

## Appendix D Water Quality Monitoring Data

Contract No. EP/SP/66/12  
 Integrated Waste Management Facilities, Phase 1  
 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C1	20190102	Fine	Moderate	Mid-Ebb	B	10	8:28	8.93	8.16	30.16	20.4	7.34	9	114	0.25	E
C1	20190102	Fine	Moderate	Mid-Ebb	B	10	8:28	8.98	8.15	30.27	20.5	7.26	8	113	0.25	E
C1	20190102	Fine	Moderate	Mid-Ebb	M	5.5	8:29	8.94	8.08	29.76	20.5	5.16	8	115	0.44	E
C1	20190102	Fine	Moderate	Mid-Ebb	M	5.5	8:29	8.98	8.1	30.2	20.4	5.19	6	114	0.46	E
C1	20190102	Fine	Moderate	Mid-Ebb	S	1	8:30	9.04	8.16	29.65	20.5	3.31	8	114	0.6	E
C1	20190102	Fine	Moderate	Mid-Ebb	S	1	8:31	9.07	8.15	30.39	20.5	3.33	9	114	0.62	E
F1	20190102	Fine	Moderate	Mid-Ebb	B	7.3	8:33	9	8.07	30.39	20.4	7.11	15	114	0.22	SE
F1	20190102	Fine	Moderate	Mid-Ebb	B	7.3	8:34	8.99	8.08	30.03	20.5	7.2	14	113	0.22	SE
F1	20190102	Fine	Moderate	Mid-Ebb	M	4.2	8:34	8.91	8.05	29.58	20.4	5.44	16	113	0.37	SE
F1	20190102	Fine	Moderate	Mid-Ebb	M	4.2	8:35	8.94	8.01	30.32	20.5	5.49	14	114	0.39	SE
F1	20190102	Fine	Moderate	Mid-Ebb	S	1	8:36	9.02	8	30.47	20.4	3.02	17	114	0.58	SE
F1	20190102	Fine	Moderate	Mid-Ebb	S	1	8:36	9.02	8.02	29.89	20.4	3.05	17	114	0.56	SE
B1	20190102	Fine	Moderate	Mid-Ebb	B	4.3	8:51	8.79	8.07	30.31	20.4	6.91	7	113	0.23	NE
B1	20190102	Fine	Moderate	Mid-Ebb	B	4.3	8:52	8.88	8.19	30.16	20.4	6.93	6	114	0.23	NE
B1	20190102	Fine	Moderate	Mid-Ebb	S	1	8:52	8.79	8.04	30.11	20.4	2.98	8	113	0.59	NE
B1	20190102	Fine	Moderate	Mid-Ebb	S	1	8:53	8.7	8.03	30.02	20.4	2.96	8	114	0.57	NE
S1	20190102	Fine	Moderate	Mid-Ebb	B	4.4	9:02	9.06	8.11	29.57	20.5	6.61	7	113	0.15	E
S1	20190102	Fine	Moderate	Mid-Ebb	B	4.4	9:03	8.99	8.18	29.96	20.5	6.52	8	114	0.14	E
S1	20190102	Fine	Moderate	Mid-Ebb	S	1	9:04	8.95	8.14	29.9	20.5	2.5	9	114	0.63	E
S1	20190102	Fine	Moderate	Mid-Ebb	S	1	9:04	9.03	8.13	30.3	20.5	2.41	8	114	0.65	E
B2	20190102	Fine	Moderate	Mid-Ebb	B	4.2	9:12	9.38	8.19	29.71	20.5	6.84	9	114	0.17	SE
B2	20190102	Fine	Moderate	Mid-Ebb	B	4.2	9:12	9.37	8.02	30.2	20.4	6.93	10	114	0.16	SE
B2	20190102	Fine	Moderate	Mid-Ebb	S	1	9:13	9.29	8.07	30.38	20.4	3.43	6	114	0.6	SE
B2	20190102	Fine	Moderate	Mid-Ebb	S	1	9:14	9.22	8.19	30.41	20.5	3.4	6	114	0.6	SE
M1	20190102	Fine	Moderate	Mid-Ebb	B	7.2	9:03	9.36	8.04	30.06	20.4	7.2	19	114	0.21	SE
M1	20190102	Fine	Moderate	Mid-Ebb	B	7.2	9:04	9.37	8.02	30.48	20.5	7.3	18	115	0.2	S
M1	20190102	Fine	Moderate	Mid-Ebb	M	4.1	9:05	9.31	8.13	29.88	20.5	4.96	16	115	0.38	S
M1	20190102	Fine	Moderate	Mid-Ebb	M	4.1	9:05	9.29	8.03	29.87	20.5	5.05	17	114	0.4	S
M1	20190102	Fine	Moderate	Mid-Ebb	S	1	9:06	9.27	8.12	30.03	20.5	2.75	16	114	0.63	S
M1	20190102	Fine	Moderate	Mid-Ebb	S	1	9:06	9.27	8.15	30.46	20.4	2.84	16	114	0.65	S
C2	20190102	Fine	Moderate	Mid-Ebb	B	8.2	9:46	9.26	8.17	30.49	20.4	6.65	17	113	0.25	S
C2	20190102	Fine	Moderate	Mid-Ebb	B	8.2	9:47	9.24	8.16	30.37	20.5	6.73	16	115	0.26	S

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C2	20190102	Fine	Moderate	Mid-Ebb	M	4.6	9:47	9.23	8.1	29.56	20.5	4.95	17	114	0.35	S
