

Impact Water Quality Monitoring for Dredging Activities

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)
05-09-2012	MF	DS1	10:34:03	B	8.0	339.7	0.11	28.85	23.91	75.3	5.09	32.8	7.79	38
05-09-2012	MF	DS1	10:34:52	M	4.5	262.4	0.50	28.89	23.61	76.8	5.19	27.9	7.80	33
05-09-2012	MF	DS1	10:35:27	T	1.2	293.4	0.45	28.91	23.48	78.1	5.28	17.2	7.80	20
05-09-2012	MF	DS1	10:36:34	B	7.9	268.3	0.20	28.82	24.16	74.2	5.01	29.6	7.79	38
05-09-2012	MF	DS1	10:37:27	M	4.7	266.5	0.48	28.88	23.70	76.0	5.14	24.1	7.80	32
05-09-2012	MF	DS1	10:38:09	T	1.2	328.0	0.34	28.90	23.57	76.1	5.14	24.2	7.80	18
05-09-2012	MF	DS2	10:23:07	B	8.2	281.6	0.46	28.75	24.58	74.1	4.99	21.4	7.81	29
05-09-2012	MF	DS2	10:23:53	M	4.6	296.1	0.55	28.86	23.81	75.7	5.11	26.6	7.82	32
05-09-2012	MF	DS2	10:24:42	T	0.8	303.3	0.51	28.91	23.36	78.6	5.32	10.2	7.82	10
05-09-2012	MF	DS2	10:25:35	B	7.9	297.2	0.43	28.76	24.53	71.9	4.84	20.7	7.80	31
05-09-2012	MF	DS2	10:26:11	M	4.7	262.3	0.95	28.83	24.01	74.1	5.00	22.2	7.80	31
05-09-2012	MF	DS2	10:27:23	T	1.2	269.8	0.58	28.90	23.47	77.8	5.27	12.3	7.80	10
05-09-2012	MF	DS3	10:11:41	B	21.3	141.6	0.20	28.70	25.01	68.7	4.62	70.2	7.78	81
05-09-2012	MF	DS3	10:12:37	M	11.3	284.0	0.14	28.74	24.73	69.6	4.69	54.4	7.79	69
05-09-2012	MF	DS3	10:13:54	T	1.1	327.5	0.24	28.94	23.05	77.5	5.25	15.8	7.79	16
05-09-2012	MF	DS3	10:14:56	B	21.2	10.0	0.23	28.72	24.92	68.6	4.62	61.6	7.78	98
05-09-2012	MF	DS3	10:15:57	M	10.9	48.4	0.18	28.74	24.70	69.4	4.68	51.8	7.78	68
05-09-2012	MF	DS3	10:16:52	T	1.3	310.2	0.51	28.92	23.06	77.1	5.22	16.8	7.78	17
05-09-2012	MF	DS4	9:41:56	B	26.9	242.9	0.35	28.68	25.40	67.3	4.52	48.6	7.80	81
05-09-2012	MF	DS4	9:42:56	M	14.3	308.9	0.41	28.79	24.63	69.0	4.65	28.7	7.81	33
05-09-2012	MF	DS4	9:44:02	T	1.3	3.4	0.27	29.01	22.86	76.4	5.18	8.5	7.78	4
05-09-2012	MF	DS4	9:45:00	B	26.9	242.9	0.35	28.68	25.41	66.6	4.47	39.7	7.79	50
05-09-2012	MF	DS4	9:46:04	M	14.2	44.7	0.25	28.79	24.62	68.7	4.63	26.5	7.80	31
05-09-2012	MF	DS4	9:47:11	T	1.1	288.7	0.30	29.02	22.79	76.7	5.20	8.6	7.77	5
05-09-2012	MF	DS5	9:32:16	B	8.2	323.9	0.39	28.85	24.57	71.2	4.79	25.0	7.82	30
05-09-2012	MF	DS5	9:33:18	M	4.7	299.3	0.35	28.86	24.32	70.6	4.76	23.0	7.81	24
05-09-2012	MF	DS5	9:34:10	T	1.3	316.4	0.66	29.11	22.76	76.5	5.18	7.6	7.76	6
05-09-2012	MF	DS5	9:35:02	B	8.0	302.8	0.51	28.84	24.55	69.7	4.69	28.0	7.80	33
05-09-2012	MF	DS5	9:35:53	M	4.6	305.7	0.33	28.88	24.12	70.6	4.76	22.0	7.80	24
05-09-2012	MF	DS5	9:36:52	T	1.0	296.2	0.74	29.11	22.71	76.2	5.16	7.1	7.76	7
05-09-2012	MF	MW1	8:19:13	B	18.9	141.0	0.51	28.44	26.35	68.9	4.62	7.2	7.80	9
