (1) discharge occurred during the March 2024 metering period

| Observed Flow Conditions | | | |
|--------------------------|------------------------|------------------------|-------------------------|
| Item | DFINAL (in) | VFINAL (ft/s) | QFINAL (MGD - Total MG) |
| Average | 0.01 | 0.01 | 0.002 |
| Minimum | 0.00 | 0.00 | 0.000 |
| Maximum | 6.06 | 4.34 | 1.778 |
| Min Time | 03/31/2024 11:55:00 PM | 03/31/2024 11:55:00 PM | 03/31/2024 11:55:00 PM |
| Max Time | 03/07/2024 2:30:00 AM | 03/07/2024 2:30:00 AM | 03/07/2024 2:30:00 AM |

Based upon the quality and consistency of the observed flow depth and velocity data, the Continuity equation was used to calculate flow rate and quantities during the monitoring period.

Values in the Observed Flow Conditions are based on the five minute average.

Values in the graphical reports are based on the fifteen minutes average.

Values in the tabular report are based on the five minute average.

DATA UPTIME

Data uptime observed during **Friday, 01 March 2024 to Sunday, 31 March 2024** is provided in the following table:

| Percent Uptime | |
|-------------------------|-----|
| DFINAL (in) | 100 |
| VFINAL (ft/s) | 100 |
| QFINAL (MGD - Total MG) | 100 |

Hydrograph Report

CSO_ChlorineChamber

Flow Monitor
CSO_ChlorineChamber

Pipe Height
24.38
in

Report Period
03/01/2024
To
03/31/2024

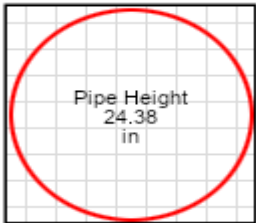
Legend
— DFINAL
— Rain
— VFINAL
— QFINAL



