

Souhegan Watershed Association Water Quality report 2022-08-16

Site ID	Site Description	Town	Latitude (DMS)	Longitude	Monitor Name	e-coll MPN/100 mL	DO	pH	Water Level	Water Odor	Water Color	Observed Use	Monitor Comments, (Bold = Action Item)	Monitor Meas Water Temp					
<b>Souhegan River Sites</b>																			
Billy Ward Pond 1	BWP, #1	Ashburnham	42° 40' 55.8114N	71° 52' 42.3474W	Dave Ward	14	6.95	-	Ave	None	Clear	-		22.0					
Billy Ward Pond 2	BWP, #2	Ashburnham	42° 40' 40.836"N	71° 53' 0.4194" W	Dave Ward	4	7.23	-	Ave	None	Clear	-		23.0					
SoR 333	River Road above Water Loom Pond	New Ipswich	42 44' 25.21N	71 50' 39.92W	Dixie Blease	10	6.95	-	Very low	None	Tea	-	oil sheen, goose feathers	23.0					
SoR 320	Highbridge,	New Ipswich	42 45' 5.54N	71 49' 41.41W	Doug Waitt	16	8.47	-	Low	None	Clear	-		17.0					
SoR 309	Above Greenville Mill Pond	Greenville	42 45' 51.12N	71 49' 21.53W	Dixie Blease	<b>461</b>	9.19	-	Very low	None	Tea	-	oil sheen	16.0					
SoR 296	Downtown Greenville upstream of WWTP	Greenville	42 46' 12.84N	71 48' 28.74W	Dixie Blease	31	8.59	-	Very low	None	Tea	-	~	19.0					
SoR 291	Green Bridge off Rte 31 below Greenville	Greenville	42 46' 35.19N	71 48' 24.91W	Dixie Blease	75	8.92	-	Low	None	Tea	-	~	19.0					
SoR 218	Below the Horseshoe, (on the Souhegan south branch)	Wilton	42 50' 30.516"N	71 44' 46.6074" W	Patrick Jackson	59	9.34	7.06	Very low	None	Clear	-	steam tributary, dry, no water	16.0					
SoR 212	Riverwalk (North side of Stoney Brook)	Wilton	42 50' 43.224" N,	71 44' 24.072" W	Patrick Jackson	53	8.46	6.49	Low	None	Clear	-	~	16.0					
SoR 210	Downtown Wilton, Mill Dam	Wilton	42 50' 26.81N	71 44' 6.28W	Patrick Jackson	162	9.13	7.15	Very low	None	Clear	-	~	19.0					
SoR 201	Pine Valley Mill,	West Milford	John Nevin	71 43' 14.89W	John Nevin	35	8.86	-	Very low	None	Clear	~	lots of trash	17.0					
<b>Purgatory Brook, Confluence</b>																			
Purgatory Brook, Lyndeborough/Mont Vernon																			
monitor needed						no data	-	-	-	-	-	-	-	-					
<b>Souhegan River Sites</b>																			
SoR 170	Behind Hayward Field	West Milford	42 50' 47.99N	71 40' 33.55W	Nikki Andrews	260	7.08	-	Very low	None	-	-	fallen tree blocked access, cardinal flowers	16.0					
SoR 155	Souhegan Valley Boys and Girls Club	Milford	42 50'13.45N	71 39' 6.06W	Celeste Barr	228	7.77	-	Very low	None	Clear	-	wading prints	20.0					
SoR 146	Swing Bridge	Milford	42 50' 9.97N	71 38' 45.57W	monitor needed		-	-	-	-	-	-	-	-					
SoR 133	Riverside Cemetery	Milford	42 49' 43.13N	71 37' 34.87W	John & Susan Snyder	192	7.67	6.72	Very low	None	Clear	-	minnows	20.3					
SoR 130	Behind Lorden Plaza	Milford	42 49' 34.31N	71 37' 19.58W	-	no data	-	-	-	-	-	-	-	-					
SoR 122	Amherst Country Club	Amherst	42 49' 45.10N	71 36' 37.29W	-	no data	-	-	-	-	-	-	-	-					
SoR 095	Boston Post Road Canoeport,	Amherst	42 49' 37.77N	71 35' 7.02W	-	no data	-	-	-	-	-	-	-	-					
<b>Beaver Brook, Confluence</b>																			
BeB 750	Beaver Brook, at Boston Post Rd, (Great Meadow feeds Beaver Brook)	Amherst	42.86704	71.63099	Scott Spector	96	6.43	-	Low	Rotten e	Muddy (t	-	-	17.0					
BeB 740	Beaver Brook, Manchester St Bridge	Amherst	42.86639	71.62339	Scott Spector	<b>387</b>	7.43	-	Very low	None	Cloudy	Other	-	16.0					
BeB 730	Beaver Brook, Thorton Ferry 1 Road, Bridge	Amherst	42.85906	71.6164	Scott Spector	308	5.60	-	Low	None	Clear	-	-	19.0					
BeB 700	Beaver Brook, before confluence w/ Souhegan River (previously SoR 116)	Amherst	72.83146	72.83146	-	no data	-	-	-	-	-	-	-	-					
