

City of Newton
MS4 Annual Report
May 1, 2018 – June 30, 2019
www.newtonma.gov/stormwater

Attachment A

SSO Inventory

Summary of Sanitary Sewer Overflow, Bypass Pumping and Sewage Back-ups
City of Newton from 2013 - present

Date Discovered	Time	Date Stopped	Time Stopped	Discharge from:	Discharge to / Receiving Water:	Location	Estimated volume	Method of Estimating volume	Cause of SSO Event	Corrective Measures	Comments	SSO/ Bypass Form prepared by:
12/9/2014	9:25 PM	12/10/2014	2:00 AM	Sanitary sewer manhole	Bermed grass area	Lyons Field, adjacent to 2212 Commonwealth Ave	19,000 gallons	Visual @ 3 GPM	Rain event and Sewer System blockage	None listed		Theodore Jerdee
12/9/2014	5:30 PM	12/10/2014	4:00 AM	Sanitary sewer manhole	CB to Saw Mill Brook; and backup into property basement	100 Peregrine Rd	3 MG	6" pump curve data	Rain event	Pumped sewage from SMH into drain manhole with 6" trash pump to alleviate sewer backup into approximately 8 homes		Theodore Jerdee

Notes: This summary was compiled from available Wastewater Overflow, Sewer Bypass and Back-up Notification Forms completed by the City of Newton and submitted to the MassDEP.

**City of Newton
MS4 Annual Report
May 1, 2018 – June 30, 2019**

Attachment B

Outfall Screening and Sampling Data (Wet & Dry weather)

City of Newton, Massachusetts - Wet Weather Outfall Monitoring Results
May 1, 2018 - June 30, 2019

