

New Hampshire Volunteer River Assessment Program

2019 Saco River Watershed Data

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES



	Measurements not meeting New Hampshire surface water quality standards
	Measurements not meeting NHDES quality assurance/quality control standards

^A Specific conductance > 835 $\mu\text{S}/\text{cm}$ indicates exceedance of chronic chloride standard of 230 mg/L

^B Chronic water quality standard

^C Calculated using 1/2 of the 0.25 mg/L detection limit of Total Kjeldahl Nitrogen (0.125 mg/L)

12-SAC, River Road Bridge, Bartlett

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA
06/10/2019	17:45	9.13	94.8	5.87	0.30	27.3	16.9
10/09/2019	17:11	9.72	90.0	5.95	0.00	29.6	11.8

11-SAC, Across from Fields of Attitash, Bartlett

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA
06/10/2019	17:17	9.53	104.3	5.95	0.33	17.2	18.6
10/9/2019	16:37	9.99	94.1	5.84	0.00	27.9	12.7

08-SAC, End of Intervale Lane, Bartlett

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA
06/10/2019	16:20	9.21	101.3	6.15	4.42	25.8	19.6
10/9/2019	15:46	9.73	91.4	6.21	0.30	25.8	12.5

06-EBS, East Branch Saco River, Town Hall Road Bridge, Bartlett, NHDES Trend Station

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)	<i>E. coli</i> Geometric Mean	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	230 ^B
06/18/2019	12:00	10.29	102.2	5.86	0.44	17.3	15.1	<10		<3
07/17/2019	12:10	9.35	100.4	6.64	0.54	22.6	18.9	<10		<3
08/14/2019	12:15	9.22	99.9	6.67	0.26	23.7	19.2	10	6	<3
10/17/2019	11:15	10.70	94.0	6.14	18.30	21.0	9.5			<3

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO ₂) + Nitrate(NO ₃) (mg/L)
Standard	NA	Narrative	Narrative	Narrative
06/18/2019	12:00	0.005	ND	ND
07/17/2019	12:10	0.005	ND	ND
08/14/2019	12:15	ND	ND	ND
10/17/2019	11:15	0.098	ND	

01-SAC, Route 113 Bridge, Fryeburg, ME, NHDES Trend Station

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)	<i>E. coli</i> Geometric Mean	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	230 ^B
06/18/2019	11:00	8.74	89.9	5.79	2.37	39.1	16.7	10		12
07/17/2019	11:00	8.53	96.6	6.43	0.61	73.7	21.5	31		14
08/14/2019	11:00	8.47	94.5	6.55	0.35	102.2	20.7	30	21	20
10/17/2019	10:30	10.45	94.9	6.65	1.21	83.3	11.0			18

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO ₂) + Nitrate(NO ₃) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
06/18/2019	11:00	0.008	ND	0.13	0.26 ^C
07/17/2019	11:00	0.006	ND	0.14	0.27 ^C
08/14/2019	11:00	0.006	ND	0.21	0.34 ^C
10/17/2019	10:30	0.030	ND	0.11	0.24 ^C

