
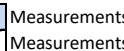


New Hampshire Volunteer River Assessment Program
2019 Oyster River Watershed Data

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 $\mu\text{S}/\text{cm}$ 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, Route 4, Barrington - Class A

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As Naturally Occuring	<835 $\mu\text{S}/\text{cm}$^A	NA	<153
04/26/2019	10:25	7.96	71.2	5.76	0.74	122.4	10.4	
05/24/2019	10:13	7.23	78.8	6.04	0.75	155.9	16.5	
06/20/2019	09:57							20
06/21/2019	10:40	6.40	66.9	5.98	1.75	169.0	17.4	
07/26/2019	10:32	6.18	68.7	5.91	1.05	136.8	20.5	
08/23/2019	10:39	5.74	63.3	6.07	1.59	189.6	20.2	
09/27/2019	10:10	6.91	66.9	6.43	1.72	219.7	13.3	
10/24/2019	10:40							41
10/25/2019	10:26	8.25	73.0	5.75	0.82	165.0	9.9	

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As Naturally Occuring	<835 $\mu\text{S}/\text{cm}$^A	NA	<153
04/26/2019	10:45	9.52	84.9	5.35	0.27	102.8	9.8	
05/24/2019	10:27	9.10	91.1	5.25	0.43	107.1	15.4	
06/20/2019	09:52							41
06/21/2019	11:00	7.93	81.8	5.16	0.66	114.0	16.8	
07/26/2019	10:55	7.44	81.0	5.07	0.54	101.4	19.4	
08/23/2019	10:58	7.37	80.8	5.65	0.69	94.3	19.8	
09/27/2019	10:25	8.24	79.0	5.86	0.57	92.2	13.6	
10/24/2019	10:25							160
10/25/2019	10:47	9.97	87.2	5.17	0.53	84.7	9.4	

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

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Water Temp. ($^{\circ}\text{C}$)	<i>E. coli</i> (CTS/100mL)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As Naturally Occuring	<835 $\mu\text{S}/\text{cm}$^A	NA	<153
04/26/2019	10:05	8.26	75.5	5.75	0.51	130.4	11.3	
05/24/2019	10:00	6.84	71.0	5.88	1.10	155.7	17.0	
06/20/2019	09:21							262
06/21/2019	10:27	4.75	49.9	5.80	1.63	175.1	17.7	
07/26/2019	10:11	4.50	50.1	5.69	1.07	130.4	20.5	
08/23/2019	10:28	2.83	32.0	5.84	1.42	195.3	21.5	
09/27/2019	09:50	3.16	30.8	6.32	1.92	199.5	14.2	
10/24/2019	10:10							96
10/25/2019	10:16	6.93	61.1	5.71	0.98	152.5	9.7	

01-XBB, Wheelright Pond Outlet, Stepping Stone Road Bridge, Lee - 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	As Naturally Occuring	<835 µS/cm^A	NA	<153
04/27/2019	10:20	8.86	81.5	6.73	0.32	130.7	11.5	
05/25/2019	10:34	5.96	61.3	6.71	0.62	145.1	16.7	
06/20/2019	09:14							85
06/22/2019	10:55	4.00	43.8	6.55	0.99	145.1	19.8	
07/27/2019	11:09	4.72	58.2	6.75	0.35	145.7	25.9	
08/24/2019	10:40	2.50	26.3	6.62	2.58	158.5	17.7	
09/28/2019	10:25	3.57	34.1	6.51	0.59	168.6	13.3	
10/24/2019	10:05							75
10/26/2019	10:20	5.00	45.0	6.45	1.19	143.8	10.8	

13-OYS, Oyster River, Route 4 Bridge East of Lee Traffic Circle, Lee - 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	As Naturally Occuring	<835 µS/cm^A	NA	<153
04/26/2019	09:35	7.12	64.7	6.25	0.58	136.4	11.0	
05/24/2019	09:30	6.10	62.6	6.28	1.45	163.5	16.6	
06/20/2019	09:29							168
06/21/2019	09:53	4.90	51.7	6.16	2.04	178.7	17.5	
07/26/2019	09:40	4.81	53.6	6.11	2.35	141.1	20.6	
08/23/2019	09:58	4.56	51.1	6.15	2.50	198.2	21.3	
09/27/2019	09:30	2.75	26.6	6.34	2.44	209.2	13.9	
10/24/2019	09:45							145
10/25/2019	09:52	6.90	60.4	5.94	1.49	157.6	9.5	

01-WDY, Wendy's Brook, Footbridge 500' Upstream of Confluence with Oyster River, Lee - 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	As Naturally Occuring	<835 µS/cm^A	NA	<153
04/26/2019	09:50	9.68	84.0	6.68	1.65	385.1	9.0	
05/24/2019	09:45	8.89	87.4	6.69	1.86	750.0	14.7	
06/20/2019	09:37							355
06/21/2019	10:07	7.89	79.6	6.76	2.72	634.0	15.8	
07/26/2019	09:58	8.17	86.7	6.77	5.02	730.0	18.0	
08/23/2019	10:12	7.51	81.4	6.99	6.04	898.0	19.2	
09/27/2019	09:40	7.75	74.5	7.14	3.83	1497.0	13.6	
10/24/2019	09:50							3255
10/25/2019	10:04	9.15	80.2	6.70	4.19	517.0	9.5	

