



New Hampshire Volunteer River Assessment Program
2021 Oyster 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 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-CWL: Caldwell Brook, Barrington (Route 4 Crossing West of Lee Circle) - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm ^A	NA	<153
07/22/2021	9:53							20
07/23/2021	10:45	6.45	70.1	5.58	0.46	103	19.8	
08/20/2021	10:23	6.03	68.1	5.95	0.80	156	21.2	
09/17/2021	10:24	7.49	77.6	5.88	0.47	116	16.9	
10/15/2021	9:55	7.37	73.3	5.95	0.60	147	15.1	
10/18/2021	10:05							122

15C-OYS: Oyster River, Barrington (Emerald Drive) - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm ^A	NA	<153
07/22/2021	9:58							41
07/23/2021	11:16	7.64	85.9	4.90	0.64	95	20.1	
08/20/2021	10:54	6.88	78.8	5.36	0.57	78	21.6	
09/17/2021	10:40	7.73	81.4	5.00	0.46	81	17.8	
10/15/2021	10:15	8.23	81.0	5.28	0.50	92	15.2	
10/18/2021	10:35							41

13A-OYS: Oyster River, Lee (Route 125 Crossing South of Lee Traffic Circle) - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm ^A	NA	<153
07/22/2021	9:45							183
07/23/2021	10:30	5.16	58.0	5.52	0.80	107	21.0	
08/20/2021	10:07	3.48	40.2	5.75	1.71	150	22.1	
09/17/2021	10:10	4.83	51.1	5.55	1.27	113	18.3	
10/15/2021	9:40	5.35	53.8	5.86	1.52	149	15.8	
10/18/2021	10:05							836

01-XBB: Wheelright Pond Outlet, Lee (Stepping Stone Road Bridge) - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm ^A	NA	<153
06/26/2021	10:32	4.42	51.8	6.21	0.32	176	21.4	
07/22/2021	9:21							63
07/24/2021	10:07	5.30	62.2	6.52	0.45	160	23.6	
08/21/2021	10:20	4.80	59.4	6.57	0.64	160	26.5	
09/18/2021	11:01	5.19	58.8	6.62	0.44	157	21.4	
10/16/2021	10:28	4.70	50.1	6.81	0.45	160	18.5	
10/18/2021	10:15							10

13-OYS: Oyster River, Lee (Route 4 Bridge East of Lee Traffic Circle) - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm ^A	NA	<153
06/25/2021	10:40	5.42	57.5	6.19	2.86	205	18.2	
07/22/2021	9:35							135
07/23/2021	9:50	5.32	58.7	6.03	0.86	123	20.2	
08/20/2021	9:34	4.08	46.6	6.60	1.84	163	22.0	
09/17/2021	9:38	5.18	54.7	6.06	0.98	125	17.9	
10/15/2021	9:20	3.59	35.8	6.10	1.34	158	15.8	
10/18/2021	9:55							185

01-WDY: Wendy's Brook, Lee (Footbridge 500' Upstream of Confluence with Oyster River) - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)	E. coli (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm ^A	NA	<153
07/22/2021	9:40							15531
07/23/2021	10:15	8.41	89.1	6.76	3.22	367	18.1	
08/20/2021	9:52	7.35	82.5	6.90	6.57	442	21.1	
09/17/2021	9:54	8.23	84.8	6.75	9.13	452	16.7	
10/15/2021	9:30	7.12	71.7	6.86	3.94	942	15.5	

01-DBE: Dube Brook, Madbury (Cherry Lane Bridge) - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cm ^A	NA
06/26/2021	10:05	3.19	34.3	6.41	9.40	167	18.9
07/24/2021	9:45	6.78	72.0	6.63	6.56	99	18.3
08/21/2021	9:53	6.41	74.5	6.61	6.42	107	22.6
09/18/2021	10:40	7.82	84.4	6.84	6.01	123	18.1
10/16/2021	10:02	7.36	74.5	7.14	4.89	152	15.9