C2	20190102	Fine	Moderate	Mid-Ebb	M	4.6	9:48	9.31	8.07	30.46	20.4	4.91	17	114	0.34	S
C2	20190102	Fine	Moderate	Mid-Ebb	S	1	9:48	9.34	8.14	29.62	20.4	2.91	14	114	0.57	S
C2	20190102	Fine	Moderate	Mid-Ebb	S	1	9:49	9.28	8.06	29.76	20.5	2.98	13	114	0.57	S
S3	20190102	Fine	Moderate	Mid-Ebb	B	10.2	9:41	9.19	8.12	30.19	20.5	7.34	8	112	0.17	SE
S3	20190102	Fine	Moderate	Mid-Ebb	B	10.2	9:41	9.22	8.03	29.9	20.5	7.37	9	113	0.18	SE
S3	20190102	Fine	Moderate	Mid-Ebb	M	5.6	9:42	9.28	8.14	30.41	20.5	4.96	8	113	0.35	SE
S3	20190102	Fine	Moderate	Mid-Ebb	M	5.6	9:43	9.29	8.06	29.9	20.4	4.88	9	113	0.35	SE
S3	20190102	Fine	Moderate	Mid-Ebb	S	1	9:43	9.29	8.1	30.22	20.4	3.48	10	113	0.57	SE
S3	20190102	Fine	Moderate	Mid-Ebb	S	1	9:44	9.3	8.02	29.77	20.4	3.46	10	113	0.57	SE
CR2	20190102	Fine	Moderate	Mid-Ebb	B	7.7	9:49	9.09	8.03	30.41	20.5	7.43	13	112	0.2	SE
CR2	20190102	Fine	Moderate	Mid-Ebb	B	7.7	9:50	9.14	8.14	30.09	20.5	7.53	12	111	0.18	SE
CR2	20190102	Fine	Moderate	Mid-Ebb	M	4.4	9:51	9.2	8.12	29.53	20.5	4.76	10	112	0.43	SE
CR2	20190102	Fine	Moderate	Mid-Ebb	M	4.4	9:51	9.24	8.2	30.11	20.4	4.69	11	111	0.44	SE
CR2	20190102	Fine	Moderate	Mid-Ebb	S	1	9:52	9.23	8.05	29.8	20.5	2.67	10	114	0.65	SE
CR2	20190102	Fine	Moderate	Mid-Ebb	S	1	9:52	9.14	8.03	30.1	20.4	2.76	10	112	0.63	SE
CR1	20190102	Fine	Moderate	Mid-Ebb	B	7.6	10:04	9.31	8.08	29.96	20.4	7.24	10	114	0.21	S
CR1	20190102	Fine	Moderate	Mid-Ebb	B	7.6	10:05	9.29	8.01	30.01	20.4	7.17	11	113	0.19	S
CR1	20190102	Fine	Moderate	Mid-Ebb	M	4.3	10:05	9.36	8.15	29.7	20.5	4.5	8	112	0.39	S
CR1	20190102	Fine	Moderate	Mid-Ebb	M	4.3	10:06	9.34	8.04	29.5	20.4	4.43	7	112	0.38	S
CR1	20190102	Fine	Moderate	Mid-Ebb	S	1	10:07	9.35	8.18	30.05	20.4	3.06	7	114	0.65	S
CR1	20190102	Fine	Moderate	Mid-Ebb	S	1	10:07	9.32	8.14	30.23	20.5	3.15	7	113	0.64	S
S2	20190102	Fine	Moderate	Mid-Ebb	B	7.4	9:28	8.7	8.08	30.45	20.4	6.79	7	113	0.18	SE
S2	20190102	Fine	Moderate	Mid-Ebb	B	7.4	9:28	8.71	8.07	30.15	20.4	6.72	6	114	0.2	SE
S2	20190102	Fine	Moderate	Mid-Ebb	M	4.2	9:29	8.78	8.07	29.63	20.4	5.42	11	111	0.36	SE
S2	20190102	Fine	Moderate	Mid-Ebb	M	4.2	9:30	8.78	8.08	30.29	20.4	5.38	10	111	0.34	SE
S2	20190102	Fine	Moderate	Mid-Ebb	S	1	9:30	8.68	8.06	30	20.4	3.14	10	113	0.59	SE
S2	20190102	Fine	Moderate	Mid-Ebb	S	1	9:31	8.65	8.13	30.27	20.4	3.15	10	112	0.57	SE
H1	20190102	Fine	Moderate	Mid-Ebb	B	7	10:08	8.94	8.15	30.4	20.5	7.09	8	115	0.19	E
H1	20190102	Fine	Moderate	Mid-Ebb	B	7	10:08	9.02	8.07	29.69	20.5	7.04	7	114	0.19	E
H1	20190102	Fine	Moderate	Mid-Ebb	M	4	10:09	8.95	8.17	29.97	20.4	4.96	10	115	0.4	E
H1	20190102	Fine	Moderate	Mid-Ebb	M	4	10:09	8.93	8.16	30.42	20.4	5.04	10	114	0.39	E

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H1	20190102	Fine	Moderate	Mid-Ebb	S	1	10:10	8.83	8.16	30.29	20.4	3.43	10	114	0.6	E
H1	20190102	Fine	Moderate	Mid-Ebb	S	1	10:11	8.73	8.09	30.19	20.5	3.43	10	114	0.58	E
B3	20190102	Fine	Moderate	Mid-Ebb	B	4.3	10:25	8.57	8.04	29.91	20.4	6.51	16	113	0.21	E
B3	20190102	Fine	Moderate	Mid-Ebb	B	4.3	10:26	8.63	8.13	29.68	20.4	6.47	17	114	0.23	E
B3	20190102	Fine	Moderate	Mid-Ebb	S	1	10:26	8.55	8.13	30.1	20.4	3.5	17	114	0.56	E