01-DBE, Dube Brook, Cherry Lane Bridge, Madbury - 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	As Naturally Occuring	<835 µS/cm^A	NA	<153
04/27/2019	09:54	9.25	82.8	6.33	5.06	54.2	7.4	
05/25/2019	10:08	8.97	82.8	6.89	3.43	105.4	11.8	
06/20/2019	08:35							246
06/22/2019	10:25	7.76	78.7	6.81	6.18	109.9	16.2	
07/27/2019	10:42	5.86	64.3	6.71	9.47	116.9	19.9	
08/24/2019	10:15	5.03	52.1	6.68	8.39	136.0	17.0	
09/28/2019	09:59	6.30	58.6	6.79	12.90	179.6	12.1	
10/24/2019	09:00							160
10/26/2019	10:00	8.12	70.3	6.64	5.72	111.7	9.2	

10-OYS, Oyster River, Route 155 Bridge, Lee - 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	As Naturally Occuring	<835 µS/cm^A	NA	<153
04/26/2019	09:15	9.02	81.1	6.61	1.56	140.8	10.7	
05/24/2019	09:12	9.01	90.6	6.94	3.31	163.0	15.6	
06/20/2019	08:46							135
06/21/2019	09:28	8.30	85.4	7.01	3.66	189.7	16.6	
07/26/2019	09:17	8.01	88.1	6.73	2.65	161.9	20.0	
08/23/2019	09:39	7.38	83.3	6.98	2.55	222.2	21.0	
09/27/2019	09:15	7.91	77.0	7.04	2.80	180.0	13.8	
10/24/2019	09:10							161
10/25/2019	09:33	9.83	86.0	6.57	2.46	184.3	9.5	

09-OYS, Oyster River, Route 155A Bridge (USGS Gaging Station), Lee - Class A (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> Geometric Mean	Chloride (mg/L)
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As Naturally Occuring	<835 μS/cm^A	NA	<153	<47	230^B
01/10/2019	12:30			6.77		228.4	0.3			55
01/25/2019	12:30			6.48	9.53	152.3				41
02/04/2019	11:30			6.60	4.44	168.8				39
02/21/2019	12:45			6.59		196.7				45
03/12/2019	12:15			6.67		344.0				80
04/02/2019	10:50			6.70		132.1				29
04/17/2019	10:45			6.72		141.2				34
04/26/2019	08:50	9.25	84.6	6.63	2.02	148.3	11.2			
05/24/2019	08:55	8.37	83.4	6.91	4.75	185.3	15.5			
06/19/2019	11:30	8.17	86.7	6.74	6.03	199.2	18.4	121		42
06/20/2019	08:54							228		
06/21/2019	09:13	8.01	82.3	6.99	4.36	198.7	16.6			
07/18/2019	11:25	7.49	86.3	6.95	5.60	185.9	22.3	132	154	44
07/26/2019	08:51	7.20	78.2	6.79	3.90	171.7	19.6			
08/14/2019	11:25	7.79	86.2	6.73	5.79	212.6	20.3	1017	313	47
08/22/2019	11:05	6.90	77.0	6.59	5.20	264.4	20.7			
08/23/2019	09:16	6.62	76.6	6.96	4.25	230.9	20.6			
09/27/2019	09:00	7.02	69.0	7.01	4.08	255.8	14.2			
10/17/2019	11:30	9.30	85.6	6.43	13.40	170.3	11.6			37
10/24/2019	09:30							341		
10/25/2019	09:16	9.04	79.6	6.56	2.72	193.5	9.6			

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
06/18/2019	13:30	0.043	0.47	0.13	0.60
06/19/2019	11:30	0.041	0.49	0.13	0.62
07/18/2019	11:25	0.044	0.54	0.15	0.69
08/06/2019	09:45	0.044	0.50	0.18	0.68
08/14/2019	11:25	0.047	0.42	0.12	0.54
10/17/2019	11:30	0.083	0.90	ND	0.93 ^C

01-CSB, Chelsey Brook, Packer's Falls Road Bridge, Lee - 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	As Naturally Occuring	<835 μS/cm^A	NA	<153
04/27/2019	10:35	8.90	75.3	6.62	3.90	89.0	8.0	
05/25/2019	10:54	8.75	82.6	6.92	0.91	243.8	12.9	
06/20/2019	09:06							677
06/22/2019	11:25	8.20	82.1	6.93	1.45	239.3	15.5	
07/27/2019	11:28	8.00	79.7	6.79	1.33	247.4	15.2	
08/24/2019	10:55	8.31	79.5	6.87	1.21	257.8	13.3	
09/28/2019	10:40	9.76	89.3	6.87	0.90	275.1	11.7	
10/24/2019	09:20							107
10/26/2019	10:40	9.02	78.2	6.76	2.15	210.5	9.3	

