

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vb

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)
2019/11/13	MF	MW1	06:20	B	19.4	228.4	0.46	25.27	32.48	113.90	7.79	11.00	8.15	11.1
2019/11/13	MF	MW1	06:21	M	11.0	69.6	0.74	25.26	32.46	114.40	7.83	5.70	8.14	5.7
2019/11/13	MF	MW1	06:22	T	1.0	356.6	0.50	25.21	32.39	117.51	8.05	4.11	8.15	5.9
2019/11/13	MF	MW1	06:23	B	19.2	53.1	0.10	25.27	32.47	114.01	7.80	8.30	8.15	11.2
2019/11/13	MF	MW1	06:25	M	10.5	43.6	0.65	25.25	32.46	115.92	7.93	5.80	8.15	5.8
2019/11/13	MF	MW1	06:26	T	1.2	49.3	0.58	25.20	32.38	117.62	8.06	3.81	8.16	5.7
2019/11/13	MF	DS1	07:46	B	7.7	320.3	0.28	24.91	31.94	117.87	8.13	12.70	8.16	12.1
2019/11/13	MF	DS1	07:47	M	4.7	292.7	0.74	24.93	31.92	118.27	8.16	9.40	8.15	13.4
2019/11/13	MF	DS1	07:47	T	1.2	311.2	1.01	24.98	31.82	119.18	8.22	7.50	8.14	11.8
2019/11/13	MF	DS1	07:49	B	8.2	305.8	1.18	24.94	31.90	118.38	8.17	9.10	8.13	11.8
2019/11/13	MF	DS1	07:49	M	5.0	308.6	0.72	24.96	31.88	118.68	8.19	9.70	8.13	13.5
2019/11/13	MF	DS1	07:50	T	0.9	298.7	0.89	24.97	31.86	118.99	8.21	8.80	8.12	11.4
2019/11/13	MF	DS2	07:56	B	7.7	281.8	0.99	24.93	31.94	117.21	8.09	11.00	8.14	11.5
2019/11/13	MF	DS2	07:57	M	4.7	0.8	1.07	24.93	31.94	118.11	8.15	9.20	8.13	10.7
2019/11/13	MF	DS2	07:57	T	1.3	285.3	1.00	24.93	31.91	119.12	8.22	7.50	8.13	8.5
2019/11/13	MF	DS2	07:58	B	7.8	324.3	0.91	24.93	31.94	118.02	8.14	9.90	8.13	11.9
2019/11/13	MF	DS2	07:59	M	5.2	296.7	0.64	24.93	31.93	118.12	8.15	8.60	8.13	10.2
2019/11/13	MF	DS2	08:00	T	1.1	332.4	1.33	24.94	31.91	119.63	8.25	6.90	8.13	8.5
2019/11/13	MF	DS3	08:05	B	8.2	291.3	1.75	24.93	31.90	117.54	8.11	10.40	8.12	15.1
2019/11/13	MF	DS3	08:05	M	5.0	326.2	0.91	24.93	31.90	117.95	8.14	8.30	8.12	11.0
2019/11/13	MF	DS3	08:06	T	0.8	323.4	0.50	24.93	31.90	118.85	8.20	7.40	8.12	10.0
2019/11/13	MF	DS3	08:07	B	7.7	331.0	0.45	24.93	31.91	118.26	8.16	14.80	8.12	14.9
2019/11/13	MF	DS3	08:07	M	4.7	310.9	0.48	24.93	31.91	118.56	8.18	10.50	8.12	11.1
2019/11/13	MF	DS3	08:08	T	1.1	320.4	0.83	24.93	31.92	119.06	8.22	7.10	8.12	9.4
2019/11/13	MF	DS4	08:13	B	8.1	327.4	0.31	24.92	31.87	117.28	8.10	10.60	8.12	11.4
2019/11/13	MF	DS4	08:13	M	4.9	356.4	0.55	24.92	31.87	118.39	8.17	9.50	8.12	10.7
2019/11/13	MF	DS4	08:14	T	1.1	251.1	0.71	24.92	31.88	118.89	8.21	7.70	8.12	9.4
2019/11/13	MF	DS4	08:15	B	7.9	41.5	0.36	24.92	31.88	118.59	8.19	9.10	8.11	11.0
2019/11/13	MF	DS4	08:16	M	4.9	14.6	0.26	24.92	31.88	118.39	8.17	8.40	8.11	10.7
2019/11/13	MF	DS4	08:16	T	1.4	339.5	0.77	24.91	31.89	120.11	8.29	6.30	8.11	9.1
2019/11/13	MF	DS5	08:22	B	8.1	323.7	0.35	24.92	31.71	116.41	8.04	17.89	8.10	16.4