Scattergraph Report

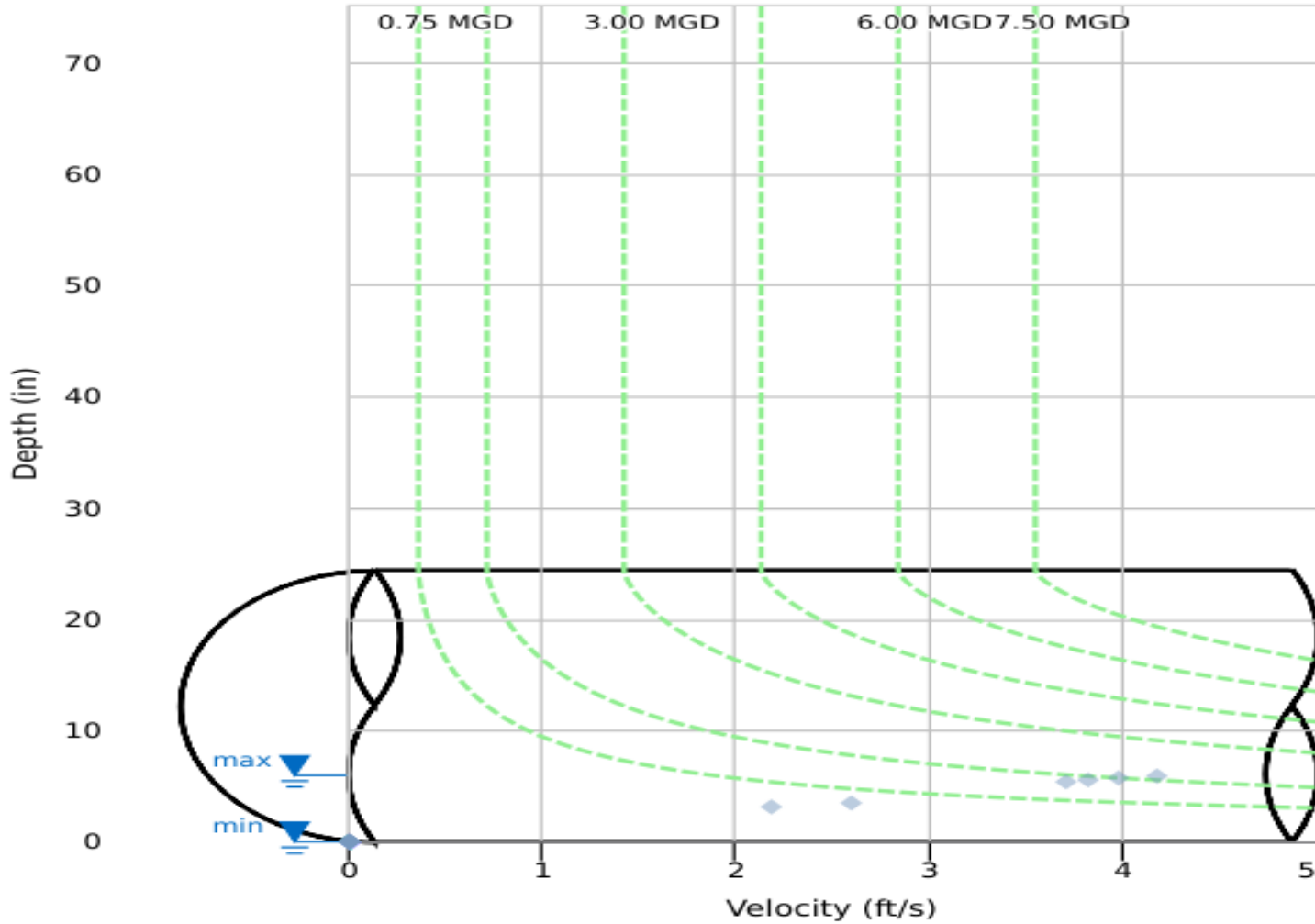
CSO_ChlorineChamber

Flow Monitor
CSO_ChlorineChamber



Report Period
03/01/2024
To
03/31/2024

Legend
○ DFINAL - VFINAL
- - Iso-Q™
▲ Min-Max Depth



Daily Tabular Report

03/01/2024 00:00 - 03/31/2024 23:59

CSO_ChlorineChamberPipe: Elliptical (24.38 in H x 24.62 in W), Silt0.00 in

| Date | DFINAL (in) | | | | | VFINAL (ft/s) | | | | | QFINAL (MGD - Total MG) | | | | | | Rain (in) |
|------------|-------------|------|-------|------|------|---------------|------|-------|------|------|-------------------------|-------|-------|-------|-------|-------|-----------|
| | Time | Min | Time | Max | Avg | Time | Min | Time | Max | Avg | Time | Min | Time | Max | Avg | Total | Total |
| 03/01/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/02/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.82 |
| 03/03/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.04 |
| 03/04/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/05/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.54 |
| 03/06/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.73 |
| 03/07/2024 | 00:00 | 0.00 | 02:30 | 6.06 | 0.30 | 00:00 | 0.00 | 02:30 | 4.34 | 0.21 | 00:00 | 0.000 | 02:30 | 1.778 | 0.076 | 0.076 | 1.23 |
| 03/08/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/09/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.67 |
| 03/10/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.78 |
| 03/11/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/12/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/13/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/14/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/15/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.07 |
| 03/16/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/17/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.02 |
| 03/18/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/19/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/20/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/21/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/22/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/23/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 2.46 |
| 03/24/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.41 |
| 03/25/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/26/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/27/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.09 |
| 03/28/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.72 |
| 03/29/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | 0.02 |
| 03/30/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |
| 03/31/2024 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.00 | 00:00 | 0.00 | 0.00 | 00:00 | 0.000 | 00:00 | 0.000 | 0.000 | 0.000 | - |

