



A Division of ADS LLC

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[www.adsenv.com](http://www.adsenv.com)

June 11, 2021

Chelsey Little, BSBS MPH  
Superintendent  
Montague WPCF

Dear Ms. Little,

ADS is pleased to submit the May 2021 report for the 2021 Flow Monitoring Project .

During the monitoring period the following quality assurance steps are taken to ensure the integrity of the data collected:

- **Measure Power Supply:** The monitor is powered by a dry cell battery pack. Power levels are recorded and battery packs replaced, if necessary. A separate battery provides back-up power to memory, which allows the primary battery to be replaced without the loss of data.
- **Confirm Monitor Synchronization:** The field crew and/or data analyst checks the flow monitor's clock for accuracy.
- **Upload and Review Data:** Data collected by the monitor is uploaded and reviewed by a data analyst. All readings are checked for consistency and screened for deviations in the flow patterns, which indicate system anomalies or equipment failure.

To facilitate review of the data beginning Saturday, May 1, 2021 through Monday, May 31, 2021, results have been provided in graphical, tabular and 5-minute Excel formats.

The flow data is presented graphically in the form of hydrographs and include depth, velocity, quantity and rain. Tables are provided in daily average format. Along with depth and velocity, these tables show the flow rate for each day, along with the daily minimum and maximums, the times they were observed, the total daily flow, and total flow for the month. The following explanation of terms may aid in interpretation of the tables and hydrographs.

**DEPTH** - Final calculated depth measurement (in inches)

**QUANTITY** - Final calculated flow rate (in MGD)

**VELOCITY** - Final calculated flow velocity (in feet per second)

**REPORT TOTAL** - Total volume of flow recorded for the indicated time period (in MG)

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, please contact the Project Manager, Michael Armes at 603-625-1212 or me at 256-975-4059.

Thank you for choosing ADS products and services to meet your flow monitoring needs.

Sincerely,  
ADS ENVIRONMENTAL SERVICES

Melissa Hygom  
Data Analyst



[An IDEX Fluid & Metering Business](#)

Accusonic  
ADS Environmental Services  
Hydra-Stop

## Site Commentary

### Site Information

<b>7th_L_CS0</b>	
Location:	7th Street at L Street

### Overview

The [hydrograph](#) for location 7th\_L\_CS0 shows depth levels and calculated flow values recorded during the monitoring period of Saturday, May 1, 2021 to Monday, May 31, 2021 .

[Daily longtables](#) displaying final quantities are also provided.

One overflow event occurred during the monitoring period.

### Observations

Average flow depth and quantity data observed during Saturday, May 1, 2021 to Monday, May 31, 2021 , along with observed minimum and maximum data, are provided in the following table.

<b>Observed Flow Conditions</b>		
Item	Depth (in)	Quantity (MGD)
Average	1.81	0.197
Minimum	1.20	0.082
Maximum	12.67	6.664
Time of Minimum	5/1/2021 5:25 AM	5/1/2021 5:25 AM
Time of Maximum	5/5/2021 3:25 AM	5/5/2021 3:25 AM

Please note the minimum and maximum flow rate recorded in this table may vary from those recorded on the daily and weekly tabular data. The minimum and maximum rates recorded on the daily and weekly tabular data are absolute versus average fifteen minute data. Graphical data reports are based on an hourly average.

### Data Quality

Data uptime observed during the Saturday, May 1, 2021 to the Monday, May 31, 2021 monitoring period is provided in the table below.

<b>Percent Uptime</b>	
Depth (in)	100

## May Overflow Report

<b>7th_L_CSO</b>	<b>Total</b>	<b>Duration</b>	<b>Start</b>	<b>Stop</b>	<b>Rain</b>
<b>W1</b>	5,588	1:25:00	5/5/21 2:05	5/5/21 3:30	0.28

	<b>Gals.</b>	<b>Hrs.</b>	<b>Rain</b>
<b>Total</b>	<b>5,588</b>	<b>1:25:00</b>	<b>0.28</b>

# Montague, MA

## Flow Monitoring Site Installation Report

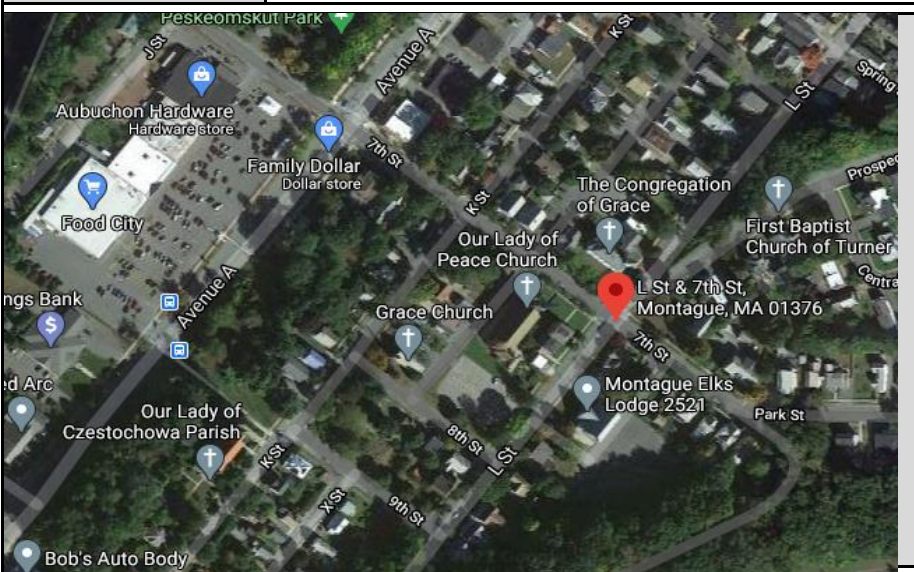


Site I.D.

