



A Division of ADS LLC

51 Wentworth Ave, Suite 11
Londonderry, NH 03053
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May 18, 2021

Chelsey Little, BSBS MPH
Superintendent
Montague WPCF

Dear Ms. Little,

ADS is pleased to submit the April 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 Thursday, April 1, 2021 through Friday, April 30, 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

7th_L_CSO	
Location:	7th Street at L Street

Overview

The [hydrograph](#) for location 7th_L_CSO shows depth levels and calculated flow values recorded during the monitoring period of Thursday, April 1, 2021 to Friday, April 30, 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 Thursday, April 1, 2021 to Friday, April 30, 2021 , along with observed minimum and maximum data, are provided in the following table.

Observed Flow Conditions		
Item	Depth (in)	Quantity (MGD)
Average	1.72	0.173
Minimum	1.22	0.084
Maximum	4.19	0.998
Time of Minimum	4/17/2021 4:45 AM	4/17/2021 4:45 AM
Time of Maximum	4/29/2021 4:45 PM	4/29/2021 4:45 PM

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 Thursday, April 1, 2021 to the Friday, April 30, 2021 monitoring period is provided in the table below.

Percent Uptime	
Depth (in)	100

Montague, MA

Flow Monitoring Site Installation Report

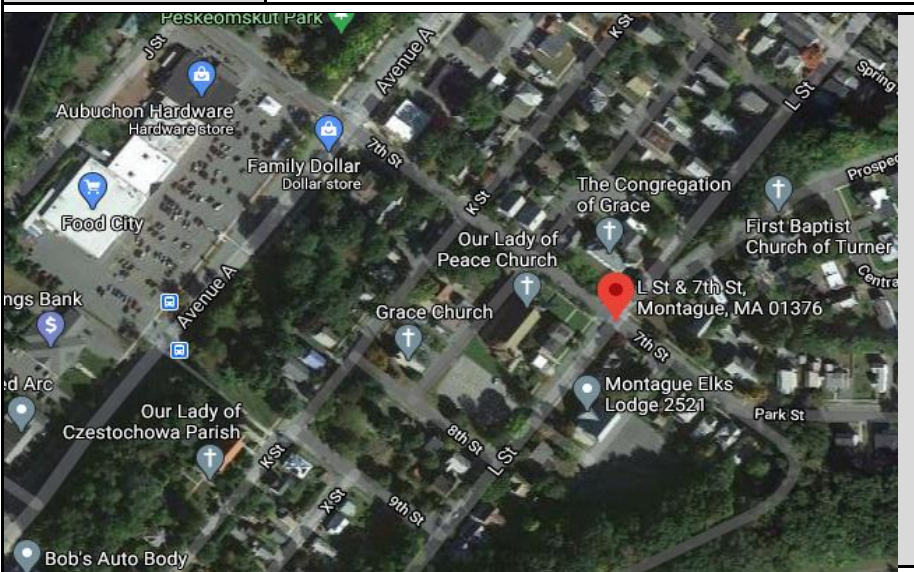


Site I.D.

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
Pipe Shape	Circular



Manhole #	N/A
System Characteristics	Residential
Access	Traffic
Drive	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

