

2006 Parameter Data: Chloride; River, Brook and Tributary Sites

Road density, highway runoff, road salting practices, as well as the proximity of salt storage facilities can affect chloride concentration in inland lakes and ponds (those away from salt water). Chloride can be a general indicator of the degree of urbanization of a watershed, with typically higher levels of chloride found in more developed areas. Chloride is measured on a part per million basis (ppm). The average person can taste the “saltiness” of water around 250 ppm of chloride, which is well above the level found in any URI Watershed Watch freshwater site. Chloride is regularly analyzed only in May samples to capture winter road salt impacts and in October to assess seasonal variation.

River sites arranged upstream to downstream when appropriate.

Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	RIVER & BROOK SITES	-- (mg/l or ppm) --						
CE	Bailey's Brook	49	-	-	-	-	49	49
NA	Buckeye Brook #1 @ Novelty Rd	35	-	-	-	-	46	41
NA	Buckeye Brook #2 @ Lockwood Brk	41	-	-	-	-	25	33
NA	Buckeye Brook #3 @ Warner Brook	44	-	-	-	-	42	43
NA	Buckeye Brook #4 @ Mill Cove	89	-	-	-	-	6640*	3365
WD	Falls River D - Step Stone Falls	6	-	-	-	-	11	9
WD	Falls River C - Austin Farm Rd.	6	-	-	-	-	-	-
WD	Falls River B - Sand Banks	6	-	-	-	-	12	9
WD	Falls River A - Twin Bridges	7	-	-	-	-	17	12
TH	Moosup River - Upstream	10	-	-	-	-	20	15
TH	Moosup River A - Fairbanks	12	-	-	-	-	23	18
TH	Moosup River B - Trestle Trail	18	-	-	-	-	29	24
M	Moshassuck River - Collyer Field	-	-	-	-	-	8	-
PE	NR 01- Gilbert Stuart	-	-	-	-	-	-	-
PE	NR 02 - Upper Pond 0.5M	Not measured due to tidal nature of this site						
PE	NR 02 - Upper Pond 3.0M	Not measured due to tidal nature of this site						
PE	NR 03 - Lower Pond A 0.5M	Not measured due to tidal nature of this site						
PE	NR 03 - Lower Pond A 3.0M	Not measured due to tidal nature of this site						
PE	NR 04 - Lower Pond B 0.5M	Not measured due to tidal nature of this site						
PE	NR 04 - Lower Pond B 3.0M	Not measured due to tidal nature of this site						
PE	NR 05 - Lacey Bridge	Not measured due to tidal nature of this site						
PE	NR 06 - Mettatuxet Beach	Not measured due to tidal nature of this site						
PE	NR 07 - End of Narrows	Not measured due to tidal nature of this site						
PE	NR 08 - Middlebridge	Not measured due to tidal nature of this site						
PE	NR 09 - Pettaquamscutt	Not measured due to tidal nature of this site						
PE	NR 10 - Sprague Bridge	Not measured due to tidal nature of this site						
PE	NR 11 - Mettatuxet Brook	-	-	-	-	-	-	-
PE	NR 12 - Mumford Brook	46	-	-	-	-	-	-
PE	NR 13 - Near Lakeside Dr	-	-	-	-	-	14070	-
PE	NR 14 - Lakeside Drive outfall	-	-	-	-	-	39	-
PE	NR 15 - Crooked Brook Farm	17	-	-	-	-	70	44
PE	NR 16 - Crooked Brook School	16	-	-	-	-	30	23

* Storm event pushed bay water up into the stream.

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Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	RIVER & BROOK SITES (continued)	-- (mg/l or ppm) --						
WD	Pawcatuck R - Bradford 0.5M	17	-	-	-	-	-	-
WD	Pawcatuck R - Avondale 0.5M	Not measured due to tidal nature of this site						
WD	Pawcatuck R - Avondale 3.0M	Not measured due to tidal nature of this site						
WD	Queen River @ Sand Bridge (TNC)	12	-	-	-	-	19	16
WD	Queen River @ Locke Brk	12	-	-	-	-	11	12
WD	Queen River @ Sherman Brk	6	-	-	-	-	10	8
H	Saw Mill Inlet (Sandhill Brook)	-	-	-	-	-	16	-
WD	Shickasheen @ Rte 2	15	-	-	-	-	15	15
WD	Shickasheen @ Miskiania Road	14	-	-	-	-	17	16
WD	Shickasheen @ Barber Pond Outlet	17	-	-	-	-	17	17
WD	Shickasheen @ Rte 138	-	-	-	-	-	18	-
WD	Shunock River @ Hewitt	9	-	-	-	-	13	11
WO	Woonasquatucket R. @ Cricket Park	60	-	-	-	-	67	64
WO	Woonasquatucket River @ Donigian	66	-	-	-	-	73	70