7th\_L\_CSO

Site Address / Location:	7TH STREET AT L STREET
Site Access:	Drive- Detailed needed

Monitor Series	TRITON+
Pipe Size (H x W)	14.25x14.25



Location Type	Permanent
System Characteristics	Residential
Manhole #	N/A
Access	Drive
System Characteristics	Traffic
System Characteristics	Light



### Installation Information

Installation Date:	Thursday, February 11, 2021	Installation Type:	Doppler Standard Ring and Crank
Monitoring Location (Sensors):		Monitor Location:	Manhole
Sensors / Devices:	Peak Combo (CS4)	Pressure Sensor Range (psi)	

### Installation Confirmation:

Confirmation Time:	11:41:00 AM	Pipe Size (HxW)	14.25x14.25
Depth of Flow (Wet DOF) (in)	1.5	Range (Air DOF) (in)	
Downlooker Physical Offset (in)		Measurement Confidence (in)	0.25"
Peak Velocity (fps)	2.5	Velocity Sensor Offset (in)	N/A
Silt (in)	0	Silt Type	N/A

Hydraulic Comments:  
Slow

### Manhole / Pipe Information:

Manhole Depth (Approx. FT):	6	Manhole Configuration	Common Trench
Manhole Material:	Concrete	Manhole Condition:	Good
Manhole Opening Diameter (in)	24	Manhole Diameter (Approx.):	24
Manhole Cover	Concealed	Manhole Frame	Normal
Active Drop Connections	No	Air Quality:	Good
Pipe Material	PVC	Pipe Condition:	Good

### Communication Information:

Communication Type	Wireless	Antenna Location	Drilled Pavement / Concrete
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### Additional Site Info. / Comments:

N. 42.60349 W. -72.55722 S / N: 64109 I/P: 166.219.169.91 Site Overflows at Depth of 8.0 Inches

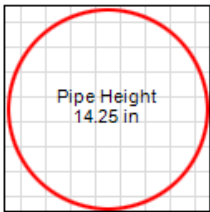


ADS Project Name:	Montague, MA
ADS Project Number:	