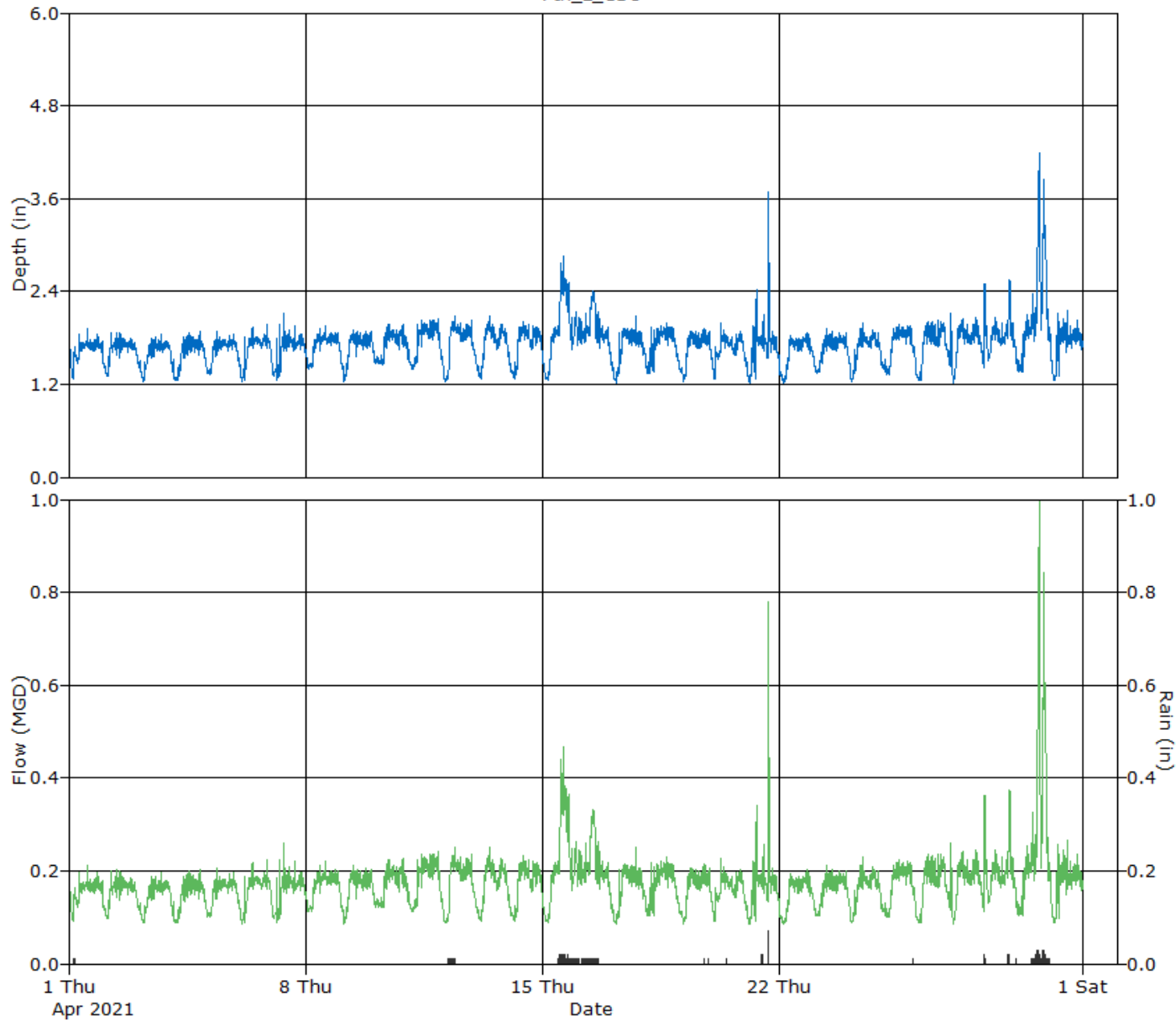
7th_L_CS0

Flow Monitor
7th_L_CS0

Pipe Height
14.25 in

Report Period
4/1/2021
To
4/30/2021

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	
04/01/2021	03:40	1.27	13:30	1.91	1.65		03:40	0.092	13:30	0.211	0.156	0.156							0.07
04/02/2021	03:00	1.30	10:10	1.87	1.65		03:00	0.096	10:10	0.202	0.157	0.157							
04/03/2021	05:15	1.24	17:30	1.85	1.59		05:15	0.087	17:30	0.198	0.147	0.147							
04/04/2021	04:00	1.25	21:15	1.88	1.60		04:00	0.089	21:15	0.204	0.148	0.148							
04/05/2021	04:10	1.32	08:50	1.89	1.64		04:10	0.100	08:50	0.206	0.155	0.155							
04/06/2021	03:05	1.24	20:30	1.97	1.65		03:05	0.087	20:30	0.225	0.158	0.158							
04/07/2021	04:00	1.25	08:45	2.13	1.65		04:00	0.089	08:45	0.261	0.158	0.158							
04/08/2021	02:20	1.40	14:35	1.95	1.71		02:20	0.112	14:35	0.220	0.168	0.168							
04/09/2021	03:30	1.24	09:45	1.91	1.67		03:30	0.087	09:45	0.210	0.163	0.163							
04/10/2021	06:35	1.46	21:20	1.98	1.72		06:35	0.121	21:20	0.226	0.171	0.171							
04/11/2021	04:10	1.40	21:55	2.05	1.76		04:10	0.112	21:55	0.243	0.181	0.181							
04/12/2021	03:25	1.24	10:25	2.08	1.74		03:25	0.087	10:25	0.250	0.177	0.177							0.06
04/13/2021	04:35	1.26	10:25	2.08	1.71		04:35	0.090	10:25	0.251	0.170	0.170							
04/14/2021	04:25	1.27	10:10	2.00	1.72		04:25	0.092	10:10	0.232	0.172	0.172							
04/15/2021	04:20	1.24	15:20	2.85	1.91		04:20	0.088	15:20	0.466	0.219	0.219							1.15
04/16/2021	16:50	1.67	12:10	2.40	1.91		16:50	0.160	12:10	0.332	0.212	0.212							0.89
04/17/2021	04:45	1.22	18:50	2.09	1.67		04:45	0.084	18:50	0.252	0.162	0.162							
04/18/2021	02:50	1.34	16:10	1.99	1.71		02:50	0.103	16:10	0.229	0.171	0.171							
04/19/2021	04:15	1.24	19:15	1.92	1.66		04:15	0.087	19:15	0.214	0.161	0.161							0.02
04/20/2021	02:20	1.27	06:45	1.98	1.68		02:20	0.091	06:45	0.227	0.163	0.163							0.01
