

Hingham Inner Harbor Mooring Locations
 CLE Engineering, Inc.
 4/9/2010
 MA State Plane NAD83 Mainland, Survey Feet

Mooring Number	Easting	Northing	Latitude (N)			Longitude (W)		
			Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
1	822558.9309	2915461.7137	42	14	47.5	70	53	7.6
2	822521.2975	2915485.3413	42	14	47.7	70	53	8.1
3	822482.1474	2915510.7263	42	14	48.0	70	53	8.6
4	822600.4672	2915474.9205	42	14	47.6	70	53	7.1
5	822566.0296	2915505.9684	42	14	47.9	70	53	7.5
6	822528.8394	2915528.4938	42	14	48.2	70	53	8.0
7	822494.0868	2915554.9815	42	14	48.4	70	53	8.5
8	822645.0101	2915494.1709	42	14	47.8	70	53	6.5
9	822610.7001	2915527.8592	42	14	48.2	70	53	6.9
10	822570.5496	2915570.4174	42	14	48.6	70	53	7.5
11	822523.2936	2915608.1702	42	14	49.0	70	53	8.1
12	822685.0606	2915543.3420	42	14	48.3	70	53	5.9
13	822639.7686	2915580.9617	42	14	48.7	70	53	6.5
14	822596.0889	2915623.9252	42	14	49.1	70	53	7.1
15	822548.8186	2915661.6096	42	14	49.5	70	53	7.7
16	822695.9310	2915602.0391	42	14	48.9	70	53	5.8
17	822651.4639	2915644.8644	42	14	49.3	70	53	6.4
18	822608.6405	2915687.1141	42	14	49.7	70	53	6.9
19	822558.6756	2915721.1063	42	14	50.1	70	53	7.6
20	822765.7353	2915620.7731	42	14	49.1	70	53	4.9
21	822718.5595	2915657.5947	42	14	49.4	70	53	5.5
22	822674.0976	2915699.3205	42	14	49.8	70	53	6.1
23	822631.8052	2915742.1299	42	14	50.3	70	53	6.6
24	822583.5485	2915776.8110	42	14	50.6	70	53	7.3
25	822789.4966	2915675.1762	42	14	49.6	70	53	4.5
26	822741.0711	2915712.7324	42	14	50.0	70	53	5.2
27	822692.6464	2915756.0976	42	14	50.4	70	53	5.8
28	822650.7867	2915799.5974	42	14	50.8	70	53	6.4
29	822600.8992	2915834.2515	42	14	51.2	70	53	7.0
30	822844.1712	2915697.7968	42	14	49.8	70	53	3.8
31	822796.0423	2915735.1904	42	14	50.2	70	53	4.5
32	822750.2516	2915772.3167	42	14	50.6	70	53	5.1
33	822708.0759	2915815.6549	42	14	51.0	70	53	5.6
34	822662.9308	2915856.0246	42	14	51.4	70	53	6.2
35	822614.2210	2915889.8641	42	14	51.7	70	53	6.9
36	822887.6830	2915738.7912	42	14	50.2	70	53	3.2
37	822839.0604	2915776.0746	42	14	50.6	70	53	3.9
38	822793.3725	2915815.4524	42	14	51.0	70	53	4.5
39	822749.7833	2915859.4654	42	14	51.4	70	53	5.1
40	822703.2530	2915900.0731	42	14	51.8	70	53	5.7
41	822651.0539	2915938.5724	42	14	52.2	70	53	6.4
42	822898.2529	2915799.0014	42	14	50.8	70	53	3.1
43	822851.0957	2915835.7108	42	14	51.2	70	53	3.7
44	822806.9207	2915874.5215	42	14	51.6	70	53	4.3
45	822772.4369	2915923.1925	42	14	52.1	70	53	4.7
46	822705.8183	2915959.3919	42	14	52.4	70	53	5.6
47	822660.7815	2915999.0651	42	14	52.8	70	53	6.2
48	822946.3383	2915834.3741	42	14	51.2	70	53	2.4
49	822897.1650	2915871.9375	42	14	51.5	70	53	3.1
50	822853.6580	2915914.0415	42	14	52.0	70	53	3.7
51	822818.1984	2915962.5451	42	14	52.4	70	53	4.1
52	822761.6989	2915982.5659	42	14	52.6	70	53	4.9
53	822716.3569	2916020.7241	42	14	53.0	70	53	5.5
54	822669.5953	2916058.7226	42	14	53.4	70	53	6.1
55	823001.2382	2915865.9746	42	14	51.5	70	53	1.7