03/01/2024 00:00 - 03/31/2024 23:59

| | DFINAL (in) | VFINAL (ft/s) | QFINAL (MGD - Total MG) | Rain (in) |
|---------|-------------|---------------|-------------------------|-----------|
| Total | | | 0.076 | 8.60 |
| Average | 0.01 | 0.01 | 0.002 | |

Greenfield_CSO

Site Commentary

SITE INFORMATION

| | |
|------|-----------------|
| Pipe | Round (36 in H) |
| Silt | 0.00 (in) |

OBSERVATIONS

Average flow depth, velocity, and quantity data observed during **Friday, 01 March 2024 to Sunday, 31 March 2024**, along with observed minimum and maximum data, are provided in the following table.

One (1) overflow recorded during the March 2024 metering period.

| Observed Flow Conditions | | |
|--------------------------|------------------------|-----------------------|
| Item | DFINAL (in) | VFINAL (ft/s) |
| Average | 5.28 | 2.39 |
| Minimum | 1.60 | 0.78 |
| Maximum | 44.79 | 3.26 |
| Min Time | 03/01/2024 12:45:00 AM | 03/23/2024 8:10:00 PM |
| Max Time | 03/23/2024 6:55:00 PM | 03/07/2024 4:40:00 AM |

Based upon the quality and consistency of the observed flow depth and velocity data, the Continuity equation was used to calculate flow rate and quantities during the monitoring period.

Values in the Observed Flow Conditions are based on the five minute average.

Values in the graphical reports are based on the fifteen minutes average.

Values in the tabular report are based on the five minute average.

DATA UPTIME

Data uptime observed during **Friday, 01 March 2024 to Sunday, 31 March 2024** is provided in the following table:

| Percent Uptime | |
|----------------|-----|
| DFINAL (in) | 100 |
| VFINAL (ft/s) | 100 |

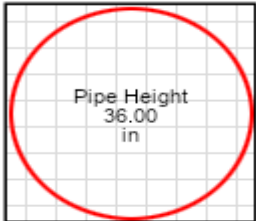
| | | | | | |
|-----------------|--------------|-----------------|---------------|---------------|-------------|
| GFLD_CSO | Total | Duration | Start | Stop | Rain |
| W1 | 9,563 | 1:20:00 | 3/23/24 18:25 | 3/23/24 19:45 | 2.46 |

| | | | |
|--------------|--------------|-------------|-------------|
| Total | Gals. | Hrs. | Rain |
| | 9,563 | 1:20:00 | 2.46 |