04/21/2021	03:10	1.22	16:25	3.69	1.73		03:10	0.085	16:25	0.778	0.179	0.179							0.33
04/22/2021	03:45	1.22	20:05	1.87	1.62		03:45	0.085	20:05	0.202	0.152	0.152							
04/23/2021	03:25	1.35	10:15	1.92	1.67		03:25	0.103	10:15	0.212	0.162	0.162							
04/24/2021	03:50	1.24	11:40	1.99	1.67		03:50	0.088	11:40	0.230	0.162	0.162							
04/25/2021	04:30	1.32	13:25	1.97	1.70		04:30	0.099	13:25	0.223	0.168	0.168							0.01
04/26/2021	03:45	1.24	17:20	2.02	1.72		03:45	0.088	17:20	0.236	0.172	0.172							
04/27/2021	04:20	1.22	02:05	2.12	1.75		04:20	0.085	02:05	0.261	0.178	0.178							
04/28/2021	01:40	1.41	19:50	2.55	1.83		01:40	0.113	19:50	0.374	0.196	0.196							0.24
04/29/2021	02:35	1.35	16:45	4.19	2.11		02:35	0.104	16:45	0.998	0.281	0.281							1.23
04/30/2021	03:40	1.25	13:00	2.15	1.72		03:40	0.088	13:00	0.267	0.174	0.173							0.01

Report Summary For The Period 04/01/2021 - 04/30/2021

	Depth (in)	Quantity (MGD - Total MG)	Rain (in)
Total		5.195	4.02
Avg	1.72	0.173	

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 Thursday, April 1, 2021 to Friday, April 30, 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 Thursday, April 1, 2021 to Friday, April 30, 2021 , along with observed minimum and maximum data, are provided in the following table.

Observed Flow Conditions		
Item	Depth (in)	Quantity (MGD)
Average	3.00	0.767
Minimum	1.71	0.229
Maximum	9.38	6.631
Time of Minimum	4/7/2021 2:05 AM	4/7/2021 2:05 AM
Time of Maximum	4/29/2021 5:10 PM	4/29/2021 5:10 PM

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 Thursday, April 1, 2021 to the Friday, April 30, 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

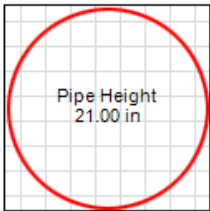
Additional Site Info. / Comments:
N. 42.60422 W. -72.56094 S /N: 1729 I/P: 107.80.17.199 Site Overflows at Depth of 27.0 Inches

ADS Project Name:	Montague, MA
ADS Project Number:	

