

2011 OYSTER RIVER WATERSHED VRAP DATA

	Measurements not meeting New Hampshire surface water quality standards
	Turbidity measurements potentially not meeting 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

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)	<i>E. coli</i> Geometric Mean
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/30/2011	10:03	8.55	81.2	6.05	5.7	82.0	13.1		
05/21/2011	10:05	8.29	81.4	5.83	0.3	68.3	14.5		
06/18/2011	10:15	6.78	71.8	6.03	1.5	87.3	18.6		
06/21/2011	8:15							110	
07/16/2011	10:10	5.87	64.6	6.01	3.7	121.0	17.6		
07/19/2011	9:07							60	
08/16/2011	8:58							210	111
08/20/2011	9:55	6.89	73.2	6.08	0.8	113.2	18.7		
09/13/2011	8:10							150	124
09/24/2011	9:58	6.81	72.2	5.95	1.1	94.9	17.3		
10/20/2011	9:29							170	
10/22/2011	9:45	7.40	67.0	5.78	0.3	77.8	10.9		
11/19/2011	10:05	10.13	77.7	5.97	0.7	76.0	4.2		

15C-OYS, Oyster River, Emerald Drive, Barrington - 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
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/30/2011	10:25	9.13	85.5	5.17	0.4	62.0	12.3		
05/21/2011	10:25	9.11	88.9	4.96	0.5	59.1	14.4		
06/18/2011	10:35	7.93	84.3	5.22	0.9	52.3	18.0		
06/21/2011	8:10							90	
07/16/2011	10:25	7.25	74.9	5.51	3.3	64.2	18.3		
07/19/2011	9:12							70	
08/16/2011	9:05							740	167
08/20/2011	10:15	7.58	82.8	5.26	0.4	54.8	19.7		
09/13/2011	8:17							70	154
09/24/2011	10:20	8.21	85.1	5.21	0.5	59.2	17.2		
10/20/2011	9:35							320	
10/22/2011	10:00	9.58	85.1	4.81	0.2	65.1	10.0		
11/19/2011	10:25	11.77	88.2	4.90	0.1	59.8	3.4		

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 (uS/cm)	Water Temp. (°C)	<i>E. coli</i> (CTS/100mL)	<i>E.coli</i> Geometric Mean
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/30/2011	10:37	7.14	70.0	5.76	0.7	83.6	14.3		
05/21/2011	10:50	8.42	83.8	5.58	0.5	67.1	15.2		
06/18/2011	10:55	4.18	46.4	5.80	3.1	81.7	20.4		
06/21/2011	8:20							240	
07/16/2011	10:45	1.71	19.5	5.94	3.9	125.2	21.8		
07/19/2011	9:00							60	
08/16/2011	9:13							510	194
08/20/2011	10:25	3.89	43.2	5.86	1.6	124.7	21.5		
09/13/2011	8:37							20	85
09/24/2011	10:45	4.03	42.1	5.78	4.1	140.6	17.9		
10/20/2011	9:23							200	
10/22/2011	9:30	6.74	61.1	5.63	0.6	83.6	10.8		
11/19/2011	10:55	9.86	76.4	5.78	0.8	79.9	4.5		

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)	<i>E.coli</i> Geometric Mean
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 μ S/cm ^A	NA	<153	<47
04/30/2011	10:55	7.99	79.4	6.73	0.6	104.3	14.9		
05/21/2011	11:05	8.01	81.5	6.71	0.6	102.6	16.4		
06/18/2011	11:10	4.61	51.5	6.48	0.8	114.0	20.8		
06/21/2011	8:25							20	
07/16/2011	11:15	3.88	43.9	6.41	2.9	121.0	20.8		
07/19/2011	8:55							200	
08/16/2011	9:21							540	129
08/20/2011	10:39	4.41	50.1	6.27	0.8	108.3	23.5		
09/13/2011	8:46							70	196
09/24/2011	11:05	5.77	64.5	6.56	1.6	110.8	20.5		
10/20/2011	9:18							260	
10/22/2011	9:14	6.99	65.1	6.67	0.3	109.4	13.0		
11/19/2011	11:15	9.13	75.7	6.79	1.0	111.5	7.1		

