New Hampshire Volunteer River Assessment Program

2021 Paugus Bay 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

OUT-001: Outfall of Paugus Bay, Laconia (Pipe at end of Massachusetts Avenue)

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]**
03/11/2021	10:20	9.86	70.9	6.07	1.02	62	3.6	24
04/08/2021	11:15	9.87	86.6	6.02	0.73	0	9.7	36
10/15/2021	9:32			6.36	0.34	~~107~~	18.7	22

OUT-002: Outfall of Paugus Bay, Laconia (Pipe at Breakwater Condos)

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]**
03/11/2021	10:50	12.16	90.1	6.18	0.30	55	3.1	15
04/08/2021	11:42	11.45	101.3	6.31	1.03	0	10.1	23
10/15/2021	10:10			6.19	0.55	~~98~~	18.6	19

OUT-003: Outfall of Paugus Bay, Laconia (Pipe at end of Paugus Park Road)

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]**
04/08/2021	14:43	5.91	52.8	5.63	0.05	320	10.0	132

TRIB-011: Tributary of Paugus Bay, Laconia (Paugus Park Road and North Street)

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]**
04/08/2021	14:32	8.53	82.2	6.13	0.42	195	14.2	60

TRIB-013A: Tributary of Paugus Bay, Laconia (Upstream of Outerbridge Drive)

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]**
03/11/2021	12:00	12.70	88.7	5.45	0.47	76	1.0	32
04/08/2021	12:44	10.03	90.3	6.07	0.22	~~162~~	10.4	60
10/15/2021	10:43			6.93	1.26	~~6~~	15.7	33

TRIB-014: Tributary of Paugus Bay, Laconia (South Down Boat Club)

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]**
03/11/2021	11:40	~~13.83~~	~~101.4~~	6.06	1.59	124	2.8	42
04/08/2021	12:30	11.13	103.4	6.33	0.84	118	12.2	38
10/15/2021	10:30			6.27	0.69	~~110~~	18.6	

TRIB-018: Tributary of Paugus Bay, Laconia (Upstream of Pickerel Cove)

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]**
03/12/2021	10:55	11.50	86.3	6.05	1.06	131	4.1	50
04/08/2021	13:21	9.63	92.4	6.24	0.73	125	14.3	40
10/15/2021	11:11			5.92	1.31	~~184~~	16.3	33

TRIB-019: Tributary of Paugus Bay, Laconia (Downstream of Pickerel Cove)

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]**
03/12/2021	12:06	12.14	91.8	6.10	1.99	128	4.2	54
04/08/2021	13:55	11.70	98.8	6.05	1.24	74	12.2	22
10/15/2021	11:25			6.23	1.07	~~97~~	18.6	18