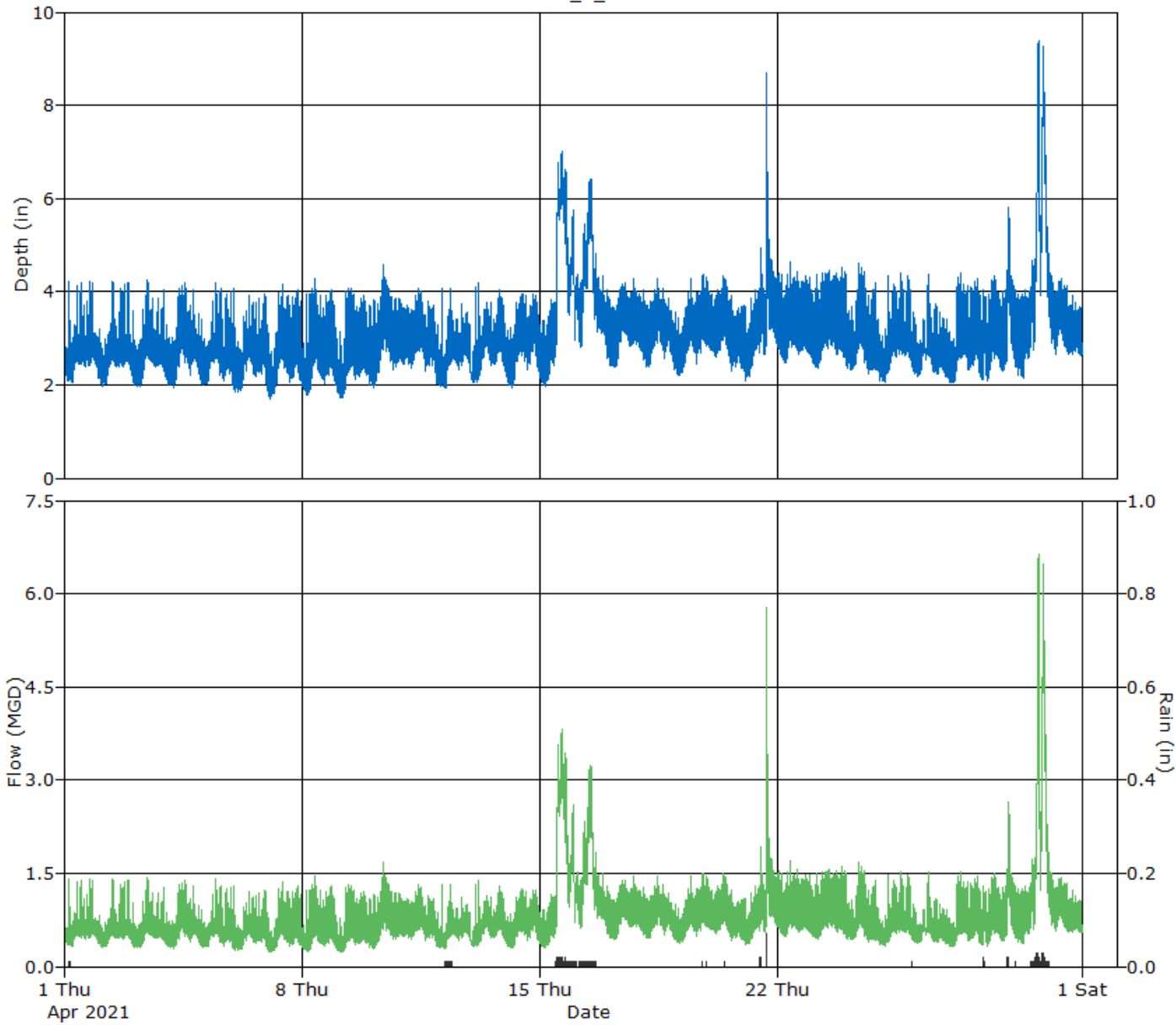
HYDROGRAPH REPORT

Ave_A_CSO

Flow Monitor
Ave_A_CSO



Report Period
4/1/2021
To
4/30/2021



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
04/01/2021	06:00	2.04	18:25	4.22	2.61		06:00	0.328	18:25	1.409	0.551	0.551						0.07
04/02/2021	03:30	1.98	10:10	4.22	2.58		03:30	0.307	10:10	1.405	0.539	0.539						
04/03/2021	03:25	1.96	10:40	4.24	2.60		03:25	0.301	10:40	1.420	0.552	0.552						
04/04/2021	05:10	1.93	13:00	4.18	2.73		05:10	0.293	13:00	1.379	0.612	0.612						
04/05/2021	23:50	1.96	11:20	4.20	2.51		23:50	0.302	11:20	1.397	0.512	0.512						
04/06/2021	01:05	1.83	22:10	3.95	2.48		01:05	0.263	22:10	1.235	0.504	0.504						
04/07/2021	02:05	1.71	10:30	4.16	2.50		02:05	0.229	10:30	1.371	0.518	0.518						
04/08/2021	04:10	1.77	09:15	4.28	2.63		04:10	0.245	09:15	1.450	0.575	0.575						
04/09/2021	04:35	1.73	09:25	4.08	2.52		04:35	0.233	09:25	1.315	0.528	0.528						
04/10/2021	03:00	1.93	10:05	4.59	3.10		03:00	0.292	10:05	1.668	0.788	0.788						
04/11/2021	23:25	2.04	10:45	4.07	2.98		23:25	0.327	10:45	1.312	0.718	0.718						
04/12/2021	04:50	1.93	09:00	4.08	2.59		04:50	0.292	09:00	1.319	0.541	0.541						0.06
04/13/2021	01:25	2.06	04:35	4.20	2.70		01:25	0.332	04:35	1.395	0.591	0.591						
04/14/2021	04:30	1.94	11:25	3.96	2.75		04:30	0.296	11:25	1.240	0.617	0.617						
04/15/2021	04:15	1.96	16:35	7.00	3.93		04:15	0.302	16:35	3.809	1.404	1.404						1.15
04/16/2021	23:45	2.78	12:15	6.42	4.05		23:45	0.613	12:15	3.224	1.351	1.351						0.89
04/17/2021	04:20	2.38	18:35	4.27	3.19		04:20	0.446	18:35	1.442	0.824	0.824						
04/18/2021	23:35	2.33	11:15	4.29	3.10		23:35	0.430	11:15	1.455	0.778	0.778						
04/19/2021	02:45	2.20	19:50	4.36	3.09		02:45	0.380	19:50	1.504	0.781	0.781						0.02
04/20/2021	15:20	2.29	09:25	4.35	3.21		15:20	0.412	09:25	1.494	0.838	0.838						0.01
