

## 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)
2019/11/25	ME	MW1	10:29	B	19.0	96.9	0.24	24.53	32.84	88.80	6.14	6.20	8.03	8.5
2019/11/25	ME	MW1	10:30	M	10.6	295.7	0.19	24.53	32.80	89.50	6.19	5.01	8.03	4.1
2019/11/25	ME	MW1	10:31	T	1.1	310.9	0.51	24.57	32.67	90.20	6.24	5.30	8.04	5.2
2019/11/25	ME	MW1	10:33	B	18.6	353.8	0.14	24.53	32.84	88.00	6.08	7.80	8.04	9.0
2019/11/25	ME	MW1	10:34	M	10.7	108.9	0.24	24.54	32.79	89.20	6.17	5.30	8.04	4.1
2019/11/25	ME	MW1	10:35	T	1.0	23.4	0.46	24.58	32.60	90.70	6.27	4.71	8.05	5.4
2019/11/25	ME	US2	12:01	B	8.1	97.8	0.64	24.25	31.62	100.50	7.03	12.50	8.07	11.2
2019/11/25	ME	US2	12:02	M	5.1	139.8	1.01	24.27	31.59	100.80	7.05	8.30	8.07	7.6
2019/11/25	ME	US2	12:02	T	1.2	123.2	0.64	24.58	30.92	106.30	7.42	4.71	8.08	4.3
2019/11/25	ME	US2	12:03	B	8.1	178.1	0.39	24.27	31.60	100.10	7.00	11.30	8.06	11.1
2019/11/25	ME	US2	12:04	M	4.7	116.5	0.88	24.28	31.58	100.20	7.01	8.80	8.06	7.7
2019/11/25	ME	US2	12:05	T	1.2	47.4	0.34	24.44	31.09	105.70	7.39	5.01	8.08	4.2
2019/11/25	ME	US1	12:10	B	8.9	88.3	0.81	24.24	31.70	101.10	7.07	11.10	8.06	10.5
2019/11/25	ME	US1	12:11	M	5.7	162.4	0.76	24.30	31.47	103.30	7.22	5.40	8.07	4.4
2019/11/25	ME	US1	12:12	T	1.0	114.9	0.84	24.70	30.79	107.50	7.49	4.51	8.08	3.7
2019/11/25	ME	US1	12:13	B	9.2	101.0	0.57	24.25	31.69	100.50	7.03	9.70	8.06	10.5
2019/11/25	ME	US1	12:14	M	5.6	61.5	0.79	24.29	31.62	100.20	7.00	7.40	8.06	4.6
2019/11/25	ME	US1	12:15	T	1.3	91.3	0.60	24.66	30.84	107.70	7.51	4.61	8.08	3.7
2019/11/25	ME	DS1	12:19	B	10.2	115.8	0.06	24.20	31.72	100.80	7.05	17.09	8.05	11.3
2019/11/25	ME	DS1	12:20	M	5.8	59.5	0.36	24.26	31.65	101.60	7.10	11.40	8.05	10.5
2019/11/25	ME	DS1	12:21	T	1.2	158.9	0.53	24.68	30.82	108.00	7.53	4.51	8.07	4.4
2019/11/25	ME	DS1	12:24	B	10.6	15.2	0.34	24.22	31.71	100.70	7.04	16.79	8.05	10.9
2019/11/25	ME	DS1	12:25	M	5.9	70.3	0.23	24.25	31.68	100.40	7.02	11.00	8.05	11.3
2019/11/25	ME	DS1	12:26	T	1.2	74.2	0.56	24.55	31.11	108.30	7.56	4.61	8.07	4.4
2019/11/25	ME	DS2	12:32	B	22.7	95.5	0.30	24.19	31.73	99.70	6.98	25.18	8.05	22.0
2019/11/25	ME	DS2	12:33	M	12.1	310.8	1.32	24.24	31.70	100.00	6.99	10.90	8.05	10.9
2019/11/25	ME	DS2	12:35	T	1.4	95.9	1.06	24.60	30.94	108.80	7.59	4.61	8.07	4.4
2019/11/25	ME	DS2	12:36	B	22.0	56.0	0.64	24.19	31.73	99.40	6.95	17.09	8.04	21.7
2019/11/25	ME	DS2	12:38	M	12.5	205.3	0.46	24.24	31.68	99.80	6.98	11.40	8.04	10.5
2019/11/25	ME	DS2	12:39	T	1.0	122.7	1.27	24.60	30.96	109.20	7.62	4.61	8.06	4.2
2019/11/25	ME	DS3	12:45	B	10.4	149.8	0.32	24.24	31.65	101.10	7.07	14.00	8.04	13.6
2019/11/25	ME	DS3	12:45	M	6.0	137.9	0.62	24.38	31.30	105.10	7.35	6.20	8.05	5.0