Hingham Inner Harbor Mooring Locations
 CLE Engineering, Inc.
 4/9/2010
 MA State Plane NAD83 Mainland, Survey Feet

Mooring Number	Easting	Northing	Latitude (N)			Longitude (W)		
			Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
56	822948.6344	2915913.6266	42	14	51.9	70	53	2.4
57	822899.4439	2915962.2786	42	14	52.4	70	53	3.1
58	822853.0865	2916018.9242	42	14	53.0	70	53	3.7
59	822793.3560	2916037.2019	42	14	53.2	70	53	4.5
60	822733.2887	2916078.3135	42	14	53.6	70	53	5.3
61	822688.5276	2916115.9262	42	14	54.0	70	53	5.8
62	823044.4779	2915895.1679	42	14	51.8	70	53	1.1
63	823005.9747	2915949.8456	42	14	52.3	70	53	1.6
64	822951.1768	2915995.4095	42	14	52.8	70	53	2.4
65	822911.7137	2916051.0181	42	14	53.3	70	53	2.9
66	822865.0084	2916100.2463	42	14	53.8	70	53	3.5
67	822799.6127	2916096.4968	42	14	53.8	70	53	4.4
68	822754.0280	2916135.7489	42	14	54.2	70	53	5.0
69	822706.0532	2916173.3378	42	14	54.5	70	53	5.6
70	822831.3922	2916151.6153	42	14	54.3	70	53	3.9
71	822783.9867	2916193.6975	42	14	54.7	70	53	4.6
72	822733.8876	2916231.2125	42	14	55.1	70	53	5.2
73	822879.4814	2916191.5670	42	14	54.7	70	53	3.3
74	822833.0331	2916231.3231	42	14	55.1	70	53	3.9
75	822783.6059	2916270.1915	42	14	55.5	70	53	4.6
76	823091.5037	2915943.5080	42	14	52.2	70	53	0.5
77	823054.7781	2915998.6003	42	14	52.8	70	53	1.0
78	823005.8120	2916045.7573	42	14	53.2	70	53	1.6
79	822969.5283	2916101.1327	42	14	53.8	70	53	2.1
80	822916.6239	2916143.4218	42	14	54.2	70	53	2.8
81	822927.8288	2916239.5349	42	14	55.2	70	53	2.7
82	822876.3808	2916282.9569	42	14	55.6	70	53	3.3
83	823137.9686	2915989.6229	42	14	52.7	70	52	59.9
84	823103.2201	2916044.2786	42	14	53.2	70	53	0.3
85	823059.3194	2916093.1136	42	14	53.7	70	53	0.9
86	823021.3793	2916147.2475	42	14	54.2	70	53	1.4
87	822966.2870	2916185.5450	42	14	54.6	70	53	2.1
88	822976.8492	2916286.6018	42	14	55.6	70	53	2.0
89	822925.6276	2916328.3824	42	14	56.0	70	53	2.7
90	823184.7162	2916035.6128	42	14	53.1	70	52	59.3
91	823148.9896	2916091.7014	42	14	53.7	70	52	59.7
92	823106.0636	2916139.0765	42	14	54.2	70	53	0.3
93	823068.1228	2916193.2104	42	14	54.7	70	53	0.8
94	823013.8328	2916230.7367	42	14	55.1	70	53	1.5
95	823024.3555	2916335.5434	42	14	56.1	70	53	1.4
96	823232.9081	2916080.0591	42	14	53.6	70	52	58.6
97	823196.2100	2916135.6882	42	14	54.1	70	52	59.1
98	823154.2624	2916183.5769	42	14	54.6	70	52	59.6
99	823116.3223	2916237.7107	42	14	55.1	70	53	0.1
100	823061.2250	2916275.9814	42	14	55.5	70	53	0.9
101	823074.8003	2916382.3181	42	14	56.6	70	53	0.7
102	823282.9236	2916125.0256	42	14	54.0	70	52	57.9
103	823244.7645	2916178.2221	42	14	54.5	70	52	58.4
104	823204.2744	2916228.5164	42	14	55.0	70	52	59.0
105	823166.3377	2916282.6772	42	14	55.6	70	52	59.5
106	823112.0561	2916320.7815	42	14	56.0	70	53	0.2
107	823328.2188	2916172.7295	42	14	54.5	70	52	57.3
108	823290.0604	2916225.9260	42	14	55.0	70	52	57.8
109	823249.5738	2916276.2472	42	14	55.5	70	52	58.4
110	823211.6295	2916330.3541	42	14	56.0	70	52	58.9