04/21/2021	02:00	2.08	16:30	8.70	3.48		02:00	0.340	16:30	5.768	1.035	1.035						0.33
04/22/2021	06:00	2.47	09:25	4.64	3.40		06:00	0.484	09:25	1.700	0.943	0.943						
04/23/2021	04:35	2.36	21:30	4.52	3.32		04:35	0.438	21:30	1.616	0.902	0.902						
04/24/2021	16:40	2.24	09:50	4.61	2.94		16:40	0.396	09:50	1.678	0.710	0.710						
04/25/2021	04:05	2.06	15:00	4.39	2.74		04:05	0.333	15:00	1.524	0.612	0.612						0.01
04/26/2021	22:50	2.18	11:20	4.38	2.59		22:50	0.375	11:20	1.519	0.543	0.543						
04/27/2021	03:50	2.05	10:00	4.39	2.77		03:50	0.329	10:00	1.521	0.631	0.631						
04/28/2021	04:35	2.07	19:50	5.80	3.22		04:35	0.338	19:50	2.646	0.866	0.866						0.24
04/29/2021	06:00	2.16	17:10	9.38	4.40		06:00	0.366	17:10	6.631	1.786	1.786						1.23
04/30/2021	22:25	2.64	00:05	4.83	3.27		22:25	0.551	00:05	1.844	0.867	0.866						0.01

Report Summary For The Period 04/01/2021 - 04/30/2021

	Depth (in)	Quantity (MGD - Total MG)	Rain (in)
Total		23.015	4.02
Avg	3.00	0.767	

Site Commentary

Site Information

Greenfield_M1	
Location:	Greenfield Road - CSO

Overview

The [hydrograph](#) for location Greenfield_M1 shows depth levels and calculated flow values recorded during the monitoring period of Thursday, April 1, 2021 to Friday, April 30, 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 Thursday, April 1, 2021 to Friday, April 30, 2021 , along with observed minimum and maximum data, are provided in the following table.

Observed Flow Conditions		
Item	Depth (in)	Quantity (MGD)
Average	4.00	0.459
Minimum	2.27	0.139
Maximum	30.59	2.928
Time of Minimum	4/17/2021 2:15 AM	4/17/2021 2:15 AM
Time of Maximum	4/29/2021 5:40 PM	4/29/2021 5:40 PM

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 Thursday, April 1, 2021 to the Friday, April 30, 2021 monitoring period is provided in the table below.