2019/11/13	MF	DS5	08:22	M	5.5	313.1	0.44	24.91	31.74	117.82	8.14	13.30	8.10	13.7
2019/11/13	MF	DS5	08:23	T	0.9	292.4	0.83	24.91	31.73	118.73	8.20	8.80	8.10	7.6
2019/11/13	MF	DS5	08:24	B	8.3	336.0	0.71	24.90	31.81	118.43	8.18	12.90	8.11	16.4
2019/11/13	MF	DS5	08:25	M	4.9	241.2	0.46	24.90	31.83	118.84	8.21	9.50	8.11	13.7
2019/11/13	MF	DS5	08:25	T	1.2	17.2	0.79	24.90	31.84	120.75	8.34	5.40	8.11	7.5
2019/11/13	MF	US1	08:42	B	10.2	302.8	0.62	25.00	31.99	119.01	8.20	15.69	8.10	12.6
2019/11/13	MF	US1	08:43	M	6.2	293.1	0.51	25.00	31.96	119.72	8.25	12.50	8.09	12.9
2019/11/13	MF	US1	08:43	T	1.4	223.8	0.27	25.03	31.92	120.73	8.32	8.70	8.09	25.5
2019/11/13	MF	US1	08:45	B	9.5	245.7	0.33	25.00	31.96	119.83	8.26	20.89	8.09	12.1
2019/11/13	MF	US1	08:46	M	6.2	303.3	0.38	25.04	31.91	119.93	8.26	7.70	8.09	13.1
2019/11/13	MF	US1	08:47	T	0.9	300.4	0.32	25.06	31.90	120.04	8.27	7.10	8.09	25.1
2019/11/13	MF	US2	08:55	B	8.2	283.7	1.58	25.19	31.97	119.57	8.21	8.90	8.10	12.4
2019/11/13	MF	US2	08:56	M	5.0	295.4	1.10	25.18	31.97	120.28	8.26	8.30	8.09	10.3
2019/11/13	MF	US2	08:57	T	1.1	268.0	0.20	25.19	31.97	121.19	8.32	8.00	8.08	9.1
2019/11/13	MF	US2	08:58	B	8.3	288.3	0.55	25.19	31.97	120.49	8.27	10.60	8.07	12.4
2019/11/13	MF	US2	08:59	M	5.2	26.5	0.37	25.19	31.96	120.29	8.26	9.70	8.07	12.3
2019/11/13	MF	US2	09:00	T	1.2	255.3	0.86	25.19	31.96	120.70	8.29	9.40	8.07	26.5

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vb

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)
2019/11/13	ME	US2	12:17	B	8.3	63.1	0.61	24.88	32.39	115.23	7.94	7.60	8.23	10.2
2019/11/13	ME	US2	12:18	M	5.1	60.3	0.75	25.12	31.55	125.23	8.63	3.61	8.25	4.6
2019/11/13	ME	US2	12:18	T	1.2	106.0	1.09	25.59	30.75	134.63	9.25	3.11	8.26	4.6
2019/11/13	ME	US2	12:19	B	8.0	49.6	1.01	24.88	32.39	116.53	8.03	8.60	8.22	10.9
2019/11/13	ME	US2	12:20	M	5.1	93.3	0.57	25.14	31.53	125.73	8.66	4.11	8.25	4.5
2019/11/13	ME	US2	12:21	T	1.1	103.2	0.83	25.57	30.76	136.63	9.39	3.21	8.24	4.9
2019/11/13	ME	US1	12:28	B	8.9	118.3	0.44	24.87	32.38	114.53	7.89	10.50	8.20	11.3
2019/11/13	ME	US1	12:28	M	5.7	74.6	1.31	25.19	31.44	126.44	8.71	4.71	8.23	5.1
2019/11/13	ME	US1	12:29	T	1.3	108.9	0.84	25.64	30.79	136.24	9.35	3.41	8.24	4.2
2019/11/13	ME	US1	12:30	B	9.0	92.8	0.63	24.88	32.38	117.44	8.09	9.70	8.20	11.9
2019/11/13	ME	US1	12:30	M	5.3	126.4	1.06	25.26	31.15	129.84	8.95	4.11	8.24	4.9
2019/11/13	ME	US1	12:31	T	1.0	135.6	0.69	25.47	30.79	136.74	9.41	3.41	8.24	4.2
2019/11/13	ME	DS1	12:39	B	8.5	103.0	1.23	24.90	32.24	115.44	7.95	10.20	8.20	4.2
2019/11/13	ME	DS1	12:39	M	5.0	108.3	0.68	24.94	31.93	120.24	8.29	5.70	8.22	6.6
2019/11/13	ME	DS1	12:40	T	1.1	101.5	0.71	25.30	31.06	134.35	9.26	3.41	8.26	4.3