13-OYS, Oyster River, Route 4 Bridge, East of Lee Traffic Circle, Lee, NH - 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
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/30/2011	9:25	7.15	68.4	6.31	0.5	93.6	13.4		
05/21/2011	9:30	7.16	70.2	6.11	0.3	79.3	14.6		
06/18/2011	9:50	4.46	49.1	6.14	2.2	98.0	19.1		
06/21/2011	7:56							60	
07/16/2011	9:25	2.47	27.9	6.20	5.0	128.1	19.5		
07/19/2011	9:28							30	
08/16/2011	8:45							2500	165
08/20/2011	9:22	4.15	46.3	6.15	2.2	113.6	20.9		
09/13/2011	7:55							200	247
09/24/2011	9:28	4.27	44.6	6.14	2.1	127.0	17.9		
10/20/2011	9:00							550	
10/22/2011	10:21	6.80	61.4	6.05	0.7	90.8	10.8		
11/19/2011	9:25	9.25	69.4	6.28	0.8	90.7	3.3		

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)	<i>E.coli</i> Geometric Mean
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/30/2011	9:39	9.17	85.5	6.55	0.7	338.3	11.4		
05/21/2011	9:45	9.28	89.8	6.52	2.2	190.7	13.9		
06/18/2011	10:05	7.99	83.8	6.17	5.2	48.6	16.7		
06/21/2011	8:03							2100	
07/16/2011	9:50	7.47	80.6	6.60	10.0	1116.0	18.0		
07/19/2011	9:35							1650	
08/16/2011	8:52							>20000	4108
08/20/2011	9:40	7.65	82.4	6.88	11.0	800.3	19.1		
09/13/2011	8:00							1900	3973
09/24/2011	9:45	7.93	83.3	6.76	12.0	387.3	17.8		
10/20/2011	9:10							17100	
10/22/2011	10:20	9.12	82.5	6.75	5.2	307.5	10.9		
11/19/2011	9:45	10.75	81.9	6.69	4.9	344.0	3.8		

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)	<i>E.coli</i> Geometric Mean
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/30/2011	9:06	8.55	78.7	6.77	2.6	90.1	12.5		
05/21/2011	9:00	9.21	88.9	6.78	2.6	76.5	13.7		
06/18/2011	9:18	7.41	79.5	6.75	14.0	108.1	18.7		
06/21/2011	7:38							50	
07/16/2011	9:05	7.11	76.6	6.71	11.0	150.9	19.0		
07/19/2011	8:38							280	
08/16/2011	8:32							4400	395
08/20/2011	9:05	7.51	83.0	6.61	13.0	136.7	19.3		
09/13/2011	7:41							350	755
09/24/2011	9:02	7.55	78.5	6.82	7.0	130.3	17.3		
10/20/2011	8:46							2200	
10/22/2011	8:49	9.15	81.3	6.69	3.2	87.5	10.3		
11/19/2011	8:55	10.61	78.7	6.83	3.1	94.2	3.0		

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)	<i>E.coli</i> Geometric Mean
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/30/2011	8:50	7.71	75.9	6.59	1.8	106.5	14.2		
05/21/2011	8:35	8.87	84.9	6.54	1.7	84.2	13.7		
06/18/2011	8:52	7.13	78.1	6.59	5.4	120.1	19.4		
06/21/2011	7:43							220	
07/16/2011	8:40	5.45	62.0	6.57	7.3	165.1	21.9		
07/19/2011	8:28							170	
08/16/2011	8:22							9200	701
08/20/2011	8:43	6.28	70.0	6.47	4.1	157.1	20.9		
09/13/2011	8:54							50	428
09/24/2011	8:38	8.01	83.4	6.78	7.9	150.4	17.3		
10/20/2011	8:46							1290	
10/22/2011	8:37	8.72	78.8	6.44	2.1	105.9	10.9		
11/19/2011	8:30	10.36	78.8	6.78	1.3	104.7	4.0		

09-OYS, Oyster River, Route 155A Bridge (USGS Gaging Station), 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)	<i>E.coli</i> Geometric Mean
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/30/2011	8:20	8.55	84.5	6.64	2.7	114.7	14.7		
05/21/2011	8:15	9.55	91.8	6.63	2.0	66.8	13.6		
06/18/2011	8:30	6.82	72.8	6.54	7.5	134.5	18.6		
06/21/2011	7:28							60	
07/16/2011	8:25	5.73	63.1	6.49	8.5	190.7	20.5		
07/19/2011	8:20							130	
08/16/2011	8:15							3300	295
08/20/2011	8:20	6.58	72.7	6.52	6.8	167.0	20.8		
09/13/2011	7:31							150	401
09/24/2011	8:22	8.12	84.5	6.77	12.0	162.8	17.2		
10/20/2011	8:38							1310	
10/22/2011	8:22	8.33	75.7	6.53	2.7	109.7	11.1		
11/19/2011	8:12	11.73	89.6	6.70	2.3	109.1	4.0		

