

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	3/28/2018	9:02 AM	1	0.01	< 0.01	0.8	< 0.1
ABT-077	Rte 27/USGS, Maynard	3/28/2018	10:29 AM	1	0.02	< 0.01	0.89	< 0.1
CND-009	Rogers St, Lowell	3/28/2018	10:20 AM	3	0.02	< 0.01	0.9	< 0.1
CND-161	Lowell Rd bridge, Concord	3/28/2018	9:06 AM	1	0.01	< 0.01	0.32	< 0.1
SUD-005	Rte 62 Boat House, Concord	3/28/2018	8:50 AM	2	0.01	< 0.01	0.32	< 0.1

Summary Statistics for Mainstem Sites

Maximum	3	0.02	< 0.01	0.9	< 0.1
Minimum	1	0.01	< 0.01	0.32	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAN-013	Danforth Br, Hudson	3/28/2018	9:37 AM	< 1	< 0.01	< 0.01	< 0.05	< 0.1
ELZ-004	Elizabeth Br, Stow	3/28/2018	10:10 AM	1	0.01	< 0.01	0.19	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	3/28/2018	8:42 AM	< 1	< 0.01	< 0.01	0.43	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	3/28/2018	9:38 AM	2	0.01	< 0.01	0.33	< 0.1

Summary Statistics for Tributary Sites

Maximum	2	0.01	< 0.01	0.43	< 0.1
Minimum	< 1	< 0.01	< 0.01	< 0.05	< 0.1

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chloride

Mainstem				Chloride
Site Number	Location	Date	Time	(mg/L)
ABT-026	Rte 2, Concord	3/28/2018	9:02 AM	188
ABT-077	Rte 27/USGS, Maynard	3/28/2018	10:29 AM	198
CND-009	Rogers St, Lowell	3/28/2018	10:20 AM	197
CND-161	Lowell Rd bridge, Concord	3/28/2018	9:06 AM	211
SUD-005	Rte 62 Boat House, Concord	3/28/2018	8:50 AM	211

Summary Statistics for Mainstem Sites

Maximum	211
Minimum	188

Tributary				Chloride
Site Number	Location	Date	Time	(mg/L)
DAN-013	Danforth Br, Hudson	3/28/2018	9:37 AM	74.9
ELZ-004	Elizabeth Br, Stow	3/28/2018	10:10 AM	116
NSH-002	Nashoba, Commonwealth, W. Con	3/28/2018	8:42 AM	179
NSH-047	Nashoba, Wheeler Ln, Acton	3/28/2018	9:38 AM	186

Summary Statistics for Tributary Sites

Maximum	186
Minimum	74.9

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	3/28/2018	9:02 AM	6.35	96.2	11.84	415	7.42
ABT-077	Rte 27/USGS, Maynard	3/28/2018	10:29 AM	6.63	107.1	13.10	437	7.18
CND-009	Rogers St, Lowell	3/28/2018	10:20 AM	6.26	95.7	11.80	443	7.03
CND-161	Lowell Rd bridge, Concord	3/28/2018	9:06 AM	6.22	93.7	11.59	447	7.21
SUD-005	Rte 62 Boat House, Concord	3/28/2018	8:50 AM	6.20	93.7	11.58	447	7.26

Summary Statistics for Mainstem Sites

Maximum	6.63	107.1	13.10	447	7.42
Minimum	6.20	93.7	11.58	415	7.03

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	3/28/2018	9:37 AM	5.64	99.4	12.49	181	7.67
ELZ-004	Elizabeth Br, Stow	3/28/2018	10:10 AM	6.00	92.3	11.48	256	7.33
NSH-002	Nashoba, Commonwealth, W. Concor	3/28/2018	8:42 AM	6.11	94.5	11.71	383	7.44
NSH-047	Nashoba, Wheeler Ln, Acton	3/28/2018	9:38 AM	5.24	86.2	10.93	391	7.00

Summary Statistics for Tributary Sites

Maximum	6.11	99.4	12.49	391	7.67
Minimum	5.24	86.2	10.93	181	7.00

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-301	Rte 9, Westboro	3/29/2018	11:30 AM	2	0.02	< 0.01	4.3	< 0.1
ABT-312	Mill Road, Westboro	3/29/2018	10:55 AM	< 1	< 0.01	< 0.01	0.19	< 0.1
SUD-144	Sudbury Landing, Framingham	3/29/2018	10:05 AM	1	< 0.01	< 0.01	0.34	< 0.1

Summary Statistics for Mainstem Sites

Maximum	2	0.02	< 0.01	4.3	< 0.1
Minimum	< 1	< 0.01	< 0.01	0.19	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
HOP-011	Hop Br, Northboro	3/29/2018	11:15 AM	1	0.01	< 0.01	0.4	< 0.1
NTH-009	North Br, Berlin	3/29/2018	12:00 PM	< 1	< 0.01	< 0.01	0.25	< 0.1

Summary Statistics for Tributary Sites

Maximum	1	0.01	< 0.01	0.4	< 0.1
Minimum	< 1	< 0.01	< 0.01	0.25	< 0.1

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chloride

Mainstem				Chloride
Site Number	Location	Date	Time	(mg/L)
ABT-301	Rte 9, Westboro	3/29/2018	11:30 AM	322
ABT-312	Mill Road, Westboro	3/29/2018	10:55 AM	77
SUD-144	Sudbury Landing, Framingham	3/29/2018	10:05 AM	218

Summary Statistics for Mainstem Sites

Maximum	322
Minimum	77

Tributary				Chloride
Site Number	Location	Date	Time	(mg/L)
HOP-011	Hop Br, Northboro	3/29/2018	11:15 AM	275
NTH-009	North Br, Berlin	3/29/2018	12:00 PM	63.4

Summary Statistics for Tributary Sites

Maximum	275
Minimum	63.4

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-301	Rte 9, Westboro	3/29/2018	11:30 AM	9.33	110.6	12.64	760	7.03
ABT-312	Mill Road, Westboro	3/29/2018	10:55 AM	7.71	108.4	12.92	202	7.53
SUD-144	Sudbury Landing, Framingham	3/29/2018	10:05 AM	7.00	104.6	12.67	463	7.10

Summary Statistics for Mainstem Sites

Maximum	9.33	110.6	12.92	760	7.53
Minimum	7.00	104.6	12.64	202	7.03

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
HOP-011	Hop Br, Northboro	3/29/2018	11:15 AM	8.02	100.8	11.90	602	7.05
NTH-009	North Br, Berlin	3/29/2018	12:00 PM	7.32	89.2	11.82	173	7.50

