

Impact Water Quality Monitoring for Dredging Activities at SB CMP 2

Sampling Date	Tide	Station	Time	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temp (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	SS (mg/L)
2013/10/10	MF	DS1	10:21:04	B	2.1	337.8	0.06	27.25	28.30	88.86	6.02	59.83	7.91	55
2013/10/10	MF	DS1	10:22:07	T	1.1	288.4	0.06	27.26	28.31	88.55	5.99	66.54	7.92	42
2013/10/10	MF	DS1	10:22:57	B	2.0	245.6	0.90	27.27	28.30	88.44	5.99	77.95	7.92	54
2013/10/10	MF	DS1	10:24:33	T	1.1	320.8	1.00	27.25	28.31	88.42	5.99	74.14	7.93	44
2013/10/10	MF	DS1	10:25:21	B	2.0	252.0	0.12	27.24	28.31	88.21	5.97	72.24	7.93	54
2013/10/10	MF	DS1	10:26:16	T	1.1	320.8	1.00	27.27	28.32	88.50	5.99	39.91	7.93	44
2013/10/10	MF	DS2	10:33:15	B	1.9	215.8	0.77	27.30	28.37	90.10	6.09	30.50	7.94	18
2013/10/10	MF	DS2	10:34:08	T	1.0	41.7	0.56	27.31	28.37	89.49	6.05	29.90	7.94	16
2013/10/10	MF	DS2	10:37:00	B	2.0	321.1	0.19	27.29	28.37	88.85	6.01	31.20	7.94	20
2013/10/10	MF	DS2	10:37:43	T	1.2	41.7	0.56	27.33	28.35	89.04	6.02	23.49	7.94	17
2013/10/10	MF	DS2	10:38:35	B	2.0	216.7	0.37	27.28	28.37	88.73	6.00	33.00	7.94	18
2013/10/10	MF	DS2	10:39:26	T	1.1	41.7	0.56	27.32	28.36	88.92	6.01	24.69	7.94	16
2013/10/10	MF	DS3	10:45:11	B	2.0	268.9	0.05	27.25	28.46	90.54	6.11	23.49	7.95	18
2013/10/10	MF	DS3	10:46:07	T	1.0	76.7	0.89	27.39	28.45	90.13	6.08	23.59	7.95	15
2013/10/10	MF	DS3	10:47:07	B	2.0	303.9	0.73	27.35	28.45	89.72	6.06	24.89	7.95	16
2013/10/10	MF	DS3	10:48:07	T	1.2	76.7	0.89	27.41	28.44	90.00	6.07	19.79	7.96	16
2013/10/10	MF	DS3	10:49:07	B	2.1	254.3	0.33	27.36	28.44	89.59	6.05	23.69	7.95	18
2013/10/10	MF	DS3	10:50:08	T	1.1	76.7	0.89	27.40	28.44	89.88	6.07	21.49	7.96	16
2013/10/10	MF	DS4	10:55:28	B	2.0	74.4	0.21	27.35	28.39	91.89	6.21	20.59	7.96	12
2013/10/10	MF	DS4	10:56:32	T	1.0	13.9	0.54	27.38	28.40	91.38	6.17	19.29	7.95	12
2013/10/10	MF	DS4	10:57:46	B	2.1	265.2	0.48	27.36	28.40	90.57	6.12	20.69	7.95	13
2013/10/10	MF	DS4	10:58:36	T	1.0	13.9	0.54	27.39	28.39	90.86	6.13	18.89	7.95	11
2013/10/10	MF	DS4	10:59:21	B	2.0	356.6	0.32	27.35	28.39	90.45	6.11	19.89	7.95	13
2013/10/10	MF	DS4	11:00:20	T	1.2	13.9	0.54	27.38	28.39	90.73	6.13	19.69	7.95	11
2013/10/10	MF	DS5	11:14:16	B	3.2	141.2	0.15	27.37	28.47	89.66	6.05	27.10	7.95	16