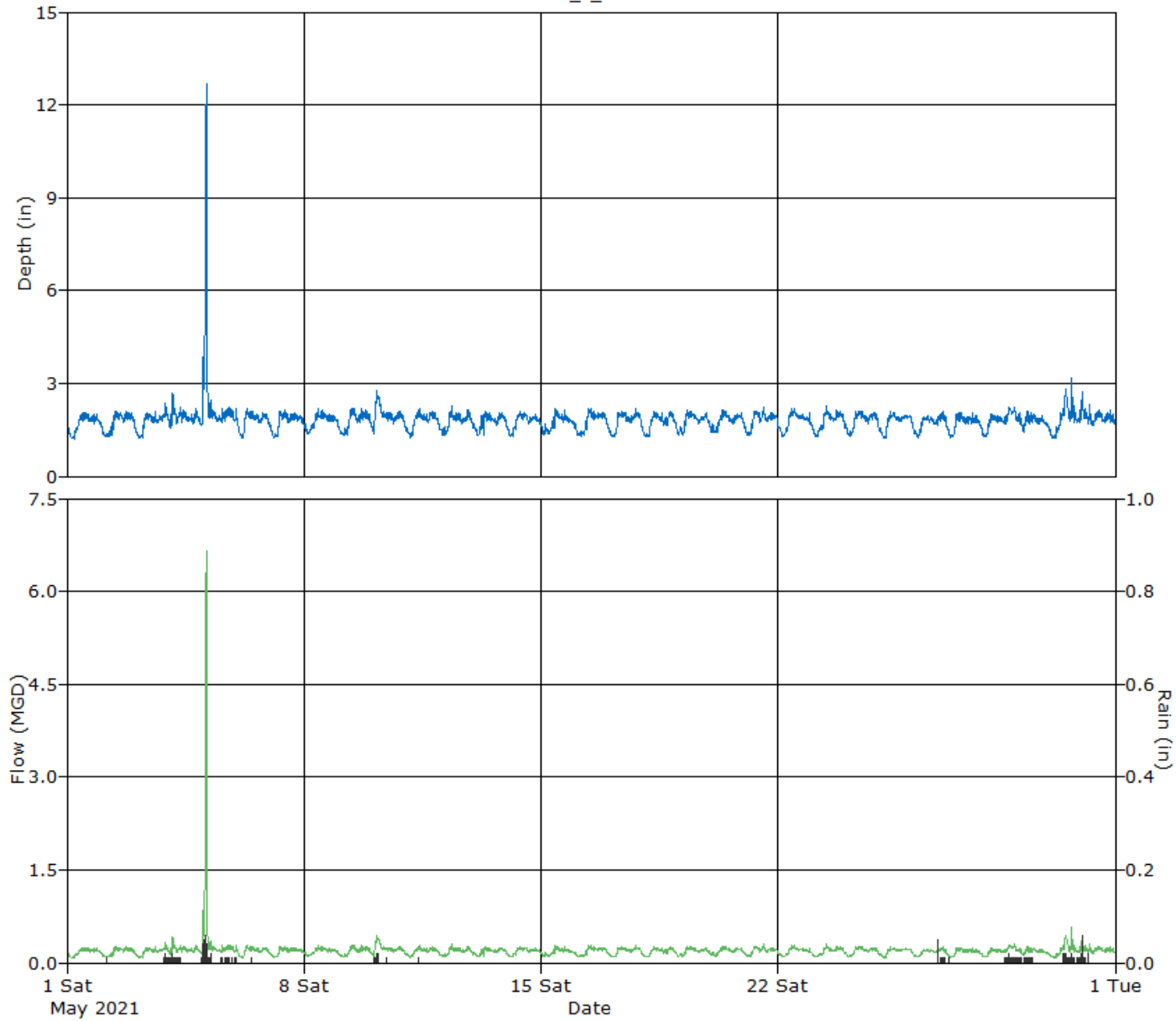
# HYDROGRAPH REPORT

7th\_L\_CSO

Flow Monitor  
**7th\_L\_CSO**



Report Period  
5/1/2021  
To  
5/31/2021





## Daily Tabular Report

Date	Depth (in)						Quantity (MGD - Total MG)						Rain (in)						
	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	
05/01/2021	05:25	1.20	10:55	2.05	1.71		05:25	0.082	10:55	0.243	0.172	0.172							
05/02/2021	04:15	1.27	17:55	2.09	1.73		04:15	0.091	17:55	0.253	0.176	0.176							0.01
05/03/2021	06:00	1.23	21:40	2.36	1.75		06:00	0.085	21:40	0.322	0.180	0.180							0.18
05/04/2021	01:25	1.54	03:05	2.67	1.91		01:25	0.135	03:05	0.410	0.212	0.212							0.33
05/05/2021	13:55	1.73	03:25	12.67	2.52		13:55	0.171	03:25	6.664	0.500	0.500							1.09
05/06/2021	04:35	1.24	07:30	2.18	1.80		04:35	0.088	07:30	0.275	0.190	0.190							0.01
05/07/2021	02:35	1.24	10:20	2.12	1.76		02:35	0.088	10:20	0.259	0.181	0.181							
05/08/2021	02:45	1.35	10:00	2.21	1.79		02:45	0.104	10:00	0.281	0.187	0.187							
05/09/2021	04:05	1.34	11:25	2.19	1.77		04:05	0.102	11:25	0.276	0.185	0.185							
05/10/2021	01:55	1.38	04:00	2.75	1.97		01:55	0.109	04:00	0.434	0.228	0.228							0.36
05/11/2021	03:50	1.25	10:10	2.18	1.78		03:50	0.089	10:10	0.274	0.186	0.186							0.01
05/12/2021	02:45	1.34	09:20	2.27	1.77		02:45	0.102	09:20	0.298	0.184	0.184							
05/13/2021	07:30	1.31	08:45	2.08	1.78		07:30	0.098	08:45	0.251	0.184	0.184							
05/14/2021	04:25	1.29	09:50	2.07	1.77		04:25	0.095	09:50	0.248	0.182	0.182							
05/15/2021	02:10	1.34	10:25	2.19	1.73		02:10	0.103	10:25	0.278	0.175	0.175							
05/16/2021	05:15	1.27	11:50	2.19	1.76		05:15	0.092	11:50	0.278	0.183	0.183							
05/17/2021	02:50	1.27	19:50	2.18	1.77		02:50	0.092	19:50	0.276	0.185	0.185							
05/18/2021	04:00	1.27	20:05	2.10	1.75		04:00	0.091	20:05	0.256	0.180	0.180							
05/19/2021	05:20	1.33	07:50	2.12	1.78		05:20	0.100	07:50	0.260	0.184	0.184							
05/20/2021	04:30	1.40	09:25	2.13	1.79		04:30	0.111	09:25	0.262	0.188	0.188							
05/21/2021	03:25	1.33	14:45	2.25	1.81		03:25	0.100	14:45	0.293	0.191	0.191							
05/22/2021	04:10	1.29	10:25	2.20	1.78		04:10	0.095	10:25	0.281	0.186	0.186							
05/23/2021	04:40	1.28	10:50	2.28	1.77		04:40	0.093	10:50	0.302	0.185	0.185							
05/24/2021	04:05	1.26	11:10	2.11	1.80		04:05	0.090	11:10	0.257	0.189	0.189							
05/25/2021	05:05	1.23	08:25	2.08	1.76		05:05	0.086	08:25	0.249	0.181	0.181							
05/26/2021	04:00	1.26	21:35	2.10	1.72		04:00	0.090	21:35	0.256	0.173	0.173							0.16
05/27/2021	03:10	1.24	09:20	2.07	1.71		03:10	0.087	09:20	0.247	0.171	0.171							0.01
05/28/2021	03:20	1.27	20:25	2.21	1.78		03:20	0.092	20:25	0.283	0.186	0.186							0.52
05/29/2021	06:55	1.43	00:15	2.25	1.81		06:55	0.117	00:15	0.293	0.189	0.189							0.39
05/30/2021	05:30	1.23	16:55	3.17	1.83		05:30	0.086	16:55	0.577	0.202	0.202							0.64
05/31/2021	08:10	1.63	00:55	2.73	1.91		08:10	0.152	00:55	0.428	0.213	0.213							0.27

## Report Summary For The Period 05/01/2021 - 05/31/2021

	Depth (in)	Quantity (MGD - Total MG)	Rain (in)
Total		6.108	3.98
Avg	1.81	0.197	

## Site Commentary

### Site Information

Ave_A_CSO	
Location:	7th Street at L Street

### Overview

The [hydrograph](#) for location Ave\_A\_CSO shows depth levels and calculated flow values recorded during the monitoring period of Saturday, May 1, 2021 to Monday, May 31, 2021 .

[Daily longtables](#) displaying final quantities are also provided.

No overflow events occurred during the monitoring period.

### Observations

Average flow depth and quantity data observed during Saturday, May 1, 2021 to Monday, May 31, 2021 , along with observed minimum and maximum data, are provided in the following table.

Observed Flow Conditions		
Item	Depth (in)	Quantity (MGD)
Average	2.98	0.744
Minimum	1.93	0.292
Maximum	17.44	18.469
Time of Minimum	5/16/2021 2:55 AM	5/16/2021 2:55 AM
Time of Maximum	5/5/2021 2:10 AM	5/5/2021 2:10 AM

Please note the minimum and maximum flow rate recorded in this table may vary from those recorded on the daily and weekly tabular data. The minimum and maximum rates recorded on the daily and weekly tabular data are absolute versus average fifteen minute data. Graphical data reports are based on an hourly average.

### Data Quality

Data uptime observed during the Saturday, May 1, 2021 to the Monday, May 31, 2021 monitoring period is provided in the table below.