Summary Statistics for Tributary Sites

Maximum	8.02	100.8	11.90	602	7.50
Minimum	7.32	89.2	11.82	173	7.05

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	5/20/2018	5:53 AM	4	0.03	0.01	0.65	< 0.1
ABT-077	Rte 27/USGS, Maynard	5/20/2018	7:30 AM	4	0.03	0.01	0.71	< 0.1
ABT-301	Rte 9, Westboro	5/20/2018	7:40 AM	3	0.04	0.01	3.4	< 0.1
ABT-312	Mill Road, Westboro	5/20/2018	8:00 AM	2	0.02	< 0.01	< 0.05	< 0.1
CND-009	Rogers St, Lowell	5/20/2018	6:40 AM	8	0.04	< 0.01	0.54	< 0.1
CND-161	Lowell Rd bridge, Concord	5/20/2018	6:23 AM	4	0.03	< 0.01	< 0.05	< 0.1
SUD-005	Rte 62 Boat House, Concord	5/20/2018	5:52 AM	6	0.02	< 0.01	< 0.05	< 0.1
SUD-064	Sherman Br Rd, Wayland	5/20/2018	6:02 AM	8	0.01	< 0.01	0.05	< 0.1
SUD-086	River Rd, Wayland	5/20/2018	6:30 AM	19	0.03	< 0.01	0.13	< 0.1
SUD-096	Rte 20, Wayland	5/20/2018	6:40 AM	3	0.01	< 0.01	0.18	< 0.1
SUD-144	Sudbury Landing, Framingham	5/20/2018	7:08 AM	9	0.01	< 0.01	0.32	< 0.1

Summary Statistics for Mainstem Sites

Maximum	19	0.04	0.01	3.4	< 0.1
Minimum	2	0.01	< 0.01	< 0.05	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAN-013	Danforth Br, Hudson	5/20/2018	6:30 AM	3	0.01	< 0.01	< 0.05	< 0.1
ELZ-004	Elizabeth Br, Stow	5/20/2018	7:05 AM	2	< 0.01	< 0.01	0.15	< 0.1
HBS-016	Hop Br, Sudbury	5/20/2018	6:52 AM	32	0.05	0.02	0.61	< 0.1
HOP-011	Hop Br, Northboro	5/20/2018	7:25 AM	1	0.02	< 0.01	0.33	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	5/20/2018	7:34 AM	2	0.02	< 0.01	0.26	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	5/20/2018	7:05 AM	2	0.02	< 0.01	0.25	< 0.1
NTH-009	North Br, Berlin	5/20/2018	7:00 AM	4	0.03	< 0.01	0.15	< 0.1
RVM-005	River Mead, Thorndike, Lowell	5/20/2018	6:49 AM	3	0.03	< 0.01	0.24	0.13

Summary Statistics for Tributary Sites

Maximum	32	0.05	0.02	0.61	0.13
Minimum	1	< 0.01	< 0.01	< 0.05	< 0.1

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	5/20/2018	5:53 AM	15.86	90.2	8.92	465	7.08
ABT-077	Rte 27/USGS, Maynard	5/20/2018	7:30 AM	16.38	97.3	9.51	466	7.07
ABT-301	Rte 9, Westboro	5/20/2018	7:40 AM	16.62	95.0	9.21	443	7.17
ABT-312	Mill Road, Westboro	5/20/2018	8:00 AM	18.02	102.6	9.70	248	7.43
CND-009	Rogers St, Lowell	5/20/2018	6:40 AM	17.32	89.2	8.51	505	7.18
CND-161	Lowell Rd bridge, Concord	5/20/2018	6:23 AM	17.48	58.8	5.59	524	7.01
SUD-005	Rte 62 Boat House, Concord	5/20/2018	5:52 AM	17.70	60.4	5.73	503	6.99
SUD-064	Sherman Br Rd, Wayland	5/20/2018	6:02 AM	16.22	31.6	3.10	519	6.84
SUD-086	River Rd, Wayland	5/20/2018	6:30 AM	15.69	46.3	4.62	543	6.76
SUD-096	Rte 20, Wayland	5/20/2018	6:40 AM	15.54	57.7	5.70	550	6.72
SUD-144	Sudbury Landing, Framingham	5/20/2018	7:08 AM	15.62	98.0	9.72	595	6.94

Summary Statistics for Mainstem Sites

Maximum	18.02	102.6	9.72	595	7.43
Minimum	15.54	31.6	3.10	248	6.72

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	5/20/2018	6:30 AM	14.43	96.8	9.88	215	7.18
ELZ-004	Elizabeth Br, Stow	5/20/2018	7:05 AM	15.29	69.3	6.93	331	6.65
HBS-016	Hop Br, Sudbury	5/20/2018	6:52 AM	14.25	36.6	3.74	453	6.69
HOP-011	Hop Br, Northboro	5/20/2018	7:25 AM	13.99	100.6	10.34	657	6.99
NSH-002	Nashoba, Commonwealth, W. Concor	5/20/2018	7:34 AM	15.40	84.9	8.40	455	6.90
NSH-047	Nashoba, Wheeler Ln, Acton	5/20/2018	7:05 AM	13.94	74.0	7.58	508	6.78
NTH-009	North Br, Berlin	5/20/2018	7:00 AM	13.69	96.5	10.01	258	7.17
RVM-005	River Mead, Thorndike, Lowell	5/20/2018	6:49 AM	14.23	92.8	9.49	606	6.85

Summary Statistics for Tributary Sites

Maximum	15.40	100.6	10.34	657	7.18
Minimum	13.69	36.6	3.74	215	6.65

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	6/17/2018	6:36 AM	10	0.03	< 0.01	1.1	< 0.1
ABT-062	Rte 62, Acton	6/17/2018	6:07 AM	2	0.02	< 0.01	1.5	< 0.1
ABT-077	Rte 27/USGS, Maynard	6/17/2018	7:48 AM	1	0.02	< 0.01	1.3	< 0.1
ABT-144	Rte 62, Stow	6/17/2018	6:48 AM	3	0.02	< 0.01	3.7	< 0.1
ABT-237	Robin Hill Rd, Marlboro	6/17/2018	7:15 AM	3	0.03	< 0.01	3.7	< 0.1
ABT-301	Rte 9, Westboro	6/17/2018	7:53 AM	2	0.05	0.02	12.9	< 0.1
ABT-312	Mill Road, Westboro	6/17/2018	7:23 AM	5	0.08	< 0.01	0.55	< 0.1
CND-009	Rogers St, Lowell	6/17/2018	7:45 AM	9	0.03	< 0.01	0.62	< 0.1
CND-045	Lowell St, Billerica	6/17/2018	7:25 AM	8	0.05	< 0.01	0.27	< 0.1
CND-110	Rte 225, Bedford	6/17/2018	6:35 AM	8	0.05	< 0.01	0.27	< 0.1
CND-161	Lowell Rd bridge, Concord	6/17/2018	7:04 AM	8	0.04	< 0.01	0.06	< 0.1
SUD-005	Rte 62 Boat House, Concord	6/17/2018	6:00 AM	8	0.04	< 0.01	0.07	< 0.1
SUD-064	Sherman Br Rd, Wayland	6/17/2018	6:15 AM	28	0.02	0.02	0.14	< 0.1
SUD-086	River Rd, Wayland	6/17/2018	6:35 AM	14	0.02	0.01	0.17	< 0.1
SUD-096	Rte 20, Wayland	6/17/2018	6:41 AM	6	0.02	0.02	0.21	< 0.1
SUD-144	Sudbury Landing, Framingham	6/17/2018	7:26 AM	2	< 0.01	< 0.01	0.21	< 0.1