Hingham Inner Harbor Mooring Locations
 CLE Engineering, Inc.
 4/9/2010
 MA State Plane NAD83 Mainland, Survey Feet

Mooring Number	Easting	Northing	Latitude (N)			Longitude (W)		
			Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
111	823157.4613	2916370.4180	42	14	56.4	70	52	59.6
112	823375.7892	2916218.1169	42	14	54.9	70	52	56.7
113	823337.6301	2916271.3135	42	14	55.4	70	52	57.2
114	823297.1400	2916321.6077	42	14	55.9	70	52	57.7
115	823259.1999	2916375.7415	42	14	56.5	70	52	58.2
116	823205.5784	2916415.1303	42	14	56.9	70	52	58.9
117	823422.3407	2916263.8651	42	14	55.4	70	52	56.1
118	823385.6267	2916318.7927	42	14	55.9	70	52	56.6
119	823335.4899	2916363.4503	42	14	56.4	70	52	57.2
120	823304.7926	2916435.8591	42	14	57.1	70	52	57.6
121	823473.0799	2916313.4985	42	14	55.9	70	52	55.4
122	823433.8604	2916372.8252	42	14	56.4	70	52	55.9
123	823378.9539	2916420.3984	42	14	56.9	70	52	56.6
124	823526.8708	2916362.2181	42	14	56.3	70	52	54.7
125	823486.5287	2916422.5038	42	14	56.9	70	52	55.2
126	823430.8336	2916470.9458	42	14	57.4	70	52	55.9
127	823588.0481	2916402.0560	42	14	56.7	70	52	53.9
128	823546.2779	2916461.4652	42	14	57.3	70	52	54.4
129	823493.9695	2916513.2999	42	14	57.8	70	52	55.1
130	823624.2789	2916465.6645	42	14	57.3	70	52	53.4
131	823590.3245	2916537.4897	42	14	58.1	70	52	53.8
132	823657.7469	2916564.5207	42	14	58.3	70	52	52.9
133	822859.8105	2915532.5351	42	14	48.2	70	53	3.6
134	822893.7614	2915564.8418	42	14	48.5	70	53	3.2
135	822928.5436	2915596.2929	42	14	48.8	70	53	2.7
136	822959.1887	2915627.7171	42	14	49.1	70	53	2.3
137	822991.4829	2915659.1952	42	14	49.4	70	53	1.9
138	823063.2098	2915720.7432	42	14	50.0	70	53	0.9
139	823115.3742	2915685.2242	42	14	49.7	70	53	0.2
140	823106.1847	2915761.3600	42	14	50.4	70	53	0.3
141	823160.1361	2915726.9899	42	14	50.1	70	52	59.6
142	823148.4334	2915803.5151	42	14	50.8	70	52	59.8
143	823201.9171	2915771.8921	42	14	50.5	70	52	59.1
144	823260.3280	2915748.7198	42	14	50.3	70	52	58.3
145	823191.4579	2915846.4433	42	14	51.3	70	52	59.2
146	823244.1569	2915815.7756	42	14	51.0	70	52	58.5
147	823303.5613	2915793.9320	42	14	50.7	70	52	57.7
148	823462.2253	2915727.5280	42	14	50.1	70	52	55.6
149	823236.3821	2915888.0486	42	14	51.7	70	52	58.6
150	823291.7183	2915861.7231	42	14	51.4	70	52	57.8
151	823347.7885	2915838.9477	42	14	51.2	70	52	57.1
152	823404.1997	2915815.3609	42	14	50.9	70	52	56.4
153	823460.4470	2915791.7009	42	14	50.7	70	52	55.6
154	823515.1591	2915766.9125	42	14	50.5	70	52	54.9
155	823283.8839	2915933.1088	42	14	52.1	70	52	57.9
156	823343.2649	2915906.1119	42	14	51.8	70	52	57.2
157	823405.6360	2915882.9116	42	14	51.6	70	52	56.3
158	823467.2940	2915859.0392	42	14	51.4	70	52	55.5
159	823528.0185	2915832.3480	42	14	51.1	70	52	54.7
160	823330.8701	2915979.9688	42	14	52.6	70	52	57.3
161	823390.2553	2915952.9988	42	14	52.3	70	52	56.5
162	823452.6263	2915929.7984	42	14	52.1	70	52	55.7
163	823514.2884	2915905.9529	42	14	51.8	70	52	54.9
164	823575.0088	2915879.2348	42	14	51.6	70	52	54.1
171	823377.8417	2916026.0368	42	14	53.0	70	52	56.7

