

## 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)
2017/08/07	ME	MW1	11:44	B	19.1	54.5	0.57	26.8	28.65	56.05	3.82	6.35	7.54	9.50
2017/08/07	ME	MW1	11:46	M	10.5	163.7	0.28	28.48	23.2	69.43	4.74	2.84	7.73	4.30
2017/08/07	ME	MW1	11:47	T	0.8	146.5	0.48	29.89	19.64	84.51	5.75	2.84	7.8	13.90
2017/08/07	ME	MW1	11:48	B	19	123.2	0.84	26.77	28.75	53.74	3.66	11.75	7.76	8.90
2017/08/07	ME	MW1	11:50	M	10.6	108.7	0.47	28.53	23.08	69.62	4.75	3.14	7.81	4.30
2017/08/07	ME	MW1	11:51	T	1.4	114.7	0.17	29.82	19.28	85.99	5.86	2.94	7.86	14.30
2017/08/07	ME	US2	14:12	B	6.2	159.1	0.68	28.43	23.16	56.32	3.85	28.67	7.91	19.50
2017/08/07	ME	US2	14:13	M	3.8	163.7	0.81	29.15	19.09	63.97	4.42	6.75	7.93	19.50
2017/08/07	ME	US2	14:14	T	1	156.5	0.89	30.47	15.78	80.46	5.53	5.25	7.97	5.90
2017/08/07	ME	US2	14:17	B	6	138.6	0.43	28.47	23.07	62.17	4.25	26.07	7.89	20.30
2017/08/07	ME	US2	14:18	M	3.4	144.8	0.87	29.26	19.73	64.45	4.43	8.15	7.92	20.50
2017/08/07	ME	US2	14:18	T	1.2	150.2	0.84	30.51	15.72	85.51	5.88	5.35	7.97	6.20
2017/08/07	ME	US1	14:39	B	11.1	96.9	0.54	28.54	22.74	61.13	4.18	29.97	7.86	24.20
2017/08/07	ME	US1	14:40	M	6.5	146.5	0.67	28.89	21.08	62.22	4.27	21.26	7.87	21.80
2017/08/07	ME	US1	14:41	T	0.7	142.5	0.97	30.59	15.2	86.03	5.92	6.95	7.95	5.80
2017/08/07	ME	US1	14:42	B	11.1	84.6	0.28	28.54	22.69	58.94	4.03	29.07	7.85	23.40
2017/08/07	ME	US1	14:42	M	6.8	136.8	0.43	28.8	21.55	61.12	4.19	17.26	7.86	21.80
2017/08/07	ME	US1	14:43	T	1.3	146.2	0.84	30.61	15.33	84.14	5.79	6.65	7.93	6.20
2017/08/07	ME	DS1	14:48	B	6.7	131	0.69	28.71	22.03	66.56	4.55	13.45	7.86	4.70
2017/08/07	ME	DS1	14:49	M	5.4	136.6	0.73	29.23	19.79	66.76	4.58	8.15	7.88	6.00
2017/08/07	ME	DS1	14:49	T	1.4	134.7	1.04	30.49	15.52	82.33	5.67	5.95	7.93	6.00
2017/08/07	ME	DS1	14:50	B	7.4	123.2	0.66	28.7	22.06	64.18	4.39	14.05	7.83	4.90
2017/08/07	ME	DS1	14:51	M	4.2	147.9	0.95	29.28	19.01	65.96	4.55	7.25	7.86	6.00
2017/08/07	ME	DS1	14:51	T	1.5	143.8	0.95	30.19	16.25	81.73	5.63	5.15	7.89	6.00
2017/08/07	ME	DS2	14:58	B	8.7	122.9	0.58	28.53	22.72	61.18	4.18	19.76	7.85	18.60
2017/08/07	ME	DS2	14:59	M	5.2	115	0.65	28.75	21.7	60.68	4.16	13.85	7.84	15.30
2017/08/07	ME	DS2	15:00	T	0.9	123.5	1.05	30.81	15.36	86.16	5.91	6.25	7.92	6.90
2017/08/07	ME	DS2	15:01	B	7.9	106.1	0.48	28.57	22.45	60.48	4.14	23.36	7.83	18.50
2017/08/07	ME	DS2	15:01	M	5.2	121.6	0.73	28.73	21.79	60.08	4.11	13.85	7.83	16.10
2017/08/07	ME	DS2	15:02	T	1.4	126.3	1.14	30.91	15.3	84.47	5.78	6.85	7.91	6.90