Summary Statistics for Mainstem Sites

Maximum	28	0.08	0.02	12.9	< 0.1
Minimum	1	< 0.01	< 0.01	0.06	< 0.1

OARS

na = not assessed; nr = not reported

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAN-013	Danforth Br, Hudson	6/17/2018	6:20 AM	< 1	0.02	< 0.01	0.12	< 0.1
ELZ-004	Elizabeth Br, Stow	6/17/2018	7:26 AM	2	0.03	0.01	0.2	< 0.1
HBS-016	Hop Br, Sudbury	6/17/2018	7:00 AM	23	0.16	0.06	0.84	0.27
HOP-011	Hop Br, Northboro	6/17/2018	7:37 AM	4	0.04	< 0.01	0.17	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	6/17/2018	8:12 AM	2	0.03	< 0.01	0.18	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	6/17/2018	7:35 AM	6	0.03	< 0.01	0.21	< 0.1
NTH-009	North Br, Berlin	6/17/2018	7:00 AM	6	0.04	< 0.01	0.26	< 0.1
RVM-005	River Mead, Thorndike, Lowell	6/17/2018	8:10 AM	4	0.02	0.01	0.41	0.17

Summary Statistics for Tributary Sites

Maximum	23	0.16	0.06	0.84	0.27
Minimum	< 1	0.02	< 0.01	0.12	< 0.1

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	6/17/2018	6:36 AM	19.38	82.3	7.53	704	7.56
ABT-062	Rte 62, Acton	6/17/2018	6:07 AM	21.37	106.2	9.35	749	7.81
ABT-077	Rte 27/USGS, Maynard	6/17/2018	7:48 AM	20.30	85.9	7.74	729	7.48
ABT-095	White Pond Rd, Stow	6/17/2018	7:38 AM	20.99	101.8	9.06	746	7.47
ABT-134	Sudbury Rd, Stow	6/17/2018	7:02 AM	20.82	116.7	10.43	807	7.59
ABT-144	Rte 62, Stow	6/17/2018	6:48 AM	20.73	102.7	9.18	846	7.47
ABT-162	Cox St, Hudson	6/17/2018	6:35 AM	18.96	81.7	7.56	812	7.13
ABT-237	Robin Hill Rd, Marlboro	6/17/2018	7:15 AM	18.54	78.1	7.29	915	7.24
ABT-301	Rte 9, Westboro	6/17/2018	7:53 AM	18.21	86.9	8.16	1005	7.38
ABT-312	Mill Road, Westboro	6/17/2018	7:23 AM	17.23	66.5	6.38	349	7.64
CND-009	Rogers St, Lowell	6/17/2018	7:45 AM	20.63	112.2	10.05	643	7.42
CND-045	Lowell St, Billerica	6/17/2018	7:25 AM	20.91	107.9	9.58	608	7.39
CND-110	Rte 225, Bedford	6/17/2018	6:35 AM	20.57	100.8	9.04	621	7.25
CND-161	Lowell Rd bridge, Concord	6/17/2018	7:04 AM	20.46	78.6	7.05	673	7.50
SUD-005	Rte 62 Boat House, Concord	6/17/2018	6:00 AM	20.17	81.6	7.38	603	7.05
SUD-064	Sherman Br Rd, Wayland	6/17/2018	6:15 AM	20.09	60.3	5.46	657	7.09
SUD-086	River Rd, Wayland	6/17/2018	6:35 AM	20.15	67.7	6.04	657	7.00
SUD-096	Rte 20, Wayland	6/17/2018	6:41 AM	19.56	64.6	5.94	727	6.97
SUD-144	Sudbury Landing, Framingham	6/17/2018	7:26 AM	19.16	97.5	8.90	667	7.07

Summary Statistics for Mainstem Sites

Maximum	21.37	116.7	10.43	1005	7.81
Minimum	17.23	60.3	5.46	349	6.97

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μS/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	6/17/2018	6:20 AM	17.26	91.2	8.76	266	7.19
ELZ-004	Elizabeth Br, Stow	6/17/2018	7:26 AM	18.98	47.8	4.43	416	6.57
HBS-016	Hop Br, Sudbury	6/17/2018	7:00 AM	19.97	41.1	3.89	509	6.98
HOP-011	Hop Br, Northboro	6/17/2018	7:37 AM	18.96	77.3	7.14	898	7.35
NSH-002	Nashoba, Commonwealth, W. Concor	6/17/2018	8:12 AM	20.26	101.7	9.18	643	7.43
NSH-047	Nashoba, Wheeler Ln, Acton	6/17/2018	7:35 AM	17.87	79.4	7.50	613	7.41
NTH-009	North Br, Berlin	6/17/2018	7:00 AM	17.53	82.7	7.89	274	7.42
RVM-005	River Mead, Thorndike, Lowell	6/17/2018	8:10 AM	18.00	108.9	10.28	981	7.10

Summary Statistics for Tributary Sites

Maximum	20.26	108.9	10.28	981	7.43
Minimum	17.26	41.1	3.89	266	6.57

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chlorophyll a

Mainstem				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
SUD-005	Rte 62 Boat House, Concord	6/19/2018	10:22 AM	15.1
SUD-064	Sherman Br Rd, Wayland	6/19/2018	10:46 AM	9.05
SUD-086	River Rd, Wayland	6/19/2018	11:05 AM	5.91
SUD-096	Rte 20, Wayland	6/19/2018	11:16 AM	5.46
SUD-144	Sudbury Landing, Framingham	6/19/2018	11:40 AM	3.90

Summary Statistics for Mainstem Sites

Maximum	15.1
Minimum	3.9

Tributary				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
HBS-016	Hop Br, Sudbury	6/19/2018	11:26 AM	< 2

Summary Statistics for Tributary Sites

Maximum	< 2
Minimum	< 2

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho – P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	7/22/2018	6:26 AM	7	0.03	< 0.01	0.54	< 0.1
ABT-062	Rte 62, Acton	7/22/2018	6:09 AM	2	0.03	< 0.01	0.67	< 0.1
ABT-237	Robin Hill Rd, Marlboro	7/22/2018	12:52 PM	2	0.02	0.02	2.1	< 0.1
ABT-301	Rte 9, Westboro	7/22/2018	6:55 AM	2	< 0.01	< 0.01	3.2	< 0.1
ABT-312	Mill Road, Westboro	7/22/2018	7:10 AM	2	< 0.01	< 0.01	< 0.05	< 0.1
CND-009	Rogers St, Lowell	7/22/2018	7:16 AM	6	< 0.01	< 0.01	1	< 0.1
CND-045	Lowell St, Billerica	7/22/2018	6:53 AM	5	< 0.01	< 0.01	0.77	< 0.1
CND-110	Rte 225, Bedford	7/22/2018	6:24 AM	5	0.03	< 0.01	0.36	< 0.1
CND-161	Lowell Rd bridge, Concord	7/22/2018	6:45 AM	6	0.03	0.01	< 0.05	< 0.1
SUD-005	Rte 62 Boat House, Concord	7/22/2018	6:01 AM	4	0.03	< 0.01	< 0.05	< 0.1
SUD-064	Sherman Br Rd, Wayland	7/22/2018	6:07 AM	2	0.01	0.01	< 0.05	< 0.1
SUD-086	River Rd, Wayland	7/22/2018	6:28 AM	4	0.02	0.02	< 0.05	< 0.1
SUD-096	Rte 20, Wayland	7/22/2018	6:47 AM	16	0.03	0.02	0.05	< 0.1
SUD-144	Sudbury Landing, Framingham	7/22/2018	7:30 AM	6	< 0.01	< 0.01	0.06	< 0.1