05-09-2012	MF	MW1	8:20:12	M	10.2	171.1	0.15	28.72	24.74	75.8	5.11	5.8	7.81	9
05-09-2012	MF	MW1	8:21:13	T	1.1	184.3	0.17	28.77	24.43	78.2	5.28	5.1	7.80	7
05-09-2012	MF	MW1	8:23:39	B	18.8	116.2	0.31	28.52	25.85	70.3	4.73	6.8	7.80	8
05-09-2012	MF	MW1	8:24:39	M	10.2	115.0	0.60	28.60	25.48	72.1	4.85	6.1	7.80	11
05-09-2012	MF	MW1	8:25:34	T	1.1	169.6	0.51	28.78	24.41	77.4	5.22	5.4	7.81	7
05-09-2012	MF	US1	10:42:36	B	8.1	321.0	0.35	28.88	23.80	76.4	5.16	57.2	7.82	68
05-09-2012	MF	US1	10:43:30	M	4.4	290.6	0.45	28.90	23.76	76.3	5.15	24.2	7.81	20
05-09-2012	MF	US1	10:44:33	T	1.2	294.4	0.67	28.92	23.53	79.6	5.38	6.1	7.81	6
05-09-2012	MF	US1	10:45:40	M	8.0	321.1	0.47	28.89	23.80	75.7	5.11	38.0	7.81	68
05-09-2012	MF	US1	10:46:32	M	4.6	321.5	0.39	28.90	23.77	76.3	5.16	21.2	7.81	22
05-09-2012	MF	US1	10:47:30	T	1.1	301.2	0.72	28.93	23.55	79.5	5.37	6.4	7.81	5
05-09-2012	MF	US2	10:52:24	B	7.1	309.2	0.42	28.89	23.99	77.0	5.19	28.0	7.83	38
05-09-2012	MF	US2	10:53:20	M	3.9	297.0	0.46	28.90	23.78	78.1	5.27	11.7	7.83	17
05-09-2012	MF	US2	10:54:16	T	1.1	323.3	0.29	28.92	23.60	81.4	5.50	5.8	7.83	6
05-09-2012	MF	US2	10:55:06	B	6.9	316.7	0.41	28.88	24.03	76.0	5.13	19.8	7.82	19
05-09-2012	MF	US2	10:55:53	M	4.1	318.6	0.43	28.89	23.92	76.2	5.14	13.3	7.82	15
05-09-2012	MF	US2	10:56:24	T	1.2	308.6	0.86	28.94	23.60	80.4	5.43	7.8	7.82	4

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05-09-2012	ME	DS1	14:38:45	B	8.1	84.2	0.35	28.75	24.60	73.1	4.93	11.3	7.72	12
05-09-2012	ME	DS1	14:39:44	M	4.5	89.2	0.57	28.92	23.67	75.6	5.11	7.7	7.73	9
05-09-2012	ME	DS1	14:40:48	T	1.2	111.3	0.69	29.12	23.05	82.0	5.54	5.1	7.74	4
05-09-2012	ME	DS1	14:41:38	B	8.0	89.0	0.27	28.73	24.73	71.8	4.84	8.9	7.71	11
05-09-2012	ME	DS1	14:42:38	M	4.5	108.4	0.48	28.89	23.85	74.2	5.01	7.8	7.72	8
05-09-2012	ME	DS1	14:43:19	T	1.2	106.4	0.74	29.09	23.10	80.9	5.47	5.6	7.74	5
05-09-2012	ME	DS2	14:48:34	B	7.2	107.6	0.37	28.78	24.45	73.2	4.94	8.4	7.71	11
05-09-2012	ME	DS2	14:49:22	M	4.0	118.0	0.67	28.92	23.73	75.2	5.08	7.9	7.72	10
05-09-2012	ME	DS2	14:50:09	T	1.2	99.2	0.54	29.21	22.86	82.7	5.58	5.3	7.73	4
05-09-2012	ME	DS2	14:51:16	B	7.1	114.3	0.56	28.77	24.47	72.7	4.90	8.6	7.71	10
05-09-2012	ME	DS2	14:52:29	M	4.0	88.8	0.62	28.93	23.62	75.1	5.07	8.5	7.71	12
05-09-2012	ME	DS2	14:53:13	T	1.2	137.0	0.35	29.15	23.04	81.5	5.50	7.8	7.72	5
05-09-2012	ME	DS3	14:58:03	B	5.7	97.4	0.50	28.93	23.81	76.6	5.17	7.5	7.73	9
05-09-2012	ME	DS3	14:58:45	M	3.5	87.5	0.79	29.08	23.55	78.8	5.32	13.9	7.73	16
05-09-2012	ME	DS3	14:59:51	T	1.1	95.9	0.41	29.13	23.26	80.3	5.42	6.1	7.73	11
