

## 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)
2016/01/05	ME	MW1	0.354213	B	18.9	175.6	0.73	19.82	31.17	88.56	6.72	1.28	7.95	2.50
2016/01/05	ME	MW1	0.354688	M	10.5	17.4	0.22	19.83	30.73	88.65	6.75	1.58	7.95	3.80
2016/01/05	ME	MW1	0.355278	T	1	80.8	0.54	19.88	29.5	92.54	7.09	0.78	7.96	2.20
2016/01/05	ME	MW1	0.356123	B	19.1	90	0.04	19.82	31.17	88.34	6.71	1.18	7.95	5.40
2016/01/05	ME	MW1	0.356655	M	10.6	291	0.59	19.82	30.95	88.53	6.73	1.68	7.95	4.00
2016/01/05	ME	MW1	0.357199	T	1	44.2	0.44	19.9	29.13	92.62	7.1	0.88	7.96	2.40
2016/01/05	ME	US1	0.39522	B	9.9	158.6	0.33	19.77	30	91.12	6.97	3.17	7.93	4.90
2016/01/05	ME	US1	0.395891	M	6	101.9	0.2	19.81	29.24	91.21	7	1.38	7.94	3.20
2016/01/05	ME	US1	0.396412	T	1.1	270.1	0.87	19.87	28.3	93.79	7.23	1.68	7.94	2.90
2016/01/05	ME	US1	0.397072	B	9.9	76.6	0.52	19.77	29.8	89.81	6.88	4.27	7.93	4.90
2016/01/05	ME	US1	0.397604	M	6	49.6	0.18	19.81	29.26	91	6.99	1.08	7.93	3.10
2016/01/05	ME	US1	0.39816	T	1	236.4	0.94	19.88	28.26	93.67	7.23	1.58	7.94	2.80
2016/01/05	ME	US2	0.401412	B	9.1	45	0.1	19.75	29.43	91.45	7.02	1.48	7.94	1.00
2016/01/05	ME	US2	0.401991	M	5.4	230.4	0.6	19.86	28.59	92.84	7.15	1.08	7.93	1.00
2016/01/05	ME	US2	0.402523	T	1.1	207	1.17	19.94	27.68	95.81	7.41	1.98	7.94	4.40
2016/01/05	ME	US2	0.403067	B	9.1	166.7	0.54	19.81	29.19	92.73	7.12	1.08	7.93	1.00
2016/01/05	ME	US2	0.403588	M	5.7	346.9	0.32	19.89	28.49	92.92	7.16	0.98	7.93	1.00
2016/01/05	ME	US2	0.403947	T	1.4	342.8	0.88	19.95	27.67	95.3	7.37	1.98	7.94	4.30
2016/01/05	ME	DS1	0.4086	B	6.9	344.3	0.28	19.79	29.76	91.18	6.98	1.88	7.92	4.00
2016/01/05	ME	DS1	0.409155	M	4.5	39.7	0.32	19.81	29.37	90.78	6.97	1.48	7.92	3.70
2016/01/05	ME	DS1	0.409641	T	1.2	93.2	0.18	19.9	28.17	93.75	7.23	2.08	7.93	3.10
2016/01/05	ME	DS1	0.410081	B	7	217.2	0.81	19.78	29.88	90.97	6.96	1.98	7.92	4.10
2016/01/05	ME	DS1	0.410509	M	4.5	277.5	0.13	19.85	28.71	91.95	7.08	1.38	7.92	3.50
2016/01/05	ME	DS1	0.411019	T	1.3	159.5	0.47	19.9	28.13	94.33	7.28	2.28	7.93	3.20
2016/01/05	ME	DS2	0.414225	B	5.8	52.1	0.25	19.79	29.47	91.81	7.04	1.78	7.92	4.00
2016/01/05	ME	DS2	0.414653	M	4	17.9	0.18	19.85	28.51	91.51	7.05	1.58	7.92	2.50
2016/01/05	ME	DS2	0.415023	T	1.4	297.4	0.69	19.91	28.13	94.09	7.26	1.78	7.93	4.30
2016/01/05	ME	DS2	0.415637	B	6	76.1	0.3	19.8	29.42	91.21	7	1.68	7.92	4.20
2016/01/05	ME	DS2	0.415972	M	4	33.5	0.93	19.85	28.51	92.49	7.13	1.78	7.92	2.10
2016/01/05	ME	DS2	0.416273	T	1.2	200.7	0.28	19.9	28.15	93.78	7.24	1.68	7.93	4.30
2016/01/05	ME	DS3	0.419155	B	4.9	191.4	0.94	19.78	29.57	92.95	7.13	1.98	7.92	4.20