Summary Statistics for Mainstem Sites

Maximum	16	0.03	0.02	3.2	< 0.1
Minimum	2	< 0.01	< 0.01	< 0.05	< 0.1

Tributary				TSS	TP	ortho – P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
HBS-016	Hop Br, Sudbury	7/22/2018	7:15 AM	7	0.06	0.06	0.25	< 0.1
HOP-011	Hop Br, Northboro	7/22/2018	6:40 AM	3	0.05	0.03	0.15	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	7/22/2018	7:35 AM	16	0.21	0.03	< 0.05	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	7/22/2018	7:12 AM	2	0.02	< 0.01	0.07	< 0.1
NTH-009	North Br, Berlin	7/22/2018	7:55 AM	5	< 0.01	< 0.01	0.26	< 0.1
RVM-005	River Mead, Thorndike, Lowell	7/22/2018	7:33 AM	4	0.02	< 0.01	0.33	0.12

Summary Statistics for Tributary Sites

Maximum	16	0.21	0.06	0.33	0.12
Minimum	2	< 0.01	< 0.01	< 0.05	< 0.1

OARS

na = not assessed; nr = not reported

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	7/22/2018	6:26 AM	23.64	81.5	6.89	579	7.32
ABT-062	Rte 62, Acton	7/22/2018	6:09 AM	23.68	99.4	8.42	569	7.31
ABT-237	Robin Hill Rd, Marlboro	7/22/2018	7:35 AM	21.30	80.6	7.13	631	7.15
ABT-301	Rte 9, Westboro	7/22/2018	6:55 AM	22.50	81.7	7.07	563	7.15
ABT-312	Mill Road, Westboro	7/22/2018	7:10 AM	25.04	94.9	7.83	330	7.47
CND-009	Rogers St, Lowell	7/22/2018	7:16 AM	25.31	96.0	7.83	704	7.35
CND-045	Lowell St, Billerica	7/22/2018	6:53 AM	25.27	105.3	8.56	658	7.35
CND-110	Rte 225, Bedford	7/22/2018	6:24 AM	25.10	87.7	7.23	578	7.02
CND-161	Lowell Rd bridge, Concord	7/22/2018	6:45 AM	24.30	69.7	5.90	615	7.23
SUD-005	Rte 62 Boat House, Concord	7/22/2018	6:01 AM	24.87	63.4	5.24	575	6.60
SUD-064	Sherman Br Rd, Wayland	7/22/2018	6:07 AM	22.86	36.9	3.13	615	6.62
SUD-086	River Rd, Wayland	7/22/2018	6:28 AM	23.23	50.3	4.28	635	6.66
SUD-096	Rte 20, Wayland	7/22/2018	6:47 AM	23.07	54.4	4.64	640	6.71
SUD-144	Sudbury Landing, Framingham	7/22/2018	7:30 AM	23.86	90.1	7.59	657	7.03

Summary Statistics for Mainstem Sites

Maximum	25.31	105.3	8.56	704	7.47
Minimum	21.30	36.9	3.13	330	6.60

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μS/cm)	pH (s.u.)
HBS-016	Hop Br, Sudbury	7/22/2018	7:15 AM	21.14	15.0	1.33	577	6.71
HOP-011	Hop Br, Northboro	7/22/2018	6:40 AM	21.22	83.7	7.39	699	7.06
NSH-002	Nashoba, Commonwealth, W. Concor	7/22/2018	7:35 AM	23.44	84.7	7.19	636	7.24
NSH-047	Nashoba, Wheeler Ln, Acton	7/22/2018	7:12 AM	21.57	76.9	6.75	774	7.08
NTH-009	North Br, Berlin	7/22/2018	11:49 AM	19.93	96.7	8.20	296	7.22
RVM-005	River Mead, Thorndike, Lowell	7/22/2018	7:33 AM	21.55	91.7	8.10	1111	7.18

Summary Statistics for Tributary Sites

Maximum	23.44	96.7	8.20	1111	7.24
Minimum	19.93	15.0	1.33	296	6.71

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3	
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
ABT-077	Rte 27/USGS, Maynard	7/23/2018	7:01 AM	2	0.01	0.01	0.58	< 0.1	
ABT-144	Rte 62, Stow	7/23/2018	7:46 AM	2	0.02	< 0.01	1.7	< 0.1	
Summary Statistics for Mainstem Sites									
				Maximum	2	0.02	0.01	1.7	< 0.1
				Minimum	2	0.01	< 0.01	0.58	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3	
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
DAN-013	Danforth Br, Hudson	7/23/2018	8:07 AM	2	0.04	0.03	0.19	< 0.1	
ELZ-004	Elizabeth Br, Stow	7/23/2018	7:26 AM	2	< 0.01	< 0.01	0.1	< 0.1	
Summary Statistics for Tributary Sites									
				Maximum	2	0.04	0.03	0.19	< 0.1
				Minimum	2	< 0.01	< 0.01	0.1	< 0.1

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-077	Rte 27/USGS, Maynard	7/23/2018	7:01 AM	23.88	87.2	7.35	590	7.59
ABT-144	Rte 62, Stow	7/23/2018	7:46 AM	22.85	73.4	8.02	642	7.20

Summary Statistics for Mainstem Sites

Maximum	23.88	87.2	8.02	642	7.59
Minimum	22.85	73.4	7.35	590	7.20

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	7/23/2018	8:07 AM	21.22	81.4	7.22	263	7.63
ELZ-004	Elizabeth Br, Stow	7/23/2018	7:26 AM	22.23	43.1	3.75	416	7.15

Summary Statistics for Tributary Sites

Maximum	22.23	81.4	7.22	416	7.63
Minimum	21.22	43.1	3.75	263	7.15

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chlorophyll a

Mainstem				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
SUD-005	Rte 62 Boat House, Concord	7/24/2018	10:23 AM	8.79
SUD-064	Sherman Br Rd, Wayland	7/24/2018	11:18 AM	6.10
SUD-086	River Rd, Wayland	7/24/2018	11:33 AM	4.80
SUD-096	Rte 20, Wayland	7/24/2018	11:43 AM	3.81
SUD-144	Sudbury Landing, Framingham	7/24/2018	12:13 AM	2.85

Summary Statistics for Mainstem Sites

Maximum	8.79
Minimum	2.85

Tributary				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
HBS-016	Hop Br, Sudbury	7/24/2018	11:52 AM	4.41