Outfall ID	Pipe Material	Pipe Size (in)	Inspection Date	Inspecting Company	Weather	Quantity of Rain (past 72 hours)	Sampling Location	Manhole ID	Is There Flow?	If Flow, Velocity	Samples Collected?	If No, What is the Reason?	Surfactants (ppm)	Ammonia (ppm)	Chlorine (ppm)	Comments	E. Coli (CFU/100ml)
NEW-05	Concrete	15	11/16/2018	SDE, Inc.	Cloudy	>0.1 Inch	Outfall	--	--	Fast	Yes	--	0.25	0.2	ND (<0.05)	--	550
NEW-06	Concrete	15	11/16/2018	SDE, Inc.	Cloudy	>0.1 Inch	Manhole	NEW-6-0002	--	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	Outfall submerged.	900
NEW-08	Concrete	12	11/16/2018	SDE, Inc.	Cloudy	>0.1 Inch	Outfall	--	--	Medium	Yes	--	ND (<0.125)	0.4	ND (<0.05)	--	390
NEW-10	Concrete	12	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Slow	Yes	--	0.75	4	ND (<0.05)	--	1,700
NEW-12	PVC	10	11/16/2018	SDE, Inc.	Cloudy	>0.1 Inch	Outfall	--	--	Slow	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	100
NEW-13	Concrete	12	11/16/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Medium	Yes	--	ND (<0.125)	0.2	ND (<0.05)	--	1,500
NEW-13B	Concrete	15	11/16/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Medium	Yes	--	ND (<0.125)	0.1	ND (<0.05)	--	1,100
NEW-14	Concrete	12	11/16/2018	SDE, Inc.	Cloudy	>0.1 Inch	Manhole	NEW-14-0002	--	Slow	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	Outlet clogged/submerged.	4,400
NEW-15B	Concrete	15	11/16/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Slow	Yes	--	0.5	0.6	ND (<0.05)	--	2,500
NEW-17	Concrete	30	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Fast	Yes	--	0.25	0.3	ND (<0.05)	--	5,700
NEW-18	Concrete	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	ND (<0.125)	0.2	ND (<0.05)	--	2,700
NEW-18A	Concrete	18	11/16/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Slow	Yes	--	0.25	0.5	ND (<0.05)	--	16,000
NEW-21	Vitrified Clay Pipe	8	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Catch Basin	NEW-21-CBA	No	Slow	Yes	--	0.75	0.8	ND (<0.05)	--	690
NEW-22	Concrete	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-22-001	No	Medium	Yes	--	ND (<0.125)	0.4	ND (<0.05)	--	11,000
NEW-23	HDPE	24	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	0.25	2	ND (<0.05)	--	4,800
NEW-27A	Concrete	12	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-27A-0004	No	Medium	Yes	--	0.75	0.8	ND (<0.05)	--	6,100
NEW-27B	Concrete	12	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-27B-0001	No	Slow	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	60
NEW-28	Vitrified Clay Pipe	12	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	--	No	Outfall submerged, upstream feature has standing.	NT	NT	NT	No upstream features with flow to sample.	NT
NEW-29	Concrete	18	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Slow	Yes	--	ND (<0.125)	3	ND (<0.05)	--	430
NEW-30	Vitrified Clay Pipe	10	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-30-0002	No	Slow	Yes	--	ND (<0.125)	1	ND (<0.05)	--	7,700
NEW-31	Vitrified Clay Pipe	20	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-31-0004	No	Medium	Yes	--	ND (<0.125)	0.6	ND (<0.05)	--	3,900
NEW-32	Concrete	24	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-32-0002	No	Medium	Yes	--	1	0.6	ND (<0.05)	--	4,300
NEW-32A	Concrete	36	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-32A-0002	No	--	No	Only accessible manhole has standing water.	NT	NT	NT	No upstream features with flow to sample.	NT
NEW-33	Vitrified Clay Pipe	24	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Slow	Yes	--	0.75	1	ND (<0.05)	--	2,600
NEW-36	Concrete	24	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-36-0003	No	Slow	Yes	--	ND (<0.125)	1	ND (<0.05)	--	660
NEW-38	Vitrified Clay Pipe	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Catch Basin	NEW-38-A	No	Fast	Yes	--	ND (<0.125)	0.2	ND (<0.05)	--	730
