

Montague, MA

# Montague, MA

## CSO\_ChlorineChamber

July – October 2022 Report Submitted to **Montague, MA**  
December 20, 2022



**ADS** ENVIRONMENTAL SERVICES



December 20, 2022

Chelsey Little, BSBS MPH  
Superintendent  
Montague WPCF

**SUBJECT: Montague, MA**

Dear Mrs. Little,

ADS is pleased to submit the report for the Montague, MA completed on behalf of Montague, MA. The metering was conducted at one (1) location. The study was conducted during the period of Friday, 01 July 2022 to Monday, 31 October 2022.

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, Michael Armes at 603-625-1212.

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 July 2022 to Monday, 31 October 2022



# Montague, MA

## Prepared For:

Chelsey Little, BSBS MPH  
Superintendent  
Montague WPCF

## Prepared By:



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

# Table of Contents

No table of contents entries found.

## 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 July 2022 to Monday, 31 October 2022**, along with observed minimum and maximum data, are provided in the following table.

One (1) overflow was recorded during the July – October 2022 metering period.

Observed Flow Conditions			
Item	DFINAL (in)	VFINAL (ft/s)	QFINAL (MGD - Total MG)
Average	0.00	0.00	0.000
Minimum	0.00	0.00	0.000
Maximum	6.36	3.23	1.311
Min Time	10/31/2022 11:55:00 PM	09/28/2022 11:55:00 PM	10/31/2022 11:55:00 PM
Max Time	07/19/2022 12:45:00 AM	07/19/2022 12:55:00 AM	07/19/2022 12:50:00 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 and data on the graphical reports are based on the none average.

#### DATA UPTIME

Data uptime observed during **Friday, 01 July 2022 to Monday, 31 October 2022** is provided in the following table:

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

<b>CSO_ChlorineChamber</b>	<b>Total</b>	<b>Duration</b>	<b>Start</b>	<b>Stop</b>	<b>Rain</b>
W1	29,000	1:50:00	7/19/22 0:05	7/19/22 1:55	0.36

	<b>Gals.</b>	<b>Hrs.</b>	<b>Rain</b>
<b>Total</b>	<b>29,000</b>	<b>1:50:00</b>	<b>0.36</b>

Comments: Report using USGSRG for the July metering period. The Montague RG was found to be clogged by ADS field.