2019/11/25	ME	DS3	12:46	T	1.1	69.4	1.07	24.59	30.97	108.40	7.56	4.51	8.05	4.8
2019/11/25	ME	DS3	12:47	B	10.3	151.0	0.78	24.30	31.55	102.10	7.14	12.90	8.04	13.7
2019/11/25	ME	DS3	12:48	M	6.4	121.2	0.67	24.37	31.37	104.70	7.32	6.90	8.05	5.0
2019/11/25	ME	DS3	12:49	T	1.3	87.0	0.56	24.65	30.92	110.10	7.68	4.91	8.07	5.0
2019/11/25	ME	DS4	12:55	B	8.9	163.2	0.35	24.25	31.64	101.30	7.08	12.90	8.03	13.0
2019/11/25	ME	DS4	12:56	M	5.6	82.6	0.51	24.35	31.40	103.30	7.22	6.70	8.04	4.7
2019/11/25	ME	DS4	12:57	T	1.2	123.7	1.06	24.82	30.94	106.70	7.42	4.71	8.03	3.7
2019/11/25	ME	DS4	12:58	B	9.2	126.7	0.12	24.27	31.61	101.30	7.08	12.50	8.03	14.0
2019/11/25	ME	DS4	12:58	M	5.2	67.7	0.35	24.42	31.30	103.70	7.24	6.20	8.03	4.7
2019/11/25	ME	DS4	12:59	T	1.2	144.9	0.30	24.75	30.94	105.70	7.36	4.41	8.03	3.6
2019/11/25	ME	DS5	13:05	B	11.4	101.4	0.19	24.26	31.58	99.60	6.97	20.19	8.03	18.2
2019/11/25	ME	DS5	13:06	M	6.6	79.1	1.09	24.36	31.42	103.30	7.22	9.20	8.03	10.9
2019/11/25	ME	DS5	13:07	T	1.2	126.0	0.72	24.65	31.10	105.60	7.36	4.81	8.03	3.5
2019/11/25	ME	DS5	13:08	B	11.5	1.8	0.34	24.27	31.57	101.00	7.06	20.49	8.03	18.1
2019/11/25	ME	DS5	13:09	M	6.4	118.6	0.50	24.38	31.40	102.70	7.17	9.70	8.03	11.4
2019/11/25	ME	DS5	13:10	T	1.2	45.3	0.59	24.61	31.12	104.80	7.30	4.91	8.03	3.6

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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)
2019/11/25	MF	DS1	16:23	B	8.6	270.0	0.29	24.41	30.96	103.41	7.24	13.70	8.05	8.9
2019/11/25	MF	DS1	16:25	M	5.3	9.2	0.95	24.40	30.98	103.69	7.26	25.68	8.05	10.8
2019/11/25	MF	DS1	16:27	T	1.0	253.0	1.00	24.44	30.95	104.57	7.32	18.69	8.06	14.2
2019/11/25	MF	DS1	16:28	B	8.7	9.0	0.52	24.42	30.97	103.47	7.24	25.98	8.05	9.2
2019/11/25	MF	DS1	16:29	M	5.6	310.0	0.98	24.40	30.98	103.76	7.26	17.39	8.05	11.6
2019/11/25	MF	DS1	16:30	T	1.2	0.9	0.63	24.54	30.86	106.34	7.43	13.10	8.06	14.6
2019/11/25	MF	DS2	16:37	B	9.0	280.5	0.55	24.44	30.95	104.19	7.29	13.80	8.06	10.3
2019/11/25	MF	DS2	16:39	M	5.5	239.7	0.77	24.46	30.92	104.58	7.32	10.20	8.06	9.3
2019/11/25	MF	DS2	16:40	T	0.9	298.8	1.47	24.57	30.82	107.26	7.49	5.10	8.07	4.9
2019/11/25	MF	DS2	16:40	B	9.5	346.7	0.78	24.44	30.96	103.07	7.21	15.00	8.06	10.4
2019/11/25	MF	DS2	16:41	M	5.4	350.6	0.88	24.45	30.93	104.65	7.32	10.30	8.06	8.9
2019/11/25	MF	DS2	16:42	T	1.4	335.7	1.05	24.52	30.86	105.74	7.39	6.80	8.06	4.6
2019/11/25	MF	DS3	16:48	B	8.2	323.9	0.65	24.50	30.87	104.40	7.30	15.19	8.06	7.2
2019/11/25	MF	DS3	16:49	M	5.1	282.6	0.83	24.50	30.87	105.19	7.36	9.80	8.06	10.1
2019/11/25	MF	DS3	16:50	T	1.1	280.7	0.46	24.54	30.81	106.57	7.45	6.40	8.06	13.4