10-OYS: Oyster River, Lee (Route 155 Bridge) - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (uS/cm)	Water Temp. (°C)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 uS/cm^A	NA
06/25/2012	10:03	7.81	83.0	5.34	5.31	220	17.7
07/23/2021	9:33	7.68	84.5	6.45	1.90	130	19.9
08/20/2021	9:17	7.46	84.6	6.80	4.52	181	21.7
09/17/2021	9:25	7.84	82.5	6.75	2.15	144	18.2
10/15/2021	9:00	8.43	84.7	6.97	2.04	194	15.5

09-OYS: Oyster River (USGS Gaging Station), Lee (Route 155A Bridge)- NHDES Trend Station - Class A

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> Geometric Mean	Chloride (mg/L)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 uS/cm^A	NA	<153	<47	230^B
01/12/2021	10:25	14.60	100.4	6.75	1.44	186	0.1			36.9
02/18/2021	10:10	14.99	102.7	6.38	2.93	260	0.0			50.6
03/16/2021	9:50	14.54	98.8	6.68	2.52	184	0.1			35.5
04/08/2021	10:25	10.20	91.5	6.59	2.01	174	10.4			42.6
05/10/2021	11:00	9.44	92.0	6.40	1.63	170	14.1			41.0
06/15/2021	11:45	6.88	74.1	6.85	6.95	248	18.9	158		47.8
06/25/2012	9:35	5.63	59.4	6.36	6.49	271	17.9			
07/22/2021	9:15							279		
07/22/2021	11:15	7.67	84.8	6.36	2.66	167	20.3	327	243	33
07/23/2021	9:10	7.31	80.1	6.53	2.38	134	19.7			
08/12/2021	11:10	7.48	88.7	6.79	4.66	155	23.8	218	271	38
08/20/2021	9:00	7.08	79.9	6.76	5.69	170	21.6			
09/15/2021	11:22	8.52	91.6	6.73	2.62	160	18.9			31
09/17/2021	8:50	7.30	78.0	6.67	2.74	153	18.0			
10/15/2021	8:50	7.66	77.0	6.88	2.72	207	15.5			
10/19/2021	12:00			6.43	2.90	228	11.9			48

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	Narrative	Narrative	Narrative	Narrative
04/08/2021	10:25	0.018	0.30	ND	0.33
06/15/2021	11:45	0.052	0.56	0.12	0.68
07/22/2021	11:15	0.034	0.63	ND	0.66
08/12/2021	11:10	0.042	0.55	0.09	0.64

01-CSB: Chelsey Brook, Lee (Packer's Falls Road Bridge) - Class A

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)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 uS/cm^A	NA	<153
06/26/2021	10:50	8.66	83.1	6.17	1.08	272	13.8	
07/22/2021	7:38							63
07/24/2021	10:24	7.24	71.7	6.80	1.85	255	14.7	
08/21/2021	10:35	6.81	73.1	6.81	2.70	268	18.4	
09/18/2021	11:20	9.09	90.3	6.91	1.86	275	15.4	
10/16/2021	10:46	8.97	85.6	6.95	1.56	274	13.2	
10/18/2021	8:15							443

00J-PRB: Pettee Brook, Durham (Sauer Terrace) - Class B

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)
Standard	NA	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 μS/cm^A	NA	<406
06/26/2021	9:06	6.99	74.1	6.72	2.32	1616	17.8	
07/22/2021	8:27							250
07/24/2021	9:00	7.72	82.0	7.26	1.87	743	18.3	
08/21/2021	9:00	7.10	82.6	7.26	2.24	601	22.7	
09/18/2021	9:53	7.82	83.5	7.46	2.37	845	18.2	
10/16/2021	9:16	7.04	73.1	7.44	2.31	1009	17.2	
10/18/2021	9:05							556

03-JNC: Johnson Creek, Durham (Freshet Road Bridge) - Class B

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)
Standard	NA	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 μS/cm^A	NA	<406
06/26/2021	9:39	8.03	84.9	6.52	3.90	477	17.8	
07/22/2021	8:43							465
07/24/2021	9:20	8.81	90.3	7.23	4.75	363	16.5	
08/21/2021	9:31	8.07	91.7	7.21	5.98	359	21.6	
09/18/2021	10:20	8.97	94.3	7.41	5.06	363	17.6	
10/16/2021	9:33	7.64	76.9	7.35	2.57	414	15.6	
10/18/2021	9:20							144



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