Percent Uptime	
Depth (in)	100



# Montague, MA

## Flow Monitoring Site Installation Report



### Site I.D.

## Ave\_A\_CSO

Site Address / Location:	250 Avenue A	Monitor Series	ECHO	Location Type	Permanent
Site Access:	Drive- Detailed needed	Pipe Size (H x W)	21x21	Pipe Shape	Circular



Manhole #	N/A	System Characteristics	Residential
Access	Drive		Traffic
			Light



Installation Information	
Installation Date:	Thursday, February 11, 2021
Monitoring Location (Sensors):	Manhole
Sensors / Devices:	Peak Combo (CS4)
Installation Type:	Level Only
Monitor Location:	Manhole
Pressure Sensor Range (psi)	

Installation Confirmation:	
Confirmation Time:	11:15:00 AM
Depth of Flow (Wet DOF) (in)	0.5
Downlooker Physical Offset (in)	
Peak Velocity (fps)	
Silt (in)	0
Pipe Size (HxW)	21x21
Range (Air DOF) (in)	
Measurement Confidence (in)	0.25"
Velocity Sensor Offset (in)	N/A
Silt Type	N/A

Hydraulic Comments:  
Slow

Manhole / Pipe Information:	
Manhole Depth (Approx. FT):	10.75
Manhole Material:	Concrete
Manhole Opening Diameter (in)	24
Manhole Cover	Concealed
Active Drop Connections	No
Pipe Material	PVC
Manhole Configuration	Common Trench
Manhole Condition:	Good
Manhole Diameter (Approx.):	24
Manhole Frame	Normal
Air Quality:	Good
Pipe Condition:	Good

Communication Information:	
Communication Type	Wireless
Antenna Location	Drilled Pavement / Concrete

**Additional Site Info. / Comments:**  
N. 42.60422 W. -72.56094 S /N: 1729 I/P: 107.80.17.199 Site Overflows at Depth of 27.0 Inches

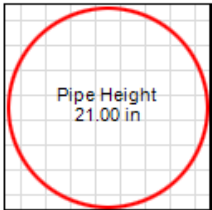


ADS Project Name:	Montague, MA
ADS Project Number:	

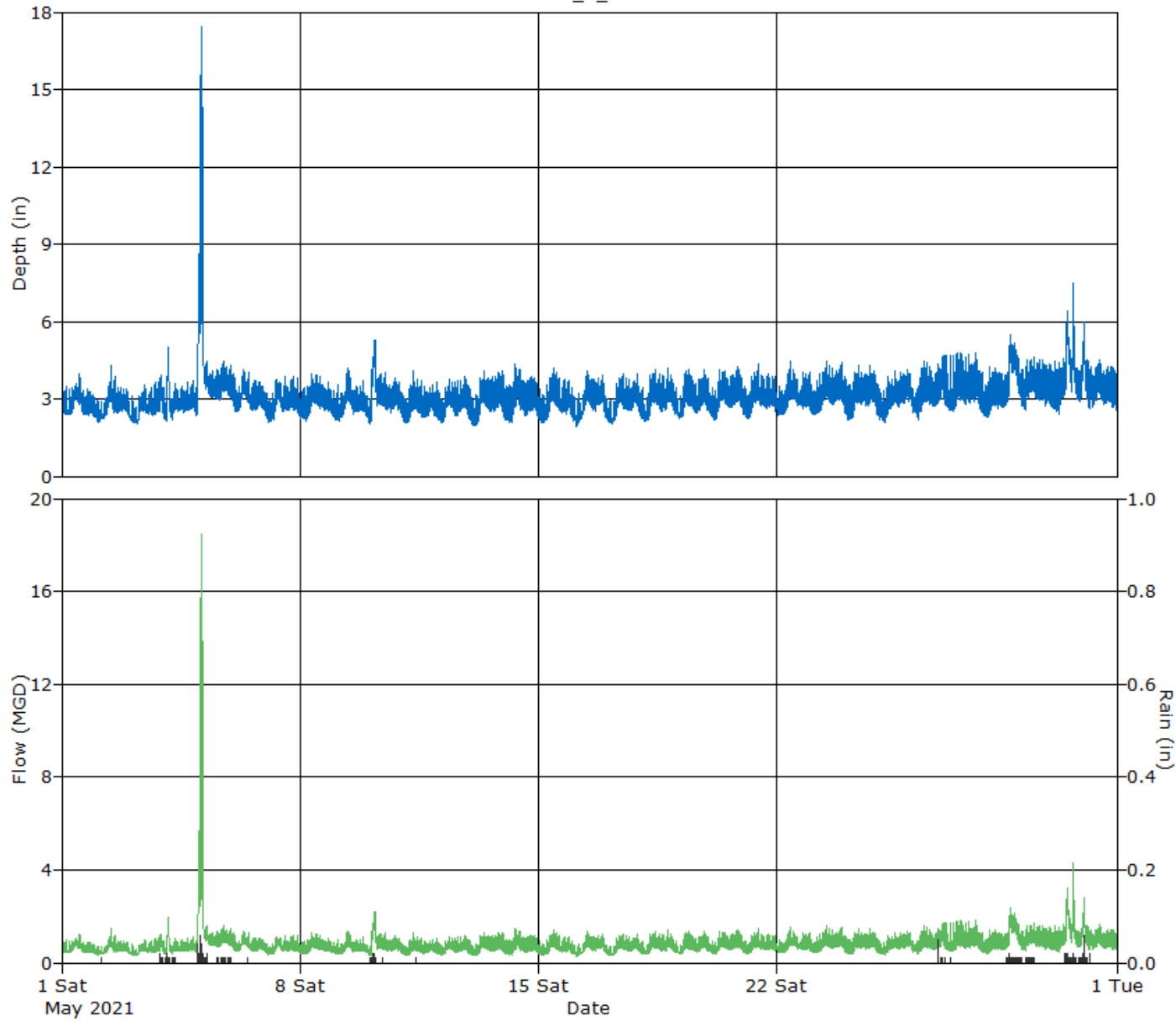
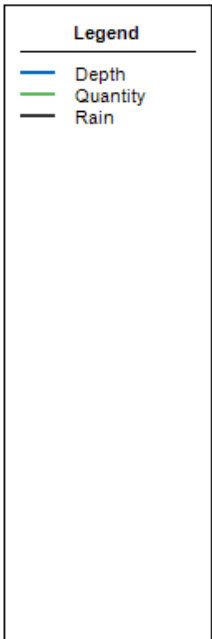
# HYDROGRAPH REPORT