2013/10/10	MF	DS5	11:15:07	T	1.2	280.8	0.95	27.50	28.42	90.84	6.12	16.49	7.96	8
2013/10/10	MF	DS5	11:16:11	B	2.9	126.6	0.25	27.47	28.44	90.03	6.07	17.69	7.95	17
2013/10/10	MF	DS5	11:17:10	T	1.2	291.8	0.62	27.49	28.42	90.81	6.12	16.09	7.96	10
2013/10/10	MF	DS5	11:18:26	B	3.1	48.8	0.40	27.45	28.42	90.20	6.08	20.39	7.95	18
2013/10/10	MF	DS5	11:19:14	T	1.2	181.7	0.41	27.49	28.41	90.78	6.12	16.49	7.96	8
2013/10/10	MF	US1	11:39:33	B	1.9	331.2	1.25	27.57	28.39	89.14	6.00	20.19	7.95	13
2013/10/10	MF	US1	11:40:07	T	1.1	90.6	0.48	27.60	28.39	89.03	5.99	18.79	7.95	12
2013/10/10	MF	US1	11:41:11	B	2.0	303.9	0.43	27.58	28.40	88.53	5.96	21.39	7.95	12
2013/10/10	MF	US1	11:42:13	T	1.0	90.6	0.48	27.61	28.38	88.81	5.97	17.69	7.94	12
2013/10/10	MF	US1	11:43:38	B	2.1	317.7	0.62	27.52	28.38	88.10	5.94	23.59	7.94	14
2013/10/10	MF	US1	11:44:17	T	1.2	90.6	0.48	27.57	28.38	88.39	5.95	18.89	7.94	10
2013/10/10	MF	US2	11:49:46	B	3.0	245.8	0.14	27.42	28.41	88.02	5.94	21.49	7.94	12
2013/10/10	MF	US2	11:50:48	T	1.1	23.3	0.40	27.57	28.41	88.21	5.94	17.99	7.94	10
2013/10/10	MF	US2	11:52:29	B	2.9	219.3	0.24	27.56	28.39	88.87	5.98	18.79	7.94	12
2013/10/10	MF	US2	11:53:20	T	1.0	18.4	0.82	27.66	28.42	88.47	5.95	17.39	7.94	8
2013/10/10	MF	US2	11:54:16	B	2.9	338.0	0.26	27.50	28.42	87.57	5.90	18.59	7.94	11
2013/10/10	MF	US2	11:55:11	T	1.1	44.0	1.16	27.62	28.41	88.05	5.92	17.99	7.94	9
2013/10/10	MF	MW1	10:18:29	B	19.5	97.7	0.83	27.56	29.61	83.22	5.56	12.48	8.03	15
2013/10/10	MF	MW1	10:19:44	M	10.5	312.3	0.54	27.56	29.43	83.73	5.60	9.38	8.04	10
2013/10/10	MF	MW1	10:20:34	T	1.1	246.5	0.29	27.58	29.34	84.53	5.66	7.68	8.04	10
2013/10/10	MF	MW1	10:21:39	B	17.8	105.4	0.15	27.57	29.66	82.94	5.54	12.38	8.04	17
2013/10/10	MF	MW1	10:22:24	M	10.5	312.3	0.54	27.57	29.58	83.44	5.58	11.38	8.03	12
2013/10/10	MF	MW1	10:23:09	T	1.1	246.5	0.29	27.59	29.40	84.25	5.64	8.98	8.03	8
2013/10/10	MF	MW1	10:24:14	B	18.8	45.0	0.78	27.58	29.61	82.86	5.54	12.38	8.04	15
2013/10/10	MF	MW1	10:24:59	M	10.6	8.2	0.48	27.57	29.43	83.56	5.59	9.78	8.02	11
2013/10/10	MF	MW1	10:25:59	T	1.1	70.9	0.59	27.59	29.36	84.27	5.64	8.38	8.02	10
2013/10/10	MF	THB1	11:25:29	B	2.8	333.1	0.50	27.34	28.20	87.68	5.93	12.78	7.95	14
2013/10/10	MF	THB1	11:26:24	T	1.0	249.5	0.13	27.63	28.20	88.39	5.95	9.68	7.95	10