2016/01/05	ME	DS3	0.419479	M	3.5	253.4	0.12	19.77	29.38	91.17	7	1.48	7.93	2.10
2016/01/05	ME	DS3	0.419792	T	1.2	5.2	0.21	19.82	28.86	91.86	7.07	1.38	7.93	1.00
2016/01/05	ME	DS3	0.420162	B	4.9	203.3	0.21	19.78	29.57	90.96	6.98	1.48	7.92	4.10
2016/01/05	ME	DS3	0.420451	M	3.5	117.2	0.4	19.8	29.11	90.96	6.99	1.58	7.93	1.00
2016/01/05	ME	DS3	0.420775	T	1.1	23.1	0.22	19.89	28.3	92.93	7.17	1.48	7.94	1.00
2016/01/05	ME	DS4	0.424086	B	4	139.9	0.46	19.77	29.75	92.7	7.1	1.58	7.91	3.30
2016/01/05	ME	DS4	0.424491	M	2.9	156.3	0.44	19.79	29.27	91.11	7	1.58	7.92	3.70
2016/01/05	ME	DS4	0.425093	T	1	324.8	0.47	19.9	27.84	93.09	7.2	1.58	7.92	4.40
2016/01/05	ME	DS4	0.425903	B	4.1	322.5	0.33	19.77	29.69	90.01	6.9	1.68	7.92	3.30
2016/01/05	ME	DS4	0.426262	M	3.1	131.3	0.48	19.78	29.33	90.2	6.93	1.48	7.92	3.70
2016/01/05	ME	DS4	0.426759	T	1.1	73.4	1.11	19.88	28.18	93.07	7.18	1.78	7.92	4.30
2016/01/05	ME	DS5	0.429803	B	5	74.7	1.08	19.78	29.66	91.85	7.04	1.58	7.92	2.70
2016/01/05	ME	DS5	0.43015	M	3.5	215.1	0.42	19.88	28.12	92.24	7.12	1.68	7.92	4.00
2016/01/05	ME	DS5	0.430556	T	1.1	214.4	0.48	19.87	27.96	93.03	7.19	1.68	7.92	4.00
2016/01/05	ME	DS5	0.43103	B	4.9	107.6	0.5	19.78	29.84	89.56	6.86	2.18	7.91	2.50
2016/01/05	ME	DS5	0.431319	M	3.7	229.1	0.34	19.77	29.59	89.36	6.85	1.58	7.92	4.10
2016/01/05	ME	DS5	0.431667	T	1.2	90.6	0.36	19.9	27.7	92.52	7.16	1.68	7.92	3.90
2016/01/05	MF	DS1	0.583773	M	5.9	176.4	0.44	19.75	29.36	91.27	7.01	1.48	7.96	4.30
2016/01/05	MF	DS1	0.584294	T	1	191.4	1.52	20.04	27.59	96.37	7.44	0.88	7.97	2.40
2016/01/05	MF	DS2	0.587731	B	9	317.5	1.44	19.75	29.78	90.17	6.91	1.68	7.95	3.80
2016/01/05	MF	DS2	0.588102	M	5.5	116.2	0.68	19.79	29.25	91.17	7	1.68	7.95	2.30
2016/01/05	MF	DS2	0.588495	T	1.2	258.5	0.56	20.04	27.57	95.46	7.37	0.98	7.95	4.20
2016/01/05	MF	DS2	0.589167	B	9.1	330.2	0.26	19.75	29.61	91.86	7.05	1.48	7.95	3.80
2016/01/05	MF	DS2	0.589676	M	5.5	33	0.73	19.8	29.2	91.66	7.04	1.38	7.95	2.10
2016/01/05	MF	DS2	0.59015	T	0.8	270.7	0.88	20.04	27.59	96.56	7.45	0.78	7.95	4.00
2016/01/05	MF	DS3	0.593067	B	10.2	97.5	0.12	19.75	29.95	90.56	6.93	2.58	7.94	6.50
2016/01/05	MF	DS3	0.593634	M	5.5	337.8	0.47	19.78	29.31	91.46	7.02	1.78	7.96	4.20

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2016/01/05	MF	DS3	0.594178	T	1.2	242.5	0.87	20.03	27.69	96.25	7.43	0.68	7.95	2.00
2016/01/05	MF	DS3	0.594734	B	9.9	174.7	0.13	19.79	29.66	91.55	7.02	2.48	7.95	6.70
2016/01/05	MF	DS3	0.595185	M	6	239.1	0.56	19.92	28.42	92.95	7.16	1.08	7.95	4.30