Hydrograph Report

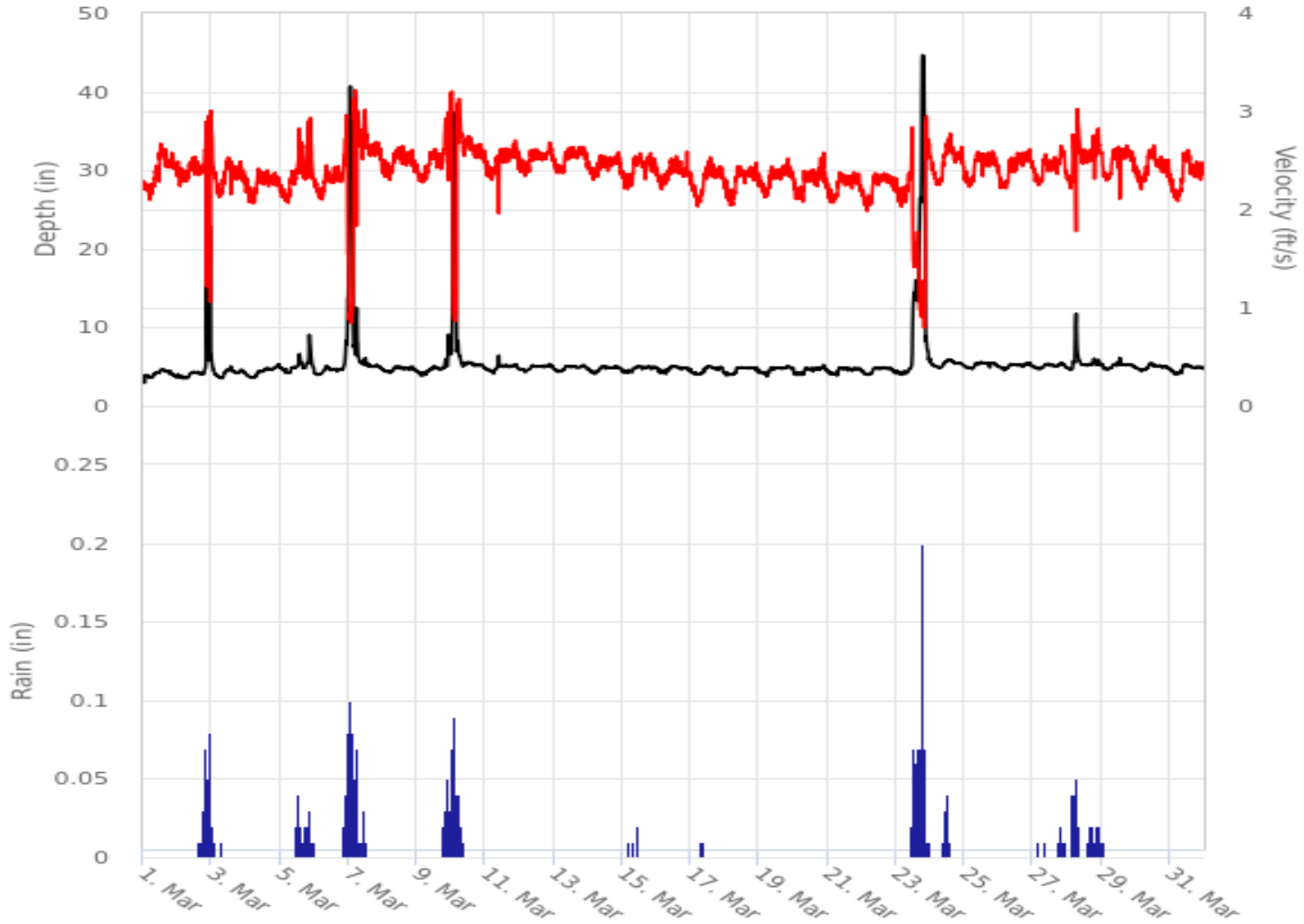
Greenfield_CSO

Flow Monitor
Greenfield_CSO



Report Period
03/01/2024
To
03/31/2024

Legend
— DFINAL
— Rain
— VFINAL



Scattergraph Report

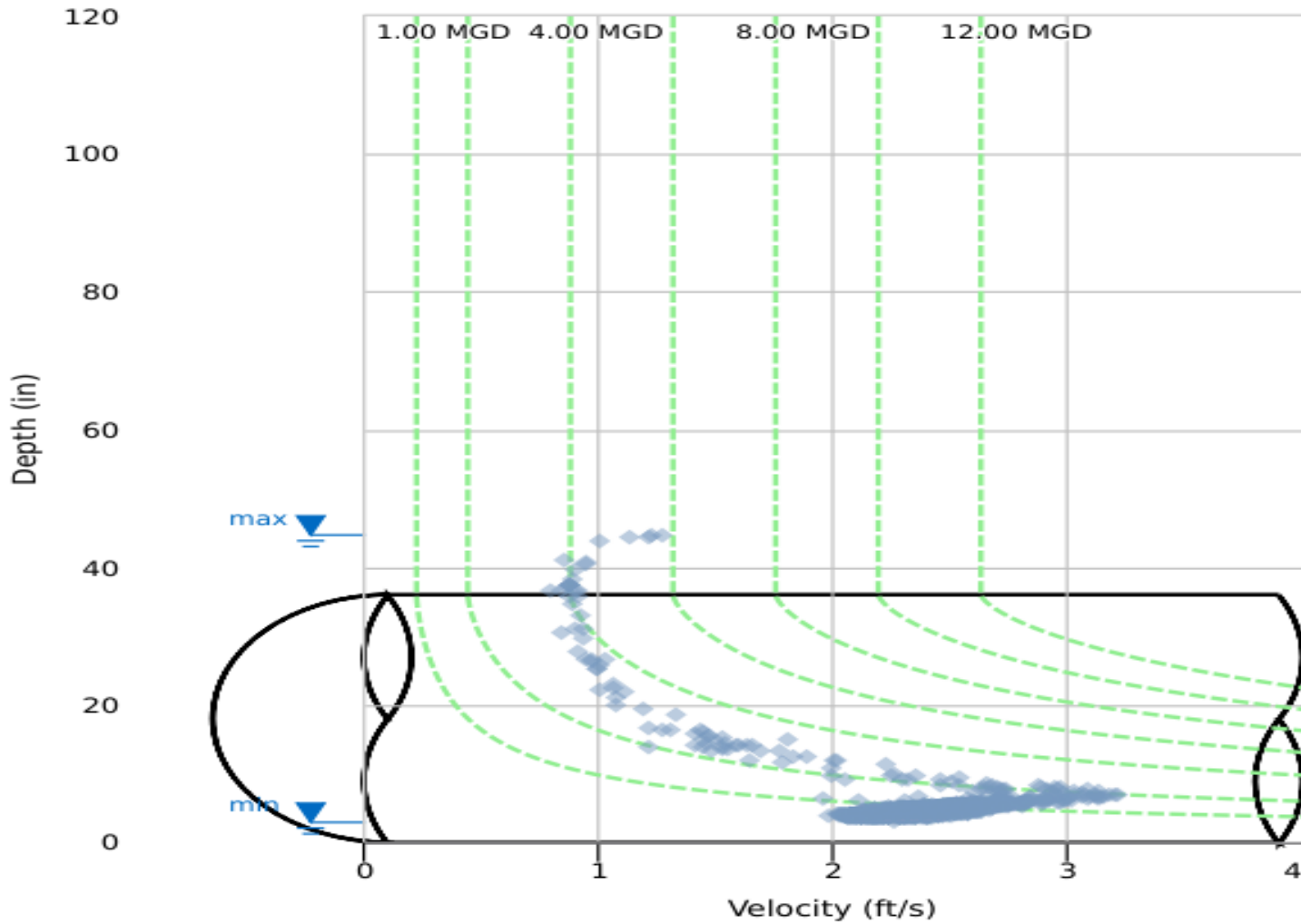
Greenfield_CSO

Flow Monitor
Greenfield_CSO

Pipe Height
36.00
in

Report Period
03/01/2024
To
03/31/2024

Legend
○ DFINAL - VFINAL
- - Iso-Q™
▼ Min-Max Depth



Daily Tabular Report

03/01/2024 00:00 - 03/31/2024 23:59

Greenfield_CSOPipe: Round (36 in H), Silt0.00 in

| Date | DFINAL (in) | | | | | VFINAL (ft/s) | | | | | Rain (in) |
|------------|-------------|------|-------|-------|-------|---------------|------|-------|------|------|-----------|
| | Time | Min | Time | Max | Avg | Time | Min | Time | Max | Avg | Total |
| 03/01/2024 | 00:45 | 1.60 | 13:45 | 4.69 | 4.08 | 04:50 | 2.07 | 12:20 | 2.71 | 2.39 | - |
| 03/02/2024 | 04:35 | 3.46 | 22:55 | 23.00 | 5.29 | 22:50 | 1.03 | 21:25 | 3.24 | 2.35 | 0.82 |