2013/10/10	MF	THB1	11:27:09	B	2.8	333.1	0.50	27.35	28.21	87.09	5.89	11.28	7.95	16
2013/10/10	MF	THB1	11:27:59	T	1.1	271.1	0.73	27.54	28.20	87.90	5.93	10.08	7.96	10
2013/10/10	MF	THB1	11:28:59	B	2.8	306.0	0.23	27.35	28.20	86.90	5.88	13.08	7.96	15
2013/10/10	MF	THB1	11:29:59	T	1.0	269.0	0.53	27.52	28.20	87.61	5.92	10.58	7.97	11
2013/10/10	MF	THB2	11:47:03	M	1.3	40.0	0.03	27.63	28.00	75.35	5.08	13.08	7.52	12
2013/10/10	MF	THB2	11:48:08	M	1.3	40.0	0.03	27.62	27.99	74.87	5.05	13.98	7.52	13
2013/10/10	MF	THB2	11:49:08	M	1.3	40.0	0.03	27.62	27.99	74.69	5.03	13.78	7.53	13
2013/10/10	MF	WSR45C	10:57:34	B	11.8	246.6	0.38	27.50	28.97	87.19	5.86	12.28	8.02	19
2013/10/10	MF	WSR45C	10:58:24	M	7.0	194.2	0.57	27.48	28.80	85.29	5.74	11.98	8.02	16
2013/10/10	MF	WSR45C	10:59:09	T	1.1	250.0	0.69	27.78	28.40	89.21	5.98	5.18	8.02	9
2013/10/10	MF	WSR45C	10:59:59	B	12.0	215.8	0.57	27.50	28.93	84.29	5.66	16.99	8.02	17
2013/10/10	MF	WSR45C	11:00:59	M	6.9	314.2	0.19	27.49	28.84	84.80	5.70	13.48	8.02	17
2013/10/10	MF	WSR45C	11:01:59	T	1.1	248.3	0.43	27.66	28.47	88.22	5.93	5.28	8.02	10
2013/10/10	MF	WSR45C	11:02:59	B	12.1	150.1	0.33	27.50	28.93	84.31	5.66	15.79	8.02	19
2013/10/10	MF	WSR45C	11:03:59	M	7.0	236.6	0.60	27.49	28.88	84.62	5.69	13.68	8.02	15
2013/10/10	MF	WSR45C	11:04:59	T	1.1	251.0	0.31	27.72	28.43	88.75	5.96	5.98	8.02	8
2013/10/10	MF	WSR46	12:08:09	B	8.5	329.3	0.22	27.45	28.51	88.88	5.99	20.09	7.99	25
2013/10/10	MF	WSR46	12:08:59	M	5.7	331.8	0.34	27.45	28.49	88.28	5.95	20.29	7.98	22
2013/10/10	MF	WSR46	12:10:04	T	1.0	300.6	0.85	27.58	28.40	89.91	6.05	7.18	7.98	8
2013/10/10	MF	WSR46	12:12:09	B	9.0	322.5	0.41	27.44	28.45	88.30	5.95	23.19	7.97	24
2013/10/10	MF	WSR46	12:13:04	M	5.6	326.9	0.33	27.44	28.44	87.91	5.93	14.58	7.97	21
2013/10/10	MF	WSR46	12:13:59	T	1.0	298.8	0.47	27.59	28.36	89.63	6.03	6.68	7.97	9
2013/10/10	MF	WSR46	12:15:00	B	8.6	230.1	0.32	27.44	28.45	87.31	5.89	22.49	7.97	24
2013/10/10	MF	WSR46	12:15:59	M	5.6	263.7	0.83	27.47	28.46	87.62	5.91	15.69	7.97	22
2013/10/10	MF	WSR46	12:16:59	T	1.0	314.8	0.43	27.62	28.34	89.75	6.04	6.08	7.97	8

Impact Water Quality Monitoring for Dredging Activities at SB CMP 2

Sampling Date	Tide	Station	Time	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temp (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	SS (mg/L)