2016/01/05	MF	DS3	0.595752	T	1.1	0	0.18	20.04	27.65	96.75	7.47	0.78	7.95	2.10
2016/01/05	MF	DS4	0.599132	B	12.1	275.1	0.56	19.93	30.02	90.55	6.91	2.87	7.93	4.40
2016/01/05	MF	DS4	0.599722	M	7	292.4	1.03	20.14	29.76	91.54	6.97	2.08	7.93	2.80
2016/01/05	MF	DS4	0.600266	T	1.2	291.1	0.49	20.04	27.63	96.04	7.41	0.88	7.94	3.20
2016/01/05	MF	DS4	0.600914	B	12.1	275.7	0.32	19.94	30	93.74	7.15	2.28	7.93	4.50
2016/01/05	MF	DS4	0.601319	M	6.9	173.5	0.12	20.29	29.57	92.24	7.01	1.68	7.93	2.90
2016/01/05	MF	DS4	0.601898	T	1	301.6	0.43	20.04	27.68	96.14	7.42	0.88	7.94	3.10
2016/01/05	MF	DS5	0.605116	B	12.2	307.2	0.35	19.95	30.12	91.23	6.95	1.98	7.93	3.40
2016/01/05	MF	DS5	0.605683	M	7.2	12	0.75	19.98	29.65	91.43	6.98	1.48	7.94	4.10
2016/01/05	MF	DS5	0.60625	T	1.1	281.6	0.64	20.05	27.52	96.43	7.45	0.88	7.94	3.20
2016/01/05	MF	DS5	0.606817	B	12.1	302.9	0.75	19.97	30.05	91.23	6.95	1.98	7.92	3.50
2016/01/05	MF	DS5	0.607257	M	6.9	257.1	0.85	20.19	29.27	92.33	7.04	1.48	7.93	4.10
2016/01/05	MF	DS5	0.607755	T	1.1	65.4	0.08	20.05	27.54	94.93	7.33	1.08	7.94	3.30
2016/01/05	MF	US1	0.617419	B	8	111.3	0.68	19.79	29.58	92.91	7.12	1.98	7.92	4.90
2016/01/05	MF	US1	0.617928	M	5.2	339.5	0.18	19.79	29.15	92.51	7.11	1.08	7.93	1.00
2016/01/05	MF	US1	0.618333	T	0.9	312.4	1.47	20.06	27.59	92.11	7.11	1.08	7.94	2.20
2016/01/05	MF	US1	0.618866	B	8.2	306.8	1.05	19.78	29.75	91.81	7.03	2.58	7.92	5.10
2016/01/05	MF	US1	0.619201	M	5.2	333	1.29	19.78	29.28	91.61	7.04	1.38	7.93	1.00
2016/01/05	MF	US1	0.619537	T	0.9	260.9	0.98	20.06	27.58	96.2	7.43	0.98	7.94	2.00
2016/01/05	MF	US2	0.622454	B	7	299.7	0.3	19.8	29.71	92.4	7.08	2.87	7.91	6.20
2016/01/05	MF	US2	0.623032	M	4.5	316.7	0.54	19.83	29.07	92.2	7.08	1.18	7.92	3.30
2016/01/05	MF	US2	0.623403	T	1	208.2	0.36	20.04	27.69	96.6	7.45	1.18	7.94	2.90
2016/01/05	MF	US2	0.623958	B	6.8	172.9	0.26	19.8	29.7	91.8	7.03	2.48	7.91	3.30
2016/01/05	MF	US2	0.624456	M	4.5	126.7	0.28	19.85	28.79	92.4	7.11	1.28	7.92	3.50
2016/01/05	MF	US2	0.624896	T	1	320.7	0.41	20.05	27.66	97.49	7.52	1.28	7.94	2.90
2016/01/05	MF	MW1	0.661528	B	19.1	163.1	0.37	19.83	31.26	88.84	6.74	1.38	7.89	3.40
2016/01/05	MF	MW1	0.662176	M	10.6	135.1	0.63	19.87	30.64	90.13	6.86	1.08	7.89	1.00
2016/01/05	MF	MW1	0.662859	T	1.1	97	1.01	20	29.46	94.82	7.25	0.48	7.9	2.60
2016/01/05	MF	MW1	0.663681	B	19.1	273.8	0.84	19.83	31.28	88.53	6.71	1.88	7.88	3.20
2016/01/05	MF	MW1	0.664352	M	10.8	299.3	0.43	19.85	31.04	88.93	6.75	1.08	7.88	2.00
2016/01/05	MF	MW1	0.665023	T	1	288.5	0.43	19.94	29.82	93.12	7.11	0.68	7.89	2.50