Summary Statistics for Tributary Sites

Maximum	4.41
Minimum	4.41

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	8/19/2018	6:30 AM	6	0.02	0.02	0.59	< 0.1
ABT-062	Rte 62, Acton	8/19/2018	6:07 AM	2	0.03	0.02	0.7	< 0.1
ABT-077	Rte 27/USGS, Maynard	8/19/2018	8:30 AM	3	0.02	< 0.01	0.65	< 0.1
ABT-144	Rte 62, Stow	8/19/2018	7:12 AM	8	0.02	0.01	1.4	< 0.1
ABT-237	Robin Hill Rd, Marlboro	8/19/2018	7:34 AM	3	0.03	0.02	1.7	< 0.1
ABT-301	Rte 9, Westboro	8/19/2018	7:10 AM	3	< 0.01	< 0.01	1.5	< 0.1
ABT-312	Mill Road, Westboro	8/19/2018	6:36 AM	3	< 0.01	< 0.01	< 0.05	< 0.1
CND-009	Rogers St, Lowell	8/19/2018	7:30 AM	6	0.04	< 0.01	0.4	< 0.1
CND-045	Lowell St, Billerica	8/19/2018	6:47 AM	8	0.05	< 0.01	0.54	< 0.1
CND-110	Rte 225, Bedford	8/19/2018	6:35 AM	6	0.06	0.01	0.53	< 0.1
CND-161	Lowell Rd bridge, Concord	8/19/2018	6:48 AM	4	< 0.01	< 0.01	0.08	< 0.1
SUD-005	Rte 62 Boat House, Concord	8/19/2018	6:10 AM	3	0.03	< 0.01	< 0.05	< 0.1
SUD-064	Sherman Br Rd, Wayland	8/19/2018	6:10 AM	3	0.03	0.02	< 0.05	< 0.1
SUD-086	River Rd, Wayland	8/19/2018	6:40 AM	3	0.03	0.03	0.05	< 0.1
SUD-096	Rte 20, Wayland	8/19/2018	7:00 AM	3	0.02	0.02	0.07	< 0.1
SUD-144	Sudbury Landing, Framingham	8/19/2018	7:55 AM	< 1	0.01	0.01	0.16	< 0.1

Summary Statistics for Mainstem Sites

Maximum	8	0.06	0.03	1.7	< 0.1
Minimum	< 1	< 0.01	< 0.01	< 0.05	< 0.1

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Tributary				TSS	TP	ortho - P	NO3	NH3	
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
DAN-013	Danforth Br, Hudson	8/19/2018	6:30 AM	44	0.05	< 0.01	0.07	< 0.1	
ELZ-004	Elizabeth Br, Stow	8/19/2018	7:57 AM	6	0.02	< 0.01	0.07	< 0.1	
HBS-016	Hop Br, Sudbury	8/19/2018	7:23 AM	10	0.21	0.13	0.1	< 0.1	
HOP-011	Hop Br, Northboro	8/19/2018	6:54 AM	4	0.03	< 0.01	0.18	< 0.1	
NSH-002	Nashoba, Commonwealth, W. Con	8/19/2018	7:40 AM	7	0.06	0.02	0.27	< 0.1	
NSH-047	Nashoba, Wheeler Ln, Acton	8/19/2018	7:16 AM	3	0.02	0.02	0.1	< 0.1	
NTH-009	North Br, Berlin	8/19/2018	7:53 AM	5	0.01	< 0.01	0.13	< 0.1	
RVM-005	River Mead, Thorndike, Lowell	8/19/2018	7:45 AM	7	0.08	0.02	0.09	< 0.1	
Summary Statistics for Tributary Sites									
				Maximum	44	0.21	0.13	0.27	< 0.1
				Minimum	3	0.01	< 0.01	0.07	< 0.1

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chloride

Mainstem				Chloride
Site Number	Location	Date	Time	(mg/L)
ABT-026	Rte 2, Concord	8/19/2018	6:30 AM	153
ABT-077	Rte 27/USGS, Maynard	8/19/2018	8:30 AM	152
ABT-301	Rte 9, Westboro	8/19/2018	7:10 AM	211
ABT-312	Mill Road, Westboro	8/19/2018	6:36 AM	69.6
CND-009	Rogers St, Lowell	8/19/2018	7:30 AM	180
CND-161	Lowell Rd bridge, Concord	8/19/2018	6:48 AM	176
SUD-005	Rte 62 Boat House, Concord	8/19/2018	6:10 AM	180
SUD-064	Sherman Br Rd, Wayland	8/19/2018	6:10 AM	184
SUD-086	River Rd, Wayland	8/19/2018	6:40 AM	190
SUD-096	Rte 20, Wayland	8/19/2018	7:00 AM	196
SUD-144	Sudbury Landing, Framingham	8/19/2018	7:55 AM	209

Summary Statistics for Mainstem Sites

Maximum	211
Minimum	69.6

Tributary				Chloride
Site Number	Location	Date	Time	(mg/L)
DAN-013	Danforth Br, Hudson	8/19/2018	6:30 AM	55.4
ELZ-004	Elizabeth Br, Stow	8/19/2018	7:57 AM	105
HBS-016	Hop Br, Sudbury	8/19/2018	7:23 AM	151
HOP-011	Hop Br, Northboro	8/19/2018	6:54 AM	161
NSH-002	Nashoba, Commonwealth, W. Con	8/19/2018	7:40 AM	149
NSH-047	Nashoba, Wheeler Ln, Acton	8/19/2018	7:16 AM	213
NTH-009	North Br, Berlin	8/19/2018	7:53 AM	69
RVM-005	River Mead, Thorndike, Lowell	8/19/2018	7:45 AM	174

Summary Statistics for Tributary Sites

Maximum	213
Minimum	55.4

OARS

na = not assessed; nr = not reported

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	8/19/2018	6:30 AM	23.05	77.6	6.55	565	7.36
ABT-062	Rte 62, Acton	8/19/2018	6:07 AM	24.10	101.1	8.46	579	7.41
ABT-077	Rte 27/USGS, Maynard	8/19/2018	8:30 AM	24.22	93.3	7.84	529	7.33
ABT-095	White Pond Rd, Stow	8/19/2018	8:10 AM	23.99	62.1	5.21	524	7.04
ABT-134	Sudbury Rd, Stow	8/19/2018	7:33 AM	23.64	63.6	5.37	563	7.23
ABT-144	Rte 62, Stow	8/19/2018	7:12 AM	23.32	92.6	7.88	578	7.29
ABT-162	Cox St, Hudson	8/19/2018	6:58 AM	23.27	84.6	7.20	623	7.18
ABT-237	Robin Hill Rd, Marlboro	8/19/2018	7:34 AM	21.07	82.8	7.36	705	7.11
ABT-301	Rte 9, Westboro	8/19/2018	7:10 AM	22.29	81.6	7.08	657	6.95
ABT-312	Mill Road, Westboro	8/19/2018	6:36 AM	23.09	90.6	7.62	268	7.41
CND-009	Rogers St, Lowell	8/19/2018	7:30 AM	24.41	88.0	7.34	559	7.24
CND-045	Lowell St, Billerica	8/19/2018	6:47 AM	24.98	93.0	7.68	577	7.26
CND-110	Rte 225, Bedford	8/19/2018	6:35 AM	25.03	64.5	5.31	557	7.07
CND-161	Lowell Rd bridge, Concord	8/19/2018	6:48 AM	24.63	53.3	4.38	626	7.29
SUD-005	Rte 62 Boat House, Concord	8/19/2018	6:10 AM	25.21	39.9	3.28	571	6.83
SUD-064	Sherman Br Rd, Wayland	8/19/2018	6:10 AM	23.80	21.2	1.79	599	6.91
SUD-086	River Rd, Wayland	8/19/2018	6:40 AM	23.88	24.6	2.07	615	6.90
SUD-096	Rte 20, Wayland	8/19/2018	7:00 AM	23.28	26.6	2.37	597	7.01
SUD-144	Sudbury Landing, Framingham	8/19/2018	7:55 AM	24.29	90.6	7.57	680	7.14