| 03/03/2024 | 07:15 | 3.47 | 00:00 | 5.97 | 4.26 | 13:35 | 1.56 | 00:00 | 2.85 | 2.36 | 0.04 |
| 03/04/2024 | 04:25 | 3.57 | 22:55 | 5.31 | 4.37 | 05:00 | 2.02 | 09:10 | 2.46 | 2.26 | - |
| 03/05/2024 | 06:50 | 4.15 | 20:35 | 12.79 | 5.12 | 20:35 | 1.04 | 21:00 | 3.16 | 2.38 | 0.54 |
| 03/06/2024 | 02:35 | 3.92 | 23:45 | 14.20 | 4.97 | 23:40 | 1.47 | 22:40 | 3.09 | 2.31 | 0.73 |
| 03/07/2024 | 23:45 | 4.62 | 01:10 | 41.44 | 9.32 | 01:50 | 0.83 | 04:40 | 3.26 | 2.43 | 1.23 |
| 03/08/2024 | 05:15 | 4.22 | 11:15 | 5.26 | 4.67 | 01:55 | 2.23 | 14:05 | 2.67 | 2.49 | - |
| 03/09/2024 | 03:55 | 3.50 | 22:10 | 10.36 | 4.87 | 22:45 | 1.68 | 23:45 | 3.17 | 2.52 | 0.67 |
| 03/10/2024 | 23:45 | 4.82 | 03:00 | 37.36 | 8.82 | 03:05 | 0.84 | 00:35 | 3.23 | 2.49 | 0.78 |
| 03/11/2024 | 05:45 | 3.99 | 09:35 | 8.50 | 4.90 | 09:35 | 1.06 | 21:10 | 2.79 | 2.49 | - |