B3	20190102	Fine	Moderate	Mid-Ebb	S	1	10:27	8.49	8.06	30.23	20.5	3.46	16	115	0.58	E
B4	20190102	Fine	Moderate	Mid-Ebb	B	4.2	10:42	8.61	8.07	30.37	20.5	6.59	14	114	0.15	SE
B4	20190102	Fine	Moderate	Mid-Ebb	B	4.2	10:42	8.56	8.01	29.61	20.4	6.54	15	115	0.13	SE
B4	20190102	Fine	Moderate	Mid-Ebb	S	1	10:43	8.48	8.19	29.91	20.5	2.55	14	114	0.62	SE
B4	20190102	Fine	Moderate	Mid-Ebb	S	1	10:44	8.56	8.15	29.55	20.4	2.56	15	113	0.6	SE
C2	20190102	Cloudy	Moderate	Mid-Flood	B	9.2	13:51	8.79	8.12	29.96	20.4	6.73	16	111	0.17	N
C2	20190102	Cloudy	Moderate	Mid-Flood	B	9.2	13:52	8.81	8	29.8	20.5	6.74	15	114	0.16	N
C2	20190102	Cloudy	Moderate	Mid-Flood	M	5.1	13:52	8.8	8.11	30.39	20.4	5.25	14	115	0.4	N
C2	20190102	Cloudy	Moderate	Mid-Flood	M	5.1	13:53	8.86	8.01	30.14	20.4	5.22	13	114	0.41	N
C2	20190102	Cloudy	Moderate	Mid-Flood	S	1	13:54	8.86	8.07	29.57	20.5	3.21	9	115	0.56	N
C2	20190102	Cloudy	Moderate	Mid-Flood	S	1	13:54	8.83	8	30.35	20.4	3.3	10	114	0.58	N
CR1	20190102	Cloudy	Moderate	Mid-Flood	B	8.2	13:52	8.66	8.06	29.68	20.4	7.5	9	114	0.18	NW
CR1	20190102	Cloudy	Moderate	Mid-Flood	B	8.2	13:52	8.57	8.17	29.92	20.5	7.54	10	114	0.18	NW
CR1	20190102	Cloudy	Moderate	Mid-Flood	M	4.6	13:53	8.58	8.02	30.4	20.4	4.67	7	114	0.37	NW
CR1	20190102	Cloudy	Moderate	Mid-Flood	M	4.6	13:54	8.6	8.06	30.02	20.4	4.73	7	115	0.35	NW
CR1	20190102	Cloudy	Moderate	Mid-Flood	S	1	13:54	8.68	8.18	29.73	20.4	2.83	9	114	0.64	NW
CR1	20190102	Cloudy	Moderate	Mid-Flood	S	1	13:55	8.77	8.06	30.49	20.5	2.83	8	115	0.62	NW
S3	20190102	Cloudy	Moderate	Mid-Flood	B	11.4	13:59	8.57	8.05	30.02	20.5	6.63	18	113	0.2	W
S3	20190102	Cloudy	Moderate	Mid-Flood	B	11.4	13:59	8.63	8.18	29.51	20.5	6.72	17	113	0.19	W
S3	20190102	Cloudy	Moderate	Mid-Flood	M	6.2	14:00	8.56	8.02	30.37	20.4	4.69	18	114	0.37	W
S3	20190102	Cloudy	Moderate	Mid-Flood	M	6.2	14:00	8.59	8.11	29.71	20.5	4.77	17	115	0.36	W
S3	20190102	Cloudy	Moderate	Mid-Flood	S	1	14:01	8.54	8.06	30.47	20.5	2.88	15	115	0.64	W
S3	20190102	Cloudy	Moderate	Mid-Flood	S	1	14:02	8.64	8.15	29.91	20.4	2.94	15	115	0.62	W
CR2	20190102	Cloudy	Moderate	Mid-Flood	B	8.5	14:06	8.71	8	29.88	20.4	6.95	6	115	0.19	W
CR2	20190102	Cloudy	Moderate	Mid-Flood	B	8.5	14:07	8.71	8.19	29.82	20.5	6.98	5	113	0.21	W
CR2	20190102	Cloudy	Moderate	Mid-Flood	M	4.8	14:07	8.62	8.05	29.81	20.4	5.34	6	115	0.44	W
CR2	20190102	Cloudy	Moderate	Mid-Flood	M	4.8	14:08	8.57	8.09	30.23	20.5	5.29	6	113	0.45	W

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CR2	20190102	Cloudy	Moderate	Mid-Flood	S	1	14:09	8.53	8.19	30.08	20.4	3.34	9	114	0.61	W
CR2	20190102	Cloudy	Moderate	Mid-Flood	S	1	14:09	8.56	8.2	29.5	20.4	3.37	9	115	0.61	W
F1	20190102	Cloudy	Moderate	Mid-Flood	B	7.6	14:19	8.51	8.17	30.32	20.4	6.54	20	114	0.16	NW
F1	20190102	Cloudy	Moderate	Mid-Flood	B	7.6	14:20	8.47	8.17	29.53	20.4	6.44	20	114	0.16	NW
F1	20190102	Cloudy	Moderate	Mid-Flood	M	4.3	14:20	8.57	8.12	29.57	20.5	5.13	18	114	0.37	NW
F1	20190102	Cloudy	Moderate	Mid-Flood	M	4.3	14:21	8.48	8.02	30.33	20.4	5.12	19	114	0.36	W