Summary Statistics for Mainstem Sites

Maximum	25.21	101.1	8.46	705	7.41
Minimum	21.07	21.2	1.79	268	6.83

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	8/19/2018	6:30 AM	22.17	94.6	8.24	229	7.46
ELZ-004	Elizabeth Br, Stow	8/19/2018	7:57 AM	22.46	51.3	4.44	364	7.07
HBS-016	Hop Br, Sudbury	8/19/2018	7:23 AM	22.07	10.90	0.94	537	6.96
HOP-011	Hop Br, Northboro	8/19/2018	6:54 AM	20.40	75.0	6.75	481	6.84
NSH-002	Nashoba, Commonwealth, W. Concor	8/19/2018	7:40 AM	23.53	58.4	4.96	527	7.15
NSH-047	Nashoba, Wheeler Ln, Acton	8/19/2018	7:16 AM	21.91	76.6	6.70	699	7.17
NTH-009	North Br, Berlin	8/19/2018	7:53 AM	19.84	95.1	8.67	248	7.06
RVM-005	River Mead, Thorndike, Lowell	8/19/2018	7:45 AM	22.35	93.6	8.09	512	7.05

Summary Statistics for Tributary Sites

Maximum	23.53	95.1	8.67	699	7.46
Minimum	19.84	10.9	0.94	229	6.84

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chlorophyll a

Mainstem				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
SUD-005	Rte 62 Boat House, Concord	8/24/2018	9:35 AM	7.69
SUD-064	Sherman Br Rd, Wayland	8/24/2018	10:10 AM	3.03
SUD-086	River Rd, Wayland	8/24/2018	10:35 AM	17.8
SUD-096	Rte 20, Wayland	8/24/2018	10:50 AM	2.86
SUD-144	Sudbury Landing, Framingham	8/24/2018	11:25 AM	< 2

Summary Statistics for Mainstem Sites

Maximum	17.8
Minimum	< 2

Tributary				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
HBS-016	Hop Br, Sudbury	8/24/2018	11:10 AM	2.27

Summary Statistics for Tributary Sites

Maximum	2.27
Minimum	2.27

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	9/23/2018	6:33 AM	6	0.03	0.03	0.53	< 0.1
ABT-077	Rte 27/USGS, Maynard	9/23/2018	8:40 AM	2	0.03	0.03	0.58	< 0.1
ABT-301	Rte 9, Westboro	9/23/2018	8:10 AM	2	0.01	0.01	0.81	< 0.1
ABT-312	Mill Road, Westboro	9/23/2018	8:35 AM	1	< 0.01	< 0.01	< 0.05	< 0.1
CND-009	Rogers St, Lowell	9/23/2018	7:30 AM	4	0.04	0.03	0.52	< 0.1
CND-161	Lowell Rd bridge, Concord	9/23/2018	6:55 AM	7	0.03	0.02	< 0.05	< 0.1
SUD-005	Rte 62 Boat House, Concord	9/23/2018	6:46 AM	4	0.02	0.02	< 0.05	< 0.1
SUD-064	Sherman Br Rd, Wayland	9/23/2018	6:37 AM	2	0.03	0.03	< 0.05	< 0.1
SUD-086	River Rd, Wayland	9/23/2018	6:57 AM	1	0.02	0.02	0.06	< 0.1
SUD-096	Rte 20, Wayland	9/23/2018	7:16 AM	1	0.02	0.02	0.07	< 0.1
SUD-144	Sudbury Landing, Framingham	9/23/2018	7:52 AM	2	0.01	0.01	0.08	< 0.1

Summary Statistics for Mainstem Sites

Maximum	7	0.04	0.03	0.81	< 0.1
Minimum	1	< 0.01	< 0.01	< 0.05	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAN-013	Danforth Br, Hudson	9/23/2018	7:00 AM	2	0.03	0.03	0.05	< 0.1
ELZ-004	Elizabeth Br, Stow	9/23/2018	8:07 AM	< 1	0.02	0.01	0.06	< 0.1
HBS-016	Hop Br, Sudbury	9/23/2018	7:32 AM	< 1	0.04	0.03	0.78	< 0.1
HOP-011	Hop Br, Northboro	9/23/2018	8:00 AM	1	0.02	0.02	0.36	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	9/23/2018	7:47 AM	2	0.02	0.02	0.09	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	9/23/2018	7:20 AM	2	0.03	0.03	0.15	< 0.1
NTH-009	North Br, Berlin	9/23/2018	7:30 AM	23	0.02	0.02	0.13	< 0.1
RVM-005	River Mead, Thorndike, Lowell	9/23/2018	7:53 AM	4	0.04	0.04	0.17	0.11

Summary Statistics for Tributary Sites

Maximum	23	0.04	0.04	0.78	0.11
Minimum	< 1	0.02	0.01	0.05	< 0.1

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	9/23/2018	6:33 AM	17.67	89.0	8.47	461	6.97
ABT-077	Rte 27/USGS, Maynard	9/23/2018	8:40 AM	17.84	89.4	8.47	434	7.02
ABT-095	White Pond Rd, Stow	9/23/2018	8:20 AM	17.49	78.7	7.56	424	6.83
ABT-134	Sudbury Rd, Stow	9/23/2018	7:48 AM	17.17	79.5	7.65	467	6.99
ABT-162	Cox St, Hudson	9/23/2018	7:21 AM	17.22	90.2	8.68	491	7.11
ABT-301	Rte 9, Westboro	9/23/2018	8:10 AM	17.59	96.5	9.19	418	7.44
ABT-312	Mill Road, Westboro	9/23/2018	8:35 AM	18.99	101.9	9.45	236	7.56
CND-009	Rogers St, Lowell	9/23/2018	7:30 AM	18.75	91.9	8.59	461	6.93
CND-161	Lowell Rd bridge, Concord	9/23/2018	6:55 AM	18.29	63.7	6.23	459	6.84
SUD-005	Rte 62 Boat House, Concord	9/23/2018	6:46 AM	18.81	36.1	3.35	418	6.61
SUD-064	Sherman Br Rd, Wayland	9/23/2018	6:37 AM	17.98	28.8	2.76	467	6.78
SUD-086	River Rd, Wayland	9/23/2018	6:57 AM	18.26	42.1	3.93	487	6.76
SUD-096	Rte 20, Wayland	9/23/2018	7:16 AM	18.08	52.1	4.82	489	6.76
SUD-144	Sudbury Landing, Framingham	9/23/2018	7:52 AM	18.58	99.9	9.27	488	7.01