2013/10/10	ME	DS1	15:30:24	B	2.8	225.6	0.57	27.59	28.33	85.99	5.79	38.61	7.91	18
2013/10/10	ME	DS1	15:31:19	T	1.0	137.5	1.06	27.80	28.32	88.70	5.95	19.79	7.92	12
2013/10/10	ME	DS1	15:32:06	B	2.9	358.2	0.44	27.57	28.33	86.10	5.80	40.61	7.91	17
2013/10/10	ME	DS1	15:33:09	T	1.2	137.5	1.06	27.71	28.32	87.62	5.89	25.00	7.92	13
2013/10/10	ME	DS1	15:34:33	B	2.8	339.4	0.30	27.56	28.42	86.63	5.83	37.71	7.92	18
2013/10/10	ME	DS1	15:35:20	T	1.1	137.5	1.06	27.93	28.34	89.24	5.97	23.69	7.93	13
2013/10/10	ME	DS2	15:42:08	B	3.0	113.3	0.47	27.92	28.37	89.60	6.02	11.58	7.93	7
2013/10/10	ME	DS2	15:43:13	T	1.1	21.1	0.73	27.92	28.33	90.31	6.05	10.68	7.93	6
2013/10/10	ME	DS2	15:44:11	B	2.9	37.8	0.84	27.70	28.36	88.01	5.91	13.28	7.92	7
2013/10/10	ME	DS2	15:45:07	T	1.0	21.1	0.73	28.20	28.37	91.53	6.10	9.38	7.93	6
2013/10/10	ME	DS2	15:46:13	B	2.8	9.4	0.43	27.59	28.37	86.63	5.83	17.09	7.92	8
2013/10/10	ME	DS2	15:47:15	T	1.2	21.1	0.73	28.00	28.32	90.75	6.07	8.88	7.93	4
2013/10/10	ME	DS3	15:52:21	B	7.0	301.1	0.45	27.55	29.20	83.57	5.60	16.29	7.93	10
2013/10/10	ME	DS3	15:53:13	M	4.4	348.6	0.28	27.55	29.13	83.08	5.57	14.99	7.92	8
2013/10/10	ME	DS3	15:54:09	T	1.1	125.7	0.79	27.82	28.37	88.50	5.93	12.08	7.93	4
2013/10/10	ME	DS3	15:55:56	B	7.3	37.8	0.51	27.55	29.18	82.20	5.51	15.59	7.93	8
2013/10/10	ME	DS3	15:56:40	M	4.5	184.2	0.14	27.52	28.77	83.51	5.61	14.18	7.93	8
2013/10/10	ME	DS3	15:57:26	T	1.2	86.7	0.71	28.10	28.39	89.84	5.99	10.48	7.93	4
2013/10/10	ME	DS3	15:58:19	B	7.1	105.7	0.42	27.55	29.11	82.72	5.55	17.69	7.93	10
2013/10/10	ME	DS3	15:59:10	M	4.6	146.6	0.86	27.54	28.77	84.23	5.66	13.68	7.93	10
2013/10/10	ME	DS3	16:00:08	T	1.1	86.7	0.71	28.19	28.38	91.07	6.07	9.28	7.93	6
2013/10/10	ME	DS4	16:06:54	B	3.9	76.2	0.65	27.56	29.31	81.78	5.48	18.29	7.92	10
2013/10/10	ME	DS4	16:07:57	M	2.9	39.5	0.25	27.56	28.84	84.00	5.64	10.38	7.92	8
2013/10/10	ME	DS4	16:08:44	T	0.9	48.7	1.51	27.53	28.48	85.72	5.77	12.48	7.92	8
2013/10/10	ME	DS4	16:09:17	B	4.1	27.9	0.66	27.56	29.32	82.41	5.52	17.19	7.92	10
2013/10/10	ME	DS4	16:10:07	M	2.9	39.5	0.25	27.55	28.86	83.62	5.62	11.38	7.92	6
2013/10/10	ME	DS4	16:12:10	T	1.2	48.7	1.51	27.53	28.47	85.65	5.77	13.68	7.92	8
2013/10/10	ME	DS4	16:13:35	B	4.0	112.1	0.34	27.53	29.18	81.64	5.48	15.79	7.92	9