Watershed	LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	TRIBUTARIES	-- (mg/l or ppm) --						
WD	Asseconk Swamp	10	-	-	-	-	10	10
WD	Barber - Mud Brook	24	-	-	-	-	36	30
A	Belleville @ RR Xing	26	-	-	-	-	38	32
A	Belleville @ Sluiceway	21	-	-	-	-	31	26
PE	Carr Inlet (NK)	34	-	-	-	-	52	43
WO	Georgiaville @ Capron Pond	48	-	-	-	-	53	51
WO	Georgeville @ Harris	93	-	-	-	-	135	114
GB	Greenwich Bay - 01 (Maskerchugg River)	54	-	-	-	-	57	56
GB	Greenwich Bay - 02 (Gorton Pond outflow)	69	-	-	-	-	52	61
GB	Greenwich Bay - 03 (Hardig @ Rte 115)	73	-	-	-	-	117	95
GB	Greenwich Bay - 04 (Mill Creek)	43	-	-	-	-	18	31
GB	Greenwich Bay - 05 (Hardig @ Health Ctr)	56	-	-	-	-	118	87
GB	Greenwich Bay - 06 (Tuscatucket Brk)	49	-	-	-	-	28	39
GB	Greenwich Bay - 07 (Southern Creek)	44	-	-	-	-	19	32
NA	Nanaqua. Trib @ Quaket Brook	23	-	-	-	-	24	24
NA	Nanaqua. Trib @ Sin & Flesh Brk	32	-	-	-	-	39	36
NA	Nanaqua. Trib @ White Wine Brk	29	-	-	-	-	58	44
WD	Pasquisett Tributary	34	-	-	-	-	53	44
A	Secret - Oak Hill West	16	-	-	-	-	20	18
A	Secret - Oak Hill East	16	-	-	-	-	21	19
A	Secret - Shore Dr.	26	-	-	-	-	40	33

Maximum Limit of Detection Without Dilution (offscale) = 250 ppm

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Watershed		LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	TRIBUTARIES - CONTINUED		-- (mg/l or ppm) --						
WO	Slack's Tributary #1 / A		-	-	-	-	-	-	-
WO	Slack's Tributary #2 / B		-	-	-	-	-	-	-
WO	Slack's Tributary #3 / C		-	-	-	-	-	-	-
WO	Slack's Tributary #4 / D		-	-	-	-	-	-	-
B	Smith & Sayles @ Keech Brook		-	-	-	-	-	-	-
B	Smith & Sayles @ Balcom Brk		-	-	-	-	-	-	-
B	Smith & Sayles @ O'Donnel Brk		-	-	-	-	-	-	-
TA	Staf Inlet - Downstream		-	-	-	-	-	-	-
TA	Stafford - NE Cove		-	-	-	-	-	25	-
WD	Watchaug - Perry Healy		18	-	-	-	-	18	18
WO	Waterman @ Rte 44		16	-	-	-	-	14	15
WO	Waterman @ Saw Mill		25	-	-	-	-	25	25
WO	Waterman @ Golf Course		10	-	-	-	-	15	13
WO	Waterman @ Aldrich		29	-	-	-	-	39	34
WD	White Brook Pond Inlet		42	-	-	-	-	10	26

Watershed		LOCATION	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Code	WPWA TRIBUTARIES		-- (mg/l or ppm) --						
WD	Chipuxet River @ Rte 138		25	-	-	-	-	27	26
WD	Glen Rock Brook		16	-	-	-	-	15	16
WD	Pawcatuck R @ Biscuit City Rd		-	-	-	-	-	18	18
WD	Pawcatuck R @ Burdickville Rd		25	-	-	-	-	-	-
WD	Pawcatuck R @ Chase Hill Rd.		17	-	-	-	-	-	-
WD	P'tuck below Kenyon Ind.		19	-	-	-	-	-	-
WD	Pawcatuck R @ Rte 91		-	-	-	-	-	22	22
WD	Pawcatuck R below Bradford (DA)		26	-	-	-	-	-	-
WD	Queen River @ Mail Rd		12	-	-	-	-	11	12
WD	Queen River @ Rte 102		5	-	-	-	-	26	16
WD	Usquepaugh River @ Rte 2		11	-	-	-	-	14	13

Maximum Limit of Detection Without Dilution (offscale) = 250 ppm