

New Hampshire Volunteer River Assessment Program

2019 Jewett Brook 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 indicates 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)

18-JWT, Jewett Brook, Country Club Road, Gilford

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	<i>E. coli</i> (MPN/100ml)	<i>E. coli</i> Geometric Mean	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	230 ^B
05/25/2019	09:15	12.42	110.6		0.72	123.8	10.2			27
05/28/2019	07:00							30		
06/15/2019	09:20	11.24	110.8	7.08	0.32	180.1	13.3			
07/11/2019	07:15							<10		
07/18/2019	07:25	12.18	110.5	7.20	0.42	120.6	16.4	20	14	

16-JWT, Jewett Brook, Bypass Culvert, Gilford

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	230 ^B
05/25/2019	09:10	12.38	111.1		0.64	142.3	10.5	31
06/15/2019	08:55	12.42	115.2	6.94	0.45	205.6	13.5	

14-JWT, Jewett Brook, Hounsell Avenue, Gilford

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	<i>E. coli</i> (MPN/100ml)	<i>E. coli</i> Geometric Mean	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	230 ^B
05/25/2019	09:05	12.52	112.3		0.57	191.9	10.5	60		48
06/15/2019	08:45	11.54	109.7	6.90	0.53	215.3	13.5			
07/11/2019	07:05							30		
07/18/2019	07:10	11.37	101.9	7.12	0.79	487.4	16.5	10	26	

07-JWT, Jewett Brook, Tardiff Park, Laconia

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	<i>E. coli</i> (MPN/100ml)	<i>E. coli</i> Geometric Mean	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	230 ^B
05/25/2019	08:55	12.80	114.5		0.46	325.9	10.3	170		83
06/15/2019	08:35	11.42	109.3	7.10	0.51	389.7	13.6			
07/11/2019	07:00							210		
07/18/2019	07:00	11.72	104.1	6.93	0.59	512.5	16.7	75	139	

01-JWT, Jewett Brook, Davis Place, Laconia, NHDES Trend Station

Date	Time of Sample	DO (mg/L)	DO (% sat.)	pH	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	<i>E. coli</i> (MPN/100ml)	<i>E. coli</i> Geometric Mean	Chloride (mg/L)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	<406	<126	230 ^B
05/25/2019	08:40	11.52	102.3		0.53	377.7	10.0			97
06/15/2019	08:25	10.93	103.7	7.12	0.59	402.9	13.8			
06/24/2019	12:20	10.59	107.6	6.98	0.97	424.3	16.1	144		103
07/18/2019	06:40	11.52	102.4	6.72	0.64	498.8	16.8			
07/22/2019	12:45	8.76	94.8	6.67	0.50	564.0	19.1	520		134
08/19/2019	13:45	8.60	96.1	6.80	1.80	281.6	20.7	4106	675	70
10/21/2019	14:30	10.78	95.1	6.45	0.47	451.5	10.9			95

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO ₂) + Nitrate(NO ₃) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
06/24/2019	12:20	0.016	ND	0.21	0.34 ^C
07/10/2019	13:15	0.011	ND	0.29	0.42 ^C
07/22/2019	12:45	0.011	ND	0.34	0.47 ^C
08/19/2019	13:45	0.030	ND	0.10	0.22 ^C
10/21/2019	14:30	0.015	ND	0.11	0.24 ^C



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