05-09-2012	ME	DS3	15:00:55	B	6.2	137.1	0.80	28.87	23.93	74.4	5.02	7.3	7.70	8
05-09-2012	ME	DS3	15:01:39	M	3.5	88.8	0.99	29.13	23.41	79.4	5.35	11.5	7.72	14
05-09-2012	ME	DS3	15:02:16	T	1.1	114.7	0.62	29.24	22.83	82.9	5.60	6.3	7.72	11
05-09-2012	ME	DS4	15:13:24	B	5.1	113.5	0.52	28.94	23.82	78.0	5.26	17.3	7.73	25
05-09-2012	ME	DS4	15:14:04	M	3.0	142.2	0.51	28.98	23.73	77.3	5.21	15.6	7.73	14
05-09-2012	ME	DS4	15:14:59	T	1.0	116.8	0.91	29.28	22.94	82.8	5.58	5.8	7.74	8
05-09-2012	ME	DS4	15:15:50	B	5.0	155.9	0.58	28.93	23.87	76.2	5.14	20.5	7.71	24
05-09-2012	ME	DS4	15:17:06	M	3.0	87.1	0.76	28.95	23.81	76.4	5.15	16.0	7.71	16
05-09-2012	ME	DS4	15:18:03	T	1.1	98.6	0.32	29.29	22.93	83.3	5.62	6.0	7.72	8
05-09-2012	ME	DS5	15:22:34	B	6.2	153.2	0.27	29.06	23.46	81.6	5.51	10.0	7.73	12
05-09-2012	ME	DS5	15:23:22	M	3.4	137.0	0.20	29.02	23.56	79.4	5.36	8.7	7.72	12
05-09-2012	ME	DS5	15:24:09	T	1.2	165.5	0.25	29.04	23.52	79.1	5.34	8.3	7.72	10
05-09-2012	ME	DS5	15:24:56	B	6.1	150.8	0.39	29.04	23.53	79.4	5.36	9.5	7.72	10
05-09-2012	ME	DS5	15:25:52	M	3.5	76.6	0.46	29.11	23.38	79.6	5.37	8.0	7.71	10
05-09-2012	ME	DS5	15:26:30	T	1.1	321.7	0.20	29.17	23.28	81.2	5.47	6.9	7.72	8
05-09-2012	ME	MW1	16:06:41	B	19.8	184.8	0.34	28.43	26.63	70.5	4.73	6.2	7.71	9
05-09-2012	ME	MW1	16:07:58	M	10.7	56.4	0.68	28.54	26.17	69.9	4.69	6.7	7.70	9
05-09-2012	ME	MW1	16:08:57	T	0.9	77.6	0.40	28.67	25.76	72.6	4.87	6.1	7.70	9
05-09-2012	ME	MW1	16:10:37	B	19.6	339.1	0.04	28.50	26.21	69.9	4.69	8.5	7.68	9
05-09-2012	ME	MW1	16:11:22	M	10.8	286.6	0.17	28.49	26.22	69.8	4.68	6.9	7.68	8
05-09-2012	ME	MW1	16:13:18	T	1.1	75.4	0.26	28.69	25.70	74.4	4.99	5.4	7.68	8
05-09-2012	ME	US1	14:30:01	B	8.0	109.5	0.38	28.77	24.52	72.4	4.88	9.6	7.71	11
05-09-2012	ME	US1	14:30:51	M	4.6	70.9	0.42	28.87	23.95	74.0	5.00	7.9	7.71	13
05-09-2012	ME	US1	14:31:49	T	1.2	89.9	0.83	29.10	23.04	81.8	5.53	5.2	7.73	6
05-09-2012	ME	US1	14:32:43	B	7.8	129.9	0.45	28.77	24.51	72.3	4.88	9.7	7.70	12
05-09-2012	ME	US1	14:33:34	M	4.5	115.3	0.47	28.88	23.80	72.6	4.91	9.5	7.70	12
05-09-2012	ME	US1	14:34:25	T	1.1	93.5	0.65	29.12	23.02	81.3	5.49	5.9	7.72	7
05-09-2012	ME	US2	14:20:37	B	8.1	100.9	0.20	28.71	24.87	70.8	4.77	13.3	7.69	10
05-09-2012	ME	US2	14:21:17	M	4.4	67.4	0.65	28.82	24.25	72.0	4.86	10.9	7.70	12
05-09-2012	ME	US2	14:22:03	T	1.2	103.8	0.14	29.01	23.28	78.6	5.31	7.2	7.72	8
05-09-2012	ME	US2	14:23:09	B	8.2	116.4	0.54	28.76	24.57	70.8	4.77	9.9	7.70	11
05-09-2012	ME	US2	14:24:01	M	4.5	124.7	0.53	28.98	23.44	76.7	5.18	7.5	7.71	10
05-09-2012	ME	US2	14:24:54	T	1.3	80.1	0.31	29.01	23.32	78.5	5.31	6.8	7.72	8