Summary Statistics for Mainstem Sites

Maximum	18.99	101.9	9.45	491	7.56
Minimum	17.17	28.8	2.76	236	6.61

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	9/23/2018	7:00 AM	15.63	93.8	9.32	228	7.36
ELZ-004	Elizabeth Br, Stow	9/23/2018	8:07 AM	15.44	72.0	7.16	337	6.84
HBS-016	Hop Br, Sudbury	9/23/2018	7:32 AM	15.43	37.4	3.72	467	6.76
HOP-011	Hop Br, Northboro	9/23/2018	8:00 AM	16.52	89.7	8.75	643	7.34
NSH-002	Nashoba, Commonwealth, W. Concor	9/23/2018	7:47 AM	17.63	84.0	7.99	409	6.83
NSH-047	Nashoba, Wheeler Ln, Acton	9/23/2018	7:20 AM	15.60	81.9	8.09	553	6.79
NTH-009	North Br, Berlin	9/23/2018	7:30 AM	14.54	96.8	9.87	216	7.62
RVM-005	River Mead, Thorndike, Lowell	9/23/2018	7:53 AM	16.38	97.0	9.47	662	6.95

Summary Statistics for Tributary Sites

Maximum	17.63	97.0	9.87	662	7.62
Minimum	14.54	37.4	3.72	216	6.76

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	11/11/2018	8:30 AM	2	0.07	0.02	0.38	< 0.1
ABT-077	Rte 27/USGS, Maynard	11/11/2018	10:01 AM	1	0.08	0.02	0.42	< 0.1
ABT-301	Rte 9, Westboro	11/11/2018	9:45 AM	1	0.07	< 0.01	0.87	< 0.1
ABT-312	Mill Road, Westboro	11/11/2018	9:19 AM	< 1	0.05	< 0.01	0.13	< 0.1
CND-009	Rogers St, Lowell	11/11/2018	10:05 AM	4	0.07	0.02	0.24	< 0.1
CND-161	Lowell Rd bridge, Concord	11/11/2018	8:49 AM	6	0.08	0.01	< 0.05	< 0.1
SUD-005	Rte 62 Boat House, Concord	11/11/2018	8:24 AM	1	0.07	0.01	0.12	< 0.1
SUD-144	Sudbury Landing, Framingham	11/11/2018	8:39 AM	1	0.05	0.01	0.16	< 0.1

Summary Statistics for Mainstem Sites

Maximum	6	0.08	0.02	0.87	< 0.1
Minimum	< 1	0.05	< 0.01	< 0.05	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAN-013	Danforth Br, Hudson	11/11/2018	9:13 AM	1	0.05	< 0.01	< 0.05	< 0.1
ELZ-004	Elizabeth Br, Stow	11/11/2018	9:43 AM	1	0.07	< 0.01	0.10	< 0.1
HOP-011	Hop Br, Northboro	11/11/2018	9:33 AM	< 1	0.08	0.01	0.44	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	11/11/2018	10:24 AM	< 1	0.08	0.01	0.24	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	11/11/2018	9:15 AM	1	0.06	0.01	0.17	< 0.1
NTH-009	North Br, Berlin	11/11/2018	10:12 AM	< 1	0.06	0.01	0.17	< 0.1

Summary Statistics for Tributary Sites

Maximum	1	0.08	0.01	0.44	< 0.1
Minimum	< 1	0.05	< 0.01	< 0.05	< 0.1

OARS

na = not assessed; nr = not reported

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chloride

Mainstem				Chloride
Site Number	Location	Date	Time	(mg/L)
ABT-026	Rte 2, Concord	11/11/2018	8:30 AM	89.3
ABT-077	Rte 27/USGS, Maynard	11/11/2018	10:01 AM	91.6
ABT-301	Rte 9, Westboro	11/11/2018	9:45 AM	81.2
ABT-312	Mill Road, Westboro	11/11/2018	9:19 AM	49.8
CND-009	Rogers St, Lowell	11/11/2018	10:05 AM	106
CND-161	Lowell Rd bridge, Concord	11/11/2018	8:49 AM	95.1
SUD-005	Rte 62 Boat House, Concord	11/11/2018	8:24 AM	115
SUD-144	Sudbury Landing, Framingham	11/11/2018	8:39 AM	105

Summary Statistics for Mainstem Sites

Maximum	115
Minimum	49.8

Tributary				Chloride
Site Number	Location	Date	Time	(mg/L)
DAN-013	Danforth Br, Hudson	11/11/2018	9:13 AM	43.1
ELZ-004	Elizabeth Br, Stow	11/11/2018	9:43 AM	65.6
HOP-011	Hop Br, Northboro	11/11/2018	9:33 AM	98.1
NSH-002	Nashoba, Commonwealth, W. Con	11/11/2018	10:24 AM	84.9
NSH-047	Nashoba, Wheeler Ln, Acton	11/11/2018	9:15 AM	107
NTH-009	North Br, Berlin	11/11/2018	10:12 AM	37

Summary Statistics for Tributary Sites

Maximum	107
Minimum	37

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	11/11/2018	8:30 AM	5.66	97.6	12.25	243	7.16
ABT-077	Rte 27/USGS, Maynard	11/11/2018	10:01 AM	5.65	98.9	12.40	249	6.94
ABT-301	Rte 9, Westboro	11/11/2018	9:45 AM	7.04	86.8	10.52	197	6.81
ABT-312	Mill Road, Westboro	11/11/2018	1:45 PM	7.19	99.4	12.00	142	7.01
CND-009	Rogers St, Lowell	11/11/2018	10:05 AM	6.37	96.8	11.90	253	6.65
CND-161	Lowell Rd bridge, Concord	11/11/2018	8:49 AM	6.34	79.5	9.71	249	6.77
SUD-005	Rte 62 Boat House, Concord	11/11/2018	8:24 AM	6.87	60.4	7.34	275	6.80
SUD-144	Sudbury Landing, Framingham	11/11/2018	8:39 AM	7.45	103.1	12.37	253	6.92

Summary Statistics for Mainstem Sites

Maximum	7.45	103.1	12.40	275	7.16
Minimum	5.65	60.4	7.34	142	6.65

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	11/11/2018	9:13 AM	4.23	104.6	13.61	130	7.35
ELZ-004	Elizabeth Br, Stow	11/11/2018	9:43 AM	4.86	93.8	12.00	177	7.02
HOP-011	Hop Br, Northboro	11/11/2018	9:33 AM	5.04	89.5	11.39	233	6.61
NSH-002	Nashoba, Commonwealth, W. Concor	11/11/2018	10:24 AM	5.23	92.5	11.72	228	6.93
NSH-047	Nashoba, Wheeler Ln, Acton	11/11/2018	9:15 AM	4.09	90.7	11.85	238	6.69
NTH-009	North Br, Berlin	11/11/2018	10:12 AM	5.23	97.4	12.36	103	6.62

