

2006 Chemical Measurements - Salinity

RM	Time	Reading 1	Reading 2	Comments	How determined
153	Not read				
127	4:05 PM	0.030 ppt	30 ppm		Drop count test kit
124.5		2 ppt 1ppt 4 ppt	* either this should be ppm or error due to instrument used		hydrometer
115	Not read				
102	Not read				
96.5	10:23 AM	64 mg/L	64 mg/L	64 mg/L	Titration kit
92	Not read				
87	11:00 AM	0 ppm			
84.5	9:35 Am	40 mg/L	35 mg/L	37.5 mg/L	Drop count kit
	10:14 AM	35 mg/L	35 mg/L	35 mg/L	
	10:55 AM	40 mg/L	35 mg/L	37.5 mg/L	
	12:10 PM	45 mg/L	40 mg/L	42.5 mg/L	
	12:56 PM	40 mg/L	40 mg/L	40 mg/L	
76 land	11:00 AM-noon	28 ppm	34 ppm	28 ppm	Quantab testtabs
76 boat	11:20 AM	0 ppm	2 ppm	0 ppm	refractometer
61E	10:15 -1:25	.006 ppt	.005 ppt	.006 ppt	% NaCl test strips
61W					
59	11:22 AM	36 ppm			Quantabs
55	10:10 AM	.0008%	.0008%		Test strips
41	11:20 AM	1.6 ppt	1.7 ppt	1.5 ppt	Drop test
39.5	11:10 AM	16 ppt	16 ppt		hydrometer
35	11:00 AM	4.2 ppt			Indicator sol.
28	9:30 AM	3.6 ppt ramp	0.4 ppt top	1.6 ppt bottom	meter
25E	10:05 AM	2.5 ppt			hydrometer
25W - SURFACE	10:23 AM	5.184 ppt			Conductivity meter - converted
	11:05 AM	6 ppt			refractometer
	11:42 AM	5 ppt			
	12:45 PM	6.5 ppt			
	1:25 PM	6 ppt			

BOTTOM					
	11:10 AM	5 ppt			refractometer
	11:51 AM	5 ppt			
	12:50 AM	5 ppt			
	1:30 PM	5 ppt			
METER	12:45 PM	5.74 ppt			YSI Meter Bottom read
18.5	1:40 PM	11-14 ppt		*of uncertain accuracy	Aquarium hydrometer
18	9:40 AM	7.3 ppt	7.3 ppt	7.3 ppt	meter
11.5					
Harlem RM14	11:32AM	9.8 ppt	10 ppt	10 ppt	YSI meter
Harlem RM13	Unable to read				
7 land	10:52 PM	8 ppt	1:25 PM	8.3 ppt	Quantabs
	Also read with hydrometer and showed a density of 1.013 at 68°F				
7 boat	noon	13.3 ppt			hydrometer
5.5	11:45 AM	14-20 ppt	14-20 ppt	14-20 ppt	LaMotte Estuary green kit – drop kit
2.5	12:18 PM	13.5ppt			hydrometer
2	1:15 PM	16 psu			hydrometer
East RM 4	10:45 AM	17 ppt	11:24 AM	18 ppt	refractometer
East RM 1E	10:32 AM	25.6 ppt			meter
	11:00 AM	26.7 ppt			
	2:00 PM	28 ppt			
East RM 1W	10:42 AM	21 ppt	24ppt	24ppt	
Red Hook	11:20 AM	26ppt	22ppt	26ppt	hydrometer
Fort Wadsworth	12:35 PM	22.5 ppt			hydrometer
Breezy Point	10:40 AM	9.3 ppt		Generally reads 26.8 ppt - expect effect of last night's rain reduced salinity	hydrometer