

New Hampshire Volunteer River Assessment Program  
2022 Warner River Watershed Data

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES



	Measurements not meeting New Hampshire surface water quality standards
INVALID	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	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )	Turbidity (NTUs)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>835<math>\mu\text{S}/\text{cm}</math><sup>A</sup></b>	<b>NA</b>	<b>&lt;10 NTU above background</b>
06/04/2022	14:00	7.52	76.1	6.11	20	16.1	0.87
07/08/2022	12:55	6.80	72.9	6.50	36	18.8	0.31
08/15/2022	12:06	7.18	74.7	6.67	49	17.5	0.32
09/19/2022	11:55	8.42	84.2	5.95	31	15.4	0.43

**11-ADW: Andrew Brook, Newbury (Mountain Road) - NHDES Synoptic Station**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance ( $\mu\text{S}/\text{cm}$ )	Water Temp. ( $^{\circ}\text{C}$ )	Turbidity (NTUs)	Chloride (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>835<math>\mu\text{S}/\text{cm}</math><sup>A</sup></b>	<b>NA</b>	<b>&lt;10 NTU above background</b>	<b>230<sup>B</sup></b>
6/20/2022	11:30	9.16	91.4	6.34	29	15.3	0.30	<3
7/18/2022	12:05	8.70	92.2	6.14	51	18.3	0.94	5
9/8/2022	12:00	9.75	97.5	6.46	43	15.4	0.14	3

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)
<b>Standard</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;406</b>
6/20/2022	11:30	0.011	ND	ND	-	52
7/18/2022	12:05	0.006	ND	0.24	0.37 <sup>C</sup>	20
9/8/2022	12:00	0.009	ND	ND	-	10

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background
06/04/2022	14:10	INVALID	INVALID	6.35	44	17.2	1.65
07/08/2022	13:14	5.72	63.6	6.42	73	20.8	1.03
08/15/2022	12:24	5.46	61.7	6.22	113	21.8	0.82
09/19/2022	11:56	6.91	70.6	6.42	119	15.5	0.79

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background
06/04/2022	13:15	5.83	66.8	6.76	58	22.0	0.39
07/08/2022	12:01	5.25	65.3	6.71	61	24.6	0.50
08/15/2022	11:22	INVALID	INVALID	6.66	64	23.8	0.78
09/19/2022	10:54	7.93	84.7	6.80	64	19.3	0.38

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background
06/04/2022	13:25	7.67	77.4	7.04	48	16.2	1.00
07/08/2022	12:33	7.69	82.8	6.99	69	19.4	0.91
08/15/2022	11:40	8.57	86.2	7.07	79	16.7	0.26
09/19/2022	11:25	9.33	94.0	6.96	57	15.2	0.61

**01-HOY: Hoyt Brook, Bradford (Jones Street Bridge) - NHDES Synoptic Station**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)	Chloride (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>835µS/cm<sup>A</sup></b>	<b>NA</b>	<b>&lt;10 NTU above background</b>	<b>230<sup>B</sup></b>
6/4/2022	12:55	7.45	77.4	6.96	46	17.3	2.48	-
6/20/2022	11:15	9.84	95.8	6.85	49	14.5	1.13	4
7/8/2022	11:40	7.02	75.5	6.82	58	18.7	0.59	-
7/18/2022	11:30	8.73	96.5	6.84	61	20.2	1.17	5
8/15/2022	11:05	8.10	81.5	6.98	82	15.9	0.32	-
9/8/2022	11:30	9.87	99.8	6.82	62	15.9	0.77	6
09/19/2022	10:40	9.10	92.5	6.71	64	15.5	0.42	-

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)
<b>Standard</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;406</b>
6/20/2022	11:15	0.022	0.39	0.06	0.45	41
7/18/2022	11:30	0.019	ND	0.11	0.24 <sup>C</sup>	20
9/8/2022	11:30	0.019	0.36	ND	0.39 <sup>C</sup>	122

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)
<b>Standard</b>	<b>NA</b>	<b>&gt;5.0</b>	<b>&gt;75% Daily Average</b>	<b>6.5-8.0</b>	<b>835µS/cm<sup>A</sup></b>	<b>NA</b>	<b>&lt;10 NTU above background</b>
6/4/2022	12:35	INVALID	INVALID	6.68	65	18.8	0.87
7/8/2022	11:24	5.02	58.7	6.30	64	22.0	0.50
8/15/2022	10:43	5.45	61.0	6.30	81	19.8	0.98
09/19/2022	10:22	INVALID	INVALID	6.38	83	16.2	0.82

**10-WNR: Warner River, Bradford (Melvin Mills Road) - NHDES Trend Station**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835 µS/cm <sup>A</sup>	NA	<10 NTU above background	230 <sup>B</sup>
06/20/2022	10:45	8.07	82.6	6.44	74	16.4	1.02	15
07/18/2022	11:00	6.69	75.8	6.38	94	21.5	1.44	11
09/08/2022	11:05	8.30	86.1	6.36	68	17.1	1.30	11
10/26/2022	13:00	10.05	93.5	6.52	70	12.5	228.00	11
11/09/2022	12:57	9.83	83.7	6.52	65	8.4	0.62	4

