

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)
2016/12/16	MF	MW1	08:25	B	19	87.1	0.08	21.87	30.26	94.58	6.95	13.12	7.98	13.80
2016/12/16	MF	MW1	08:26	M	10.5	44.6	0.44	21.85	30.2	94.29	6.94	12.53	8.02	15.40
2016/12/16	MF	MW1	08:27	T	1.2	183	0.56	21.82	30.19	95.1	7	10.23	8.03	9.20
2016/12/16	MF	MW1	08:28	B	19.1	29.9	0.16	21.87	30.25	93.41	6.87	17.81	8.03	13.40
2016/12/16	MF	MW1	08:29	M	10.5	14.8	1.08	21.84	30.22	94.01	6.92	10.33	8.04	15.60
2016/12/16	MF	MW1	08:29	T	1.1	353.5	0.37	21.8	30.2	95.03	7	5.64	8.03	9.00
2016/12/16	MF	US2	09:40	B	7.1	319	0.42	21.36	29.85	98.84	7.35	12.73	8.08	14.40
2016/12/16	MF	US2	09:40	M	4.3	206.8	0.65	21.37	29.85	97.74	7.27	13.42	8.07	13.70
2016/12/16	MF	US2	09:41	T	1.5	261	1.25	21.34	29.85	97.95	7.29	12.13	8.07	14.80
2016/12/16	MF	US2	09:42	B	7.3	301.3	0.6	21.3	29.87	97.35	7.25	15.02	8.07	13.60
2016/12/16	MF	US2	09:42	M	4.2	323.7	0.65	21.33	29.86	97.55	7.26	11.03	8.06	14.10
2016/12/16	MF	US2	09:43	T	1.1	224	0.61	21.33	29.86	97.86	7.28	9.83	8.06	15.30
2016/12/16	MF	US1	09:46	B	8	286.5	0.49	21.25	29.86	98.61	7.35	11.63	8.06	11.10
2016/12/16	MF	US1	09:47	M	5	340.1	0.53	21.26	29.86	98.01	7.3	10.53	8.06	10.60
2016/12/16	MF	US1	09:48	T	1.1	323.5	0.47	21.24	29.87	98.42	7.33	8.53	8.06	9.00
2016/12/16	MF	US1	09:50	B	8	350.8	0.83	21.3	29.85	98.85	7.36	11.93	8.06	11.80
2016/12/16	MF	US1	09:51	M	4.8	293	0.81	21.33	29.85	97.94	7.29	10.03	8.06	10.10
2016/12/16	MF	US1	09:52	T	1.1	167.8	0.67	21.36	29.84	98.25	7.31	8.23	8.05	8.80
2016/12/16	MF	DS1	09:57	B	7.9	294.6	1.31	21.28	29.81	98.81	7.36	13.02	8.06	15.90
2016/12/16	MF	DS1	09:57	M	4.9	326.3	0.72	21.29	29.81	98.01	7.3	16.22	8.05	10.60
2016/12/16	MF	DS1	09:58	T	1.1	305.4	0.95	21.38	29.71	98.02	7.29	8.93	8.04	13.00
2016/12/16	MF	DS1	09:59	B	8.2	349	0.27	21.26	29.83	97.62	7.27	17.81	8.05	15.70
2016/12/16	MF	DS1	09:59	M	4.9	355.9	0.46	21.26	29.82	97.93	7.3	13.02	8.05	11.00
2016/12/16	MF	DS1	10:00	T	1.2	283.3	1.02	21.35	29.75	98.14	7.3	9.43	8.05	12.20
2016/12/16	MF	DS2	10:06	B	7.6	107.9	0.11	21.28	29.78	97.89	7.29	23.3	8.05	21.90
2016/12/16	MF	DS2	10:07	M	5	247.7	0.72	21.29	29.78	97.9	7.29	17.12	8.05	17.20
2016/12/16	MF	DS2	10:07	T	0.9	257.4	0.73	21.36	29.65	98.51	7.34	8.53	8.04	9.00
2016/12/16	MF	DS2	10:10	B	7.6	285.8	0.14	21.27	29.79	98.94	7.37	20.51	8.06	22.30
2016/12/16	MF	DS2	10:10	M	5.1	266.1	0.43	21.29	29.79	98.14	7.31	13.72	8.05	17.50
2016/12/16	MF	DS2	10:11	T	1.2	265.2	0.43	21.31	29.77	98.45	7.33	10.73	8.05	9.20
