

New Hampshire Volunteer River Assessment Program  
2021 Cold 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

<sup>A</sup> Specific conductance > 835 µS/cm indicate exceedance of chronic chloride standard of 230 mg/L

<sup>B</sup> Chronic water quality standard

<sup>C</sup> Calculated using 1/2 of the 0.25 mg/L detection limit of Total Kjeldahl Nitrogen (0.125 mg/L) and/or 1/2 of the 0.050 mg/L detection limit of Nitrate+Nitrite (0.025 mg/L)

**01-WAB, Warren Brook, Route 123A Bridge, Alstead**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm <sup>A</sup>	NA
07/24/2021	10:20	9.56	102.4	6.96	0.83	53	18.6

**03-CLD, Cold River, Route 123 Bridge, Alstead**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm <sup>A</sup>	NA
07/24/2021	09:40	9.78	102.7	6.25	-0.16	50	17.1

**02-CLD, Cold River, Drewsville, Route 13 Bridge, Walpole, 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> GEOMEAN (CTS/100mL)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>
04/12/2021	10:15	11.57	101.8	6.18	0.33	78	9.8			13
06/21/2021	10:35	8.62	100.6	6.87	0.25	106	23.1	41		19
07/16/2021	10:40	9.53	100.0	6.46	9.49	38	17.7	583		5
08/16/2021	10:45	7.49	81.2	6.69	0.52	77	19.3	10	62	13

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO2) + Nitrate(NO3) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	NA	NA	NA	NA
04/12/2021	10:15	0.01	ND	0.100	0.225 <sup>C</sup>
06/21/2021	10:35	0.010	ND	0.130	0.255 <sup>C</sup>
07/16/2021	10:40	0.032	0.33	ND	0.325 <sup>C</sup>
08/16/2021	10:45	0.008	ND	0.130	0.255 <sup>C</sup>

**01-CLD, Cold River, Arch Bridge, Walpole**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835µS/cm <sup>A</sup>	NA
07/24/2021	11:00	9.30	102.9		-0.18	66	18.2

