

2007 Total Phosphorus Data - South Shore, including Salt Pond Coalition Sites

In most estuaries nitrogen is the primary nutrient that controls algal growth. However like nitrogen, phosphorus is also essential for life, and thus in salt water environments phosphorus levels must be considered in relationship to nitrogen levels. In estuaries the recommended level of total phosphorus is 10 to 100 ppb with 100 to 1000 ppb of total nitrogen (a 10:1 ratio of nitrogen to phosphorus). Under these conditions, most algal blooms may be avoided. To maintain those ratios, instream total phosphorus should not exceed 100 ppb. Like nitrogen, phosphorus also occurs in the total form which includes phosphorus bound in particulate matter and the soluble or dissolved form which is readily used by algae.

Monitoring Locations

2007 Data

	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Salt Pond Coalition Sites	-- (ug/l or ppb) --						
Green Hill - In Pond 0.5 m	30	25	23	34	29	8	25
Green Hill - In Pond 1.5 m	34	40	15	25	25	8	25
Green Hill - Indigo Pt	31	35	46	33	23	21	32
Green Hill - Sea Lea	39	30	30	27	119	11	43
Green Hill - Teal Rd	15	31	37	39	46	22	32
Little Maschaug Pond	42	23	19	20	22	15	24
Ninigret Pond - Crawford Dock	28	18	33	33	-	14	25
Ninigret Pond - Stumpy Pt 0.5 m	27	21	26	32	39	13	26
Ninigret Pond - Stumpy Pt 1.5 m	37	60	30	31	23	5	31
Ninigret Pond - Vigna's Dock	26	31	45	51	32	15	33
Ninigret Pond - Western Basin 0.5 m	26	19	28	35	8	10	21
Ninigret Pond - Western Basin 1.5 m	24	-	15	34	11	9	19
Pt Judith Pond - Champlin's Cove	-	68	72	55	38	60	59
Pt Judith Pond - Gardiner Island 0.5 m	-	38	55	39	32	41	41
Pt Judith Pond - Gardiner Island 1.5 m	-	-	57	62	34	40	48
Pt Judith Pond - Ram Point 0.5 m	28	40	29	42	63	52	42
Pt Judith Pond - Ram Point 1.5 m	22	45	31	32	16	141	48
Quonnie Pond - Harmonic Cove Channel 0.5 m	22	30	48	32	16	141	48
Quonnie Pond - Harmonic Cove Channel 0.5 m	50	28	40	40	8	49	36
Quonnie Pond - Harmonic Cove	26	95	32	43	53	31	47
Quonnie Pond - Harmonic Cove Buoy 0.5 m	23	15	45	44	10	37	29
Quonnie Pond - Harmonic Cove Buoy 1.5 m	25	20	40	47	43	180	59
Quonnie Pond - Judge's Rock 0.5 m	26	36	36	24	46	39	35
Quonnie Pond - Judge's Rock 1.5 m	40	-	39	49	28	31	37
Quonnie Pond - Mud Cove	18	37	77	641	50	33	143
Quonnie Pond - N. of Bill's Is. 0.5 m	13	35	27	30	21	30	26
Quonnie Pond - N. of Bill's Is. 1.5 m	16	28	31	48	8	27	26
Quonnie Pond - Shady Harbor Brk	18	32	47	1286	47	31	244
Quonnie Pond - Yacht Basin	28	26	72	56	32	11	38
Saugatucket River - Caleb's Dock	-	25	13	8	16	10	14
Winnapaug Pond - Aquaculture	-	-	32	40	23	27	31
Winnapaug Pond - Breachway	50	22	30	38	22	10	24
Winnapaug Pond - Golf Course Cove	25	53	21	38	284	49	89
Winnapaug Pond - SWest Corner	-	-	66	58	121	29	69
Watch Hill Conservancy Sites	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
Napatree Point - Bayside	-	-	20	86	26	24	39
Napatree Point - Oceanside	-	-	22	44	24	37	32