

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)
2019/11/18	MF	MW1	10:38	B	19.3	335.5	0.32	25.03	31.37	115.33	7.97	7.60	8.17	8.1
2019/11/18	MF	MW1	10:39	M	10.6	11.8	0.63	25.04	31.30	117.14	8.10	5.30	8.18	6.7
2019/11/18	MF	MW1	10:40	T	1.0	58.3	1.15	25.06	31.13	120.05	8.30	3.71	8.19	4.7
2019/11/18	MF	MW1	10:43	B	18.9	347.0	0.77	25.03	31.42	115.37	7.97	11.30	8.19	8.7
2019/11/18	MF	MW1	10:44	M	10.6	48.8	0.76	25.04	31.40	116.78	8.07	4.81	8.19	6.8
2019/11/18	MF	MW1	10:45	T	1.0	358.3	0.40	25.06	31.21	119.89	8.29	3.71	8.20	4.7
2019/11/18	MF	DS1	11:58	B	8.4	281.7	0.54	25.00	30.42	119.06	8.28	7.00	8.17	5.4
2019/11/18	MF	DS1	11:58	M	5.1	267.1	0.18	24.89	29.52	122.49	8.57	4.31	8.17	4.3
2019/11/18	MF	DS1	11:59	T	1.2	4.9	0.52	25.08	28.95	127.54	8.93	3.51	8.18	3.1
2019/11/18	MF	DS1	12:00	B	7.9	290.9	0.68	25.01	30.43	120.09	8.34	7.80	8.16	5.5
2019/11/18	MF	DS1	12:01	M	5.1	318.8	0.46	24.87	29.61	122.21	8.55	4.61	8.17	4.4
2019/11/18	MF	DS1	12:01	T	1.2	37.4	0.61	25.07	29.02	127.16	8.90	3.31	8.18	3.1
2019/11/18	MF	DS2	12:12	B	7.8	258.5	0.47	25.01	30.56	117.37	8.15	14.20	8.16	14.7
2019/11/18	MF	DS2	12:12	M	5.1	323.7	0.73	25.00	30.39	117.98	8.20	8.10	8.16	10.4
2019/11/18	MF	DS2	12:13	T	1.1	226.1	1.36	25.00	29.11	122.73	8.59	3.91	8.18	7.4
2019/11/18	MF	DS2	12:14	B	8.2	339.3	0.54	25.01	30.55	115.98	8.05	13.40	8.15	14.9
2019/11/18	MF	DS2	12:15	M	4.9	250.1	0.30	24.98	30.09	119.92	8.35	6.20	8.16	10.3
2019/11/18	MF	DS2	12:16	T	0.9	61.2	0.38	25.06	28.99	125.99	8.82	3.01	8.16	7.2
2019/11/18	MF	DS3	12:22	B	8.0	241.6	0.34	25.02	30.57	115.04	7.99	13.10	8.15	9.8
2019/11/18	MF	DS3	12:23	M	5.0	354.3	0.71	24.93	29.76	120.30	8.40	5.70	8.15	5.1
2019/11/18	MF	DS3	12:23	T	1.3	1.4	0.38	25.11	28.95	128.28	8.97	3.11	8.17	3.5
2019/11/18	MF	DS3	12:24	B	8.0	329.4	0.67	25.03	30.63	117.79	8.17	14.20	8.14	9.4
2019/11/18	MF	DS3	12:25	M	5.1	22.0	0.53	24.92	29.80	121.13	8.46	5.90	8.15	4.9
2019/11/18	MF	DS3	12:26	T	1.2	297.1	0.49	25.12	28.96	125.68	8.79	3.21	8.17	3.6
2019/11/18	MF	DS4	12:31	B	8.3	284.0	0.34	24.99	30.38	117.64	8.18	15.29	8.14	14.2
2019/11/18	MF	DS4	12:32	M	5.2	312.3	0.39	24.95	29.32	121.19	8.48	6.40	8.14	6.4
2019/11/18	MF	DS4	12:32	T	1.0	36.8	0.39	25.12	28.93	126.96	8.88	4.31	8.16	3.8
2019/11/18	MF	DS4	12:33	B	8.0	293.5	0.41	24.99	30.38	117.37	8.16	11.90	8.13	13.2
2019/11/18	MF	DS4	12:34	M	4.9	14.6	0.62	24.96	29.26	121.52	8.51	7.40	8.14	6.3
2019/11/18	MF	DS4	12:35	T	0.9	69.7	0.82	25.12	28.95	127.19	8.90	3.21	8.16	3.9
2019/11/18	MF	DS5	12:40	B	8.1	293.7	0.61	24.96	29.19	115.40	8.08	7.60	8.11	9.3
2019/11/18	MF	DS5	12:41	M	5.1	357.2	1.15	24.94	28.87	118.44	8.31	4.61	8.12	6.3