NEW-39	Concrete	10	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	ND (<0.125)	0.2	ND (<0.05)	--	230
NEW-40	Concrete	10	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Fast	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	810
NEW-41	Concrete	15	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-41-0001	No	Medium	Yes	--	ND (<0.125)	0.3	ND (<0.05)	--	1,500
NEW-42	Concrete	12	4/8/2019	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-42-0001	--	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	Outfall submerged.	200
NEW-43	Concrete	15	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-43-007	No	Medium	Yes	--	ND (<0.125)	0.8	ND (<0.05)	--	3,200
NEW-44	Concrete	36	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	0.25	0.6	ND (<0.05)	--	3,600
NEW-47	Concrete	60	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Fast	Yes	--	ND (<0.125)	0.4	ND (<0.05)	--	390
NEW-48	Culvert	36x48	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	0.25	0.1	ND (<0.05)	--	1,500
NEW-49	Corrugated Metal Pipe	18	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-49-0004	No	Medium	Yes	--	ND (<0.125)	0.3	ND (<0.05)	--	2,100
NEW-50	Concrete	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	ND (<0.125)	1	ND (<0.05)	--	680
NEW-51	Concrete	18	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Slow	Yes	--	0.25	0.8	ND (<0.05)	--	4,300
NEW-51A	Corrugated Metal Pipe	12	4/8/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	40
NEW-51B	Corrugated Metal Pipe	12	4/8/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	50
NEW-52	Vitrified Clay Pipe	20	4/8/2019	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-52-0003	--	Medium	Yes	--	ND (<0.125)	0.6	ND (<0.05)	Outfall submerged. Sample taken at the outlet of manhole.	210
NEW-54	Concrete	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	CB-A	No	--	No	Submerged at outfall.	NT	NT	NT	Upstream features were standing water.	NT
NEW-55	Vitrified Clay Pipe	10	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-55-0004	No	Slow	Yes	--	0.25	2	ND (<0.05)	--	16,000
NEW-56	Concrete	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Slow	Yes	--	ND (<0.125)	0.8	ND (<0.05)	pH meter malfunctioned.	1,200
NEW-57	Concrete	10	4/8/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Slow	Yes	--	0.25	0.4	ND (<0.05)	--	590
NEW-58	Concrete	2-36"	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Slow	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	pH meter malfunctioned.	70
NEW-58A	Concrete	12	4/8/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Slow	Yes	--	ND (<0.125)	0.3	ND (<0.05)	--	3,100
NEW-59	Vitrified Clay Pipe	15	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-59-0001	No	Medium	Yes	--	0.25	2	ND (<0.05)	Outfall submerged, sampled outlet of next upstream manhole.	3,900
NEW-60	PVC	14	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	pH meter malfunctioned.	2,900
NEW-61	Concrete	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Slow	Yes	--	ND (<0.125)	0.6	ND (<0.05)	pH meter malfunctioned.	2,900
NEW-63	Concrete	12	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	Sign at outfall incorrectly labeled as 65A.	30
NEW-64	Ductile Iron	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Fast	Yes	--	ND (<0.125)	0.6	ND (<0.05)	pH meter malfunctioned.	300
NEW-65	Corrugated Metal Pipe	60	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-65-0053	--	Medium	Yes	--	ND (<0.125)	0.2	ND (<0.05)	Outfall submerged, sampled next upstream manhole.	120
NEW-65A	Ductile Iron	18	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Fast	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	Sign at outfall incorrectly labeled as 63.	1,500