F1	20190102	Cloudy	Moderate	Mid-Flood	S	1	14:21	8.43	8.07	30.32	20.5	2.51	12	113	0.63	W
F1	20190102	Cloudy	Moderate	Mid-Flood	S	1	14:22	8.44	8.12	29.83	20.4	2.59	11	112	0.65	W
C1	20190102	Cloudy	Moderate	Mid-Flood	B	11	14:38	8.83	8.19	30.06	20.5	7.24	10	115	0.17	NW
C1	20190102	Cloudy	Moderate	Mid-Flood	B	11	14:38	8.87	8.02	29.5	20.4	7.3	10	114	0.17	NW
C1	20190102	Cloudy	Moderate	Mid-Flood	M	6	14:39	8.89	8.07	30.34	20.4	5.32	11	114	0.41	NW
C1	20190102	Cloudy	Moderate	Mid-Flood	M	6	14:39	8.88	8.11	30.37	20.5	5.3	10	114	0.4	NW
C1	20190102	Cloudy	Moderate	Mid-Flood	S	1	14:40	8.96	8.11	30.46	20.5	2.67	9	114	0.61	NW
C1	20190102	Cloudy	Moderate	Mid-Flood	S	1	14:41	8.95	8.13	29.94	20.4	2.6	10	115	0.63	NW
M1	20190102	Cloudy	Moderate	Mid-Flood	B	7.7	14:50	8.79	8.11	29.63	20.4	7.23	13	114	0.23	NW
M1	20190102	Cloudy	Moderate	Mid-Flood	B	7.7	14:51	8.74	8.18	30.24	20.5	7.31	14	115	0.23	NW
M1	20190102	Cloudy	Moderate	Mid-Flood	M	4.4	14:52	8.8	8.03	30.14	20.5	5.42	13	114	0.36	NW
M1	20190102	Cloudy	Moderate	Mid-Flood	M	4.4	14:52	8.7	8.05	29.9	20.4	5.49	13	114	0.38	NW
M1	20190102	Cloudy	Moderate	Mid-Flood	S	1	14:53	8.63	8.02	29.77	20.5	3.24	14	114	0.59	NW
M1	20190102	Cloudy	Moderate	Mid-Flood	S	1	14:53	8.54	8.17	29.8	20.5	3.24	14	113	0.61	NW
B1	20190102	Cloudy	Moderate	Mid-Flood	B	4.8	15:02	8.87	8.04	29.61	20.5	6.79	8	112	0.19	NW
B1	20190102	Cloudy	Moderate	Mid-Flood	B	4.8	15:03	8.78	8.02	29.87	20.4	6.77	8	113	0.21	NW
B1	20190102	Cloudy	Moderate	Mid-Flood	S	1	15:03	8.85	8.16	29.92	20.5	2.64	8	111	0.63	NW
B1	20190102	Cloudy	Moderate	Mid-Flood	S	1	15:04	8.91	8.15	29.84	20.5	2.61	7	113	0.63	NW
S1	20190102	Cloudy	Moderate	Mid-Flood	B	4.7	15:13	9.12	8.06	29.94	20.4	6.75	14	114	0.17	N
S1	20190102	Cloudy	Moderate	Mid-Flood	B	4.7	15:13	9.22	8.03	30.12	20.4	6.71	12	114	0.16	N
S1	20190102	Cloudy	Moderate	Mid-Flood	S	1	15:14	9.18	8.02	29.76	20.4	3.48	12	114	0.65	N
S1	20190102	Cloudy	Moderate	Mid-Flood	S	1	15:14	9.16	8.17	30.14	20.5	3.53	12	114	0.65	N
B2	20190102	Cloudy	Moderate	Mid-Flood	B	4.8	15:23	8.75	8.09	29.51	20.4	6.58	9	112	0.18	N
B2	20190102	Cloudy	Moderate	Mid-Flood	B	4.8	15:24	8.68	8.14	29.73	20.5	6.64	9	111	0.17	N
B2	20190102	Cloudy	Moderate	Mid-Flood	S	1	15:24	8.58	8.12	30.17	20.5	2.55	11	112	0.64	N
B2	20190102	Cloudy	Moderate	Mid-Flood	S	1	15:25	8.67	8.02	30.37	20.4	2.48	11	111	0.62	N

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H1	20190102	Cloudy	Moderate	Mid-Flood	B	7.8	15:32	8.79	8.01	30.23	20.5	7.4	16	114	0.17	W
H1	20190102	Cloudy	Moderate	Mid-Flood	B	7.8	15:33	8.77	8	29.57	20.4	7.49	16	115	0.18	W
H1	20190102	Cloudy	Moderate	Mid-Flood	M	4.4	15:34	8.71	8.11	30.16	20.4	5.39	15	113	0.4	W
H1	20190102	Cloudy	Moderate	Mid-Flood	M	4.4	15:34	8.74	8.13	30.35	20.4	5.42	14	115	0.4	W
H1	20190102	Cloudy	Moderate	Mid-Flood	S	1	15:35	8.74	8.17	30.03	20.4	3.43	15	113	0.57	W
H1	20190102	Cloudy	Moderate	Mid-Flood	S	1	15:36	8.7	8.04	30.04	20.4	3.53	14	112	0.58	W
B3	20190102	Cloudy	Moderate	Mid-Flood	B	4.7	15:51	9.05	8.03	29.58	20.5	7.41	14	112	0.21	NW
B3	20190102	Cloudy	Moderate	Mid-Flood	B	4.7	15:52	9.05	8.16	30.02	20.4	7.41	13	114	0.22	NW
