
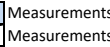


New Hampshire Volunteer River Assessment Program  
2021 Ashuelot River Watershed Data



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)

**28-ASH: Ashuelot River, Washington (Route 31)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	9:22	7.97	84.2	5.37	0.29	25	18.0			4	
06/22/2021	9:05	6.52	77.1	3.99	0.33	27	23.3	5		4	
07/26/2021	9:10	7.91	88.8	4.91	0.55	20	21.1	23		<3	0.010
08/17/2021	8:39	7.57	86.4	5.28	0.29	23	21.9	6	9	4	
09/14/2021	9:20	7.80	82.8	5.13	0.04	18	18.2	6	20		

**27-ASH: Ashuelot River, Lempster (Mountain Road)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	9:00	9.18	93.4	5.67	0.16	30	16.2			5	
06/22/2021	8:45	6.78	78.8	5.40	0.15	39	22.8	5		6	
07/26/2021	8:40	8.33	91.3	4.87	0.43	22	19.9	3		<3	0.014
08/17/2021	9:15	8.57	92.0	5.37	0.30	21	18.8	2	3	3	
09/14/2021	9:00	7.90	81.2	5.35	0.28	24	15.9	22	5	4	

**24A-ASH: Ashuelot River, Marlow (Route 10)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	8:25	8.29	88.9	5.62	0.61	49	18.8			8	
06/22/2021	8:13	6.54	78.3	5.50	0.15	44	24.4			7	
07/26/2021	8:10	7.82	89.2	4.90	0.43	32	20.9	29		4	0.014
08/17/2021	9:46	7.94	90.8	5.34	0.44	39	21.9	31		8	
09/14/2021	8:25	7.39	99.7	5.44	0.42	29	17.9	36	32	4	

**23-ASH: Ashuelot River, Gilsum (Route 10)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	7:45	<del>8.59</del>	84.7	6.03	0.17	60	14.3			9	
06/22/2021	7:45	7.57	85.0	6.08	0.28	64	21.9	10		11	
07/26/2021	7:50	7.76	84.6	5.28	0.41	38	19.4	34		6	0.012
08/17/2021	10:05	9.27	99.1	5.90	0.39	55	18.7	16	18	12	
09/14/2021	7:50	8.22	86.2	<del>5.85</del>	0.45	40	16.2	36	27	5	

**20A-ASH: Ashuelot River, Keene (Stone Arch Bridge)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 uS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	8:26	8.69	88.5	5.79	0.73	72	16.0			12	
06/22/2021	8:08	7.18	82.9	5.71	0.82	76	22.4	80		12	
07/26/2021	8:05	8.36	92.0	5.22	1.10	33	20.0	49		4	
08/17/2021	8:05	7.14	79.1	5.79	2.65	70	20.4	31	50	13	
09/14/2021	8:05	8.45	90.2	5.73	1.09	46	18.5	32	36	7	

**18-ASH: Ashuelot River, Keene (Route 101)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 uS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	8:51	8.80	93.7	6.00	0.65	143	17.9			32	
06/22/2021	8:40	7.01	82.3	5.89	1.39	155	23.3	816		32	
07/26/2021	9:10	9.05	101.8	5.28	1.43	38	21.3	63		5	0.019
08/17/2021	8:35	7.44	83.0	5.89	2.77	149	20.7	70	153	38	
09/14/2021	8:36	8.39	89.9	5.91	1.19	80	18.7	56	63	16	

**16D-ASH: Ashuelot River, Swanzey (40 Feet Upstream of Keene WWTF)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 uS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	9:05	8.53	86.3	6.44	0.98	160	15.9			36	
06/22/2021	9:10	6.44	74.5	6.37	1.38	194	22.6	345		40	
07/26/2021	8:40	8.41	92.0	5.97	1.78	51	19.6	23		8	0.024
08/17/2021	9:25	7.54	82.0	6.26	2.66	17	19.4	91	90	41	
09/14/2022	9:05	8.61	90.9	6.38	1.37	78	18.0	105	60	15	

**16A-ASH: Ashuelot River, Swanzey (Mouth of South Branch Ashuelot River)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 uS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	8:36	7.99	82.0	6.39	1.12	105	16.6			20	
06/22/2021	8:27	6.99	80.0	6.41	1.13	121	22.0	88		36	
07/26/2021	9:40	7.64	82.4	6.05	1.51	78	19.3	162		13	
08/17/2021	8:45	7.90	84.7	6.33	1.74	101	18.7	161	132	23	
09/14/2021	8:33	7.72	80.9	5.93	2.25	52	17.6	250	187	8	

**16-ASH: Ashuelot River, Swanzey (Cresson Bridge)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 uS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	9:42	9.11	93.1	6.49	1.01	163	16.4			34	
06/22/2021	9:34	6.57	75.7	6.43	1.50	192	22.3	488		20	
07/26/2021	10:10	8.62	96.6	6.12	1.47	60	20.3	72		9	
08/17/2021	9:50	7.52	81.5	6.27	2.40	166	19.2	91	147	41	
09/14/2021	9:29	8.21	86.5	6.31	1.43	74	17.8	199	109	13	