NEW-65B	Vitrified Clay Pipe	10	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-65B-0001	--	--	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	270
NEW-65C	Concrete	12	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-65C-0001	--	Fast	Yes	--	ND (<0.125)	0.8	ND (<0.05)	--	ND
NEW-65D	Vitrified Clay Pipe	8	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-65D-0001	--	Medium	No	Standing water.	NT	NT	NT	Only upstream features are catch basins, also standing water.	NT
NEW-65E	Vitrified Clay Pipe	12	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-65E-0001	--	Fast	Yes	--	ND (<0.125)	0.6	ND (<0.05)	--	15,000
NEW-66	Culvert	40x60	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Medium	Yes	--	ND (<0.125)	0.4	ND (<0.05)	--	2,200
NEW-67	Concrete	14	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-67-0002	No	Slow	Yes	--	ND (<0.125)	0.6	ND (<0.05)	pH meter malfunctioned.	3,800
NEW-69	Concrete	12	6/28/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Fast	Yes	--	ND (<0.125)	0.1	ND (<0.05)	--	4,800
NEW-70	Concrete	12	6/28/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Fast	Yes	--	ND (<0.125)	0.2	ND (<0.05)	--	4,000
NEW-71	Vitrified Clay Pipe	10	6/28/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Fast	Yes	--	ND (<0.125)	0.3	ND (<0.05)	--	12,000
NEW-72	Vitrified Clay Pipe	15	6/28/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	2	--	Slow	Yes	--	0.25	0.3	ND (<0.05)	Could not locate outfall, sampled from next upstream manhole.	1,300
NEW-73	Corrugated Metal Pipe	24	6/28/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Fast	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	23,000
NEW-74	Vitrified Clay Pipe	20	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-74-0001	No	Medium	Yes	--	ND (<0.125)	ND (<0.05)	0.3	Outfall submerged, sampled next upstream manhole at outlet.	10
NEW-74A	Concrete	15	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Medium	Yes	--	ND (<0.125)	0.1	ND (<0.05)	--	ND
NEW-74B	Concrete	12	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	--	No	Outfall inaccessible.	NT	NT	NT	Outfall was located under fallen tree in the water.	NT
NEW-75	Ductile Iron	12	6/28/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Slow	Yes	--	0.25	0.3	ND (<0.05)	--	8,300
NEW-75A	Vitrified Clay Pipe	14	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-75A-0003	--	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	Could not locate outfall. Sampled at outlet of manhole.	450
NEW-76	Culvert	48x36	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-76-0004	--	Fast	Yes	--	ND (<0.125)	0.1	ND (<0.05)	Sampled at outlet of upstream manhole.	240
NEW-78	Concrete	20	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-78-0001	--	Medium	Yes	--	ND (<0.125)	0.3	ND (<0.05)	--	1,600
NEW-79	Concrete	12	4/3/2019	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-79-0004	--	Slow	Yes	--	0.25	0.2	ND (<0.05)	--	60
NEW-80	Vitrified Clay Pipe	10	11/13/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-80-0001	--	Medium	Yes	--	0.25	0.6	ND (<0.05)	Outfall could not be located. Sample taken at upstream manhole.	480
NEW-86A	Vitrified Clay Pipe	10	4/8/2019	SDE, Inc.	Rain	>0.1 Inch	Not Recorded	--	--	--	No	Submerged	NT	NT	NT	Could not locate outfall, most likely submerged. Could not locate upstream features.	NT
NEW-89	Vitrified Clay Pipe	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-89-0002	No	Medium	Yes	--	ND (<0.125)	0.1	ND (<0.05)	Sampled from the main line in the CB.	540
NEW-90	Vitrified Clay Pipe	10	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-90-0001	No	Medium	Yes	--	ND (<0.125)	0.1	ND (<0.05)	--	11,000
NEW-91	Vitrified Clay Pipe	14	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-91-0002	No	Fast	Yes	--	ND (<0.125)	0.2	ND (<0.05)	--	2,000
NEW-92	Concrete	12	4/3/2019	SDE, Inc.	Rain	>											