Percent Uptime	
Depth (in)	100

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

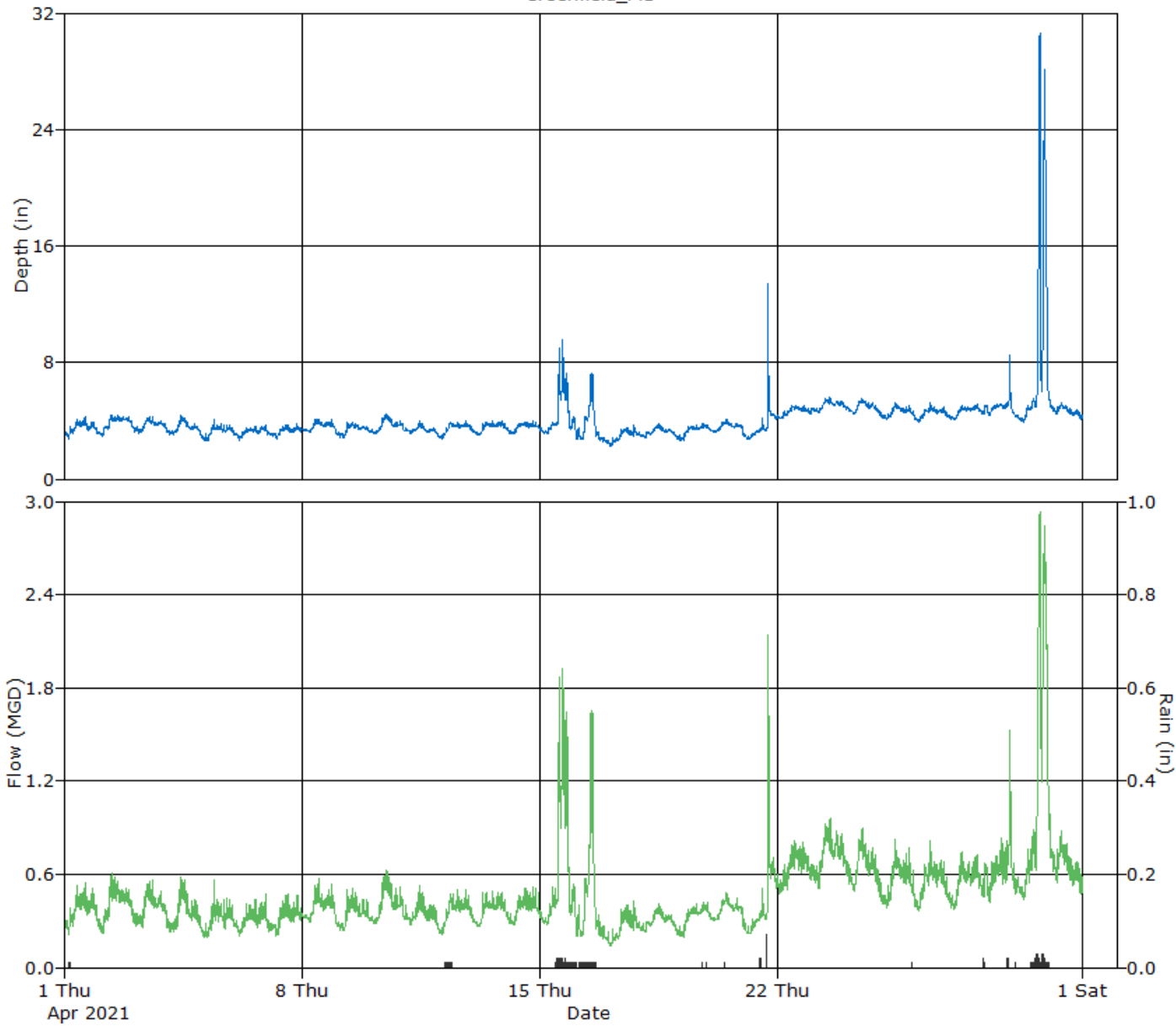
Greenfield_M1

Flow Monitor
Greenfield_M1

Pipe Height
36.00 in

Report Period
4/1/2021
To
4/30/2021

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
04/01/2021	03:20	2.76	14:50	4.30	3.51		03:20	0.212	14:50	0.548	0.371	0.371						0.07
04/02/2021	03:35	2.98	09:10	4.41	3.83		03:00	0.222	10:10	0.606	0.406	0.406						
04/03/2021	05:15	3.14	14:30	4.32	3.68		07:20	0.256	14:30	0.565	0.388	0.388						
04/04/2021	02:45	2.99	10:55	4.33	3.53		02:55	0.226	10:55	0.585	0.346	0.346						
04/05/2021	03:15	2.64	10:05	4.08	3.26		03:15	0.194	10:05	0.559	0.308	0.308						
04/06/2021	04:10	2.69	22:35	3.75	3.24		04:10	0.201	22:35	0.470	0.305	0.305						
04/07/2021	06:30	2.73	20:40	3.76	3.28		06:10	0.201	14:50	0.471	0.315	0.315						
04/08/2021	05:55	3.19	12:20	4.13	3.62		05:55	0.292	12:20	0.570	0.383	0.383						
04/09/2021	02:45	2.88	08:30	3.90	3.39		02:45	0.235	11:35	0.506	0.336	0.336						
04/10/2021	03:25	3.14	11:20	4.43	3.68		03:25	0.282	11:20	0.624	0.401	0.401						
04/11/2021	23:15	3.11	11:40	3.95	3.38		23:15	0.276	11:40	0.530	0.335	0.335						
04/12/2021	03:30	2.76	20:05	3.98	3.48		03:30	0.213	20:05	0.500	0.354	0.354						0.06
04/13/2021	04:30	3.03	22:05	3.95	3.54		04:30	0.262	14:35	0.495	0.366	0.366						
04/14/2021	05:55	3.09	19:25	3.97	3.55		05:55	0.273	19:25	0.514	0.369	0.369						
04/15/2021	05:50	3.11	16:15	9.59	4.41		05:50	0.276	16:15	1.922	0.637	0.637						1.15
04/16/2021	23:55	2.55	12:40	7.30	3.61		23:55	0.179	12:40	1.655	0.425	0.425						0.89
04/17/2021	02:15	2.27	19:05	3.67	2.93		02:15	0.139	19:05	0.431	0.249	0.249						
04/18/2021	03:30	2.84	12:00	3.81	3.24		03:30	0.227	12:00	0.412	0.303	0.303						