B3	20190102	Cloudy	Moderate	Mid-Flood	S	1	15:52	8.98	8.03	30.23	20.4	2.7	14	113	0.58	NW
B3	20190102	Cloudy	Moderate	Mid-Flood	S	1	15:53	8.97	8.07	29.84	20.4	2.79	15	112	0.57	NW
B4	20190102	Cloudy	Moderate	Mid-Flood	B	4.6	16:06	8.67	8.08	30.14	20.4	6.87	16	113	0.24	N
B4	20190102	Cloudy	Moderate	Mid-Flood	B	4.6	16:06	8.76	8.15	29.84	20.5	6.91	17	113	0.24	N
B4	20190102	Cloudy	Moderate	Mid-Flood	S	1	16:07	8.76	8.17	30	20.4	3.5	14	114	0.6	N
B4	20190102	Cloudy	Moderate	Mid-Flood	S	1	16:07	8.8	8.17	29.73	20.5	3.5	13	111	0.6	N
S2	20190102	Cloudy	Moderate	Mid-Flood	B	7.8	16:21	9	8.07	30.27	20.5	7.43	15	114	0.15	NW
S2	20190102	Cloudy	Moderate	Mid-Flood	B	7.8	16:22	8.96	8.17	29.89	20.4	7.38	13	115	0.14	NW
S2	20190102	Cloudy	Moderate	Mid-Flood	M	4.4	16:22	8.87	8	29.72	20.4	4.78	16	115	0.4	NW
S2	20190102	Cloudy	Moderate	Mid-Flood	M	4.4	16:23	8.97	8.1	29.89	20.5	4.76	15	114	0.38	NW
S2	20190102	Cloudy	Moderate	Mid-Flood	S	1	16:24	9.03	8.11	29.74	20.4	2.8	14	114	0.61	NW
S2	20190102	Cloudy	Moderate	Mid-Flood	S	1	16:24	9.12	8.05	29.52	20.4	2.9	15	114	0.63	NW
C1	20190104	Cloudy	Light	Mid-Ebb	B	9.9	10:09	9.7	8.03	29.87	18.6	7.21	7	114	0.15	E
C1	20190104	Cloudy	Light	Mid-Ebb	B	9.9	10:09	9.6	8.05	29.96	18.6	7.18	8	115	0.16	E
C1	20190104	Cloudy	Light	Mid-Ebb	M	5.5	10:10	9.57	8.02	29.87	18.7	5.09	9	114	0.28	E
C1	20190104	Cloudy	Light	Mid-Ebb	M	5.5	10:10	9.66	8.03	29.43	18.6	5.15	9	114	0.3	E
C1	20190104	Cloudy	Light	Mid-Ebb	S	1	10:11	9.63	8.17	29.9	18.7	2.9	7	115	0.35	E
C1	20190104	Cloudy	Light	Mid-Ebb	S	1	10:12	9.67	8.07	29.41	18.7	2.86	8	116	0.33	E
F1	20190104	Cloudy	Light	Mid-Ebb	B	7.4	10:11	8.94	8.07	30.29	18.6	6.63	6	114	0.23	SE
F1	20190104	Cloudy	Light	Mid-Ebb	B	7.4	10:12	8.93	8.04	30.04	18.7	6.53	6	114	0.24	SE
F1	20190104	Cloudy	Light	Mid-Ebb	M	4.2	10:12	8.88	8	29.5	18.7	4.8	4	114	0.26	SE
F1	20190104	Cloudy	Light	Mid-Ebb	M	4.2	10:13	8.91	8.09	29.49	18.7	4.82	4	114	0.28	SE
F1	20190104	Cloudy	Light	Mid-Ebb	S	1	10:14	8.93	8.02	30.23	18.7	3.35	5	114	0.35	SE
F1	20190104	Cloudy	Light	Mid-Ebb	S	1	10:14	8.89	8.02	29.57	18.7	3.29	5	114	0.35	SE

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B1	20190104	Cloudy	Light	Mid-Ebb	B	4.6	10:34	9.18	8.16	29.27	18.6	6.97	11	115	0.19	NE
B1	20190104	Cloudy	Light	Mid-Ebb	B	4.6	10:35	9.17	8.08	30.3	18.7	7	10	114	0.18	NE
B1	20190104	Cloudy	Light	Mid-Ebb	S	1	10:35	9.15	8.18	29.52	18.7	2.7	10	113	0.45	NE
B1	20190104	Cloudy	Light	Mid-Ebb	S	1	10:36	9.09	8.07	30.25	18.6	2.63	11	115	0.45	NE
M1	20190104	Cloudy	Light	Mid-Ebb	B	7.3	10:43	9.59	8.18	30.03	18.6	7.04	9	114	0.16	S
M1	20190104	Cloudy	Light	Mid-Ebb	B	7.3	10:44	9.61	8.15	29.29	18.7	7.05	9	114	0.15	S
M1	20190104	Cloudy	Light	Mid-Ebb	M	4.2	10:45	9.71	8.12	29.62	18.7	4.5	8	115	0.33	S
M1	20190104	Cloudy	Light	Mid-Ebb	M	4.2	10:45	9.66	8.02	29.27	18.7	4.43	8	114	0.32	S
M1	20190104	Cloudy	Light	Mid-Ebb	S	1	10:46	9.75	8.17	29.98	18.7	2.81	7	114	0.41	S
M1	20190104	Cloudy	Light	Mid-Ebb	S	1	10:46	9.82	8.15	30.28	18.7	2.85	6	114	0.42	S
S1	20190104	Cloudy	Light	Mid-Ebb	B	4.5	10:44	9.33	8.04	29.89	18.7	7.33	5	114	0.15	E