Ave\_A\_CSO

Flow Monitor  
**Ave\_A\_CSO**



Report Period  
5/1/2021  
To  
5/31/2021



## Daily Tabular Report

Date	Depth (in)						Quantity (MGD - Total MG)						Rain (in)						
	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	
05/01/2021	23:15	2.28	12:25	3.98	2.69		23:15	0.408	12:25	1.254	0.583	0.583							
05/02/2021	02:10	2.08	10:25	4.29	2.66		02:10	0.339	10:25	1.455	0.571	0.571							0.01
05/03/2021	05:40	2.05	22:00	3.94	2.58		05:40	0.329	22:00	1.231	0.538	0.538							0.18
05/04/2021	02:15	2.12	03:10	4.98	2.76		02:15	0.352	03:10	1.954	0.619	0.619							0.33
05/05/2021	15:00	2.95	02:10	17.44	4.33		15:00	0.691	02:10	18.469	1.835	1.835							1.09
05/06/2021	23:50	2.42	08:15	4.12	2.94		23:50	0.465	08:15	1.343	0.694	0.694							0.01
05/07/2021	02:10	2.10	19:25	3.86	2.75		02:10	0.346	19:25	1.179	0.610	0.610							
05/08/2021	03:55	2.14	08:00	4.00	2.84		03:55	0.361	08:00	1.265	0.652	0.652							
05/09/2021	04:10	2.15	09:35	4.17	2.70		04:10	0.362	09:35	1.376	0.589	0.589							
05/10/2021	01:20	2.03	05:10	5.29	3.04		01:20	0.324	05:10	2.203	0.763	0.763							0.36
05/11/2021	03:35	2.06	08:15	4.08	2.64		03:35	0.332	08:15	1.314	0.562	0.562							0.01
05/12/2021	03:40	2.08	20:05	3.86	2.71		03:40	0.340	20:05	1.184	0.591	0.591							
05/13/2021	04:05	1.98	22:35	4.08	2.85		04:05	0.307	22:35	1.319	0.666	0.666							
05/14/2021	03:55	2.09	07:50	4.33	2.89		03:55	0.343	07:50	1.480	0.682	0.682							
05/15/2021	02:30	2.08	11:15	4.21	2.72		02:30	0.340	11:15	1.403	0.601	0.601							
05/16/2021	02:55	1.93	10:30	4.11	2.74		02:55	0.292	10:30	1.335	0.607	0.607							
05/17/2021	04:20	2.05	12:05	3.97	2.72		04:20	0.329	12:05	1.249	0.598	0.598							
05/18/2021	03:05	2.15	19:45	4.21	2.83		03:05	0.362	19:45	1.403	0.649	0.649							
05/19/2021	03:35	2.26	20:50	4.12	2.81		03:35	0.402	20:50	1.344	0.637	0.637							
05/20/2021	03:55	2.20	20:20	4.26	2.90		03:55	0.380	20:20	1.435	0.683	0.683							
05/21/2021	02:55	2.22	11:35	4.35	2.91		02:55	0.387	11:35	1.495	0.682	0.682							
05/22/2021	01:15	2.37	09:50	4.44	2.93		01:15	0.442	09:50	1.560	0.690	0.690							
05/23/2021	02:55	2.38	11:10	4.46	3.06		02:55	0.448	11:10	1.571	0.757	0.757							
05/24/2021	02:30	2.18	17:50	4.28	2.96		02:30	0.374	17:50	1.445	0.712	0.712							
05/25/2021	05:00	2.09	20:15	4.14	2.91		05:00	0.344	20:15	1.357	0.686	0.686							
05/26/2021	04:10	2.19	22:50	4.69	3.10		04:10	0.379	22:50	1.740	0.781	0.781							0.16
05/27/2021	04:25	2.51	20:50	4.79	3.26		04:25	0.498	20:50	1.811	0.866	0.866							0.01
05/28/2021	05:35	2.28	20:30	5.48	3.29		05:35	0.409	20:30	2.361	0.904	0.904							0.52
05/29/2021	07:25	2.58	00:20	5.16	3.59		07:25	0.529	00:20	2.097	1.047	1.047							0.39
05/30/2021	07:45	2.42	17:05	7.46	3.88		07:45	0.463	17:05	4.310	1.253	1.253							0.64
05/31/2021	23:55	2.52	01:00	5.98	3.44		23:55	0.504	01:00	2.808	0.968	0.967							0.27

## Report Summary For The Period 05/01/2021 - 05/31/2021

	Depth (in)	Quantity (MGD - Total MG)	Rain (in)
Total		23.073	3.98
Avg	2.98	0.744	

## Site Commentary

### Site Information

<b>Greenfield_M1</b>	
Location:	Greenfield Road - CSO

### Overview

The [hydrograph](#) for location Greenfield\_M1 shows depth levels and calculated flow values recorded during the monitoring period of Saturday, May 1, 2021 to Monday, May 31, 2021 .

[Daily longtables](#) displaying final quantities are also provided.

One overflow event occurred during the monitoring period.

### Observations

Average flow depth and quantity data observed during Saturday, May 1, 2021 to Monday, May 31, 2021 , along with observed minimum and maximum data, are provided in the following table.

<b>Observed Flow Conditions</b>		
Item	Depth (in)	Quantity (MGD)
Average	3.73	0.375
Minimum	2.25	0.000
Maximum	44.56	4.434
Time of Minimum	5/31/2021 5:40 AM	5/31/2021 11:55 PM
Time of Maximum	5/5/2021 2:58 AM	5/5/2021 3:04 AM

Please note the minimum and maximum flow rate recorded in this table may vary from those recorded on the daily and weekly tabular data. The minimum and maximum rates recorded on the daily and weekly tabular data are absolute versus average fifteen minute data. Graphical data reports are based on an hourly average.

### Data Quality

Data uptime observed during the Saturday, May 1, 2021 to the Monday, May 31, 2021 monitoring period is provided in the table below.

