

New Hampshire Volunteer River Assessment Program  
2021 Warner 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  $\mu\text{S}/\text{cm}$  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)

**15-ADW: Andrew Brook, Newbury (Mountain Road)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835<math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>
06/12/2021	1:00	8.38	84.8	5.45	0.79	29	15.9
07/24/2021	12:30	7.00	74.4	5.34		16	18.0
08/22/2021	10:45	6.18	68.2	5.00	0.36	21	20.1
09/26/2021	12:15	7.33	74.8	5.22	0.21	16	16.2

**04-ADW: Andrew Brook, Newbury (Sutton Road)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835<math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>
06/12/2021	13:20	5.66	61.1	5.72	1.69	63	19.0
07/24/2021	12:45	7.00	74.2	5.81		43	18.0
08/22/2021	11:00	4.79	53.3	5.23	0.97	51	21.0
09/26/2021	12:40	8.41	84.0	5.42	0.44	46	15.4

**TODNBYO: Andrew Brook, Bradford (Todd Lake Outlet) - NHDES VLAP Station**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )	Chloride (mg/L)	Total Phosphorus (mg/L)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835<math>\mu\text{S}/\text{cm}^{\text{A}}</math></b>	<b>NA</b>	<b>230<sup>B</sup></b>	<b>NA</b>
06/12/2021	12:20	6.03	70.9	6.09	0.46	58	23.7		
06/27/2021	11:30			6.90	0.89	61		5	0.016
07/24/2021	11:55	7.60	87.1	6.08		40	22.4		
07/25/2021	14:00			6.57	1.06	39		5	0.016
08/22/2021	10:15	5.80	70.2	5.45	0.34	46	24.7		
08/29/2021	15:00			6.67	1.07	41		5	0.014
09/26/2021	11:40	6.95	77.3	5.90	0.35	51	20.4		

**01-WBW: West Branch Warner River, Bradford (Water Street)**

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
06/12/2021	12:40	8.85	90.5	6.34	0.24	66	16.5
07/24/2021	12:05	8.04	83.7	6.07		34	17.2
08/22/2021	10:30	7.31	80.3	5.60	0.36	57	19.9
09/26/2021	11:55	9.73	92.7	5.78	0.32	43	15.1

#### 01-HOY: Hoyt Brook, Bradford (Jones Street Bridge)

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
6/12/2021	12:00	7.34	76.4	6.45	1.57	61	17.3
7/24/2021	11:40	7.72	83.8	5.82		30	18.1
8/22/2021	10:00	6.38	72.0	5.67	0.79	52	21.3
09/26/2021	11:25	9.11	91.3	5.63	0.73	34	15.6

#### 11F-WNR: Warner River, Warner (Breezy Hill Road)

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
6/12/2021	11:40	6.62	70.9	5.85	0.70	89	18.6
7/24/2021	11:15	6.19	69.1	5.50		44	20.7
8/22/2021	9:45	4.71	54.9	5.29	0.63	69	22.9
09/26/2021	11:10	6.77	70.9	5.68	0.40	48	17.5

#### 10-WNR: Warner River, Bradford (Melvin Mills Road) - 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 <sup>A</sup>	NA	230 <sup>B</sup>
04/12/2021	12:45	10.40	94.0	5.79	0.50	55	11.0	9
06/21/2021	13:40	8.23	96.3	6.63	0.60	95	23.1	18
07/19/2021	13:30	8.43	91.1	6.37	0.96	33	19.2	5
08/16/2021	14:45			6.30				15

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO <sub>2</sub> ) + Nitrate (NO <sub>3</sub> ) (mg/L)	Total Nitrogen (mg/L)	E. coli (MPN/100mL)	E. coli Geometric Mean
Standard	NA	NA	NA	NA	NA	<406	<126
04/12/2021	12:45	0.011	ND	ND			
06/21/2021	13:40	0.026	0.280	0.089	0.369	122	
07/19/2021	13:30	0.024	0.380	ND	0.405 <sup>C</sup>	512	
08/16/2021	14:45	0.023	0.400	0.081	0.481	85	174

**02-TSL: Thistle Brook, Sutton (Main Street)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835µS/cm<sup>A</sup></b>	<b>NA</b>
06/12/2021	13:35	7.82	79.6	6.22	1.06	246	15.5
07/24/2021	13:10	6.75	69.2	6.21		122	16.6
08/22/2021	11:20	6.60	70.6	5.80	0.35	193	18.6
09/26/2021	13:00	7.59	75.0	5.88	0.39	154	14.6

**02-LNE: Lane River, Warner (Roby Road)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835µS/cm<sup>A</sup></b>	<b>NA</b>
6/12/2021	11:15	7.99	84.9	6.44	0.48	152	18.2
7/24/2021	10:45	7.02	76.2	6.33		129	19.1
8/22/2021	9:25	5.56	64.5	6.24	0.57	128	22.8
09/26/2021	10:40	7.90	80.6	5.85	0.39	100	16.3

**01-XS4: Unnamed Stream, Sutton (Kearsarge Regional High School)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835µS/cm<sup>A</sup></b>	<b>NA</b>
6/12/2021	13:55	9.19	89.7	6.15	1.37	38	14.8
7/24/2021	13:25	7.22	74.0	6.21		29	16.0
8/22/2021	11:35	7.42	80.3	5.67	0.45	38	19.1
09/26/2021	13:15	8.48	83.1	5.74	0.08	37	14.4

**10-STV: Stevens Brook, Warner (North Road)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835µS/cm<sup>A</sup></b>	<b>NA</b>
6/12/2021	14:10	7.43	79.7	6.66	0.98	171	18.8
7/24/2021	13:45	7.29	78.8	6.28		95	19.1
8/22/2021	11:55	6.73	76.3	5.92	0.63	142	21.6
09/26/2021	13:35	8.15	82.1	5.66	0.71	100	15.7

**02-STV: Stevens Brook, Warner (Route 103)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>&lt;10 NTU above background</b>	<b>835µS/cm<sup>A</sup></b>	<b>NA</b>
6/12/2021	14:30	7.42	79.6	6.41	0.45	203	18.5
7/24/2021	13:05	6.69	73.2	6.18		124	19.7
8/22/2021	12:10	6.91	77.7	5.87	0.40	168	21.3
09/26/2021	13:55	7.90	81.2	5.82	0.66	107	16.3

**05-WNR: Warner River, Warner (Joppa Road Bridge)**

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
6/12/2021	10:35	<del>7.23</del>	<del>76.1</del>	6.06	0.47	<del>137</del>	17.7
7/24/2021	10:25	8.42	92.0	5.70		70	19.8
8/22/2021	9:05	6.39	73.4	5.73	0.44	99	22.2
09/26/2021	10:15	7.80	80.5	5.47	0.65	69	16.7

**03-WNR: Warner River, Davisville (Dustin Road/Route 127 Bridge)**

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
6/12/2021	10:06	6.30	66.1	5.61	0.66	148	17.6
7/24/2021	10:05	6.94	76.1	5.76		62	20.0
8/22/2021	8:50	4.93	56.9	5.92	0.59	97	22.4
09/26/2021	9:45	6.85	70.6	5.64	0.57	71	16.8

**01-WNR: Warner River, Hopkinton (Deer Path Road)**

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
6/12/2021	9:36	6.75	70.8	5.54	0.56	140	17.6
7/24/2021	9:20	6.03	65.6	5.61		78	19.3
8/22/2021	8:30	5.62	65.4	6.02	0.48	104	22.6
09/26/2021	9:15	7.82	81.0	5.50	0.66	72	17.2