2019/11/18	MF	DS5	12:41	T	1.2	171.3	0.25	25.19	27.87	124.21	8.73	2.71	8.12	3.7
2019/11/18	MF	DS5	12:42	B	8.1	316.8	0.73	24.95	29.10	118.86	8.33	6.50	8.12	8.9
2019/11/18	MF	DS5	12:43	M	5.1	102.4	0.32	24.94	28.87	118.97	8.35	4.21	8.12	6.0
2019/11/18	MF	DS5	12:44	T	1.0	2.9	0.44	25.18	27.82	125.55	8.83	2.71	8.11	3.7
2019/11/18	MF	US1	12:57	B	8.2	189.6	0.54	25.08	31.07	114.85	7.94	13.60	8.11	12.5
2019/11/18	MF	US1	12:58	M	5.1	248.2	0.69	24.97	30.45	119.62	8.32	5.40	8.13	5.9
2019/11/18	MF	US1	12:59	T	1.2	142.2	0.26	25.09	29.88	128.13	8.92	3.81	8.17	4.5
2019/11/18	MF	US1	13:00	B	8.1	336.0	0.44	25.07	31.05	117.40	8.12	11.40	8.11	12.7
2019/11/18	MF	US1	13:01	M	4.9	230.4	0.63	24.98	30.45	120.75	8.39	5.60	8.13	6.0
2019/11/18	MF	US1	13:02	T	1.3	101.1	0.58	25.09	29.89	130.69	9.10	3.71	8.17	4.7
2019/11/18	MF	US2	13:07	B	8.9	312.3	0.22	25.02	30.86	118.68	8.23	6.40	8.12	8.8
2019/11/18	MF	US2	13:08	M	5.5	121.2	0.69	25.05	30.42	127.11	8.83	4.11	8.15	6.1
2019/11/18	MF	US2	13:09	T	1.1	97.9	0.98	25.14	30.31	130.56	9.06	3.71	8.18	4.5
2019/11/18	MF	US2	13:09	B	8.9	259.2	0.36	25.03	30.90	121.04	8.39	6.50	8.11	8.8
2019/11/18	MF	US2	13:10	M	5.5	326.3	0.49	25.00	30.53	125.00	8.68	5.01	8.14	6.2
2019/11/18	MF	US2	13:11	T	1.1	68.3	0.48	25.17	30.25	133.32	9.25	3.91	8.18	4.6

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)
2019/11/18	ME	US2	15:43	B	8.2	229.2	0.43	25.00	30.65	120.98	8.40	5.30	8.15	6.4
2019/11/18	ME	US2	15:44	M	5.1	58.8	0.59	25.02	30.48	124.36	8.64	4.41	8.17	4.9
2019/11/18	ME	US2	15:45	T	0.9	83.6	0.44	25.11	28.59	131.42	9.21	3.01	8.16	3.7
2019/11/18	ME	US2	15:46	B	8.0	312.6	0.07	25.00	30.65	122.75	8.52	5.01	8.16	6.1
2019/11/18	ME	US2	15:46	M	4.9	196.0	0.42	25.07	29.83	126.53	8.81	3.71	8.19	4.8
2019/11/18	ME	US2	15:47	T	0.9	63.4	0.80	25.14	28.33	131.99	9.26	2.61	8.17	3.8
2019/11/18	ME	US1	15:52	B	8.1	331.1	0.19	25.03	30.68	121.09	8.40	4.91	8.15	5.9
2019/11/18	ME	US1	15:53	M	5.0	25.0	0.32	25.07	30.31	126.56	8.79	3.71	8.18	4.7
2019/11/18	ME	US1	15:53	T	1.0	113.8	0.49	25.17	28.10	132.32	9.29	2.71	8.15	5.9
2019/11/18	ME	US1	15:54	B	8.1	155.1	0.22	25.04	30.69	122.56	8.50	4.71	8.15	6.2
2019/11/18	ME	US1	15:55	M	4.9	312.9	0.46	25.12	29.67	130.42	9.08	3.51	8.18	4.8
2019/11/18	ME	US1	15:56	T	1.0	265.3	0.15	25.16	28.12	133.00	9.34	2.61	8.15	5.7
2019/11/18	ME	DS1	16:01	B	9.0	191.4	0.63	25.02	30.57	124.19	8.62	5.40	8.17	6.2
2019/11/18	ME	DS1	16:02	M	5.6	283.1	0.15	25.03	30.50	125.67	8.73	5.40	8.17	6.9
2019/11/18	ME	DS1	16:02	T	1.0	125.3	0.33	25.18	28.18	132.23	9.28	2.71	8.16	4.5
