

New Hampshire Volunteer River Assessment Program

2021 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: Saco River, Bartlett (River Road Bridge)

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
06/28/2021	18:00	7.95	94.2	6.30	0.00	3	23.8
08/26/2021	18:10	7.70	89.5	6.28	0.20	18	23.0
10/10/2021	16:15	9.77	91.7	6.41	0.00	33	13.5

11-SAC: Saco River, Bartlett (Across from Fields of Attitash)

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
06/28/2021	17:06	7.26	89.5	6.06	1.81	2	25.7

10A-SAC: Saco River, Bartlett (Covered Bridge)

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
08/26/2021	17:10	7.12	87.6	6.20	0.00	2	25.9
10/10/2021	15:30	8.70	85.2	6.41	0.20	42	14.3

08-SAC: Saco River, Bartlett (End of Intervale Lane)

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
06/28/2021	16:06	7.05	83.1	6.09	0.22	26	25.8
08/26/2021	15:55	7.63	92.1	6.13	0.00	48	24.8
10/10/2021	14:10	9.20	88.8	6.25	0.00	23	13.9

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm^A	NA	230^B
01/01/2021	11:40	13.98	95.9	6.47	0.30	19	0.1	<3
02/10/2021	12:10	14.66	100.5	6.53	<0.15	22	0.2	<3
03/17/2021	10:45	16.07	111.0	6.43	0.51	20	0.3	<3
04/06/2021	11:30	12.04	95.1	5.15	1.13	15	5.2	<3
05/05/2021	11:50	11.63	98.0	5.70	0.71	15	8.0	<3
06/17/2021	13:00	8.92	95.0	6.57	0.10	19	18.6	<3
07/21/2021	12:00	9.11	99.6	6.84	0.39	13	19.7	<3
08/11/2021	12:00	8.37	95.0	6.54	0.15	19	21.5	<3
09/15/2021	11:15	10.01	101.2	7.02	0.03	19	16.3	<3
10/19/2021	12:20	10.88	96.6	6.72	0.08	28	10.1	<3

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
04/06/2021	11:30	ND	ND	ND	
06/17/2021	13:00	ND	ND	0.081	0.206 ^C
07/21/2021	12:00	0.008	ND	ND	
08/11/2021	12:00	0.006	ND	ND	

01-SAC: Saco River, Fryeburg, ME (Route 113 Bridge) - NHDES Trend Station

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm^A	NA	230^B
01/11/2021	12:40	14.20	97.0	6.42	1.88	61	0.1	9
03/17/2021	11:40	14.04	99.1	6.41	0.60	70	1.2	12
04/06/2021	13:10	12.58	104.5	6.28	0.43	49	7.3	10
05/05/2021	12:50	11.23	97.4	6.26	0.64	34	9.3	9
06/17/2021	12:00	8.55	91.5	6.60	0.45	69	19.2	10
07/21/2021	11:00	8.64	96.5	6.34	0.45	55	20.8	9
08/11/2021	11:00	7.96	92.6	6.41	0.34	75	22.9	14
09/15/2021	13:40	8.92	98.2	6.49	0.53	80	20.0	15
10/19/2021	11:37	10.37	95.0	6.57	0.51	65	11.4	11

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)	E. coli (CTS/100mL)	E.coli Geometric Mean
Standard	NA	Narrative	Narrative	Narrative	Narrative	<406	<126
04/06/2021	13:10	ND	ND	0.090	0.215 ^C		
06/17/2021	12:00	0.009	ND	0.130	0.255 ^C	20	
07/21/2021	11:00	0.008	ND	0.480	0.605 ^C	74	
08/11/2021	11:00	0.010	ND	0.120	0.245 ^C	52	43



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