

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vd

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)
2016/12/19	MF	MW1	10:22	B	19	49.5	0.42	21.13	30.03	95.93	7.16	8.13	8.03	8.10
2016/12/19	MF	MW1	10:23	M	10.5	127	0.29	21.13	30.03	96.14	7.17	6.34	8.03	9.60
2016/12/19	MF	MW1	10:24	T	1.2	249.6	0.97	21.13	30.02	96.95	7.23	6.94	8.03	10.20
2016/12/19	MF	MW1	10:25	B	18.9	306.9	0.48	21.13	30.04	95.46	7.12	7.64	8.03	7.90
2016/12/19	MF	MW1	10:26	M	10.7	278.7	0.15	21.14	30.04	95.97	7.16	7.24	8.04	9.50
2016/12/19	MF	MW1	10:26	T	1.2	10.1	0.07	21.13	30.03	96.98	7.23	5.64	8.04	9.90
2016/12/19	MF	US2	11:37	B	6.8	349.2	0.43	20.94	29.66	99.77	7.49	10.33	8.04	9.90
2016/12/19	MF	US2	11:38	M	4.3	273.7	0.36	20.97	29.65	99.88	7.49	8.43	8.03	9.70
2016/12/19	MF	US2	11:39	T	1.2	250.8	0.66	20.98	29.66	100.29	7.52	8.43	8.03	9.00
2016/12/19	MF	US2	11:39	B	7	351.6	0.48	20.96	29.67	99.7	7.48	7.44	8.03	9.50
2016/12/19	MF	US2	11:40	M	4.4	286.5	0.96	20.96	29.67	99.7	7.48	7.93	8.03	9.80
2016/12/19	MF	US2	11:41	T	1.2	262.6	0.36	20.99	29.67	100.32	7.52	6.94	8.03	9.30
2016/12/19	MF	US1	11:47	B	8.3	335.8	0.94	20.85	29.77	98.47	7.39	9.83	8.03	11.70
2016/12/19	MF	US1	11:48	M	4.8	261.6	0.28	20.91	29.73	98.77	7.41	8.63	8.02	9.70
2016/12/19	MF	US1	11:48	T	1.1	317.5	0.59	21	29.69	100.2	7.51	6.04	8.02	8.10
2016/12/19	MF	US1	11:49	B	8.3	3.8	0.54	20.85	29.77	98.49	7.4	11.03	8.02	11.00
2016/12/19	MF	US1	11:49	M	4.8	264.6	0.65	20.9	29.73	98.9	7.42	8.53	8.02	9.90
2016/12/19	MF	US1	11:50	T	1.2	328.8	0.68	21	29.69	100.42	7.52	6.94	8.02	8.20
2016/12/19	MF	DS1	11:57	B	8.7	279.6	0.51	20.89	29.68	99.29	7.45	14.42	8.03	17.10
2016/12/19	MF	DS1	11:58	M	4.5	251.6	0.69	20.88	29.69	99.4	7.46	16.32	8.02	17.00
2016/12/19	MF	DS1	11:59	T	1.3	263.9	0.27	20.93	29.64	100.02	7.51	13.92	8.02	17.60
2016/12/19	MF	DS1	12:00	B	8.7	316.5	1.26	20.88	29.71	99.11	7.44	14.72	8.02	17.20
2016/12/19	MF	DS1	12:00	M	5.8	325.1	0.37	20.86	29.74	99.22	7.45	16.02	8.03	17.70
2016/12/19	MF	DS1	12:01	T	1.4	315.8	1.01	20.91	29.65	99.73	7.49	13.02	8.01	17.30
2016/12/19	MF	DS2	12:07	B	7.8	238.7	0.57	20.86	29.73	99.19	7.45	22.61	8.02	23.10
2016/12/19	MF	DS2	12:08	M	5.1	317.3	0.34	20.89	29.74	99.51	7.47	14.12	8.02	15.10
2016/12/19	MF	DS2	12:08	T	1.3	219.2	0.29	21.01	29.59	100.93	7.57	8.43	8.01	11.30
2016/12/19	MF	DS2	12:09	B	7.9	209.7	0.51	20.84	29.76	99.01	7.44	24.4	8.02	23.30
2016/12/19	MF	DS2	12:10	M	4.9	299.3	0.25	20.87	29.75	99.22	7.45	16.22	8.02	15.10