S1	20190104	Cloudy	Light	Mid-Ebb	B	4.5	10:45	9.25	8.06	29.21	18.6	7.27	6	114	0.14	E
S1	20190104	Cloudy	Light	Mid-Ebb	S	1	10:45	9.22	8.14	29.2	18.6	3.06	5	115	0.35	E
S1	20190104	Cloudy	Light	Mid-Ebb	S	1	10:46	9.16	8.19	30.34	18.6	3.16	6	115	0.36	E
B2	20190104	Cloudy	Light	Mid-Ebb	B	4.7	10:54	9.57	8.19	30.02	18.7	6.87	8	114	0.16	SE
B2	20190104	Cloudy	Light	Mid-Ebb	B	4.7	10:54	9.52	8.16	29.81	18.6	6.93	9	115	0.14	SE
B2	20190104	Cloudy	Light	Mid-Ebb	S	1	10:55	9.61	8	30.01	18.7	2.55	8	114	0.36	SE
B2	20190104	Cloudy	Light	Mid-Ebb	S	1	10:55	9.63	8.04	29.49	18.7	2.64	9	114	0.36	SE
S2	20190104	Cloudy	Light	Mid-Ebb	B	7.5	11:11	9.25	8.2	30.13	18.6	7.25	5	114	0.21	SE
S2	20190104	Cloudy	Light	Mid-Ebb	B	7.5	11:12	9.22	8.16	29.39	18.7	7.34	5	114	0.19	SE
S2	20190104	Cloudy	Light	Mid-Ebb	M	4.3	11:12	9.28	8.07	29.54	18.6	4.59	4	113	0.31	SE
S2	20190104	Cloudy	Light	Mid-Ebb	M	4.3	11:13	9.33	8.16	30.39	18.6	4.62	5	114	0.29	SE
S2	20190104	Cloudy	Light	Mid-Ebb	S	1	11:13	9.28	8.18	29.3	18.7	2.61	4	114	0.37	SE
S2	20190104	Cloudy	Light	Mid-Ebb	S	1	11:14	9.21	8.06	29.4	18.7	2.56	4	115	0.37	SE
C2	20190104	Cloudy	Light	Mid-Ebb	B	8	11:16	9.13	8.03	30.04	18.7	7.26	7	114	0.17	S
C2	20190104	Cloudy	Light	Mid-Ebb	B	8	11:16	9.13	8.12	29.8	18.7	7.22	7	114	0.15	S
C2	20190104	Cloudy	Light	Mid-Ebb	M	4.5	11:17	9.06	8.05	29.57	18.6	5.07	5	114	0.31	S
C2	20190104	Cloudy	Light	Mid-Ebb	M	4.5	11:18	9.09	8.13	29.31	18.7	5.07	4	114	0.33	S
C2	20190104	Cloudy	Light	Mid-Ebb	S	1	11:18	9.04	8.07	29.29	18.6	2.85	3	114	0.39	S
C2	20190104	Cloudy	Light	Mid-Ebb	S	1	11:19	9.03	8.02	29.56	18.7	2.95	3	113	0.4	S
CR2	20190104	Cloudy	Light	Mid-Ebb	B	7.8	11:24	9.46	8.03	30.2	18.6	6.8	6	113	0.17	SE
CR2	20190104	Cloudy	Light	Mid-Ebb	B	7.8	11:25	9.55	8.08	29.3	18.7	6.83	7	114	0.18	SE

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
CR2	20190104	Cloudy	Light	Mid-Ebb	M	4.4	11:26	9.57	8.04	29.95	18.7	4.57	6	113	0.32	SE
CR2	20190104	Cloudy	Light	Mid-Ebb	M	4.4	11:26	9.64	8.05	29.97	18.6	4.51	5	114	0.34	SE
CR2	20190104	Cloudy	Light	Mid-Ebb	S	1	11:27	9.68	8.14	30.09	18.7	3.11	4	116	0.36	SE
CR2	20190104	Cloudy	Light	Mid-Ebb	S	1	11:27	9.66	8.01	29.86	18.7	3.08	5	114	0.37	SE
H1	20190104	Cloudy	Light	Mid-Ebb	B	7	12:09	9.12	8.2	30.26	18.6	7.25	7	113	0.25	E
H1	20190104	Cloudy	Light	Mid-Ebb	B	7	12:10	9.16	8.08	29.91	18.7	7.34	8	115	0.23	E
H1	20190104	Cloudy	Light	Mid-Ebb	M	4	12:10	9.21	8.16	29.6	18.6	5.44	8	114	0.32	E
H1	20190104	Cloudy	Light	Mid-Ebb	M	4	12:11	9.16	8.07	29.3	18.6	5.47	7	113	0.34	E
H1	20190104	Cloudy	Light	Mid-Ebb	S	1	12:12	9.12	8.07	30.42	18.6	2.94	9	114	0.43	E
H1	20190104	Cloudy	Light	Mid-Ebb	S	1	12:12	9.08	8.05	30.47	18.6	2.98	9	113	0.42	E
S3	20190104	Cloudy	Light	Mid-Ebb	B	10.1	11:34	8.91	8.02	29.92	18.7	6.61	5	113	0.23	SE
S3	20190104	Cloudy	Light	Mid-Ebb	B	10.1	11:34	8.97	8.18	29.35	18.7	6.53	4	113	0.25	SE
S3	20190104	Cloudy	Light	Mid-Ebb	M	5.6	11:35	8.9	8.2	29.37	18.6	4.99	3	112	0.34	SE
S3	20190104	Cloudy	Light	Mid-Ebb	M	5.6	11:36	8.86	8.17	30.47	18.7	4.89	4	114	0.36	SE
S3	20190104	Cloudy	Light	Mid-Ebb	S	1	11:36	8.89	8.12	29.26	18.7	2.55	3	113	0.38	SE