04/19/2021	06:05	2.65	19:25	3.77	3.30		06:05	0.196	23:15	0.418	0.317	0.317						0.02
04/20/2021	03:10	3.26	12:40	4.06	3.57		03:10	0.305	11:40	0.480	0.371	0.371						0.01
04/21/2021	03:10	2.78	17:20	13.44	3.78		03:10	0.216	17:20	2.136	0.440	0.440						0.33
04/22/2021	03:00	4.13	10:25	5.07	4.64		01:40	0.475	11:50	0.819	0.640	0.640						
04/23/2021	05:40	4.55	12:35	5.58	5.04		06:10	0.506	14:10	0.957	0.721	0.721						
04/24/2021	06:40	4.47	11:55	5.53	4.93		06:45	0.487	12:55	0.892	0.652	0.652						
04/25/2021	05:30	4.10	11:45	5.21	4.60		05:30	0.385	11:45	0.828	0.554	0.554						0.01
04/26/2021	04:05	3.92	12:25	5.21	4.53		04:05	0.364	12:30	0.811	0.547	0.547						
04/27/2021	05:55	4.07	21:40	5.10	4.63		05:05	0.377	11:00	0.745	0.546	0.546						
04/28/2021	06:15	4.36	20:30	8.52	4.92		06:15	0.419	20:30	1.531	0.624	0.624						0.24
04/29/2021	06:10	3.88	17:40	30.59	8.25		06:10	0.437	17:40	2.928	1.103	1.103						1.23
04/30/2021	23:55	4.10	00:10	5.70	4.72		23:00	0.475	00:15	1.022	0.669	0.669						0.01

Report Summary For The Period 04/01/2021 - 04/30/2021

	Depth (in)	Quantity (MGD - Total MG)	Rain (in)
Total		13.781	4.02
Avg	4.00	0.459	

Rainfall data

The rainfall measured at RG1 from April 01, 2021 to April 30, 2021 is 4.02 inches.

<u>Date / Time</u>	<u>Maximum Rainfall (in.)</u>
4/21/2021 4:10 PM	0.07

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 ↑

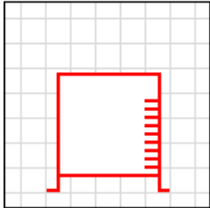
Installation Information		Backup	Yes	No	?	Distance
Installation Type:	Rain Gauge	Trunk		X		
Sensors / Devices:	Rain Gauge Tipping Bucket	Lift/Pump Station		X		
Surcharge Height:	Feet	WWTP		X		
Rain Gauge Zone:	N/A	Other		X		

Additional Site Information / Comments:

HYDROGRAPH REPORT

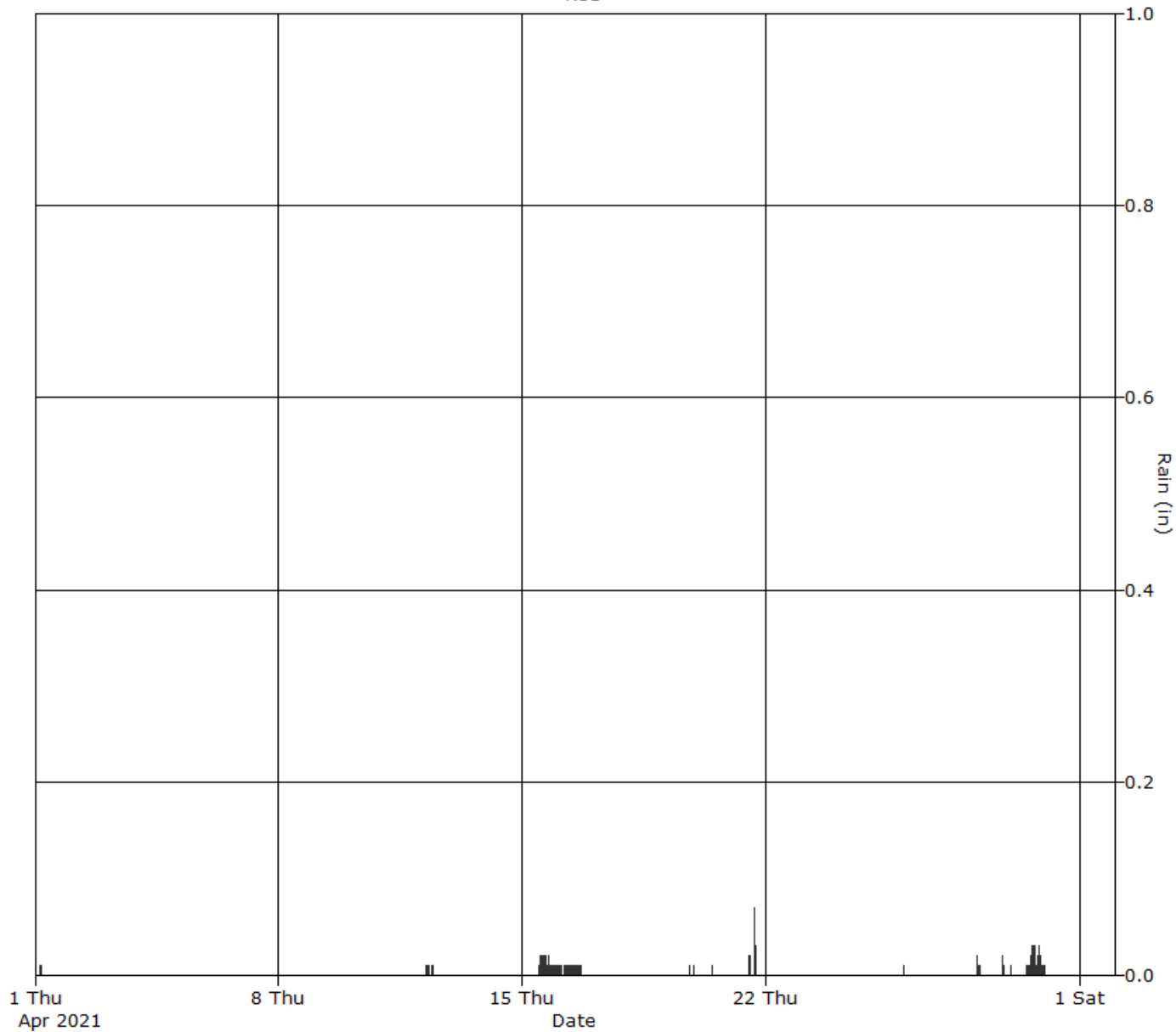
RG1

Rain Gauge
RG1



Report Period
4/1/2021
To
4/30/2021

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	
04/01/2021																			0.07
04/02/2021																			
04/03/2021																			
04/04/2021																			
04/05/2021																			
04/06/2021																			
04/07/2021																			
04/08/2021																			
04/09/2021																			
04/10/2021																			
04/11/2021																			
04/12/2021																			0.06
04/13/2021																			
04/14/2021																			
04/15/2021																			1.15
04/16/2021																			0.89
04/17/2021																			
04/18/2021																			
04/19/2021																			0.02
04/20/2021																			0.01
04/21/2021																			0.33
04/22/2021																			
04/23/2021																			
04/24/2021																			
04/25/2021																			0.01
04/26/2021																			
04/27/2021																			
04/28/2021																			0.24
04/29/2021																			1.23
04/30/2021																			0.01

Report Summary For The Period 04/01/2021 - 04/30/2021

	Rain (in)
Total	4.02
Avg	