| 03/12/2024 | 03:55 | 3.97 | 21:15 | 5.65 | 4.89 | 03:55 | 2.30 | 21:20 | 2.72 | 2.52 | - |
| 03/13/2024 | 02:55 | 4.02 | 21:30 | 5.18 | 4.82 | 07:15 | 2.33 | 18:20 | 2.68 | 2.52 | - |
| 03/14/2024 | 04:40 | 3.78 | 19:50 | 5.39 | 4.71 | 04:10 | 2.28 | 08:40 | 2.61 | 2.45 | - |
| 03/15/2024 | 06:50 | 3.94 | 13:30 | 5.27 | 4.74 | 06:40 | 2.14 | 20:00 | 2.65 | 2.42 | 0.07 |
| 03/16/2024 | 06:50 | 3.88 | 11:15 | 5.06 | 4.70 | 09:35 | 2.16 | 21:35 | 2.65 | 2.38 | - |
| 03/17/2024 | 04:55 | 3.95 | 11:55 | 5.05 | 4.55 | 04:55 | 2.00 | 13:55 | 2.60 | 2.30 | 0.02 |
| 03/18/2024 | 01:20 | 3.75 | 11:35 | 4.95 | 4.56 | 05:35 | 1.99 | 22:15 | 2.52 | 2.30 | - |
| 03/19/2024 | 05:30 | 3.56 | 20:30 | 5.13 | 4.62 | 04:55 | 2.10 | 20:25 | 2.52 | 2.32 | - |
| 03/20/2024 | 07:25 | 3.73 | 21:20 | 5.24 | 4.55 | 06:45 | 1.99 | 19:15 | 2.66 | 2.29 | - |
| 03/21/2024 | 05:55 | 3.73 | 14:00 | 4.91 | 4.54 | 06:40 | 2.02 | 18:50 | 2.41 | 2.25 | - |