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
06/20/2022	10:45	0.021	ND	0.08	0.20 <sup>C</sup>	135	-
07/18/2022	11:00	0.019	ND	0.10	0.23 <sup>C</sup>	62	-
09/08/2022	11:05	0.016	0.310	0.05	0.36	173	113
10/26/2022	13:00	0.399	0.760	ND	0.79 <sup>C</sup>	-	-

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background
06/04/2022	14:30	8.88	89.8	6.88	72	16.2	0.51
07/08/2022	13:34	6.79	69.8	6.66	300	18.9	0.49
08/15/2022	12:56	6.92	74.5	6.54	360	17.1	0.54
09/19/2022	12:13	8.33	79.2	6.65	356	14.4	0.62

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above	230 <sup>B</sup>
6/4/2022	12:15	7.69	82.1	7.02	141	19.1	1.02	-
6/20/2022	10:15	9.81	97.3	6.98	152	14.9	1.45	33
7/8/2022	10:55	INVALID	INVALID	7.11	167	20.4	0.82	-
7/18/2022	10:30	8.50	94.5	7.19	159	20.5	0.68	27
8/15/2022	10:30	8.16	84.1	7.01	150	17.0	0.44	-
9/8/2022	10:30	9.35	97.1	7.10	159	17.1	0.87	35
9/19/2022	10:06	7.63	76.9	7.10	161	15.8	0.51	-

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)
Standard	NA	NA	NA	NA	NA	<406
06/20/2022	10:15	0.018	0.25	0.07	0.32	10
07/18/2022	10:30	0.014	ND	0.09	0.22 <sup>C</sup>	10
09/08/2022	10:30	0.018	0.38	ND	0.41 <sup>C</sup>	187

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background
6/4/2022	14:45	8.54	83.1	6.92	35	14.4	0.02
7/8/2022	13:49	7.31	77.5	6.75	43	17.6	0.91
8/15/2022	13:10	8.55	88.5	6.81	46	17.2	0.49
09/19/2022	12:27	8.99	87.9	6.68	48	14.2	INVALID

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background
6/4/2022	15:05	8.54	88.1	6.97	114	18.2	0.83
7/8/2022	14:08	5.42	61.6	6.06	33	21.0	0.90
8/15/2022	13:31	7.57	80.3	6.40	52	19.3	0.17
09/19/2022	12:53	9.61	98.3	6.94	215	14.6	0.69

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background
6/4/2022	15:30	7.08	75.0	6.68	127	17.7	1.06
7/8/2022	14:38	6.04	68.7	6.78	163	21.5	0.70
8/15/2022	14:02	8.05	89.5	6.55	232	21.4	0.18
09/19/2022	13:13	9.11	91.2	6.64	233	15.0	0.79

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background	230 <sup>B</sup>
06/04/2022	11:25	INVALID	INVALID	6.74	96	17.1	0.55	-
06/20/2022	9:45	9.49	94.8	6.71	115	15.4	0.88	22
07/08/2022	10:35	5.92	68.0	6.69	93	21.4	0.57	-
07/18/2022	9:50	8.35	95.8	6.64	145	22.1	0.76	23
08/15/2022	10:06	6.08	65.9	6.75	163	19.4	0.37	-
09/08/2022	10:00	9.11	94.6	6.65	107	17.2	1.54	23
09/19/2022	9:49	7.64	82.0	6.65	136	15.7	0.48	-
10/26/2022	14:15	10.35	97.6	6.75	110	12.7	8.23	22
11/09/2022	12:17	11.75	98.9	6.78	103	7.8	0.75	10

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)
Standard	NA	NA	NA	NA	NA	<406
06/20/2022	9:45	0.018	ND	0.10	0.23 <sup>C</sup>	86
07/18/2022	9:50	0.014	ND	0.14	0.27 <sup>C</sup>	109
09/08/2022	10:00	0.016	0.30	0.06	0.36	160
10/26/2022	14:15	0.054	0.48	ND	0.51 <sup>C</sup>	-

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background
6/4/2022	11:00	INVALID	INVALID	6.64	102	16.3	0.65
7/8/2022	10:02	INVALID	INVALID	6.42	122	21.1	0.79
8/15/2022	9:50	5.82	63.5	6.42	185	19.8	0.56
09/19/2022	9:38	7.16	75.5	6.45	148	16.4	0.60

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background
6/4/2022	10:15	7.92	82.4	6.76	105	18.3	0.64
7/8/2022	9:36	6.97	77.1	6.59	106	20.7	0.53
8/15/2022	9:32	5.95	62.7	6.71	174	18.9	0.65
09/19/2022	9:15	6.94	72.2	6.55	144	16.4	0.46

**06-BRO: Browns Brook, Hopkinton (Kearsarge Ave) - NHDES Synoptic Station**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Specific Conductance (uS/cm)	Water Temp. (°C)	Turbidity (NTUs)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	835µS/cm <sup>A</sup>	NA	<10 NTU above background	230 <sup>B</sup>
6/20/2022	9:15	8.13	76.6	6.08	248	13.0	3.13	60
7/18/2022	9:20	8.73	92.8	6.14	334	18.2	2.51	69
9/8/2022	9:30	7.92	78.0	6.09	300	14.7	2.85	71

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)
Standard	NA	NA	NA	NA	NA	<406
6/20/2022	9:15	0.034	0.38	0.55	0.93	75
7/18/2022	9:20	0.028	0.28	0.74	1.02	20
9/8/2022	9:30	0.039	0.49	0.63	1.12	63



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