# Hydrograph Report

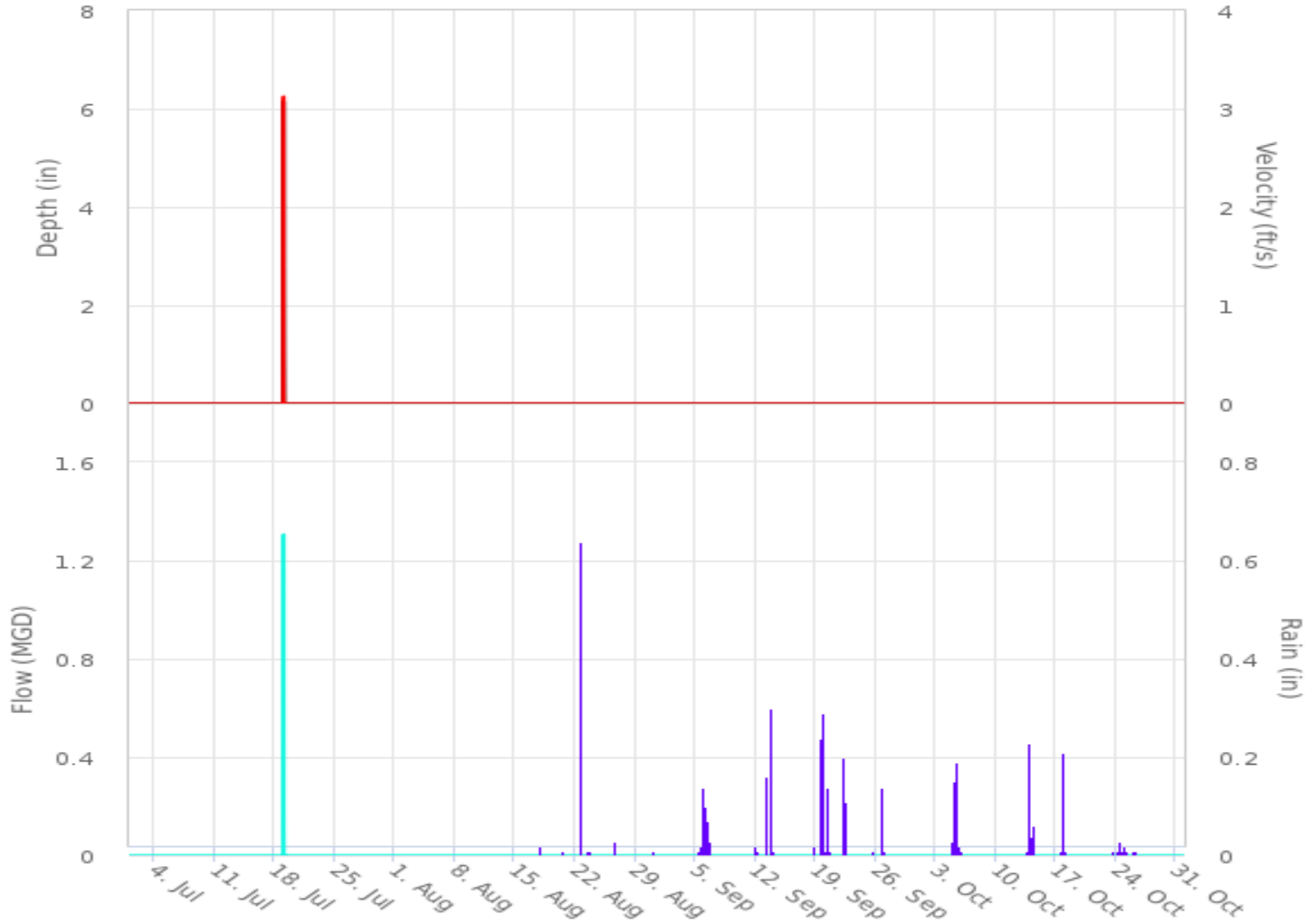
CSO\_ChlorineChamber

Flow Monitor  
CSO\_ChlorineChamber

Pipe Height  
24.38  
in

Report Period  
07/01/2022  
To  
10/31/2022

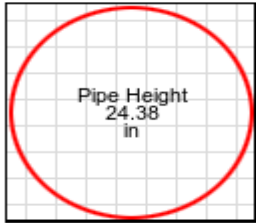
Legend  
— DFINAL  
— VFINAL  
— QFINAL  
— RAIN FINAL