2019/11/13	ME	DS1	12:41	B	7.9	70.1	1.17	24.91	32.22	117.94	8.13	7.50	8.20	4.2
2019/11/13	ME	DS1	12:42	M	4.7	60.8	0.82	24.93	31.95	119.74	8.26	6.50	8.22	6.7
2019/11/13	ME	DS1	12:42	T	1.0	110.4	1.25	25.17	31.08	134.45	9.28	3.61	8.25	4.2
2019/11/13	ME	DS2	12:49	B	9.0	137.2	0.75	25.11	32.06	119.85	8.24	6.10	8.21	8.2
2019/11/13	ME	DS2	12:49	M	5.7	97.3	1.06	25.07	31.94	122.55	8.43	5.20	8.22	6.8
2019/11/13	ME	DS2	12:50	T	1.0	101.8	0.75	25.37	31.06	129.45	8.91	3.91	8.26	8.4
2019/11/13	ME	DS2	12:52	B	9.0	69.2	0.50	25.12	32.07	120.25	8.26	5.80	8.20	8.8
2019/11/13	ME	DS2	12:52	M	5.3	82.5	0.49	25.05	31.98	121.55	8.37	5.40	8.21	6.7
2019/11/13	ME	DS2	12:53	T	1.2	117.2	0.97	25.30	31.13	136.96	9.43	3.31	8.25	8.7
2019/11/13	ME	DS3	12:58	B	8.0	73.0	1.13	25.14	32.06	119.06	8.18	6.50	8.20	6.1
2019/11/13	ME	DS3	12:59	M	5.1	99.4	1.17	25.14	32.03	120.46	8.28	5.40	8.20	15.9
2019/11/13	ME	DS3	13:00	T	1.3	107.5	0.41	25.39	31.09	137.77	9.48	3.31	8.26	4.5
2019/11/13	ME	DS3	13:00	B	8.3	3.7	0.49	25.14	32.06	121.86	8.37	7.00	8.20	6.0
2019/11/13	ME	DS3	13:01	M	5.0	100.3	0.64	25.13	32.02	121.16	8.33	5.90	8.20	15.9
2019/11/13	ME	DS3	13:02	T	1.0	173.3	1.38	25.38	31.05	137.97	9.49	3.51	8.26	4.6
2019/11/13	ME	DS4	13:07	B	14.0	310.9	0.37	25.20	32.21	115.56	7.92	17.99	8.18	16.2
2019/11/13	ME	DS4	13:08	M	8.2	210.4	0.24	25.15	32.06	117.96	8.10	5.60	8.19	6.8
2019/11/13	ME	DS4	13:09	T	1.0	47.1	0.58	25.56	31.08	138.47	9.50	3.01	8.27	3.7
2019/11/13	ME	DS4	13:10	B	14.3	39.6	0.69	25.19	32.19	117.36	8.05	13.30	8.18	15.4
2019/11/13	ME	DS4	13:11	M	8.1	129.8	0.74	25.14	32.04	119.67	8.22	5.20	8.20	7.3
2019/11/13	ME	DS4	13:12	T	1.0	133.0	0.88	25.47	31.01	141.88	9.75	3.21	8.27	3.7
2019/11/13	ME	DS5	13:18	B	8.1	16.0	0.44	25.17	32.13	118.27	8.12	6.40	8.19	7.9
2019/11/13	ME	DS5	13:19	M	5.2	88.7	0.62	25.15	32.02	121.37	8.34	4.31	8.20	6.5
2019/11/13	ME	DS5	13:19	T	1.0	61.2	0.93	25.41	31.13	142.79	9.82	3.21	8.28	5.2
2019/11/13	ME	DS5	13:21	B	7.6	84.2	0.82	25.17	32.11	119.07	8.17	10.20	8.18	7.8
2019/11/13	ME	DS5	13:22	M	5.1	104.0	1.19	25.14	32.02	120.67	8.29	4.91	8.19	6.0
2019/11/13	ME	DS5	13:23	T	1.2	94.6	1.05	25.53	31.10	143.19	9.82	3.01	8.26	5.4
2019/11/13	ME	MW1	14:09	B	18.7	8.9	0.34	25.46	32.81	106.90	7.27	4.51	8.05	6.8
2019/11/13	ME	MW1	14:10	M	10.6	276.1	0.65	25.48	32.77	113.50	7.72	3.61	8.07	4.7
2019/11/13	ME	MW1	14:11	T	0.8	132.3	0.89	25.60	32.64	118.41	8.04	3.31	8.13	5.1
2019/11/13	ME	MW1	14:12	B	18.9	72.8	0.62	25.48	32.78	110.30	7.50	3.81	8.07	7.0
2019/11/13	ME	MW1	14:13	M	10.5	311.2	0.42	25.47	32.79	108.80	7.40	3.71	8.07	4.9
2019/11/13	ME	MW1	14:14	T	0.8	139.9	0.31	25.56	32.68	121.41	8.25	2.91	8.15	4.8