<b>Percent Uptime</b>	
Depth (in)	100

## May Overflow Report

<b>GFLD_CSO</b>	<b>Total</b>	<b>Duration</b>	<b>Start</b>	<b>Stop</b>	<b>Rain</b>
W1	7,176	1:17:00	5/5/21 2:48	5/5/21 4:05	0.16

	<b>Gals.</b>	<b>Hrs.</b>	<b>Rain</b>
<b>Total</b>	<b>7,176</b>	<b>1:17:00</b>	<b>0.16</b>



# Montague, MA

## Flow Monitoring Site Installation Report



# Site I.D.

## Greenfield\_M1

Site Address / Location:	GREENFIELD ROAD - CSO	Monitor Series	Location Type
Site Access:	Drive	TRITON+	Permanent
		Pipe Size (H x W)	Pipe Shape
		36x36	Circular



Manhole #	System Characteristics
N/A	Residential
Access	Traffic
Drive	Light



### Installation Information

Installation Date:	Installation Type:
Thursday, February 11, 2021	Doppler Standard Ring and Crank
Monitoring Location (Sensors):	Monitor Location:
	Manhole
Sensors / Devices:	Pressure Sensor Range (psi)
Peak Combo (CS4)	

### Installation Confirmation:

Confirmation Time:	Pipe Size (HxW)
10:21:00 AM	36x36
Depth of Flow (Wet DOF) (in)	Range (Air DOF) (in)
4.63	
Downlooker Physical Offset (in)	Measurement Confidence (in)
	0.25"
Peak Velocity (fps)	Velocity Sensor Offset (in)
2.5	N/A
Silt (in)	Silt Type
0	N/A

### Hydraulic Comments:

Slow

### Manhole / Pipe Information:

Manhole Depth (Approx. FT):	Manhole Configuration
14	Common Trench
Manhole Material:	Manhole Condition:
Concrete	Good
Manhole Opening Diameter (in)	Manhole Diameter (Approx.):
24	24
Manhole Cover	Manhole Frame
Concealed	Normal
Active Drop Connections	Air Quality:
No	Good
Pipe Material	Pipe Condition:
Concrete	Good

### Communication Information:

Communication Type	Antenna Location
Wireless	Drilled Pavement / Concrete

### Additional Site Info. / Comments:

N. 42.58211 W. -72.57486 S / N: 52143 I/P: 107.80.17.22 Site Overflows at Depth of 42.0 Inches

ADS Project Name:	Montague, MA
ADS Project Number:	