# Scattergraph Report

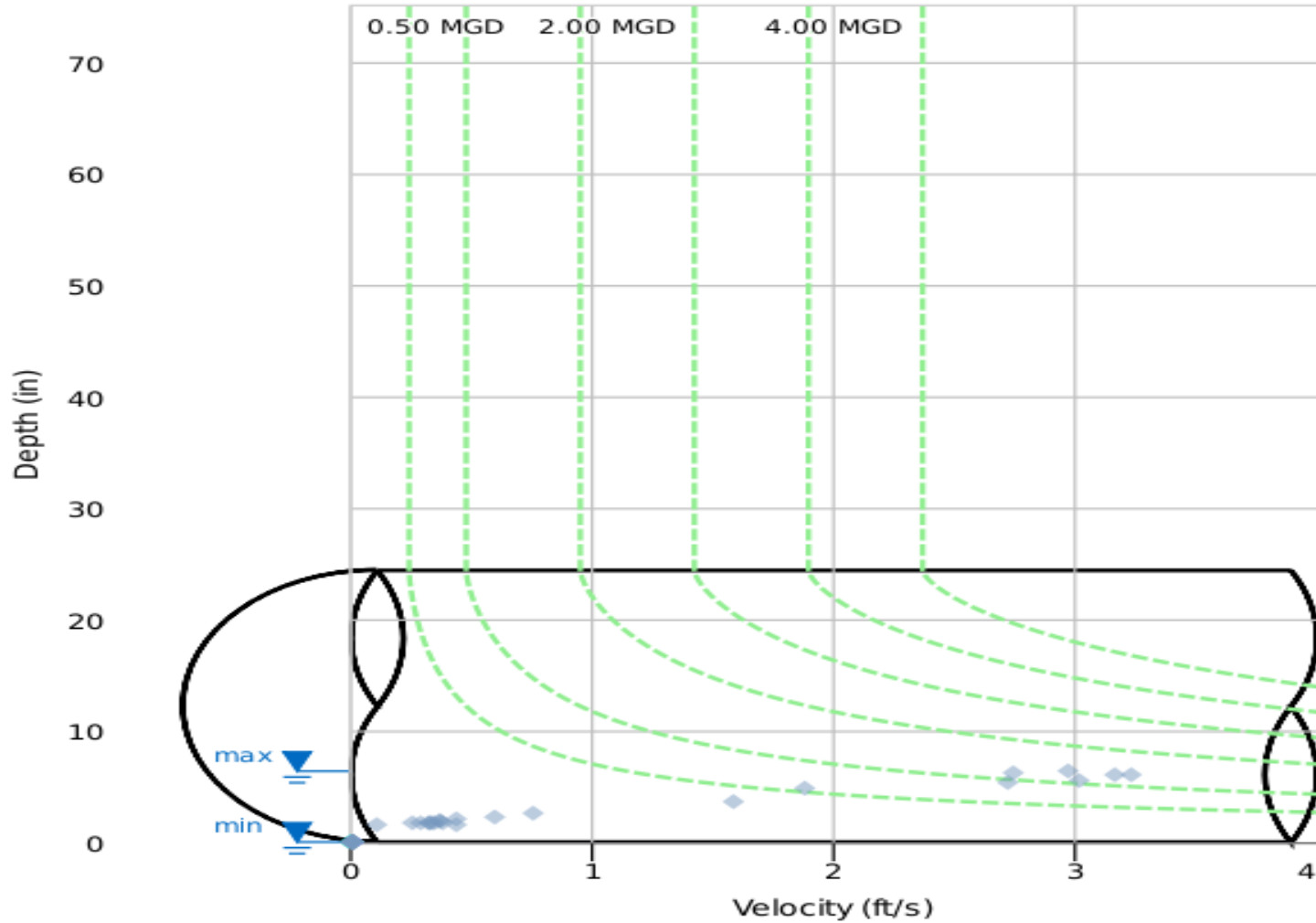
CSO\_ChlorineChamber

Flow Monitor  
CSO\_ChlorineChamber



Report Period  
07/01/2022  
To  
10/31/2022

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









# RGUSGS

## Site Commentary

### SITE INFORMATION

RainGauge	USGS Florida, MA Gauge.
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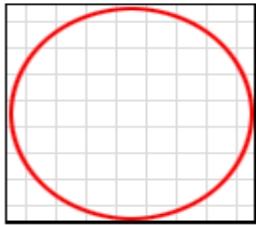
### OBSERVATIONS

Imported USGS rain data to account for the downtime at Montague RG01.