2016/12/19	MF	DS2	12:11	T	1.2	292	0.38	21.01	29.6	101.26	7.59	7.14	8.01	11.20
2016/12/19	MF	DS3	12:16	B	7.8	55.5	0.47	20.89	29.7	99.4	7.46	14.72	8.01	15.40
2016/12/19	MF	DS3	12:17	M	4.8	328.9	0.53	20.91	29.72	99.61	7.47	11.53	8.01	11.90
2016/12/19	MF	DS3	12:17	T	1.3	321.8	0.62	20.91	29.7	100.02	7.51	10.63	8	11.90
2016/12/19	MF	DS3	12:18	B	7.9	324.2	1.29	20.89	29.72	99.22	7.45	15.72	8	14.80
2016/12/19	MF	DS3	12:19	M	5.1	324.4	0.63	20.89	29.72	99.33	7.46	12.82	8	11.80
2016/12/19	MF	DS3	12:20	T	1.1	267	0.21	20.96	29.71	100.05	7.5	9.33	8	12.40
2016/12/19	MF	DS4	12:26	B	7.9	147.4	0.51	21.01	29.52	100.22	7.52	9.83	8	9.60
2016/12/19	MF	DS4	12:26	M	5	2.8	0.29	21.02	29.37	100.33	7.53	8.13	7.99	9.00
2016/12/19	MF	DS4	12:27	T	1.1	45.7	0.87	21.11	28.42	100.34	7.56	5.94	7.95	8.90
2016/12/19	MF	DS4	12:28	B	7.5	348.8	0.7	21.01	29.57	100.14	7.51	11.43	8	9.90
2016/12/19	MF	DS4	12:29	M	5.1	55	0.17	21.02	29.53	100.76	7.55	8.73	8	8.70
2016/12/19	MF	DS4	12:30	T	1.1	4.6	0.39	21.13	28.17	101.79	7.68	4.64	7.95	8.70
2016/12/19	MF	DS5	12:36	B	7.9	74.8	0.22	20.9	28.86	98.2	7.41	10.03	7.95	11.30
2016/12/19	MF	DS5	12:37	M	5.1	167.8	0.34	20.96	28.01	98.11	7.43	6.44	7.92	7.00
2016/12/19	MF	DS5	12:38	T	1.1	4	0.46	21.16	27.84	100.56	7.59	4.34	7.93	5.20
2016/12/19	MF	DS5	12:38	B	7.9	339.9	0.49	20.91	29.03	97.92	7.38	10.33	7.95	11.70
2016/12/19	MF	DS5	12:39	M	4.9	334.1	0.36	20.96	28.03	98.23	7.44	6.04	7.92	7.10
2016/12/19	MF	DS5	12:40	T	1.2	11.8	0.80	21.15	27.82	100.38	7.58	4.34	7.93	5.50
2016/12/19	ME	US2	16:02	B	8.1	33.1	0.42	21.11	29.81	101.71	7.6	5.54	8.05	5.50
2016/12/19	ME	US2	16:03	M	5.1	92.2	0.11	21.11	29.48	102.62	7.68	4.44	8.03	6.50
2016/12/19	ME	US2	16:04	T	1	114.2	0.6	21.55	28.47	107.24	8.01	3.54	8.02	4.00
2016/12/19	ME	US2	16:05	B	7.9	16.8	0.32	21.13	29.73	102.93	7.69	4.34	8.04	5.40
2016/12/19	ME	US2	16:05	M	5	147.5	0.32	21.27	29.07	103.64	7.76	4.24	8.03	6.30
2016/12/19	ME	US2	16:06	T	1.2	226	0.33	21.58	28.41	107.46	8.03	3.54	8.02	4.10
2016/12/19	ME	US1	16:12	B	8.9	262.2	0.33	21.23	29.69	102.88	7.68	3.74	8.04	4.40
2016/12/19	ME	US1	16:13	M	5.5	185.1	0.29	21.21	29.55	103.69	7.75	3.64	8.04	5.60
2016/12/19	ME	US1	16:14	T	1.2	157.4	0.47	21.27	29.12	106.4	7.96	3.84	8.04	5.60
2016/12/19	ME	US1	16:14	B	8.9	205.1	0.42	21.26	29.68	104.2	7.77	3.84	8.04	4.50

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2016/12/19	ME	US1	16:15	M	5.4	128	0.47	21.22	29.53	104.3	7.79	3.64	8.04	5.90