2017/08/07	ME	DS3	15:07	B	6.5	91.8	0.6	28.69	22.01	64.83	4.44	16.06	7.85	15.10
2017/08/07	ME	DS3	15:08	M	3.9	108.7	0.78	28.8	21.55	61.26	4.2	13.05	7.84	6.30
2017/08/07	ME	DS3	15:08	T	1.6	124.5	1.19	30.77	15.79	85.84	5.87	6.55	7.9	19.70
2017/08/07	ME	DS3	15:09	B	6.1	107	0.84	28.8	21.72	65.12	4.46	14.75	7.82	14.50
2017/08/07	ME	DS3	15:10	M	4	116.9	0.86	28.81	21.65	63.63	4.36	12.15	7.81	6.30
2017/08/07	ME	DS3	15:11	T	1.1	122.3	1.28	30.81	15.52	84.84	5.81	6.65	7.89	16.80
2017/08/07	ME	DS4	15:17	B	14	187.3	0.17	27.1	27.78	50.73	3.45	12.75	7.82	16.80
2017/08/07	ME	DS4	15:17	M	7.7	97.2	0.55	28.71	21.7	57.77	3.96	15.56	7.86	20.40
2017/08/07	ME	DS4	15:18	T	0.6	112.1	1.02	30.61	16.23	78.38	5.36	8.15	7.89	7.70
2017/08/07	ME	DS4	15:19	B	14.3	60.1	0.06	27.16	27.73	53.21	3.62	12.55	7.79	16.10
2017/08/07	ME	DS4	15:19	M	8.2	129.8	0.47	28.66	22.01	58.36	4	16.46	7.84	20.00
2017/08/07	ME	DS4	15:20	T	1.1	119.3	0.93	30.93	15.35	84.71	5.8	7.75	7.9	7.90
2017/08/07	ME	DS5	15:28	B	7	88	0.48	28.95	20.9	61.51	4.22	32.17	7.8	22.40
2017/08/07	ME	DS5	15:28	M	4.6	98	0.55	28.97	20.88	61.31	4.2	27.57	7.8	25.30
2017/08/07	MF	DS1	18:48	B	7	268.6	0.08	28.65	22	61.54	4.22	14.85	7.69	18.30
2017/08/07	MF	DS1	18:49	M	4.3	308.8	0.41	28.94	20.74	58.84	4.04	15.26	7.69	21.40
2017/08/07	MF	DS1	18:50	T	1.1	309.4	0.07	30.49	14.85	80.12	5.54	10.75	7.74	9.60
2017/08/07	MF	DS1	18:50	B	7.1	287.4	0.13	28.64	22.05	57.24	3.92	15.16	7.66	18.10
2017/08/07	MF	DS1	18:51	M	4.5	325.2	0.5	28.91	20.9	58.64	4.02	15.46	7.68	19.80
2017/08/07	MF	DS1	18:52	T	1.1	332.7	0.17	30.42	15.51	79.21	5.46	10.45	7.72	9.50
2017/08/07	MF	DS2	18:57	B	5.9	334.8	0.39	29.28	19.56	65.02	4.47	15.36	7.67	18.30
2017/08/07	MF	DS2	18:58	M	4	341.7	0.25	29.82	17.56	65.52	4.51	14.55	7.68	14.00
2017/08/07	MF	DS2	18:58	T	0.9	197.6	0.15	30.72	13.6	85.3	5.91	8.05	7.74	8.90
2017/08/07	MF	DS2	18:59	B	6	325.3	0.27	29.2	19.84	62.02	4.26	19.66	7.65	18.50
2017/08/07	MF	DS2	19:00	M	3.9	324.9	0.4	29.78	17.65	66.22	4.56	14.45	7.67	14.10
2017/08/07	MF	DS2	19:00	T	1.1	216.4	0.16	30.58	14.86	79.4	5.48	9.45	7.71	8.70
2017/08/07	MF	DS3	19:07	B	5.8	2.4	0.15	29.38	18.94	60.22	4.14	25.27	7.63	20.20
2017/08/07	MF	DS3	19:08	M	4	335.5	0.28	30.25	16.1	70.2	4.84	11.05	7.66	9.50

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vd

2017/08/07	MF	DS3	19:08	T	0.9	186.3	0.12	30.77	12.91	85.58	5.95	9.15	7.73	9.50
2017/08/07	MF	DS3	19:09	B	6.1	14.4	0.46	29.39	19.01	62.61	4.31	22.56	7.63	20.10
2017/08/07	MF	DS3	19:10	M	4.1	338.2	0.23	29.71	17.86	63.41	4.37	13.65	7.64	9.60