2016/12/16	MF	DS3	10:15	B	8	330.6	0.6	21.21	29.82	98.18	7.32	19.31	8.05	17.40
2016/12/16	MF	DS3	10:15	M	5	327	0.15	21.24	29.79	98.29	7.33	10.43	8.05	10.30
2016/12/16	MF	DS3	10:16	T	1.1	11.6	0.9	21.3	29.72	98.8	7.36	6.34	8.04	6.60
2016/12/16	MF	DS3	10:16	B	7.6	323.9	0.35	21.21	29.82	98.1	7.32	25.3	8.05	18.10
2016/12/16	MF	DS3	10:17	M	4.9	220.5	0.31	21.22	29.82	98.31	7.33	10.73	8.05	10.00
2016/12/16	MF	DS3	10:17	T	1.1	150.7	0.08	21.27	29.76	98.82	7.37	7.24	8.05	6.80
2016/12/16	MF	DS4	10:27	B	7.8	320.5	1.4	21.35	29.73	100.84	7.51	29.19	8.06	15.50
2016/12/16	MF	DS4	10:27	M	5.1	287.4	0.6	21.35	29.73	100.24	7.46	11.83	8.06	17.80
2016/12/16	MF	DS4	10:28	T	1	349.7	1.1	21.35	29.73	100.96	7.51	7.24	8.06	11.00
2016/12/16	MF	DS4	10:29	B	7.7	322.7	0.79	21.35	29.74	99.85	7.43	37.68	8.06	15.60
2016/12/16	MF	DS4	10:29	M	4.8	317.6	0.44	21.34	29.74	100.26	7.46	12.13	8.06	17.90
2016/12/16	MF	DS4	10:30	T	1.2	313.2	0.85	21.34	29.73	100.98	7.52	7.24	8.06	11.20
2016/12/16	MF	DS5	10:34	B	8	327.9	1.25	21.33	29.69	100.82	7.51	17.12	8.06	13.90
2016/12/16	MF	DS5	10:35	M	4.9	341.4	0.74	21.34	29.68	100.42	7.48	12.63	8.06	10.80
2016/12/16	MF	DS5	10:36	T	02:24	09:36	12:14	08:38	13:55	07:40	11:16	07:55	00:57	9.90
2016/12/16	MF	DS5	10:37	B	16:48	16:48	13:40	07:55	16:33	22:19	10:33	12:14	01:12	13.70
2016/12/16	MF	DS5	10:38	M	00:00	00:00	15:21	08:38	14:52	17:45	10:19	17:31	00:57	10.30
2016/12/16	MF	DS5	10:38	T	00:00	02:24	21:36	09:07	11:31	03:07	09:21	15:07	00:43	10.30
2016/12/16	ME	US2	13:29	B	8.3	89.7	0.42	21.32	29.89	101.45	7.55	5.34	8.02	5.00
2016/12/16	ME	US2	13:30	M	5	76.2	0.36	21.35	29.78	100.95	7.51	5.24	8.02	5.40
2016/12/16	ME	US2	13:31	T	1.1	226.7	1.03	21.33	29.73	101.25	7.54	5.24	8.01	6.90
2016/12/16	ME	US2	13:32	B	8.2	276.6	0.74	21.31	29.9	99.75	7.42	5.04	8.02	4.80
2016/12/16	ME	US2	13:32	M	5.1	67.8	0.25	21.34	29.78	100.55	7.48	6.24	8.02	5.40
2016/12/16	ME	US2	13:33	T	1.1	106.1	0.91	21.32	29.73	101.05	7.53	5.94	8.01	7.00
2016/12/16	ME	US1	13:38	B	9.2	138.7	0.52	21.36	29.89	99.46	7.39	4.94	8.03	6.10
2016/12/16	ME	US1	13:38	M	5.6	75.2	0.67	21.42	29.89	100.56	7.47	4.74	8.03	4.90
2016/12/16	ME	US1	13:39	T	1.2	38.7	0.25	21.47	29.89	101.86	7.56	4.04	8.03	4.00
2016/12/16	ME	US1	13:40	B	9.1	221	0.28	21.36	29.89	99.16	7.37	6.04	8.02	6.00

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2016/12/16	ME	US1	13:41	M	5.4	170.3	0.38	21.42	29.89	100.76	7.48	4.14	8.03	4.90