2016/12/19	ME	US1	16:16	T	1.1	154.6	0.21	21.39	28.79	106.92	8	3.74	8.04	5.60
2016/12/19	ME	DS1	16:23	B	7.9	30.3	0.46	21.03	29.87	102.04	7.63	4.64	8.06	6.20
2016/12/19	ME	DS1	16:24	M	5	169.9	0.33	21.27	29.72	103.96	7.75	4.44	8.04	5.00
2016/12/19	ME	DS1	16:24	T	1	351.3	0.35	21.29	29.16	106.37	7.95	4.04	8.04	6.10
2016/12/19	ME	DS1	16:25	B	7.9	21.8	0.58	21.05	29.85	102.46	7.66	4.74	8.03	6.20
2016/12/19	ME	DS1	16:26	M	5	191.9	0.45	21.31	29.5	104.87	7.82	4.04	8.04	4.70
2016/12/19	ME	DS1	16:26	T	1.2	221.1	0.24	21.29	29.14	107.19	8.01	4.14	8.04	6.20
2016/12/19	ME	DS2	16:33	B	7	77.5	0.65	21.04	29.88	101.1	7.56	4.64	8.04	5.30
2016/12/19	ME	DS2	16:33	M	4.5	12.8	0.32	21.16	29.79	101.5	7.58	4.64	8.03	4.70
2016/12/19	ME	DS2	16:34	T	1.1	92.8	0.76	21.18	29.77	102.41	7.64	4.04	8.03	5.40
2016/12/19	ME	DS2	16:35	B	7.1	201.4	0.79	21.13	29.86	102.11	7.63	4.34	8.04	5.30
2016/12/19	ME	DS2	16:35	M	4.5	316.4	0.53	21.21	29.78	102.32	7.63	4.04	8.03	4.90
2016/12/19	ME	DS2	16:36	T	1.1	337.7	0.3	21.19	29.76	103.13	7.7	3.44	8.03	5.60
2016/12/19	ME	DS3	16:42	B	8	101.5	0.3	20.97	29.92	99.04	7.42	5.34	8.03	6.40
2016/12/19	ME	DS3	16:43	M	5	136.7	0.79	21.14	29.79	101.26	7.56	4.94	8.04	5.30
2016/12/19	ME	DS3	16:44	T	1.2	265.7	0.79	21.12	29.75	102.37	7.65	3.84	8.03	4.40
2016/12/19	ME	DS3	16:44	B	7.9	194.8	0.54	20.98	29.92	99.46	7.45	5.84	8.03	6.00
2016/12/19	ME	DS3	16:45	M	5.1	119	0.89	21.13	29.78	101.78	7.6	4.34	8.03	5.20
2016/12/19	ME	DS3	16:46	T	1.1	196.2	0.73	21.13	29.75	102.59	7.67	3.64	8.02	4.20
2016/12/19	ME	DS4	16:53	B	20	224.1	0.63	20.99	29.91	98	7.34	6.04	8.01	8.80
2016/12/19	ME	DS4	16:55	M	10.8	88.2	0.42	21.08	29.85	100.23	7.49	4.04	8.02	4.60
2016/12/19	ME	DS4	16:56	T	1.1	242.1	0.19	21.11	29.79	101.94	7.62	4.14	8.02	4.60
2016/12/19	ME	DS4	16:57	B	20	92.6	0.52	21.04	29.89	98.53	7.37	7.34	8.02	9.10
2016/12/19	ME	DS4	16:58	M	11.1	153.2	0.37	21.1	29.84	100.75	7.53	4.64	8.03	4.50
2016/12/19	ME	DS4	16:59	T	1.2	154.6	0.61	21.11	29.82	102.67	7.67	3.84	8.03	4.40
2016/12/19	ME	DS5	17:05	B	7	163.6	0.42	20.94	29.94	97.06	7.27	10.13	8.01	12.20
2016/12/19	ME	DS5	17:05	M	4.5	64.1	0.37	20.99	29.86	97.67	7.31	5.94	8.01	6.00
2016/12/19	ME	DS5	17:06	T	1.1	286	0.47	21.04	29.81	99.79	7.47	4.74	8.02	5.40
2016/12/19	ME	DS5	17:07	B	7	110.5	0.66	20.94	29.93	96.67	7.24	10.13	8.01	12.30
2016/12/19	ME	DS5	17:07	M	4.5	123.1	0.31	20.97	29.87	97.48	7.3	5.44	8.01	6.20
2016/12/19	ME	DS5	17:08	T	1.1	65.9	0.29	21.02	29.84	99.3	7.43	4.54	8.01	5.60