<b>Souhegan River Sites</b>																			
SoR 070	Seaverns Bridge	Amherst	42 50' 11" N	71 33' 37" W	Colin Atkinson	19	8.22	-	Very low	None	Clear	-	-	21.0					
SoR 057	Indian Ledges	Merrimack	42 51' 6.23N	71 32' 54.40W	Colin Atkinson	45	8.23	6.93	Low	None	Clear	-	turkeys	20.0					
SoR 034	Turkey Hill Bridge,	Merrimack	42 51' 32.66N	71 31' 22.72W	-	no data	-	-	-	-	-	-	-	-					
SoR 015	Wildcat Falls	Merrimack	-	-	-	no data	-	-	-	-	-	-	-	-					
SoR 005	West Chamberlain Rd,	Merrimack	42 51' 22.78N	71 29' 59.38W	monitor needed		-	-	-	-	-	-	-	-					
SoR 001	Watson Park (new request by Town of Merrimack for additional testing)	Merrimack	42.86098N	71.49277 W	John Debells	102	9.07	-	Low	None	Clear	-	heron, shiners	20.0					
<b>Merrimack River Sites</b>																			
Mer 600	Above Amoskeag Dam,	Manchester	42 58' 27.79N	71 28' 22.53W	Charles Lylis	2	9.48	-	-	-	-	-	-	-					
Mer 590	Arms Park	Manchester	42 58' 23.45N	71 28' 21.52W	Charles Lylis	31	7.83	-	-	-	-	-	-	-					
Mer 570	Goffs Falls	Litchfield	42 56' 11.05N	71 27' 23.55W	Charles Lylis	33	7.06	-	-	-	-	-	-	-					
Mer 560	Depot Street	Merrimack	42 53' 3.89N	71 28' 7.80W	Dick Widhu	33	7.69	-	Very low	None	Clear	-	-	24.8					
Mer 540	Sklar Waterfront Park, (Thortons Ferry)	Merrimack	42 50' 35.09N	71 29' 01"W	Dick Widhu	17	7.68	-	Very low	Rotten e	Clear	-	-	23.0					
Mer 530	Greeley Park, Boat Ramp	Nashua	42 47' 8.50N	71 27' 28.06W	Ellen Kolb	13	9.46	-	Low	None	Clear	-	turkeys near shore	24.0					
Mer 520	Taylor Falls Bridge	Nashua	42 45' 43.16N	71 26' 40.68W	J & C Hemmingsen	7	9.24	7.67	Low	None	Tea	Fishing	-	24.5					
Mer 510	Sagamore Bridge	Hudson	42 42' 1.24"N	71 26' 16.25"W	C & J Hemmingsen	93	9.50	7.74	Low	None	Tea	Boating, Fishin	-	24.5					
Mer 490	Upstream of Tyngsboro Bridge	Tyngsboro	42 40' 39.11N	71 25' 14.19W	Denise Hurt	1	9.85	8.79	Low	None	Clear	-	-	24.0					
			location data needed			sample taker needed													
						clean < 88	Parts per Million (ppm)												
						concerning	1 2 3 4 5												
						unacceptable	5 4 3 2 1												
						> 400	Toxic for fish populations					Toxic for fish							
Precipitation: We've had low rainfall this July and first 1/2 of August. The most recent rainfall was 0.6" total, which fell over Aug 5 and 7 (Boire Field). Total accumulated rainfall for July 2022 (Boire Airport) = 1.7" Historical Ave = 4.25" Total rainfall Aug 2022 = 0.6. Ave historical rainfall for all of August = 3.0"																			
Souhegan River Temps on 2022/08/02, ~ Water Monitor measured ranged from XX to XX Celcius, (XX to XX F)																			
Merrimack River Temps on 2022/08/02, ~ Water Monitor measured temps ranged from XX to XX Celcius, (XX to XX F)																			
<b>Figure 6. This table illustrates pH values that can be tolerated by different species.</b>																			
<a href="https://www.epa.gov/caddis-vol2/ph">https://www.epa.gov/caddis-vol2/ph</a>																			
<b>Stream Rates USGS Data, in Ft3/sec 8:00AM</b>			8/16/2022	8/16/2021	<b>Historical Median for this date</b>	<b>Median History Range</b>	8:00 AM USGS water temp Celcius												
Upper Soehegan (west Milford near Wilton) WLR-1			5	65	33	~30 yrs	17.8												
Lower Soehegan (east Merrimack, Wildcat Falls)			13	113	46	~100 yrs	unavail												
Merrimack River (Goffs Falls, near Manchester)			823	3,390	1,600	~ 84 yrs	unavail												

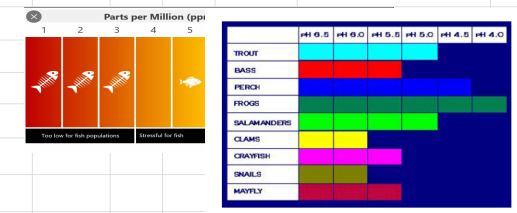


Figure 6. This table illustrates pH values that can be tolerated by different species.  
<https://www.epa.gov/caddis-vol2/ph>