# HYDROGRAPH REPORT

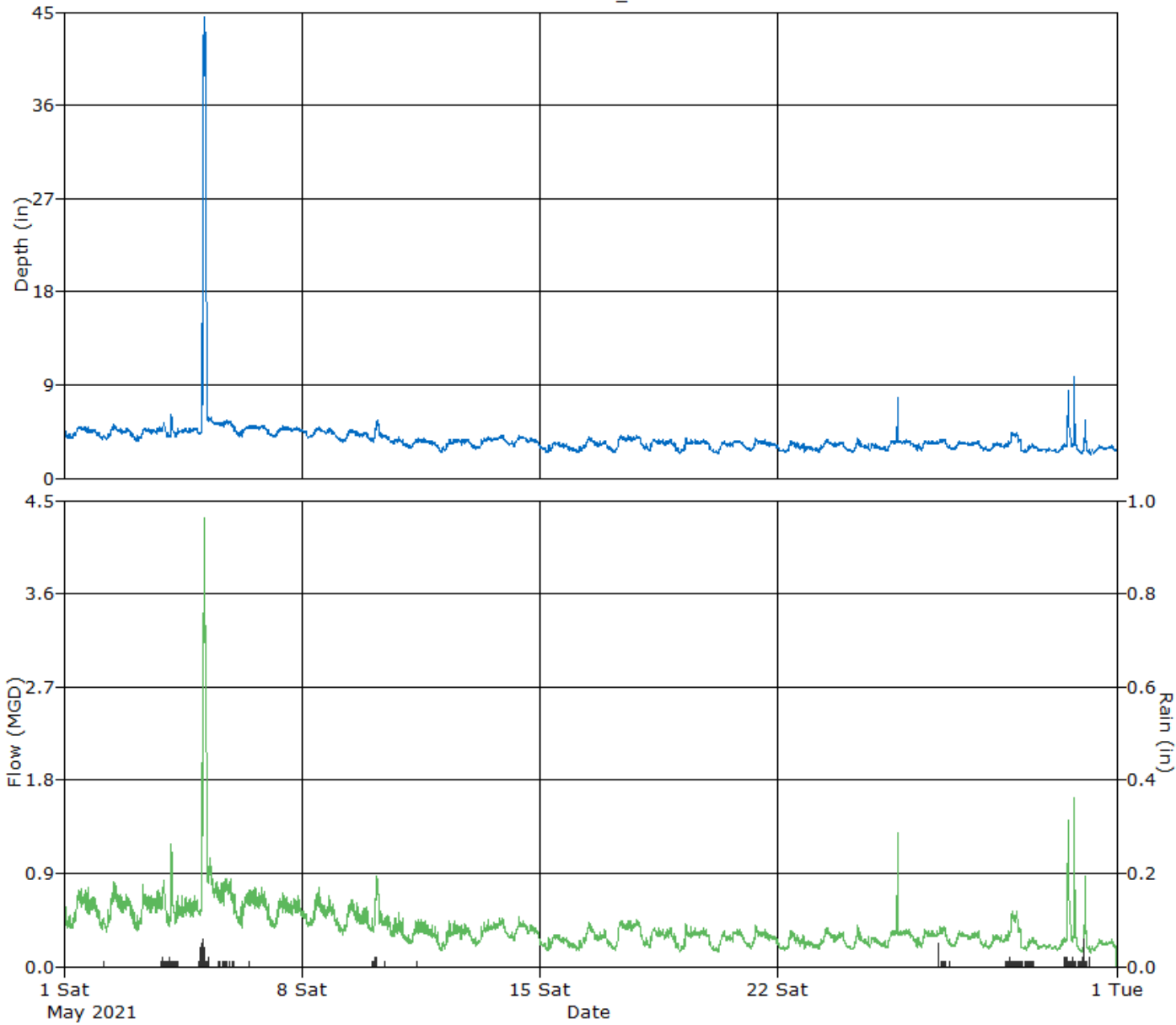
Greenfield\_M1

Flow Monitor  
**Greenfield\_M1**

Pipe Height  
36.00 in

Report Period  
5/1/2021  
To  
5/31/2021

Legend  
— Depth  
— Quantity  
— Rain





## Daily Tabular Report

Date	Depth (in)						Quantity (MGD - Total MG)						Rain (in)						
	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	
05/01/2021	02:50	3.82	10:55	4.99	4.42		02:40	0.370	17:15	0.759	0.548	0.548							
05/02/2021	06:00	3.74	11:20	5.16	4.37		06:00	0.328	11:20	0.815	0.546	0.546							0.01
05/03/2021	03:50	3.56	22:50	5.40	4.39		03:50	0.349	22:55	0.828	0.561	0.561							0.18
05/04/2021	02:30	3.93	04:00	6.10	4.51		02:25	0.390	03:55	1.182	0.553	0.553							0.33
05/05/2021	00:05	4.28	02:58	44.56	8.98		00:05	0.497	03:04	4.434	1.068	1.068							1.09
05/06/2021	05:45	3.97	15:20	5.12	4.71		05:45	0.374	20:10	0.762	0.586	0.586							0.01
05/07/2021	05:05	3.97	10:25	5.09	4.54		04:55	0.371	10:25	0.715	0.534	0.534							
05/08/2021	04:00	3.90	12:00	4.99	4.43		04:00	0.386	12:00	0.763	0.520	0.520							
05/09/2021	05:30	3.51	11:20	4.69	4.09		05:25	0.309	12:00	0.648	0.450	0.450							
05/10/2021	23:55	3.23	06:05	5.59	3.89		23:55	0.276	04:45	0.866	0.424	0.424							0.36
05/11/2021	05:15	2.90	10:25	3.84	3.37		05:15	0.219	12:55	0.459	0.309	0.309							0.01
05/12/2021	02:50	2.46	12:35	3.76	3.29		02:50	0.155	12:35	0.438	0.293	0.293							
05/13/2021	03:20	2.79	21:15	4.19	3.54		03:20	0.203	19:50	0.469	0.339	0.339							
05/14/2021	06:10	3.06	09:25	4.18	3.57		06:10	0.246	09:25	0.474	0.342	0.342							
05/15/2021	06:05	2.48	12:50	3.40	2.99		06:05	0.156	12:50	0.309	0.236	0.236							
05/16/2021	03:55	2.47	11:30	3.94	3.18		03:55	0.155	11:30	0.419	0.271	0.271							
05/17/2021	05:45	2.52	20:40	4.07	3.49		05:45	0.162	20:40	0.447	0.332	0.332							
05/18/2021	06:10	2.64	20:10	3.74	3.30		06:10	0.179	20:10	0.375	0.291	0.291							
05/19/2021	03:30	2.36	07:40	3.88	3.23		03:30	0.140	07:40	0.405	0.280	0.280							
05/20/2021	06:25	2.41	19:35	3.64	3.11		06:25	0.147	19:35	0.356	0.259	0.259							
05/21/2021	05:25	2.61	08:45	3.86	3.20		05:25	0.175	08:45	0.402	0.274	0.274							
05/22/2021	05:30	2.49	10:00	3.60	2.92		05:30	0.158	10:00	0.347	0.225	0.225							
05/23/2021	05:00	2.53	11:40	3.72	3.13		05:00	0.164	11:40	0.372	0.262	0.262							
05/24/2021	04:55	2.54	09:05	3.85	2.99		04:55	0.165	09:05	0.400	0.237	0.237							
05/25/2021	05:05	2.65	13:00	7.77	3.30		05:05	0.181	13:00	1.296	0.294	0.294							
05/26/2021	06:30	2.69	22:15	3.76	3.30		06:30	0.188	22:15	0.381	0.292	0.292							0.16
05/27/2021	04:30	2.74	09:15	3.61	3.20		04:30	0.195	09:15	0.350	0.273	0.273							0.01
05/28/2021	05:45	2.60	22:20	4.45	3.18		05:45	0.173	22:20	0.538	0.273	0.273							0.52
05/29/2021	07:55	2.49	01:00	4.41	2.97		07:55	0.159	01:00	0.528	0.237	0.237							0.39
05/30/2021	23:20	2.38	17:50	9.75	3.23		23:20	0.144	17:50	1.627	0.300	0.300							0.64
05/31/2021	05:40	2.25	01:35	5.65	2.89		23:55	0.000	01:35	0.870	0.222	0.222							0.27

## Report Summary For The Period 05/01/2021 - 05/31/2021

	Depth (in)	Quantity (MGD - Total MG)	Rain (in)
Total		11.632	3.98
Avg	3.73	0.375	

## Rainfall data

The rainfall measured at RG1 from May 01, 2021 to May 31, 2021 is 3.98 inches.

<u>Date / Time</u>	<u>Maximum Rainfall (in.)</u>
5/5/2021 1:50 AM	0.06

a division of ADS LLC.