07-OYS, Oyster River, College Woods Footbridge, Durham - 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	As Naturally Occuring	<835 µS/cm ^A	NA	<153
04/26/2019	08:20	9.41	85.5	6.63	2.42	167.4	10.4	
05/24/2019	08:20	8.19	83.3	7.04	3.75	214.8	15.4	
06/20/2019	07:26							171
06/21/2019	08:52	7.95	81.7	7.02	3.89	230.1	16.3	
07/26/2019	08:20	7.32	78.7	6.92	3.38	196.1	19.1	
08/23/2019	08:35	6.97	76.3	7.12	2.94	266.7	19.9	
09/27/2019	08:15	7.03	67.9	6.46	2.41	280.4	13.9	
10/24/2019	07:45							203
10/25/2019	08:36	9.37	82.0	6.75	4.64	214.3	9.8	

01-HML, Hamel Brook, Route 108 Bridge, Durham - 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
04/27/2019	08:36	8.60	73.4	6.49	6.94	164.6	8.6	
05/25/2019	08:40	7.91	75.9	7.12	3.49	288.3	13.1	
06/20/2019	07:54							269
06/22/2019	08:45	6.73	68.9	6.96	3.99	286.6	16.4	
07/27/2019	08:56	5.38	60.5	6.96	2.96	303.7	19.1	
08/24/2019	08:35	4.53	47.2	6.89	2.78	270.0	17.3	
09/28/2019	08:30	3.68	34.5	6.98	2.43	431.0	12.4	
10/24/2019	08:20							187
10/26/2019	08:45	7.16	63.0	6.70	4.92	270.8	9.8	

05-OYS, Oyster River, Route 108 Bridge/Mill Pond, Durham - 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
04/27/2019	08:48	10.66	91.0	6.75	21.20	167.8	8.5	
05/25/2019	02:45	7.65	78.5	7.13	2.45	247.6	16.4	
06/20/2019	07:47							41
06/22/2019	09:10	7.16	76.6	7.04	2.75	245.3	18.8	
07/27/2019	09:16	6.54	74.6	6.81	2.52	216.5	21.9	
08/24/2019	08:55	4.23	46.5	6.88	1.81	326.0	21.0	
09/28/2019	08:50	6.77	68.3	7.07	1.35	352.1	16.1	
10/24/2019	08:10							359
10/26/2019	08:50	8.09	72.0	6.85	5.73	226.4	10.4	

00E-CGB, College Brook, Mill Pond Road Bridge, Durham - 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
04/27/2019	08:20	9.43	79.3	6.84	22.90	253.2	7.6	
05/25/2019	08:20	8.71	82.0	7.47	3.95	1101.0	12.5	
06/20/2019	07:40							364
06/22/2019	08:35	7.85	79.8	7.45	4.10	1050.0	16.1	
07/27/2019	08:30	7.61	83.6	7.58	3.49	1244.0	19.3	
08/24/2019	08:15	7.34	75.7	7.64	2.16	1218.0	16.7	
09/28/2019	08:10	6.10	58.4	7.47	1.43	1217.0	13.2	
10/24/2019	08:00							2400
10/26/2019	08:15	8.17	75.2	7.30	5.13	785.0	11.6	

00J-PRB, Pettee Brook, Sauer Terrace, Durham - 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
04/27/2019	09:00	10.16	90.6	6.98	8.64	324.3	10.2	
05/25/2019	09:14	9.07	86.5	7.42	1.16	806.0	13.1	
06/20/2019	08:03							122
06/22/2019	09:25	7.79	81.0	7.49	2.43	660.0	16.7	
07/27/2019	09:45	7.59	84.0	7.54	1.72	771.0	20.1	
08/24/2019	09:15	7.40	76.5	7.56	1.62	985.0	16.9	
09/28/2019	09:05	7.62	74.5	7.54	0.95	1560.0	14.1	
10/24/2019	08:30							187
10/26/2019	09:05	8.99	83.8	7.30	3.75	423.6	11.5	

03-JNC, Johnson Creek, Freshet Road Bridge, Durham - 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
04/27/2019	09:25	10.72	89.7	6.42	24.40	126.7	7.5	
05/25/2019	09:43	10.32	95.0	7.27	3.50	329.5	11.5	
06/20/2019	08:21							216
06/22/2019	09:45	8.85	89.3	7.20	4.43	304.1	15.6	
07/27/2019	10:16	8.03	86.8	7.29	6.66	405.9	98.6	
08/24/2019	09:50	8.30	84.3	7.43	4.22	411.0	16.1	
09/28/2019	09:37	8.93	84.5	7.26	3.35	418.4	12.8	
10/24/2019	08:45							512
10/26/2019	09:33	9.50	83.5	7.01	4.26	283.8	9.7	