08-OYS, Oyster River, Mast Road Bridge, 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)	<i>E.coli</i> Geometric Mean
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/29/2011	10:25	8.29	84.9	6.71	4.1	123.2	15.7		
05/20/2011	10:15	8.82	83.7	6.46	4.6	86.7	12.9		
06/17/2011	10:55	7.60	80.6	6.83	6.2	154.1	18.2		
06/21/2011	7:21							110	
07/15/2011	10:25	7.03	76.6	6.91	8.3	236.3	19.6		
07/19/2011	8:08							250	
08/16/2011	8:10							2150	390
08/19/2011	10:55	7.63	85.2	6.71	4.8	207.6	20.7		
09/13/2011	7:22							120	401
09/22/2011	9:42	7.78	76.6	6.84	6.3	185.3	14.7		
10/20/2011	6:58							1470	
10/21/2011	10:10	9.33	86.1	6.70	4.3		11.6		
11/18/2011	9:37	10.26	83.7	6.80	2.6	119.6	6.3		

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)	<i>E.coli</i> Geometric Mean
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/29/2011	10:15	10.28	98.3	6.79	1.1	185.8	13.1		
05/20/2011	10:05	7.40	67.1	6.63	1.3	117.1	12.2		
06/17/2011	10:45	8.75	84.5	6.69	2.8	232.2	13.8		
06/21/2011	7:17							260	
07/15/2011	10:20	9.24	90.3	6.65	2.2	242.3	14.3		
07/19/2011	8:02							30	
08/16/2011	7:55							3000	286
08/19/2011	10:40	8.65	88.1	6.58	2.1	232.2	15.9		
09/13/2011	7:18							50	165
09/22/2011	9:37	8.13	75.9	6.74	1.8	242.8	12.0		
10/20/2011	6:50							16000	
10/21/2011	10:00	8.18	73.6	6.66	1.7	92.7	10.3		
11/18/2011	9:30	8.99	72.9	6.85	1.3	179.1	6.0		

07-OYS, Oyster River, Footbridge, College Woods, Durham, NH - 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
Standard	NA	>6.0	>75% Daily Average	6.5 - 8.0	As naturally occurring	<835 $\mu\text{S}/\text{cm}^{\text{A}}$	NA	<153	<47
04/29/2011	9:55	8.55	89.8	6.75	4.2	131.0	15.2		
05/20/2011	9:55	8.53	80.4	6.77	8.1	90.1	12.9		
06/17/2011	10:30	7.02	75.2	7.00	7.9	155.8	18.4		
06/21/2011	6:58							90	
07/15/2011	10:00	6.38	70.8	7.03	8.4	220.5	20.3		
07/19/2011	7:45							50	
08/16/2011	7:35							3600	253
08/19/2011	10:20	6.25	73.9	6.52	6.0	205.3	20.2		
09/13/2011	7:08							120	278
09/22/2011	9:25	7.82	77.2	6.88	5.2	194.0	14.8		
10/20/2011	8:06							3800	
10/21/2011	9:45	9.43	86.9	6.74	6.3	43.6	11.4		
11/18/2011	9:15	10.42	84.3	6.78	3.0	126.9	6.3		

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)	<i>E.coli</i> Geometric Mean
Standard	NA	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cmA	NA	<406	<126
04/29/2011	9:25	6.92	71.6	6.61	1.7	211.2	15.8		
05/20/2011	9:35	6.30	60.5	6.60	3.3	147.3	13.5		
06/17/2011	10:00	4.54	49.2	6.76	5.4	276.1	19.3		
06/21/2011	6:16							440	
07/15/2011	9:40	3.56	38.6	6.94	6.4	380.8	19.7		
07/19/2011	7:30							320	
08/16/2011	6:50							4900	884
08/19/2011	10:00	2.92	31.8	6.56	3.5	263.9	19.6		
09/13/2011	6:00							320	795
09/22/2011	8:58	4.38	43.3	6.72	4.8	287.3	14.9		
10/20/2011	7:51							4700	
10/21/2011	9:25	5.34	49.4	6.52	3.2	90.3	11.4		
11/18/2011	9:00	6.30	50.1	6.47	1.8	152.2	5.9		