| 03/22/2024 | 23:55 | 3.83 | 15:40 | 4.96 | 4.52 | 03:55 | 1.94 | 15:50 | 2.42 | 2.24 | - |
| 03/23/2024 | 04:15 | 3.90 | 18:55 | 44.79 | 12.01 | 20:10 | 0.78 | 21:35 | 2.98 | 1.93 | 2.46 |
| 03/24/2024 | 06:55 | 4.79 | 00:05 | 6.28 | 5.36 | 06:30 | 2.21 | 14:10 | 2.80 | 2.49 | 0.41 |
| 03/25/2024 | 05:30 | 4.56 | 13:05 | 5.94 | 5.21 | 03:40 | 2.13 | 19:45 | 2.64 | 2.44 | - |
| 03/26/2024 | 03:45 | 4.43 | 21:30 | 5.46 | 5.11 | 03:40 | 2.20 | 13:15 | 2.68 | 2.43 | - |
| 03/27/2024 | 04:05 | 4.65 | 20:00 | 5.53 | 5.07 | 04:15 | 2.22 | 19:50 | 2.67 | 2.44 | 0.09 |
| 03/28/2024 | 02:50 | 4.58 | 06:35 | 12.17 | 5.61 | 19:25 | 1.55 | 07:20 | 3.07 | 2.54 | 0.72 |
| 03/29/2024 | 01:55 | 4.53 | 13:05 | 7.25 | 5.11 | 13:05 | 1.32 | 14:10 | 2.69 | 2.50 | 0.02 |
| 03/30/2024 | 04:25 | 4.29 | 11:15 | 5.49 | 4.92 | 04:20 | 2.17 | 12:55 | 2.75 | 2.43 | - |
| 03/31/2024 | 03:50 | 3.67 | 10:10 | 5.32 | 4.73 | 06:00 | 2.04 | 12:50 | 2.66 | 2.35 | - |