2013/10/10	ME	DS4	16:14:17	M	3.2	91.9	0.43	27.53	29.05	82.25	5.52	13.38	7.92	8
2013/10/10	ME	DS4	16:15:25	T	1.2	48.7	1.51	27.67	28.43	86.78	5.83	11.98	7.92	9
2013/10/10	ME	DS5	16:20:44	B	3.1	158.3	0.20	27.56	29.34	84.21	5.64	18.89	7.92	8
2013/10/10	ME	DS5	16:21:33	T	0.9	112.3	0.58	27.56	28.46	87.84	5.89	10.58	7.92	7
2013/10/10	ME	DS5	16:24:15	B	3.0	3.9	0.47	27.57	29.37	82.03	5.49	17.49	7.92	8
2013/10/10	ME	DS5	16:25:07	T	1.1	133.9	0.25	27.69	28.50	86.66	5.82	11.28	7.91	7
2013/10/10	ME	DS5	16:26:30	B	3.1	74.9	0.26	27.57	29.38	81.84	5.48	17.79	7.92	9
2013/10/10	ME	DS5	16:27:16	T	1.1	61.5	0.73	27.64	28.54	86.08	5.78	11.38	7.91	7
2013/10/10	ME	US1	16:48:27	B	3.0	67.9	0.17	27.56	28.37	88.38	5.95	25.70	7.90	6
2013/10/10	ME	US1	16:49:15	T	1.2	87.4	0.53	27.70	28.35	90.10	6.05	22.69	7.90	8
2013/10/10	ME	US1	16:52:41	B	3.1	283.5	0.58	27.82	28.35	91.85	6.16	15.79	7.92	6
2013/10/10	ME	US1	16:53:30	T	0.9	104.3	0.51	28.29	28.33	94.69	6.30	10.08	7.93	7
2013/10/10	ME	US1	16:54:32	B	3.1	281.1	1.43	27.73	28.34	91.16	6.12	18.09	7.92	7
2013/10/10	ME	US1	16:55:36	T	0.9	228.1	0.09	28.39	28.34	95.11	6.32	10.58	7.92	7
2013/10/10	ME	US2	17:14:16	B	2.2	301.2	0.36	27.89	28.41	93.27	6.24	17.99	7.90	9
2013/10/10	ME	US2	17:15:19	T	1.1	153.1	0.17	28.19	28.33	95.40	6.36	10.88	7.91	7
2013/10/10	ME	US2	17:17:14	B	1.9	292.0	0.20	27.68	28.44	91.78	6.17	21.69	7.89	9
2013/10/10	ME	US2	17:18:27	T	1.1	137.1	0.13	28.22	28.32	95.73	6.38	10.28	7.91	6
2013/10/10	ME	US2	17:19:34	B	1.9	144.1	0.16	27.97	28.40	94.02	6.29	14.08	7.90	9
2013/10/10	ME	US2	17:20:18	T	1.0	178.5	0.30	28.10	28.35	95.04	6.34	11.08	7.91	5
2013/10/10	ME	MW1	17:17:09	B	19.0	192.8	0.65	27.75	29.55	84.65	5.64	5.18	7.97	6
2013/10/10	ME	MW1	17:18:14	M	10.5	50.7	0.70	27.75	29.52	84.96	5.67	5.08	7.97	4
2013/10/10	ME	MW1	17:18:59	T	1.1	90.7	0.40	27.77	29.38	85.98	5.74	5.08	7.97	6
2013/10/10	ME	MW1	17:20:04	B	19.0	38.7	0.49	27.75	29.54	84.27	5.62	5.28	7.97	6
2013/10/10	ME	MW1	17:21:09	M	10.5	334.1	0.40	27.75	29.51	84.68	5.65	5.88	7.97	4
2013/10/10	ME	MW1	17:21:59	T	1.1	174.8	0.30	27.77	29.34	85.91	5.73	5.08	7.97	5
2013/10/10	ME	MW1	17:22:59	B	19.0	42.6	0.52	27.75	29.59	84.09	5.61	5.78	7.97	6
2013/10/10	ME	MW1	17:23:59	M	10.5	23.0	0.29	27.74	29.48	84.50	5.64	5.58	7.97	5
2013/10/10	ME	MW1	17:24:59	T	1.1	61.3	1.22	27.76	29.34	85.63	5.73	4.37	7.97	6