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)	<i>E.coli</i> Geometric Mean
Standard	NA	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cmA	NA	<406	<126
04/29/2011	8:20	8.62	88.8	7.13	3.0	908.0	14.0		
05/20/2011	8:10	8.29	78.8	7.10	4.5	568.0	13.1		
06/17/2011	8:20	7.31	75.7	7.37	2.5	120.6	16.9		
06/21/2011	6:10							380	
07/15/2011	8:20	6.57	69.7	7.06	3.1	1202.0	18.2		
07/19/2011	6:46							7900	
08/16/2011	6:45							22900	4097
08/19/2011	8:25	7.04	76.4	7.20	3.4	1139.0	19.7		
09/13/2011	6:10							3800	8826
09/22/2011	7:45	7.04	72.8	7.14	5.3	1123.0	16.9		
10/20/2011	7:08							9400	
10/21/2011	8:32	8.71	80.2	7.29	6.1	432.1	12.4		
11/18/2011	7:45	10.52	87.2	7.05	3.8	628.0	7.6		

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)	<i>E.coli</i> Geometric Mean
Standard	NA	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cmA	NA	<406	<126
04/29/2011	8:35	9.85	94.5	6.89	2.1	675.0	13.5		
05/20/2011	8:22	8.65	82.7	6.95	5.0	307.2	13.3		
06/17/2011	8:30	7.53	80.8	7.16	3.8	62.8	18.0		
06/21/2011	6:28							370	
07/15/2011	8:30	8.04	84.8	7.42	3.8	1338.0	17.9		
07/19/2011	6:50							600	
08/16/2011	7:05							7100	1164
08/19/2011	8:35	7.32	81.3	7.18	2.9	882.0	19.9		
09/13/2011	6:20							240	1007
09/22/2011	8:00	7.18	73.9	7.20	6.6	582.0	16.8		
10/20/2011	7:15							4100	
10/21/2011	8:43	9.92	94.2	7.14	4.1	270.8	12.3		
11/18/2011	7:55	11.39	93.0	6.98	3.7	426.6	6.4		

02G-BRD, Beards Creek, Stoleworthy Wildlife Sanctuary, 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)	<i>E.coli</i> Geometric Mean
Standard	NA	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cmA	NA	<406	<126
04/29/2011	8:50	9.86	95.2	6.96	3.3	282.5	14.0		
05/20/2011	8:35	9.12	85.2	6.89	7.9	180.3	12.3		
06/17/2011	8:45	4.81	50.8	6.89	8.5	325.5	17.7		
06/21/2011	6:34							230	
07/15/2011	9:05	8.87	94.9	7.40	5.9	354.7	18.7		
07/19/2011	7:02							3100	
08/16/2011	7:15							1550	1034
08/19/2011	8:50	3.06	33.0	6.66	18.0	325.3	18.8		
09/13/2011	6:32							580	1407
09/22/2011	8:05	3.82	38.0	6.87	63.0	412.1	15.3		
10/20/2011	7:20							1210	
10/21/2011	8:55	9.24	85.3	6.86	9.0	141.1	11.2		
11/18/2011	8:20	8.47	66.7	6.91	3.5	279.8	5.1		

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)	<i>E.coli</i> Geometric Mean
Standard	NA	>5.0	>75% Daily Average	6.5 - 8.0	<10 NTU above background	<835 µS/cmA	NA	<406	<126
04/29/2011	9:05	9.64	93.0	6.92	2.9	293.0	12.9		
05/20/2011	9:10	9.31	87.3	6.93	5.3	190.3	12.3		
06/17/2011	9:20	9.03	92.4	7.13	5.9	361.0	16.5		
06/21/2011	6:44							110	
07/15/2011	9:15	8.49	89.9	7.06	6.7	372.5	18.2		
07/19/2011	7:15							150	
08/16/2011	7:25							4200	411
08/19/2011	9:40	7.81	84.3	6.81	6.8	375.9	18.9		
09/13/2011	6:42							70	353
09/22/2011	8:38	9.50	93.6	7.05	9.9	402.3	14.6		
10/20/2011	7:27							4800	
10/21/2011	9:10	9.80	91.0	6.93	55.0	141.8	11.1		
11/18/2011	8:28	10.57	83.2	7.12	6.0	249.3	5.0		

02-BRD, Beard's Creek, Coe Drive, Durham - Class B

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	<835 µS/cmA	NA
09/22/2011	8:17	6.78	67.3	6.85	9.0	344.9	15.2
10/21/2011	8:22	9.04	83.0	6.90	9.4	144.0	11.1
11/18/2011	8:15	11.00	88.0	7.10	3.4	284.8	5.5