2017/08/07	MF	DS3	19:10	T	1	116.6	0.14	30.81	13.11	83.98	5.83	8.95	7.71	9.50
2017/08/07	MF	DS4	19:15	B	6.2	356.8	0.23	29.07	19.42	63.2	4.36	14.15	7.64	17.80
2017/08/07	MF	DS4	19:16	M	4.1	289.6	0.11	29.84	17.52	65.2	4.49	11.35	7.64	12.80
2017/08/07	MF	DS4	19:16	T	0.9	199.5	0.07	30.78	12.98	81.87	5.69	9.05	7.72	9.20
2017/08/07	MF	DS4	19:17	B	6	13.9	0.15	29.1	19.34	60.4	4.17	14.95	7.62	17.60
2017/08/07	MF	DS4	19:17	M	3.9	131.3	0.06	29.85	16.84	61.7	4.26	11.85	7.64	12.80
2017/08/07	MF	DS4	19:18	T	1.1	177.1	0.02	30.8	13.09	81.77	5.68	8.95	7.71	9.20
2017/08/07	MF	DS5	19:22	B	6.1	70.8	0.27	29.03	19.29	57.4	3.97	13.95	7.63	15.80
2017/08/07	MF	DS5	19:23	M	3.9	2	0.12	29.59	17.28	59.6	4.13	13.95	7.63	15.00
2017/08/07	MF	DS5	19:24	T	1.1	238	0.04	30.68	12.78	83.46	5.81	9.05	7.71	10.30
2017/08/07	MF	DS5	19:25	B	6.1	103.5	0.42	29.08	19.15	55.8	3.86	13.45	7.61	17.00
2017/08/07	MF	DS5	19:25	M	4	214.3	0.15	29.8	16.88	61.59	4.26	12.25	7.62	14.70
2017/08/07	MF	DS5	19:26	T	1.2	24.1	0.09	30.74	12.76	84.65	5.89	8.85	7.7	10.20
2017/08/07	MF	US1	19:47	B	7.8	263.9	0.59	28.6	22.27	62.76	4.3	12.35	7.73	17.10
2017/08/07	MF	US1	19:47	M	5.1	307.3	0.62	29.68	18.38	69.45	4.77	7.85	7.76	6.70
2017/08/07	MF	US1	19:48	T	1.2	318.9	0.63	30.46	14.9	84.71	5.86	6.35	7.78	6.60
2017/08/07	MF	US1	19:48	B	7.8	282.4	0.68	28.68	22.1	63.06	4.32	11.95	7.69	16.50
2017/08/07	MF	US1	19:49	M	5.2	302.6	0.46	30.11	16.67	74.53	5.13	7.15	7.75	6.30
2017/08/07	MF	US1	19:50	T	0.9	351.1	0.53	30.47	14.72	85.81	5.94	6.25	7.77	6.70
2017/08/07	MF	US2	19:54	B	7.6	267.1	0.44	28.66	22.41	66.05	4.51	8.75	7.7	10.60
2017/08/07	MF	US2	19:54	M	5.1	264.8	0.8	29.72	18.69	73.83	5.06	6.65	7.75	7.50
2017/08/07	MF	US2	19:55	T	1	297.8	0.42	30.44	15.44	86.5	5.96	5.85	7.77	7.30
2017/08/07	MF	US2	19:56	B	8.2	287.4	0.48	28.36	23.44	61.95	4.23	11.05	7.69	10.70
2017/08/07	MF	US2	19:56	M	5.1	278.6	0.72	29.7	18.76	72.43	4.96	6.95	7.74	7.50
2017/08/07	MF	US2	19:57	T	1	4.3	0.32	30.47	15.45	86.49	5.96	5.95	7.77	7.00
2017/07/31	MF	MW1	20:51	B	19.1	356	0.3	26.31	30.04	52.32	3.56	9.65	7.79	9.80
2017/07/31	MF	MW1	20:51	M	10.7	138.6	0.1	26.56	29.38	53.01	3.61	7.85	7.79	8.70
2017/07/31	MF	MW1	20:52	T	0.9	259.6	0.18	28.19	24.51	66.27	4.51	5.04	7.81	6.00
2017/07/31	MF	MW1	20:53	B	19.1	155.9	0.1	26.36	29.93	51.72	3.52	9.15	7.77	10.00
2017/07/31	MF	MW1	20:54	M	10.4	13.6	0.1	26.99	28.01	54.01	3.68	7.35	7.77	8.80
2017/07/31	MF	MW1	20:55	T	1.1	228.8	0.06	28.14	24.68	66.16	4.5	5.15	7.79	6.10