Site Name:	Montague_RG1	Meter Type:	Rain Alert	Monitor S/N:	7015	Manhole #:	N/A
Address / Location:	Located at WWTP - 34 Greenfield Rd, Montague, MA			Map Page #:	N/A		
				Pipe Height:	n/a Inches		
Access:	Drive	Type of System:	Combined	Pipe Width:	n/a Inches		
				Phone Number:	I.P. 166.219.185.190		



Investigation Information:			Manhole Information:		
Date/Time of Investigation:	August 26, 2009	5:00 PM	Manhole Depth:	Feet	
Site Hydraulics:			Manhole Material / Condition:		
			Active Drop Connections?		
Upstream Input: (L/S, P/S)			Pipe Material / Condition:		
Upstream Manhole:			Mini System Character:		
Downstream Manhole:			Telephone Information:		
Depth of Flow (Wet Dof):			Access Pole #:	N/A	
Range (Air Dof):			Distance From Manhole:	N/A Feet	
Peak Velocity:		fps	Road Cut Length:	N/A Feet	
Silt:		Inches	Trench Length:	N/A Feet	

**Other Information:**  
N 42' 34' 49.0" W 72' 34' 17.0"



Planar N ↑

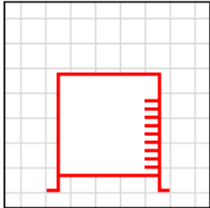
Installation Information		Backup	Yes	No	?	Distance
Installation Type:	Rain Gauge	Trunk		X		
Sensors / Devices:	Rain Gauge Tipping Bucket	Lift/Pump Station		X		
Surcharge Height:	Feet	WWTP		X		
Rain Gauge Zone:	N/A	Other		X		

**Additional Site Information / Comments:**

# HYDROGRAPH REPORT

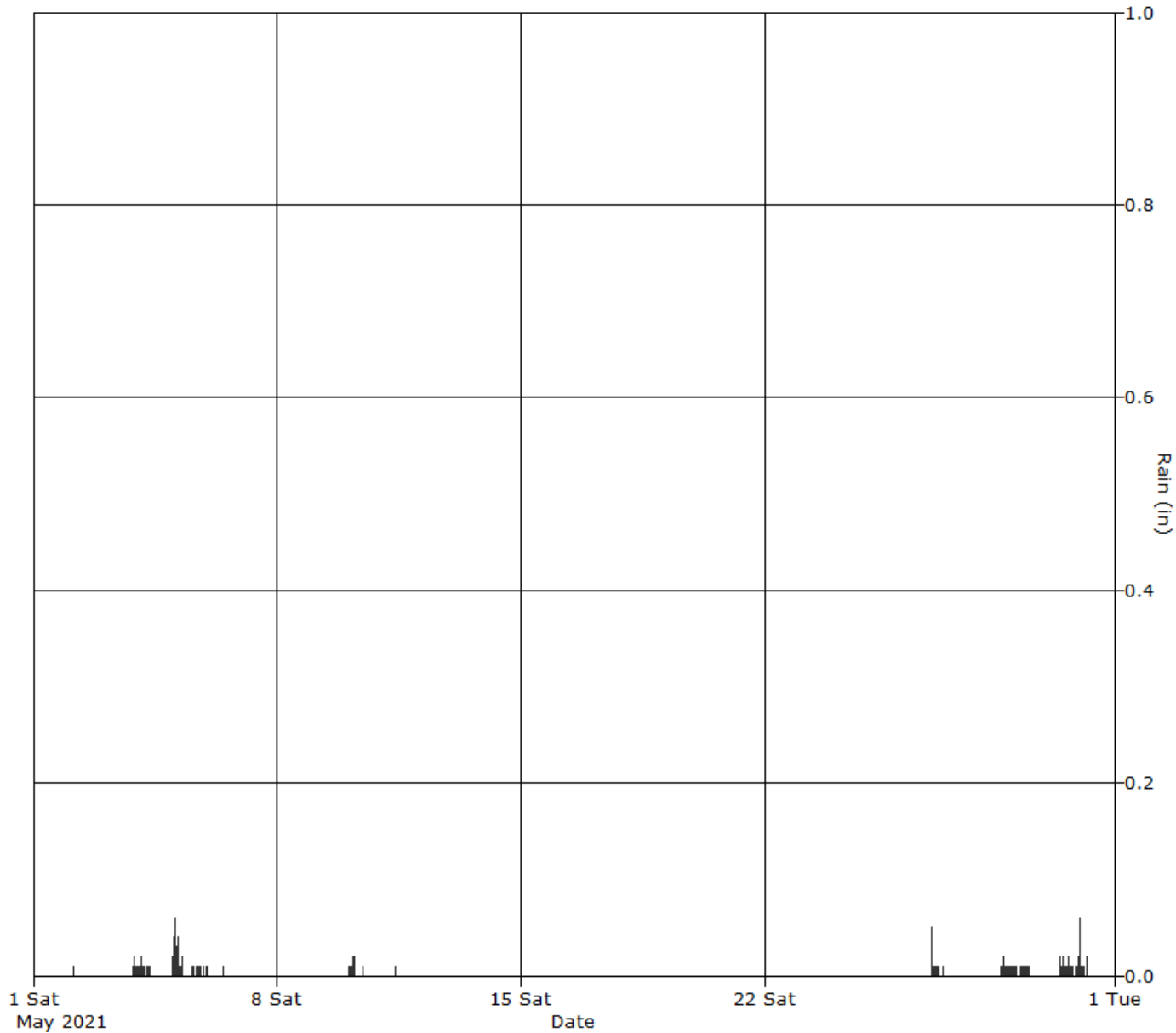
RG1

Rain Gauge  
**RG1**



Report Period  
5/1/2021  
To  
5/31/2021

Legend  
— Rain



**Daily Tabular Report**

Date	Depth (in)						Quantity (MGD - Total MG)						Rain (in)						
	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	Time	Min	Time	Max	Avg	Total	
05/01/2021																			
05/02/2021																			0.01
05/03/2021																			0.18
05/04/2021																			0.33
05/05/2021																			1.09
05/06/2021																			0.01
05/07/2021																			
05/08/2021																			
05/09/2021																			
05/10/2021																			0.36
05/11/2021																			0.01
05/12/2021																			
05/13/2021																			
05/14/2021																			
05/15/2021																			
05/16/2021																			
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05/20/2021																			
05/21/2021																			
05/22/2021																			
05/23/2021																			
05/24/2021																			
05/25/2021																			
05/26/2021																			0.16
05/27/2021																			0.01
05/28/2021																			0.52
05/29/2021																			0.39
05/30/2021																			0.64
05/31/2021																			0.27

**Report Summary For The Period 05/01/2021 - 05/31/2021**

	Rain (in)
Total	3.98
Avg	