2013/10/10	ME	THB1	15:53:08	B	2.9	328.7	0.82	27.64	28.18	91.22	6.14	7.68	7.99	8
2013/10/10	ME	THB1	15:53:59	T	1.0	50.3	0.36	28.05	28.19	94.34	6.31	6.28	8.01	5
2013/10/10	ME	THB1	15:54:59	B	2.8	180.6	0.28	27.53	28.17	89.12	6.01	8.58	7.99	7
2013/10/10	ME	THB1	15:55:59	T	1.1	317.9	0.37	28.11	28.16	94.36	6.30	6.28	8.02	6
2013/10/10	ME	THB1	15:59:04	B	2.9	188.9	0.17	27.54	28.19	88.76	5.98	10.68	8.00	6
2013/10/10	ME	THB1	15:59:59	T	1.1	351.3	0.53	28.02	28.17	93.19	6.23	6.78	8.03	6
2013/10/10	ME	THB2	16:55:42	M	1.4	40.0	0.03	27.89	28.20	91.54	6.14	7.68	7.69	6
2013/10/10	ME	THB2	16:56:38	M	1.4	40.0	0.03	27.94	28.17	91.44	6.12	7.68	7.68	6
2013/10/10	ME	THB2	16:57:32	M	1.4	40.0	0.03	27.89	28.19	91.34	6.12	7.48	7.68	8
2013/10/10	ME	WSR45C	16:22:49	B	11.8	122.9	0.18	27.59	29.42	83.72	5.60	8.08	8.00	9
2013/10/10	ME	WSR45C	16:23:39	M	7.0	214.1	0.21	27.59	29.21	83.42	5.59	6.58	8.00	10
2013/10/10	ME	WSR45C	16:24:24	T	1.0	60.0	0.47	28.09	28.26	91.39	6.10	4.97	8.01	5
2013/10/10	ME	WSR45C	16:25:34	B	11.9	49.0	0.63	27.59	29.40	82.83	5.54	8.38	8.00	10
2013/10/10	ME	WSR45C	16:26:24	M	7.0	319.1	0.93	27.59	29.18	83.34	5.58	6.68	8.00	8
2013/10/10	ME	WSR45C	16:27:09	T	1.1	97.5	1.12	27.87	28.35	89.70	6.01	4.97	8.01	5
2013/10/10	ME	WSR45C	16:28:04	B	11.9	130.7	0.63	27.59	29.40	82.95	5.55	7.98	8.01	8
2013/10/10	ME	WSR45C	16:28:59	M	6.9	12.5	0.44	27.59	29.20	83.26	5.58	6.48	8.01	7
2013/10/10	ME	WSR45C	16:29:59	T	1.0	67.7	0.88	27.88	28.32	90.02	6.03	5.18	8.01	5
2013/10/10	ME	WSR46	15:24:29	B	9.0	42.9	0.32	27.54	28.69	85.36	5.74	8.38	8.01	10
2013/10/10	ME	WSR46	15:25:35	M	5.5	39.2	0.11	27.59	28.26	87.58	5.90	7.08	8.05	9
2013/10/10	ME	WSR46	15:26:29	T	1.1	157.0	0.29	27.71	28.08	89.49	6.02	9.28	8.05	9
2013/10/10	ME	WSR46	15:27:19	B	9.0	358.3	0.17	27.58	28.71	85.09	5.72	7.78	8.04	11
2013/10/10	ME	WSR46	15:28:14	M	5.5	153.1	0.29	27.60	28.27	87.30	5.88	7.28	8.04	9
2013/10/10	ME	WSR46	15:28:59	T	1.1	94.4	0.79	27.79	28.06	89.51	6.01	8.98	8.04	11
2013/10/10	ME	WSR46	15:29:59	B	8.9	194.3	0.11	27.64	28.70	85.11	5.71	6.48	8.05	9
2013/10/10	ME	WSR46	15:31:04	M	5.5	87.0	0.57	27.59	28.26	87.32	5.88	7.38	8.05	9
2013/10/10	ME	WSR46	15:31:59	T	1.0	71.3	1.23	28.07	27.56	91.04	6.10	5.98	8.04	10

Remarks: No current speeds and directions were measured at Station THB2.