S3	20190104	Cloudy	Light	Mid-Ebb	S	1	11:37	8.8	8.17	29.93	18.6	2.65	3	113	0.39	SE
CR1	20190104	Cloudy	Light	Mid-Ebb	B	7.3	11:47	9.55	8.12	29.72	18.6	6.75	6	114	0.17	SE
CR1	20190104	Cloudy	Light	Mid-Ebb	B	7.3	11:47	9.57	8.05	30.02	18.6	6.81	6	113	0.17	SE
CR1	20190104	Cloudy	Light	Mid-Ebb	M	4.2	11:48	9.47	8.19	29.26	18.7	4.62	6	113	0.27	SE
CR1	20190104	Cloudy	Light	Mid-Ebb	M	4.2	11:48	9.55	8.17	30.03	18.6	4.61	6	114	0.25	S
CR1	20190104	Cloudy	Light	Mid-Ebb	S	1	11:49	9.6	8.19	30.18	18.7	3.44	6	114	0.44	S
CR1	20190104	Cloudy	Light	Mid-Ebb	S	1	11:50	9.57	8.05	30.41	18.6	3.41	6	114	0.46	S
B3	20190104	Cloudy	Light	Mid-Ebb	B	4.4	12:20	9.62	8.14	29.36	18.6	6.69	4	115	0.21	E
B3	20190104	Cloudy	Light	Mid-Ebb	B	4.4	12:21	9.55	8.06	29.77	18.7	6.66	5	114	0.23	E
B3	20190104	Cloudy	Light	Mid-Ebb	S	1	12:21	9.61	8.2	29.44	18.7	3.4	6	114	0.35	E
B3	20190104	Cloudy	Light	Mid-Ebb	S	1	12:22	9.67	8.03	29.87	18.6	3.37	5	113	0.34	E
B4	20190104	Cloudy	Light	Mid-Ebb	B	4.5	12:29	9.6	8.2	29.2	18.6	6.9	5	113	0.21	SE
B4	20190104	Cloudy	Light	Mid-Ebb	B	4.5	12:29	9.51	8.13	29.87	18.7	6.93	6	115	0.23	SE
B4	20190104	Cloudy	Light	Mid-Ebb	S	1	12:30	9.53	8.13	30.21	18.6	2.74	4	115	0.36	SE
B4	20190104	Cloudy	Light	Mid-Ebb	S	1	12:31	9.52	8.04	30.24	18.7	2.65	4	114	0.34	SE
C2	20190104	Sunny	Light	Mid-Flood	B	9.4	15:04	9.17	8.19	29.42	18.7	6.58	7	114	0.23	NE
C2	20190104	Sunny	Light	Mid-Flood	B	9.4	15:05	9.21	8.15	29.39	18.7	6.63	6	114	0.25	NE



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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C2	20190104	Sunny	Light	Mid-Flood	M	5.2	15:05	9.14	8.07	29.87	18.7	4.71	6	114	0.27	NE
C2	20190104	Sunny	Light	Mid-Flood	M	5.2	15:06	9.09	8.07	29.65	18.7	4.79	6	114	0.25	NE
C2	20190104	Sunny	Light	Mid-Flood	S	1	15:07	9.05	8.04	29.92	18.6	2.71	6	113	0.42	NE
C2	20190104	Sunny	Light	Mid-Flood	S	1	15:07	9.08	8.1	30.47	18.6	2.61	7	114	0.44	NE
CR1	20190104	Sunny	Light	Mid-Flood	B	8.3	15:21	9.23	8.2	29.85	18.6	6.8	7	115	0.15	NW
CR1	20190104	Sunny	Light	Mid-Flood	B	8.3	15:21	9.25	8	30.35	18.7	6.86	6	113	0.15	NW
CR1	20190104	Sunny	Light	Mid-Flood	M	4.7	15:22	9.22	8.06	30.38	18.6	4.92	6	115	0.32	NW
CR1	20190104	Sunny	Light	Mid-Flood	M	4.7	15:23	9.19	8.02	30.41	18.6	4.84	6	115	0.31	NW
CR1	20190104	Sunny	Light	Mid-Flood	S	1	15:23	9.16	8	30.41	18.6	3.43	8	113	0.38	NW
CR1	20190104	Sunny	Light	Mid-Flood	S	1	15:24	9.26	8.14	30.01	18.7	3.33	7	114	0.36	NW
S3	20190104	Sunny	Light	Mid-Flood	B	11.3	15:30	9.33	8.05	29.71	18.7	7.16	11	114	0.25	W
S3	20190104	Sunny	Light	Mid-Flood	B	11.3	15:30	9.23	8	29.7	18.7	7.09	10	113	0.27	W
S3	20190104	Sunny	Light	Mid-Flood	M	6.2	15:31	9.29	8.09	30.08	18.7	4.56	14	115	0.33	W
S3	20190104	Sunny	Light	Mid-Flood	M	6.2	15:31	9.34	8.18	29.99	18.6	4.58	14	114	0.35	W
S3	20190104	Sunny	Light	Mid-Flood	S	1	15:32	9.35	8.09	29.93	18.7	2.68	12	114	0.35	W
S3	20190104	Sunny	Light	Mid-Flood	S	1	15:33	9.32	8.18	29.79	18.6	2.74	12	114	0.36	W
CR2	20190104	Sunny	Light	Mid-Flood	B	8.4	15:40	8.93	8.04	30.26	18.7	6.73	7	114	0.25	NW