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NEW-98A	Vitrified Clay Pipe	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	DMH-98A-0001	No	Medium	Yes	--	ND (<0.125)	0.1	ND (<0.05)	--	2,000
NEW-98B	Vitrified Clay Pipe	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-98B-0001	No	Medium	Yes	--	0.25	0.1	ND (<0.05)	--	3,000
NEW-98C	Vitrified Clay Pipe	12	11/20/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-98C-0004	No	Medium	Yes	--	ND (<0.125)	0.6	ND (<0.05)	--	5,550
NEW-98D	Concrete	10	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Catch Basin	NEW-98-CBA	No	Slow	Yes	--	ND (<0.125)	0.1	ND (<0.05)	Sampled at Catchbasin A.	530
NEW-99	Brick	28X36	11/16/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-76-0002	--	Medium	Yes	--	0.25	0.1	ND (<0.05)	--	170
NEW-100	Culvert	24X42	4/8/2019	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-100-0009	--	Slow	Yes	--	ND (<0.125)	0.6	ND (<0.05)	--	80
NEW-100A	Concrete	42	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-100B-0001	No	Medium	Yes	--	0.25	0.1	ND (<0.05)	--	570
NEW-100B	Concrete	12	11/19/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	NEW-100B-0001	No	Medium	Yes	--	ND (<0.125)	0.1	ND (<0.05)	--	110
NEW-101	Concrete	2-36"	11/16/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	--	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	1,500
Lake Outfall 1	Concrete	12	9/25/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	1,300
Lake Outfall 1	Concrete	20x24	6/13/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Fast	Yes	--	0.25	0.2	ND (<0.05)	--	25,000
Lake Outfall 2	Concrete	18	9/25/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	>80,000
Lake Outfall 2	Concrete	18	6/13/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Fast	Yes	--	0.25	0.6	ND (<0.05)	--	5,500
Lake Outfall 3	Concrete	12	9/25/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Slow	Yes	--	0.5	0.4	ND (<0.05)	--	18,000
Lake Outfall 3	Concrete	12	6/13/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	0.25	0.3	ND (<0.05)	--	34,000
Lake Outfall 5	PVC	15	9/25/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Slow	Yes	--	0.5	10	ND (<0.05)	--	49,000
Lake Outfall 5	Concrete	24	6/13/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Fast	Yes	--	0.25	4	ND (<0.05)	--	47,000
Lake Outfall 6	Clay	8	9/25/2018	SDE, Inc.	Rain	>0.1 Inch	Manhole	MH US of LakeOF6	No	--	No	--	Standing Water	NT	NT	NT	NT
Lake Outfall 6	Concrete	18	6/13/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Fast	Yes	--	0.25	2	ND (<0.05)	--	61,000
Lake Outfall 7	Clay	8	9/25/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Medium	Yes	--	0.25	6	ND (<0.05)	--	2,800
Lake Outfall 7	Concrete	12	6/13/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Fast	Yes	--	0.75	4	ND (<0.05)	--	49,000
Lake Outfall 8	Concrete	24	9/25/2018	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Fast	Yes	--	0.5	0.6	ND (<0.05)	--	>80,000
Lake Outfall 8	Concrete	24	6/13/2019	SDE, Inc.	Rain	>0.1 Inch	Outfall	--	No	Slow	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	110

