

New Hampshire Volunteer River Assessment Program
2019 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

^A Specific conductance > 835 µS/cm indicate 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 detectin limit of Total Kjeldahl Nitrogen (0.125 mg/L)

07-CLD, Cold River, Grout Hill Road Bridge, Acworth

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 ^A	NA
06/22/2019	09:28	8.55	88.0	6.56	1.55	58.0	15.7
09/14/2019	10:44	9.98	91.8	6.54	0.27	104.3	11.7

05A-CLD, Cold River, Forrest Road Bridge, Acworth

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 ^A	NA
06/22/2019	10:00	10.32	102.5	6.48	0.93	58.0	15.0

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
07/09/2019	13:15	0.008	ND	0.15	0.28 ^C

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 ^A	NA
06/22/2019	10:22	9.59	102.5	6.44	0.79	71.4	17.7
09/14/2019	09:51	9.25	89.0	6.65	0.06	168.0	15.2

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 ^A	NA
06/22/2019	10:40	9.80	101.6	6.46	1.23	62.3	16.1
09/14/2019	09:36	9.96	97.0	6.65	0.40	123.1	14.8

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 ^A	NA	<406	<126	230 ^B
06/20/2019	10:45	9.39	98.1	7.05	0.40	85.9	17.5	63		13
07/18/2019	10:15	8.70	98.4	7.14	0.48	105.9	21.4	52		21
08/15/2019	10:15	8.45	92.8	7.05	0.31	132.2	19.9	31	47	24
10/22/2019	10:30	11.76	103.4	6.33	0.39	93.8	9.7			17

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
06/20/2019	10:45	0.007	ND	0.11	0.24 ^C
07/09/2019	11:45	0.007	ND	0.21	0.34 ^C
07/18/2019	10:15	0.007	ND	0.17	0.30 ^C
08/15/2019	10:15	0.006	ND	0.16	0.29 ^C
10/22/2019	10:30	0.009	ND	0.06	0.19 ^C

01-GRB, Great Brook, Cold River Road Bridge, Langdon

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 ^A	NA
06/22/2019	11:07	9.60	96.2	6.48	0.35	81.1	14.8
09/14/2019	09:15	9.85	88.5	6.59	0.30	128.5	12.3

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
07/09/2019	10:45	0.007	ND	0.31	0.44 ^C

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 ^A	NA
06/22/2019	11:29	10.03	104.4	6.58	1.09	69.7	16.9
09/14/2019	08:53	9.91	95.3	7.03	0.32	144.0	13.8

01-CRB, Crane Brook, Mason Road, Langdon

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 ^A	NA
09/14/2019	10:19	8.98	84.5	6.52	0.15	115.8	13.2