# Hydrograph Report

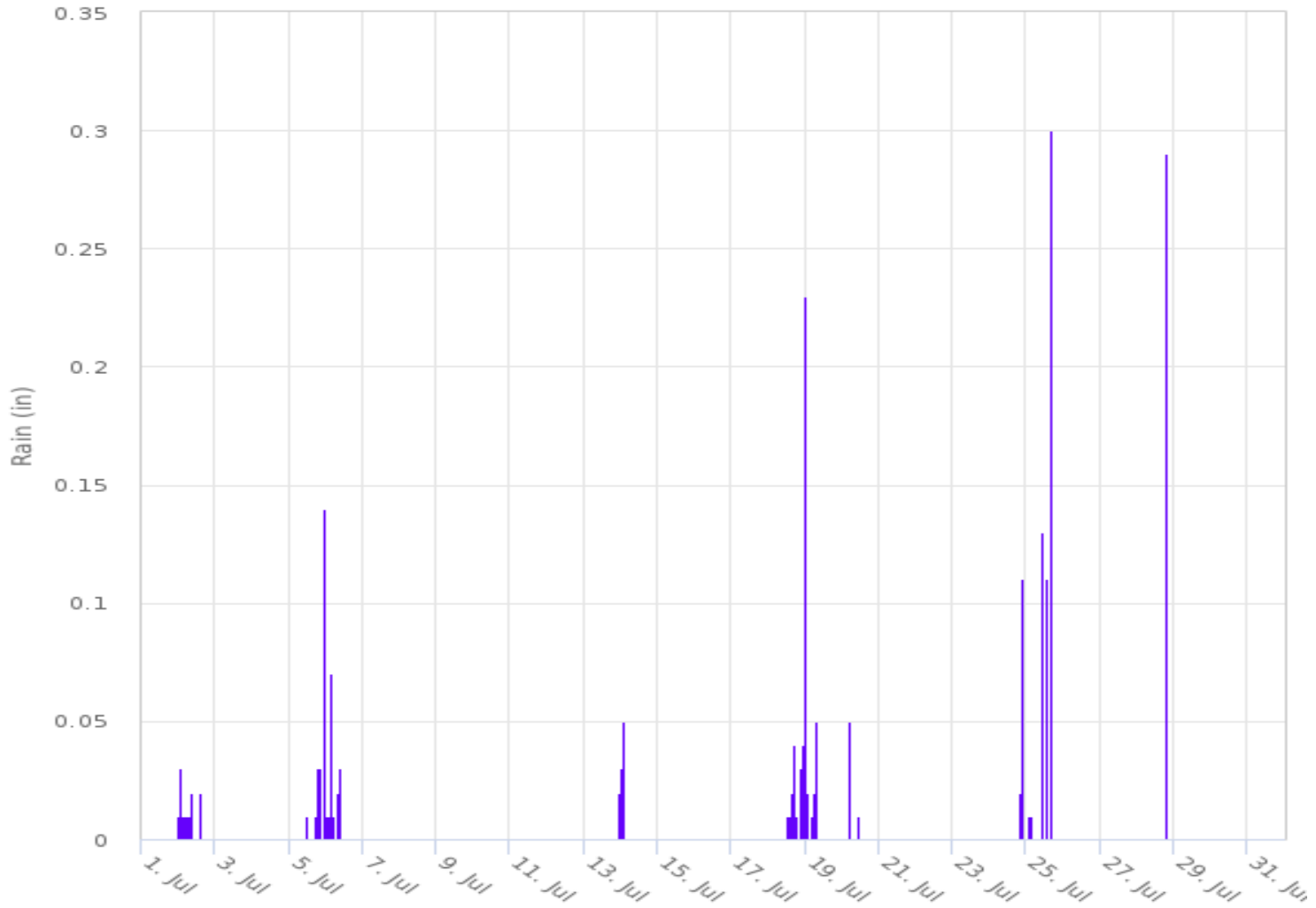
## RGUSGS

Rain Gauge  
**RGUSGS**



Report Period  
07/01/2022  
To  
07/31/2022

Legend  
— DFINAL  
— RAIN FINAL  
— VFINAL



## Daily Tabular Report

07/01/2022 00:00 - 07/31/2022 23:59

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

Date	RAIN FINAL (in) Total
07/01/2022	0.01
07/02/2022	0.28
07/03/2022	-
07/04/2022	-
07/05/2022	0.48
07/06/2022	0.17
07/07/2022	-
07/08/2022	-
07/09/2022	-
07/10/2022	-
07/11/2022	-
07/12/2022	-
07/13/2022	0.05
07/14/2022	0.16
07/15/2022	-
07/16/2022	-
07/17/2022	-
07/18/2022	0.86
07/19/2022	0.36
07/20/2022	0.11
07/21/2022	-
07/22/2022	-
07/23/2022	-
07/24/2022	0.15
07/25/2022	0.68
07/26/2022	-
07/27/2022	-
07/28/2022	0.29
07/29/2022	-
07/30/2022	-
07/31/2022	-

07/01/2022 00:00 - 07/31/2022 23:59

	DFINAL (in)	VFINAL (ft/s)	RAIN FINAL (in)
Total			3.60