Notes:

1. ND = Non-Detect
2. NT = Not Tested

City of Newton, Massachusetts - Dry Weather Outfall Monitoring Results
May 1, 2018 - June 30, 2019

Outfall ID	Pipe Material	Pipe Size (in)	Inspection Date	Inspecting Company	Weather	Quantity of Rain (past 72 hours)	Sampling Location	Manhole ID	Is There Flow?	Samples Collected?	If No, What is the Reason?	Surfactants (ppm)	Ammonia (ppm)	Chlorine (ppm)	Comments	E. Coli (CFU/100ml)
NEW-01	Concrete	60	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-01-0002	Yes	Yes	--	ND (<0.125)	0.2	ND (<0.05)	--	ND (<10)
NEW-02	Concrete	36	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-02-0001	No	No	No Flow	NT	NT	NT	Standing water at the outfall. Dry inlets at the upstream manhole.	NT
NEW-03	Culvert	48X72	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	360
NEW-04	Concrete	12	8/20/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-04A	Concrete	15	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-04B	Concrete	12	8/20/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-05	Concrete	15	8/20/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-06	Concrete	15	8/20/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-07	Concrete	24	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-07-0001	No	No	No Flow	NT	NT	NT	Outfall 25% submerged.	NT
NEW-08	Concrete	12	8/20/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-09	PVC	10	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-10	Concrete	12	8/20/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-11	Culvert	60X72	9/17/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	1600
NEW-12	PVC	10	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-13	Concrete	12	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-13A	Vitrified Clay Pipe	8	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-13B	Concrete	15	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-14	Concrete	12	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-14-0002	No	No	No Flow	NT	NT	NT	--	NT
NEW-15	Concrete	36	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	15,000
NEW-15B	Concrete	15	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-15-0002	No	No	No Flow	NT	NT	NT	--	NT
NEW-16	Concrete	12	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-16-0002	No	No	No Flow	NT	NT	NT	--	NT
NEW-16A	Vitrified Clay Pipe	12	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-16-0002	No	No	No Flow	NT	NT	NT	--	NT
NEW-17	Concrete	30	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	30
NEW-18	Concrete	12	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-18A	Concrete	18	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-19	Concrete	72	8/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	50
NEW-20	Concrete	23	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	170
NEW-21	Vitrified Clay Pipe	8	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-21-CBA	No	No	Standing Water	NT	NT	NT	Unable to locate outfall. CB observed holding standing water.	NT
NEW-22	Concrete	12	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-23	HDPE	24	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-24	Concrete	12	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-25	Vitrified Clay Pipe	30	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-25-0001	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	80
NEW-27	PVC	14	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	170
NEW-27A	Concrete	12	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-27B	Concrete	12	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	60
NEW-28	Vitrified Clay Pipe	12	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	0.2	ND (<0.05)	--	1,500
NEW-29	Concrete	18	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-29-0001	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	Standing water at outfall. NW inlet observed dry.	ND (<10)
NEW-30	Vitrified Clay Pipe	10	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-30-0002	No	No	No Flow	NT	NT	NT	Standing water at outfall and New-30-0001.	NT
NEW-31	Vitrified Clay Pipe	20	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-31-0001	No	No	No Flow	NT	NT	NT	--	NT
NEW-32	Concrete	24	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	170
NEW-32A	Concrete	36	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-32A-0002	No	No	Standing Water	NT	NT	NT	g water at the outfall and upstream manhole. Unable to access any other ma	NT
NEW-33	Vitrified Clay Pipe	24	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-34	Vitrified Clay Pipe	12	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	Broken pipe at the outlet due to a fallen tree.	NT
NEW-36	Concrete	24	8/21/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-36-0001	Yes	Yes	--	0.5	0.8	ND (<0.05)	Outfall 100% submerged.	240
NEW-38	Vitrified Clay Pipe	12	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-39	Concrete	10	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-40	PVC	10	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-41	Concrete	15	8/21/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-42	Concrete	12	8/21/2018	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-42-0001	No	No	No Flow	NT	NT	NT	Outfall not located.	NT
NEW-43	Concrete	15	8/24/2018	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-43-0004	No	No	No Flow	NT	NT	NT	Outfall 100% submerged.	NT
NEW-44	Concrete	36	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-47	Concrete	60	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	0.2	ND (<0.05)	--	ND (<10)
NEW-48	Culvert	36x48	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	610
NEW-49	Corrugated Metal Pipe	18	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-49-0004	No	No	No Flow	NT	NT	NT	Standing water at the outfall and upstream manholes.	NT
NEW-50	Concrete	12	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-51	Concrete	12	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-51A	Concrete	12	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-51B	Corrugated Metal Pipe	12	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-52	Vitrified Clay Pipe	20	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-52-0003	No	No	No Flow	NT	NT	NT	Outfall 100% submerged.	NT
NEW-54	Concrete	12	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-54-CBA	No	No	No Flow	NT	NT	NT	Outfall 100% submerged, could not locate	NT
NEW-55	Concrete	12	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-55-0001	No	No	No Flow	NT	NT	NT	Outfall 100% submerged, could not locate.	NT
NEW-56	Concrete	12	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-57	Concrete	12	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-58	Concrete	36	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-58-0007	No	No	No Flow	NT	NT	NT	--	NT
NEW-58A	Concrete	12	8/24/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	1	ND (<0.05)	--	3100
NEW-59	Vitrified Clay Pipe	15	9/4/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-59-0001	No	No	Standing Water	NT	NT	NT	--	NT
NEW-60	PVC	14	9/4/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-61	Concrete	12	9/4/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-62	Concrete	60	9/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	6	ND (<0.05)	--	780
NEW-63	Concrete	12	9/4/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-64	Ductile Iron	12	8/24/2018	SDE, Inc.	Cloudy	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-65	Corrugated Metal Pipe	60	9/6/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	0.25	6	ND (<0.05)	--	190
NEW-65A	Ductile Iron	18	9/4/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-65B	Vitrified Clay Pipe	10	9/4/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-65B-0001	No	No	No Flow	NT	NT	NT	--	NT
NEW-65C	Concrete	12	9/6/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-65C-0001	No	No	No Flow	NT	NT	NT	--	NT
NEW-65D	Vitrified Clay Pipe	8	9/4/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-65D-0001	No	No	Standing Water	NT	NT	NT	--	NT
NEW-65E	Vitrified Clay Pipe	12	9/4/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-65E-0001	No	No	No Flow	NT	NT	NT	--	NT
NEW-66	Culvert	40x60	9/4/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-67	Concrete	14	9/4/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-67-0002	No	No	No Flow	NT	NT	NT	--	NT
NEW-68	Ditch	48x96	9/20/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	900
NEW-69	Concrete	12	9/6/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	40