Hingham Inner Harbor Mooring Locations
 CLE Engineering, Inc.
 4/9/2010
 MA State Plane NAD83 Mainland, Survey Feet

Mooring Number	Easting	Northing	Latitude (N)			Longitude (W)		
			Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
172	823437.2303	2915999.0938	42	14	52.8	70	52	55.9
173	823499.5985	2915975.8663	42	14	52.5	70	52	55.1
174	823561.2565	2915951.9939	42	14	52.3	70	52	54.3
175	823621.9804	2915925.3028	42	14	52.0	70	52	53.5
176	823425.9411	2916070.7695	42	14	53.5	70	52	56.0
177	823485.3297	2916043.8265	42	14	53.2	70	52	55.3
178	823547.6972	2916020.5992	42	14	53.0	70	52	54.4
179	823609.3553	2915996.7267	42	14	52.7	70	52	53.6
180	823670.0534	2915969.9910	42	14	52.4	70	52	52.8
181	823731.1545	2915945.4900	42	14	52.2	70	52	52.0
182	823481.7915	2916116.8042	42	14	53.9	70	52	55.3
183	823550.0368	2916090.4931	42	14	53.6	70	52	54.4
184	823619.2234	2916067.1525	42	14	53.4	70	52	53.5
185	823685.1231	2916038.3218	42	14	53.1	70	52	52.6
186	823750.3958	2916011.8001	42	14	52.9	70	52	51.7
203	823533.2296	2916166.6571	42	14	54.4	70	52	54.6
204	823601.4749	2916140.3460	42	14	54.1	70	52	53.7
205	823670.6615	2916117.0054	42	14	53.9	70	52	52.8
206	823740.8816	2916097.7305	42	14	53.7	70	52	51.9
207	823811.9320	2916078.1851	42	14	53.5	70	52	50.9
208	823584.5584	2916214.9887	42	14	54.9	70	52	53.9
209	823652.8002	2916188.6506	42	14	54.6	70	52	53.0
210	823721.9909	2916165.3369	42	14	54.4	70	52	52.1
211	823792.2104	2916146.0621	42	14	54.2	70	52	51.2
212	823863.2567	2916126.4898	42	14	54.0	70	52	50.2
213	823933.2946	2916103.8234	42	14	53.8	70	52	49.3
214	823637.8725	2916260.6017	42	14	55.3	70	52	53.2
215	823705.0220	2916239.1684	42	14	55.1	70	52	52.3
216	823771.4877	2916216.9720	42	14	54.9	70	52	51.4
217	823840.6116	2916202.0316	42	14	54.7	70	52	50.5
218	823911.6592	2916183.5493	42	14	54.5	70	52	49.6
219	823981.6964	2916165.7894	42	14	54.4	70	52	48.6
220	823697.0264	2916310.8334	42	14	55.8	70	52	52.4
221	823772.3394	2916290.0868	42	14	55.6	70	52	51.4
222	823839.1639	2916268.7443	42	14	55.4	70	52	50.5
223	823915.5311	2916252.6994	42	14	55.2	70	52	49.5
224	823985.6226	2916243.2195	42	14	55.1	70	52	48.6
225	823748.6349	2916366.9425	42	14	56.4	70	52	51.7
226	823812.9355	2916346.9790	42	14	56.2	70	52	50.9
227	823881.9168	2916327.5953	42	14	56.0	70	52	50.0
228	823951.3224	2916307.3105	42	14	55.8	70	52	49.0
229	823865.1180	2916399.7765	42	14	56.7	70	52	50.2
230	823935.0706	2916375.7777	42	14	56.4	70	52	49.2
231	823906.8071	2916463.3029	42	14	57.3	70	52	49.6