2016/12/16	ME	US1	13:41	T	1.2	57.5	0.42	21.43	29.89	102.06	7.58	3.94	8.04	3.90
2016/12/16	ME	DS1	13:46	B	8	187.2	0.22	21.64	30	97.67	7.22	20.61	8.01	15.00
2016/12/16	ME	DS1	13:47	M	5.1	116.7	0.45	21.63	30.01	97.67	7.22	6.94	8	10.70
2016/12/16	ME	DS1	13:48	T	1.3	163.1	0.55	21.54	29.91	100.17	7.42	3.74	8.02	4.10
2016/12/16	ME	DS1	13:49	B	8.1	65.8	0.67	21.62	29.99	97.17	7.19	19.31	8	14.80
2016/12/16	ME	DS1	13:50	M	5	87.1	0.26	21.61	29.99	97.47	7.21	16.92	8	11.00
2016/12/16	ME	DS1	13:50	T	1	104.3	0.74	21.55	29.89	100.47	7.44	5.04	8.03	4.00
2016/12/16	ME	DS2	13:56	B	7.8	182.5	0.26	21.7	30.03	98.58	7.28	3.94	8.01	5.30
2016/12/16	ME	DS2	13:56	M	5.1	12.5	0.11	21.63	29.92	98.38	7.28	3.74	8.02	4.50
2016/12/16	ME	DS2	13:57	T	1.2	143.1	0.4	21.66	29.91	102.78	7.6	3.34	8.03	4.00
2016/12/16	ME	DS2	13:58	B	7.9	113.7	0.73	21.69	30.03	97.28	7.18	4.24	8	5.40
2016/12/16	ME	DS2	13:59	M	5.1	13.6	0.94	21.67	30.01	97.68	7.22	3.94	8	4.40
2016/12/16	ME	DS2	13:59	T	1.1	61.7	0.86	21.69	29.92	101.69	7.51	3.34	8.03	3.80
2016/12/16	ME	DS3	14:04	B	7.1	123.3	0.73	21.62	29.96	99.69	7.37	10.73	8.02	9.70
2016/12/16	ME	DS3	14:05	M	4.5	104.4	0.23	21.57	29.94	99.29	7.35	5.94	8.02	5.40
2016/12/16	ME	DS3	14:06	T	1.2	85.5	0.82	21.62	29.89	102	7.55	3.94	8.04	5.30
2016/12/16	ME	DS3	14:06	B	7.1	136.2	0.97	21.61	29.96	98.79	7.31	11.83	8.01	9.60
2016/12/16	ME	DS3	14:07	M	4.6	84	0.96	21.58	29.93	98.89	7.32	6.64	8.02	5.20
2016/12/16	ME	DS3	14:08	T	0.9	114.7	0.7	21.63	29.9	102.3	7.57	3.74	8.03	5.50
2016/12/16	ME	DS4	14:12	B	22	104.9	0.58	21.95	30.42	94.3	6.92	4.54	7.99	11.10
2016/12/16	ME	DS4	14:13	M	12.1	51.8	0.14	21.71	30.06	94.8	7	5.74	8.01	8.20
2016/12/16	ME	DS4	14:14	T	1.2	102	0.45	21.79	29.96	102.31	7.54	4.04	8.04	3.70
2016/12/16	ME	DS4	14:15	B	22.1	53.8	0.24	21.95	30.41	94.3	6.92	4.34	7.99	10.90
2016/12/16	ME	DS4	14:16	M	12.2	106.2	0.85	21.79	30.15	94.9	6.99	6.24	8	8.20
2016/12/16	ME	DS4	14:17	T	1	85.9	0.98	21.76	29.91	101.61	7.5	3.84	8.04	3.60
2016/12/16	ME	DS5	14:22	B	6.9	141.3	0.94	21.93	30.36	96.71	7.1	6.84	8	7.20
2016/12/16	ME	DS5	14:23	M	4.7	42.6	0.73	21.84	30.21	96.21	7.08	5.44	8	7.10
2016/12/16	ME	DS5	14:23	T	1.1	13.3	0.51	21.63	29.96	101.12	7.48	4.34	8.03	4.20
2016/12/16	ME	DS5	14:25	B	7	95.3	0.73	21.92	30.34	95.51	7.01	6.24	7.99	7.30
2016/12/16	ME	DS5	14:25	M	4.7	169.1	0.25	21.68	30.06	97.52	7.2	5.74	8.01	7.00
2016/12/16	ME	DS5	14:26	T	1.2	57.6	1.2	21.67	29.98	101.12	7.47	5.04	8.03	4.30