2019/11/25	MF	DS3	16:51	B	8.3	291.6	0.88	24.49	30.88	104.28	7.29	15.19	8.05	7.0
2019/11/25	MF	DS3	16:52	M	5.1	104.5	0.28	24.50	30.87	104.77	7.33	11.00	8.05	10.6
2019/11/25	MF	DS3	16:53	T	1.1	327.8	1.07	24.53	30.84	105.85	7.40	7.00	8.05	14.3
2019/11/25	MF	DS4	16:58	B	8.0	300.8	0.82	24.47	30.92	103.72	7.25	21.19	8.05	15.1
2019/11/25	MF	DS4	16:59	M	5.2	293.8	0.86	24.47	30.91	104.21	7.29	16.69	8.05	16.2
2019/11/25	MF	DS4	17:00	T	0.9	266.6	0.63	24.48	30.88	105.59	7.39	9.90	8.05	10.1
2019/11/25	MF	DS4	17:01	B	7.8	289.9	0.70	24.45	30.94	103.70	7.25	21.19	8.04	15.5
2019/11/25	MF	DS4	17:02	M	5.2	296.2	1.18	24.46	30.92	104.19	7.29	14.10	8.04	16.4
2019/11/25	MF	DS4	17:03	T	1.1	3.0	1.20	24.48	30.89	105.17	7.36	8.70	8.05	10.2
2019/11/25	MF	DS5	17:08	B	8.1	287.5	0.41	24.45	30.97	103.04	7.21	22.29	8.05	18.5
2019/11/25	MF	DS5	17:09	M	4.9	276.8	0.85	24.48	30.92	104.82	7.33	13.40	8.05	13.6
2019/11/25	MF	DS5	17:10	T	1.3	313.2	1.73	24.50	30.88	106.00	7.41	8.10	8.04	7.7
2019/11/25	MF	DS5	17:11	B	7.8	291.2	0.83	24.47	30.95	103.61	7.25	18.99	8.04	18.8
2019/11/25	MF	DS5	17:12	M	4.6	342.8	0.71	24.48	30.91	104.90	7.34	12.70	8.04	14.2
2019/11/25	MF	DS5	17:13	T	1.2	329.7	0.73	24.49	30.90	105.78	7.40	7.90	8.04	8.1
2019/11/25	MF	US1	17:30	B	9.8	302.4	1.20	24.41	31.27	103.76	7.25	26.98	8.05	14.6
2019/11/25	MF	US1	17:31	M	5.7	303.5	0.38	24.43	31.19	105.04	7.34	17.79	8.05	13.7
2019/11/25	MF	US1	17:32	T	0.9	130.7	0.27	24.44	31.14	105.92	7.40	12.30	8.05	9.6
2019/11/25	MF	US1	17:37	B	10.4	306.7	0.64	24.42	31.42	102.02	7.12	25.58	8.03	13.9
2019/11/25	MF	US1	17:38	M	5.8	265.0	1.22	24.44	31.22	103.99	7.27	17.89	8.04	14.1
2019/11/25	MF	US1	17:39	T	0.9	308.7	0.98	24.44	31.19	105.17	7.35	15.49	8.04	9.4
2019/11/25	MF	US2	17:46	B	24.9	88.4	0.36	24.44	31.58	98.48	6.87	25.28	8.03	15.0
2019/11/25	MF	US2	17:47	M	13.9	3.2	0.42	24.44	31.67	98.97	6.90	18.49	8.01	13.5
2019/11/25	MF	US2	17:48	T	0.9	354.2	0.29	24.47	31.36	104.30	7.28	10.40	8.03	11.0
2019/11/25	MF	US2	17:50	B	24.5	237.4	0.45	24.45	31.73	96.77	6.74	24.29	8.00	14.2
2019/11/25	MF	US2	17:52	M	13.2	248.4	0.58	24.45	31.76	97.25	6.77	22.39	8.00	14.0
2019/11/25	MF	US2	17:54	T	0.8	342.7	0.47	24.47	31.40	100.89	7.04	14.80	8.02	11.5
2019/11/25	MF	MW1	19:05	B	18.9	177.6	1.01	24.60	32.78	89.91	6.21	8.80	7.96	6.4
2019/11/25	MF	MW1	19:06	M	10.2	143.2	0.39	24.59	32.78	90.68	6.26	8.10	7.95	7.6
2019/11/25	MF	MW1	19:07	T	1.3	353.6	0.53	24.58	32.77	89.20	6.16	7.30	7.95	7.0
2019/11/25	MF	MW1	19:09	B	18.7	120.6	0.42	24.60	32.79	89.58	6.19	9.30	7.95	6.4
2019/11/25	MF	MW1	19:10	M	10.3	64.9	0.72	24.59	32.77	89.08	6.15	8.80	7.95	8.0
2019/11/25	MF	MW1	19:11	T	1.2	89.1	0.31	24.58	32.78	89.57	6.19	7.50	7.95	7.2