Summary Statistics for Tributary Sites

Maximum	5.23	104.6	13.61	238	7.35
Minimum	4.09	89.5	11.39	103	6.61

Assabet River StreamWatch Streamflow Observations Report

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	3/28/2018	10:29 AM	2.94	287
ABT-077	Rte 27/USGS, Maynard	5/20/2018	7:30 AM	2.71	226
ABT-077	Rte 27/USGS, Maynard	6/17/2018	7:48 AM	1.67	47.4
ABT-077	Rte 27/USGS, Maynard	7/23/2018	7:01 AM	2.23	122
ABT-077	Rte 27/USGS, Maynard	8/19/2018	8:30 AM	2.67	217
ABT-077	Rte 27/USGS, Maynard	9/23/2018	8:40 AM	2.64	209
ABT-077	Rte 27/USGS, Maynard	11/11/2018	10:01 AM	4.45	857

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-312	Mill Road, Westboro	3/29/2018	10:55 AM	1.72	14.3
ABT-312	Mill Road, Westboro	5/20/2018	8:00 AM	1.67	12.34
ABT-312	Mill Road, Westboro	6/17/2018	7:23 AM	1.00	0.158
ABT-312	Mill Road, Westboro	7/22/2018	7:10 AM	1.56	8.38
ABT-312	Mill Road, Westboro	8/19/2018	6:36 AM	1.75	15.57
ABT-312	Mill Road, Westboro	9/23/2018	8:35 AM	1.75	15.57
ABT-312	Mill Road, Westboro	11/11/2018	9:19 AM	2.36	57.88

Assabet River StreamWatch Streamflow Observations Report

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
CND-009	Rogers St, Lowell	3/28/2018	10:20 AM	5.93	1040
CND-009	Rogers St, Lowell	5/20/2018	6:40 AM	5.62	804
CND-009	Rogers St, Lowell	6/17/2018	7:45 AM	4.59	252
CND-009	Rogers St, Lowell	7/22/2018	7:16 AM	4.94	405
CND-009	Rogers St, Lowell	8/19/2018	7:30 AM	5.22	547
CND-009	Rogers St, Lowell	9/23/2018	7:30 AM	5.51	725
CND-009	Rogers St, Lowell	11/11/2018	10:05 AM	6.94	1970
Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	3/28/2018	9:37 AM	1.48	16.9
DAN-013	Danforth Br, Hudson	5/20/2018	6:30 AM	1.26	7.88
DAN-013	Danforth Br, Hudson	6/17/2018	6:20 AM	0.79	0.904
DAN-013	Danforth Br, Hudson	7/23/2018	8:07 AM	0.79	0.904
DAN-013	Danforth Br, Hudson	8/19/2018	6:30 AM	1.20	6.3
DAN-013	Danforth Br, Hudson	9/23/2018	7:00 AM	1.08	3.91
DAN-013	Danforth Br, Hudson	11/11/2018	9:13 AM	2.19	> rating

Assabet River StreamWatch Streamflow Observations Report

Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
HOP-011	Hop Br, Northboro	3/29/2018	11:15 AM	4.94	26.46
HOP-011	Hop Br, Northboro	5/20/2018	7:25 AM	4.68	14.54
HOP-011	Hop Br, Northboro	6/17/2018	7:37 AM	4.14	2.72
HOP-011	Hop Br, Northboro	7/22/2018	6:40 AM	4.26	4.15
HOP-011	Hop Br, Northboro	8/19/2018	6:54 AM	4.82	20.32
HOP-011	Hop Br, Northboro	9/23/2018	8:00 AM	4.38	6.23
HOP-011	Hop Br, Northboro	11/11/2018	9:33 AM	5.70	> rating

Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
NSH-002	Nashoba, Commonwealth, W. Conc	3/28/2018	8:42 AM	2.44	162.2
NSH-002	Nashoba, Commonwealth, W. Conc	5/20/2018	7:34 AM	nr	nr
NSH-002	Nashoba, Commonwealth, W. Conc	6/17/2018	8:12 AM	NR	NR
NSH-002	Nashoba, Commonwealth, W. Conc	7/22/2018	7:35 AM	0.95	20.41
NSH-002	Nashoba, Commonwealth, W. Conc	8/19/2018	7:40 AM	1.72	85.71
NSH-002	Nashoba, Commonwealth, W. Conc	9/23/2018	7:47 AM	NA	NA
NSH-002	Nashoba, Commonwealth, W. Conc	11/11/2018	10:24 AM	5.17	> rating

Assabet River StreamWatch Streamflow Observations Report

Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
NSH-047	Nashoba, Wheeler Ln, Acton	3/28/2018	9:38 AM	4.32	35.5
NSH-047	Nashoba, Wheeler Ln, Acton	5/20/2018	7:05 AM	3.90	15.0
NSH-047	Nashoba, Wheeler Ln, Acton	6/17/2018	7:35 AM	3.17	2.12
NSH-047	Nashoba, Wheeler Ln, Acton	7/22/2018	7:12 AM	3.02	1.38
NSH-047	Nashoba, Wheeler Ln, Acton	8/19/2018	7:16 AM	4.02	19.3
NSH-047	Nashoba, Wheeler Ln, Acton	9/23/2018	7:20 AM	3.67	9.71
NSH-047	Nashoba, Wheeler Ln, Acton	11/11/2018	9:15 AM	4.98	77.6

Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
NTH-009	North Br, Berlin	3/29/2018	12:00 PM	5.60	71.9
NTH-009	North Br, Berlin	5/20/2018	7:00 AM	5.07	39.5
NTH-009	North Br, Berlin	6/17/2018	7:00 AM	4.18	5.4
NTH-009	North Br, Berlin	7/22/2018	7:55 AM	4.16	4.9
NTH-009	North Br, Berlin	8/19/2018	7:53 AM	4.75	24.3
NTH-009	North Br, Berlin	9/23/2018	7:30 AM	4.50	15.00
NTH-009	North Br, Berlin	11/11/2018	10:12 AM	6.12	113

Assabet River StreamWatch Streamflow Observations Report

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
SUD-144	Sudbury Landing, Framingham	3/29/2018	10:05 AM	6.96	351
SUD-144	Sudbury Landing, Framingham	5/20/2018	7:08 AM	7.85	321
SUD-144	Sudbury Landing, Framingham	6/17/2018	7:26 AM	NA	61.0
SUD-144	Sudbury Landing, Framingham	7/22/2018	7:30 AM	5.90	124
SUD-144	Sudbury Landing, Framingham	8/19/2018	7:55 AM	5.27	77.3
SUD-144	Sudbury Landing, Framingham	9/23/2018	7:52 AM	6.34	163
SUD-144	Sudbury Landing, Framingham	11/11/2018	8:39 AM	9.78	805