City of Newton, Massachusetts - Dry Weather Outfall Monitoring Results
May 1, 2018 - June 30, 2019

NEW-70	Concrete	12	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-71	Vitrified Clay Pipe	10	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-72	Vitrified Clay Pipe	15	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-73	Corrugated Metal Pipe	24	9/6/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-74	Vitrified Clay Pipe	20	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	0.6	--	ND (<10)
NEW-74A	Concrete	15	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-74B	Concrete	12	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-75	Ductile Iron	12	9/6/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-75A	Vitrified Clay Pipe	14	9/6/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-75A-CBA	No	No	No Flow	NT	NT	NT	--	NT
NEW-76	Culvert	48x36	9/6/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-76-0004	Yes	Yes	--	0.25	0.1	1.5	--	ND (<10)
NEW-77	Culvert	72x144	9/6/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-77	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	2,800
NEW-78	Concrete	20	9/12/2018	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-78-0001	No	No	No Flow	NT	NT	NT	--	NT
NEW-79	Concrete	12	9/6/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-79-0001	No	No	No Flow	NT	NT	NT	--	NT
NEW-80	Vitrified Clay Pipe	10	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-80-0001	No	No	No Flow	NT	NT	NT	Could not locate outfall, inspected next upstream manhole.	NT
NEW-81	Culvert	60X66	9/17/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	640
NEW-86	ed Concrete/Corrugated M	12	9/12/2018	SDE, Inc.	Cloudy	<0.1 Inch	Manhole	NEW-86-0001	No	No	No Flow	NT	NT	NT	ding water at the outfall. Standing water at the manhole but inlet observed	NT
NEW-86A	Vitrified Clay Pipe	10	9/12/2018	SDE, Inc.	Cloudy	<0.1 Inch	Catch Basin	NEW-86A-CBA	No	No	No Flow	NT	NT	NT	Unable to locate outfall.	NT
NEW-87	Concrete	48	9/17/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	1400
NEW-88	Vitrified Clay Pipe	12	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-88-0002	No	No	No Flow	NT	NT	NT	--	NT
NEW-89	Vitrified Clay Pipe	12	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Catch Basin	NEW-89-0002	No	No	No Flow	NT	NT	NT	--	NT
NEW-90	Vitrified Clay Pipe	10	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-90-0001	No	No	No Flow	NT	NT	NT	--	NT
NEW-91	Vitrified Clay Pipe	14	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-91-0001	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	470
NEW-92	Concrete	12	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	No	No	No Flow	NT	NT	NT	--	NT
NEW-93	Concrete	42	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-93-0065	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	ND (<10)
NEW-94	Vitrified Clay Pipe	12	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-94-0001	No	No	No Flow	NT	NT	NT	--	NT
NEW-95	Brick	24x36	9/5/2018	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-95-0005	Yes	Yes	--	0.25	0.2	0.4	--	ND (<10)
NEW-96	Culvert	72	43348	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-96-0005	No	No	No Flow	NT	NT	NT	--	NT
NEW-97	Vitrified Clay Pipe	12	43348	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-97-0001	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	870
NEW-98	Vitrified Clay Pipe	12	43347	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-98-0001	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	20
NEW-98A	Vitrified Clay Pipe	12	43347	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-98A-0001	No	No	No Flow	NT	NT	NT	--	NT
NEW-98B	Vitrified Clay Pipe	12	43347	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-98B-0001	No	No	No Flow	NT	NT	NT	--	NT
NEW-98C	Vitrified Clay Pipe	12	43347	SDE, Inc.	Sunny	<0.1 Inch	Outfall	--	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	60
NEW-98D	Concrete	10	43348	SDE, Inc.	Sunny	<0.1 Inch	Manhole	Catch Basin	No	No	No Flow	NT	NT	NT	--	NT
NEW-99	Brick	28X36	43347	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-99-0002	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	10
NEW-100	Culvert	24X42	43349	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-100-0009	No	No	Standing Water	NT	NT	NT	--	NT
NEW-100A	Concrete	42	43347	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-100A-0002	No	No	No Flow	NT	NT	NT	--	NT
NEW-100B	Concrete	12	43347	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-100B-0001	Yes	Yes	--	ND (<0.125)	1	ND (<0.05)	--	170
NEW-101	Concrete	2-36"	43360	SDE, Inc.	Sunny	<0.1 Inch	Manhole	NEW-101-0001	Yes	Yes	--	ND (<0.125)	ND (<0.05)	ND (<0.05)	--	650

- Notes:
1. ND = Non-Detect
2. NT = Not Tested

**City of Newton
MS4 Annual Report
May 1, 2018 – June 30, 2019**

Attachment C

Illicit Discharge Detection and Removal Report for this reporting period and Master summary