2019/11/18	ME	DS1	16:03	B	9.1	328.4	0.55	25.03	30.61	125.06	8.68	4.61	8.17	6.2
2019/11/18	ME	DS1	16:04	M	5.6	143.1	0.29	25.03	30.52	125.85	8.74	4.91	8.17	7.1
2019/11/18	ME	DS1	16:05	T	1.1	96.4	0.15	25.17	28.06	133.09	9.35	2.41	8.14	4.6
2019/11/18	ME	DS2	16:09	B	17.0	57.2	0.80	25.05	30.95	119.73	8.29	4.51	8.14	18.5
2019/11/18	ME	DS2	16:10	M	9.3	312.3	0.66	25.06	30.72	122.60	8.50	4.31	8.15	5.3
2019/11/18	ME	DS2	16:11	T	0.9	219.8	0.96	25.19	28.13	134.32	9.43	3.01	8.16	3.5
2019/11/18	ME	DS2	16:12	B	17.0	305.4	0.56	25.05	30.94	120.40	8.34	4.51	8.14	18.8
2019/11/18	ME	DS2	16:13	M	9.5	6.5	0.56	25.07	30.76	122.68	8.50	4.51	8.15	5.0
2019/11/18	ME	DS2	16:14	T	1.0	133.5	0.63	25.19	28.14	133.69	9.38	2.61	8.16	3.2
2019/11/18	ME	DS3	16:19	B	8.9	176.5	0.26	25.01	31.06	118.15	8.18	5.01	8.13	6.6
2019/11/18	ME	DS3	16:19	M	5.5	312.7	0.25	25.11	30.58	126.19	8.75	4.01	8.17	6.0
2019/11/18	ME	DS3	16:20	T	1.2	90.2	1.25	25.22	28.50	136.31	9.54	2.81	8.17	4.2
2019/11/18	ME	DS3	16:21	B	9.1	47.1	0.37	25.02	31.05	119.42	8.27	4.71	8.12	7.0
2019/11/18	ME	DS3	16:22	M	5.4	130.9	0.30	25.11	30.48	129.74	9.00	4.01	8.18	6.4
2019/11/18	ME	DS3	16:22	T	1.1	245.2	0.25	25.21	28.44	137.18	9.61	2.81	8.17	4.1
2019/11/18	ME	DS4	16:27	B	13.4	283.2	0.39	25.03	31.21	116.68	8.07	4.71	8.12	5.9
2019/11/18	ME	DS4	16:29	M	7.6	131.6	0.18	25.04	30.77	122.72	8.51	4.31	8.15	6.1
2019/11/18	ME	DS4	16:29	T	1.0	46.0	0.69	25.20	29.50	137.00	9.54	3.01	8.20	3.8
2019/11/18	ME	DS4	16:31	B	13.2	210.2	0.20	25.03	31.23	116.55	8.06	5.01	8.11	5.9
2019/11/18	ME	DS4	16:31	M	7.6	347.9	0.46	25.04	30.74	122.20	8.47	4.31	8.15	6.1
2019/11/18	ME	DS4	16:32	T	1.1	96.9	0.73	25.21	28.94	137.56	9.61	3.01	8.19	3.5
2019/11/18	ME	DS5	16:37	B	8.9	54.0	0.34	25.06	31.44	113.52	7.84	5.20	8.09	6.8
2019/11/18	ME	DS5	16:38	M	5.4	54.8	0.16	25.05	30.92	120.85	8.37	4.21	8.14	4.9
2019/11/18	ME	DS5	16:38	T	1.0	184.7	0.22	25.13	30.47	136.30	9.45	3.31	8.21	4.6
2019/11/18	ME	DS5	16:39	B	9.1	199.3	0.29	25.06	31.41	116.37	8.03	4.71	8.09	7.1
2019/11/18	ME	DS5	16:40	M	5.5	69.9	0.56	25.06	31.33	115.57	7.98	4.01	8.10	5.0
2019/11/18	ME	DS5	16:40	T	0.9	270.7	0.54	25.11	30.48	133.41	9.25	3.51	8.20	4.5
2019/11/18	ME	MW1	17:29	B	19.1	54.5	0.17	25.12	32.05	109.39	7.52	5.80	8.03	6.7
2019/11/18	ME	MW1	17:30	M	10.4	63.3	0.73	25.11	31.91	113.82	7.83	3.31	8.05	4.5
2019/11/18	ME	MW1	17:31	T	0.9	280.5	0.46	25.10	31.86	114.80	7.90	3.11	8.06	3.9
2019/11/18	ME	MW1	17:35	B	19.1	216.4	0.39	25.12	31.98	111.21	7.65	5.01	8.04	7.0
2019/11/18	ME	MW1	17:36	M	10.4	187.9	0.61	25.11	31.90	113.37	7.80	3.41	8.05	4.7
2019/11/18	ME	MW1	17:37	T	1.4	31.8	1.02	25.03	31.77	116.32	8.02	3.01	8.06	3.9