03/01/2024 00:00 - 03/31/2024 23:59

| | DFINAL (in) | VFINAL (ft/s) | Rain (in) |
|---------|-------------|---------------|-----------|
| Total | | | 8.60 |
| Average | 5.32 | 2.39 | |

RG1

Site Commentary

SITE INFORMATION

Values in the graphical reports are based on the fifteen minutes average.

Values in the tabular report are based on the five minute average.

DATA UPTIME

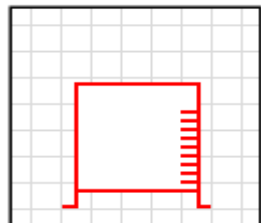
Data uptime observed during **Friday, 01 March 2024 to Sunday, 31 March 2024** is provided in the following table:

| Percent Uptime | |
|----------------|-----|
| RAINFINAL (in) | 100 |

Hydrograph Report

RG1

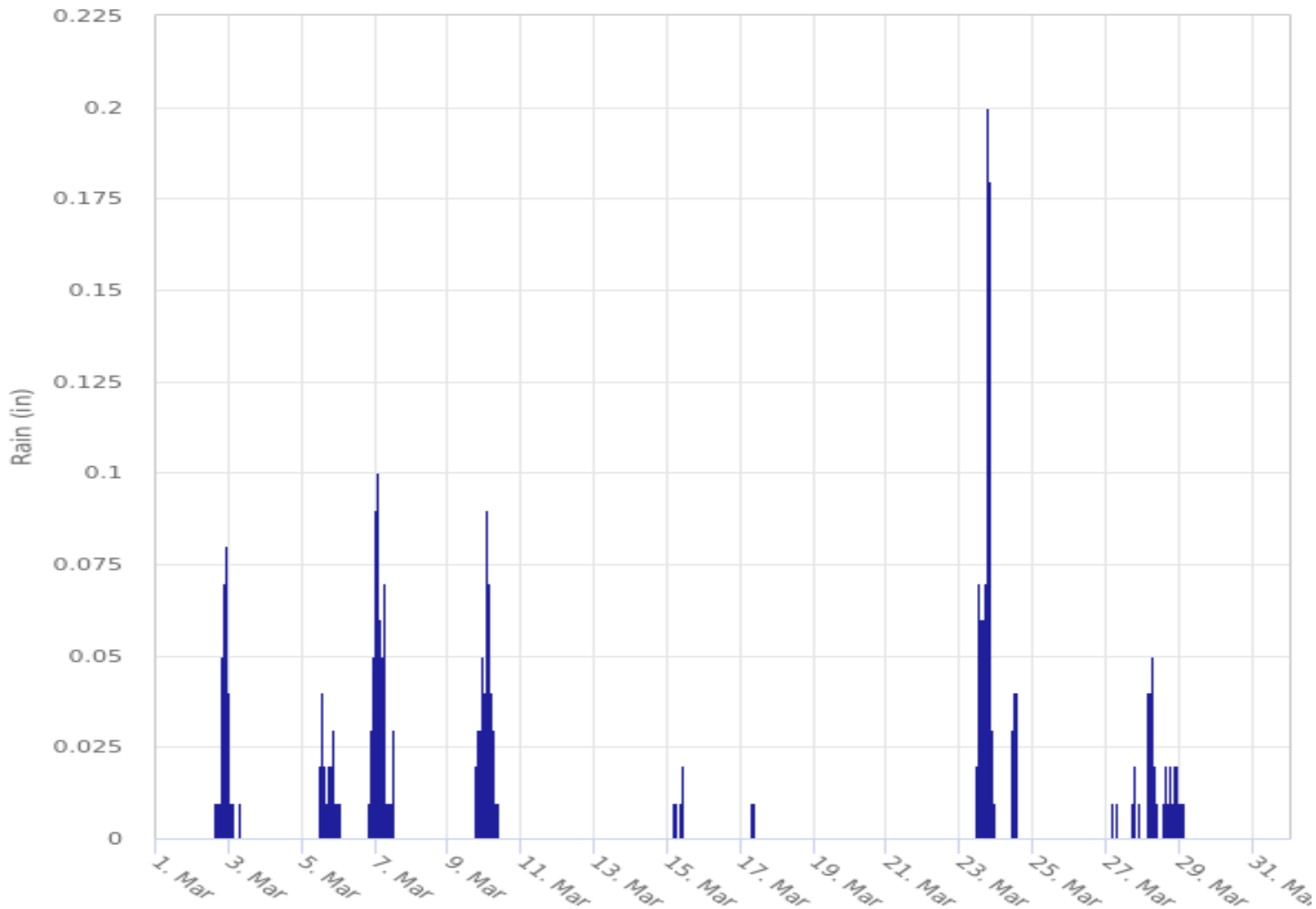
Rain Gauge
RG1



Report Period
03/01/2024
To
03/31/2024

Legend
— DFINAL
— Rain
— VFINAL

ABS ENVIRONMENTAL SERVICES



Daily Tabular Report

03/01/2024 00:00 - 03/31/2024 23:59

RG1RainGauge: Unknown (0 H x 0 W), Silt0.00

| Date | Rain (in) Total |
|------------|--------------------|
| 03/01/2024 | - |
| 03/02/2024 | 0.82 |
| 03/03/2024 | 0.04 |
| 03/04/2024 | - |
| 03/05/2024 | 0.54 |
| 03/06/2024 | 0.73 |
| 03/07/2024 | 1.23 |
| 03/08/2024 | - |
| 03/09/2024 | 0.67 |
| 03/10/2024 | 0.78 |
| 03/11/2024 | - |
| 03/12/2024 | - |
| 03/13/2024 | - |
| 03/14/2024 | - |
| 03/15/2024 | 0.07 |
| 03/16/2024 | - |
| 03/17/2024 | 0.02 |
| 03/18/2024 | - |
| 03/19/2024 | - |
| 03/20/2024 | - |
| 03/21/2024 | - |
| 03/22/2024 | - |
| 03/23/2024 | 2.46 |
| 03/24/2024 | 0.41 |
| 03/25/2024 | - |
| 03/26/2024 | - |
| 03/27/2024 | 0.09 |
| 03/28/2024 | 0.72 |
| 03/29/2024 | 0.02 |
| 03/30/2024 | - |
| 03/31/2024 | - |

03/01/2024 00:00 - 03/31/2024 23:59

| | Rain (in) |
|-------|-----------|
| Total | 8.60 |