**Verified Direct and Indirect Connections
City of Newton**

Illicit Discharge Unique ID	Code	Illicit Discharge Status	Type of Discharge	Direct or Indirect?	Street No.	Street Name	Catchment ID	Watershed	Estimated Flow (gpd)	Verification Date	Verification Method	Description of Discharge	Removal Date	# Days from Verification to Removal	# Days Outstanding (if not removed)	Date Confirmatory Sampling Completed	Comments
1	AC	Abatement Complete	Neighborhood (~16 Residences)	Indirect	Multiple	Jasset Street	76	Derby Brook	880	2004	NR	Sewer Exfiltration to Underdrain	NR	--	--	--	Estimated 16 houses with 1/8 of the flow leaking into the drains during heavy rainfall events only
2	AC	Abatement Complete	Single Family Residence	Direct	10	Gray Cliff Road	77-13	Edmands Brook	440	10/2005	NR	Residential Sewer Connected to Storm Drain	1/11/2006	--	--	--	440 GPD removed was an estimated based on 4 bedroom house @ 110 gal/bedroom/day
3	AC	Abatement Complete	Sewer Manhole Leak	Indirect	NR	Brookside Ave @ Albemarle Rd	68-9	Cheesecake Brook	1440	2006	NR	Sealed Sewer MH Leaking into Underdrain and replaced 12 LF of drain pipe	12/5/2007	--	--	--	Estimated 2 gallons/min leading 50% of the time
4	AC	Abatement Complete	Single Family Residence	Direct	93	Hillside Road	77-11	Edmands Brook	440	12/2005	NR	Residential Sewer Connected to Storm Drain	2/2006	--	--	--	440 GPD removed was an estimated based on 4 bedroom house @ 110 gal/bedroom/day
5	AC	Abatement Complete	Two-Family Condo Residence	Indirect	4	Nonantum Street	89		165	12/2006	NR	Leak Detected at House Connection to Sewer Main	1/18/2007	--	--	--	Estimated half of the sewer flow from a 3 bedroom house; leak @ connection to sewer main, open joints in storm drain on this street
6	AC	Abatement Complete	Single Family Residence	Direct	44	Solon Street	11-3	Crystal Lake	440	11/2009	NR	Residential Sewer Connected to Storm Drain	2/3/2010	--	--	--	440 GPD removed was an estimated based on 4 bedroom house @ 110 gal/bedroom/day
7	AC	Abatement Complete	Neighborhood (~12 Residences)	Indirect	Multiple	Boyd Street @ Watertown Line	78	Charles River	1320	2008	NR	Sewer Main severely blocked and damaged (hole in pipe) allowed leakage into Storm Drain	7/30/2010	--	--	--	Estimated 12 houses with 1/4 of the flow leaking into the drains during heavy rainfall events only
8	AC (-SP)	Abatement Complete, Confirmatory Sampling Pending	Three-Family Residence	Partial Direct	340	Linwood Avenue	68-9	Cheesecake Brook	220	2/8/2019	Dye Test	Residential Washing Machines Connected to Storm Drain	6/20/2019	132	--	--	The washing machines that were connected to a roof drainage system at this location were fixed in late June. Confirmatory sampling to be completed under Phase 2
9	AC (-SP)	Abatement Complete, Confirmatory Sampling Pending	Two-Family Residence	Indirect	377	Lexington Street	68-5	Cheesecake Brook	660	3/18/2019	Dye Test	Residential Sewer leaking into Storm Drain	5/31/2019	74	--	--	Sewer service @ 377 Lexington st was broken at storm drain crossing and was infiltrating into the Stormwater main. We replaced 10' of the 5" VCP sewer service with 5" SDR 35 pipe that was notched into the top of the stormwater main and repaired the brickwork. Confirmatory sampling to be completed under Phase 2
									7445	Total							
Notes: 1) DoV = Date of Verification 2) For residential properties, flow is estimated based on 310 CMR 15.203 "System Sewage Flow Design Criteria" of 110 gallons per day per bedroom 3) NR = Not Recorded 4) #1-8 are historic illicit discharge removals provided by the Town of Newton Codes: V = Illicit Connection Verified, Responsible Party to be Notified P = Responsible Party Notified, Abatement Pending P-OD = One or More Abatement Deadlines is Overdue AC-SP = Abatement Complete, Confirmatory Sampling Pending AC = Abatement Complete, Confirmatory Sampling Complete or Not Required																	