**02B-SBA: South Branch Ashuelot River, Swanzey (Upstream of Monadnock Regional High School)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 uS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	10:10	9.89	103.4	5.98	0.86	101	17.2			20	
06/22/2021	9:46	7.54	86.2	6.05	1.63	111	22.1			19	
07/26/2021	10:00	<del>8.73</del>	<del>92.5</del>	5.51	1.65	<del>70</del>	<del>21.5</del>	137		12	
08/17/2021	9:47	8.37	89.7	5.95	1.12	92	17.6	81		19	
09/14/2021	9:37	8.45	88.2	5.62	1.37	49	17.4	184	127	7	

**02-SBA: South Branch Ashuelot River, Swanzey (Route 32 Bridge)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 uS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	9:24	<del>9.62</del>	98.8	5.91	1.07	104	16.8			19	
06/22/2021	9:17	7.41	85.4	6.06	1.07	111	22.5	62		20	
07/26/2021	9:35	8.72	94.0	5.72	1.97	71	19.2	142		12	0.022
08/17/2021	9:12	8.25	88.2	5.92	1.17	94	18.5	91	93	20	
09/14/2021	9:00	8.31	86.6	5.48	1.74	49	17.3	225	143	8	

**15A-ASH: Ashuelot River, West Swanzey (Thompson Covered Bridge)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 uS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	10:05	8.65	91.7	6.08	0.95	160	18.1			34	
06/22/2021	9:21	6.95	81.1	6.06	1.45	171	22.9	152		35	
07/26/2021	9:43	8.68	95.5	5.49	2.36	59	20.2	58		9	0.027
08/17/2021	10:00	7.90	89.9	5.92	1.89	159	20.2	88	92	40	
09/14/2021	9:48	8.64	90.6	5.78	1.99	68	18.1	140	89	9	

**07-ASH: Ashuelot River, Winchester (Route 119)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (MPN/100mL)	E. coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 uS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	9:24	7.76	82.3	6.07	0.69	152	18.1			32	
06/22/2021	8:42	7.08	83.5	6.08	1.47	151	23.4	75		28	
07/26/2021	9:15		96.0	5.61	1.87	69	20.0	64		10	
08/17/2021	9:18	7.38	80.5	5.97	1.68	137	20.1	99	78	30	
09/14/2021	8:55	8.26	86.1	5.77	2.28	74	17.8	345	130	13	

**02-ASH: Ashuelot River, Hinsdale (Route 63) - 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)	E. coli (MPN/100mL)	E.coli Geometric Mean
Standard		>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm <sup>A</sup>	NA	230 <sup>B</sup>	<406	<126
01/12/2021	11:45	20.50	140.8	6.80	1.30	103	0.2	22		
02/18/2021	11:25	15.96	109.3	6.77	3.51	312	0.1	90		
03/16/2021	11:30	15.38	107.6	6.67	1.53	88	0.8	16		
04/07/2021	11:30	11.97	103.9	6.82	0.89	85	9.2	20		
05/10/2021	12:20			6.68	1.23	76	13.7	15		
06/14/2021	12:00	8.77	94.2	6.47	5.18	141	19.0		6867	
07/20/2021	11:45	9.52	104.7	6.16	5.45	41	20.0	8	414	
08/10/2021	11:30	9.14	104.0	6.67	2.95	90	21.5	11	145	744
09/16/2021	11:45	8.85	96.2	6.54	1.77	83	19.4	15		
10/20/2021	11:22	11.02	103.8	6.62	0.96	84	12.6	15		

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO2) + Nitrate(NO3) (mg/L)	Total Nitrogen (mg/L)
Standard		Narrative	Narrative	Narrative	Narrative
04/07/2021	11:30	0.012	ND	0.100	0.225 <sup>C</sup>
06/14/2021	12:00	0.050	0.510	0.170	0.680
07/20/2021	11:45	0.044	0.410	0.130	0.540
08/10/2021	11:30	0.028	0.430	0.084	0.510

**01-ASH: Ashuelot River, Hinsdale (147 River Street)**

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (CTS/100mL)	E.coli Geometric Mean	Chloride (mg/L)	Total Phosphorus (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm <sup>A</sup>	NA	<406	<126	230 <sup>B</sup>	Narrative
05/25/2021	8:29	9.37	97.1	6.74	0.83	145	17.6			31	
06/22/2021	8:02	7.95	93.4	6.67	1.21	142	23.6	64		30	
07/26/2021	8:28	9.03	99.7	5.87	2.17	61	20.2	68		10	0.022
08/17/2021	8:08	8.00	89.5	6.35	1.30	135	20.0	78	70	29	
09/14/2021	8:01		93.8	6.07	2.06	74	17.8	649	151	14	