CR2	20190104	Sunny	Light	Mid-Flood	B	8.4	15:41	9.01	8.07	29.8	18.6	6.8	8	115	0.27	NW
CR2	20190104	Sunny	Light	Mid-Flood	M	4.7	15:41	8.92	8.16	29.37	18.6	4.64	7	114	0.27	NW
CR2	20190104	Sunny	Light	Mid-Flood	M	4.7	15:42	8.91	8.2	30.5	18.7	4.59	6	115	0.29	W
CR2	20190104	Sunny	Light	Mid-Flood	S	1	15:43	8.93	8.08	30.26	18.6	2.97	6	114	0.45	W
CR2	20190104	Sunny	Light	Mid-Flood	S	1	15:43	8.84	8.03	30.18	18.6	3.07	6	115	0.44	W
C1	20190104	Sunny	Light	Mid-Flood	B	10.9	16:12	9.58	8.08	29.41	18.7	7.35	7	113	0.16	NW
C1	20190104	Sunny	Light	Mid-Flood	B	10.9	16:13	9.53	8.13	30.05	18.6	7.34	8	112	0.16	NW
C1	20190104	Sunny	Light	Mid-Flood	M	6	16:13	9.61	8.08	30.25	18.7	5.07	5	115	0.26	NW
C1	20190104	Sunny	Light	Mid-Flood	M	6	16:14	9.54	8.1	29.55	18.7	5.09	6	115	0.26	N
C1	20190104	Sunny	Light	Mid-Flood	S	1	16:14	9.58	8.03	30.05	18.7	3.05	5	116	0.37	NW
C1	20190104	Sunny	Light	Mid-Flood	S	1	16:15	9.59	8.16	30.1	18.7	3.06	5	114	0.36	NW
F1	20190104	Sunny	Light	Mid-Flood	B	7.7	15:28	9.18	8.1	29.94	18.7	6.59	11	114	0.24	NW
F1	20190104	Sunny	Light	Mid-Flood	B	7.7	15:28	9.23	8.07	30.36	18.6	6.59	10	113	0.24	NW
F1	20190104	Sunny	Light	Mid-Flood	M	4.4	15:29	9.13	8.11	29.56	18.6	5.13	5	114	0.3	NW
F1	20190104	Sunny	Light	Mid-Flood	M	4.4	15:29	9.17	8	30.03	18.6	5.08	6	115	0.29	NW

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
F1	20190104	Sunny	Light	Mid-Flood	S	1	15:30	9.25	8.04	29.53	18.7	3.12	5	114	0.41	NW
F1	20190104	Sunny	Light	Mid-Flood	S	1	15:31	9.33	8.14	29.75	18.6	3.22	5	113	0.42	NW
M1	20190104	Sunny	Light	Mid-Flood	B	7.6	16:00	9.53	8.03	30.06	18.7	6.81	6	114	0.15	NW
M1	20190104	Sunny	Light	Mid-Flood	B	7.6	16:01	9.54	8.04	29.73	18.6	6.81	6	113	0.16	NW
M1	20190104	Sunny	Light	Mid-Flood	M	4.3	16:02	9.58	8.08	29.89	18.7	4.63	6	114	0.34	NW
M1	20190104	Sunny	Light	Mid-Flood	M	4.3	16:02	9.59	8.01	29.36	18.6	4.56	6	115	0.34	NW
M1	20190104	Sunny	Light	Mid-Flood	S	1	16:03	9.69	8.13	29.86	18.6	2.74	6	113	0.41	NW
M1	20190104	Sunny	Light	Mid-Flood	S	1	16:03	9.73	8.08	30.27	18.7	2.78	Note 2	114	0.39	NW
B1	20190104	Sunny	Light	Mid-Flood	B	4.9	16:35	9.47	8.17	29.93	18.7	7.4	7	114	0.15	NW
B1	20190104	Sunny	Light	Mid-Flood	B	4.9	16:36	9.57	8.03	29.65	18.6	7.43	7	113	0.17	NW
B1	20190104	Sunny	Light	Mid-Flood	S	1	16:36	9.62	8.01	30.19	18.6	2.87	6	115	0.37	W
B1	20190104	Sunny	Light	Mid-Flood	S	1	16:37	9.66	8.11	30.39	18.6	2.88	6	113	0.38	W
H1	20190104	Sunny	Light	Mid-Flood	B	7.7	16:43	8.95	8.14	29.72	18.6	7.16	5	115	0.18	W
H1	20190104	Sunny	Light	Mid-Flood	B	7.7	16:43	8.87	8.06	30.14	18.7	7.17	6	114	0.17	W
H1	20190104	Sunny	Light	Mid-Flood	M	4.4	16:44	8.83	8.11	29.92	18.6	5.03	5	114	0.3	W
H1	20190104	Sunny	Light	Mid-Flood	M	4.4	16:44	8.89	8.03	29.63	18.7	4.97	4	114	0.31	W
H1	20190104	Sunny	Light	Mid-Flood	S	1	16:45	8.88	8.1	30.04	18.7	3.05	5	115	0.41	W
H1	20190104	Sunny	Light	Mid-Flood	S	1	16:46	8.91	8.08	30.02	18.7	3.14	6	114	0.42	W
S1	20190104	Sunny	Light	Mid-Flood	B	4.8	16:46	9.39	8.18	29.5	18.6	6.66	7	114	0.22	N
S1	20190104	Sunny	Light	Mid-Flood	B	4.8	16:47	9.36	8.12	29.68	18.7	6.72	7	114	0.23	N
S1	20190104	Sunny	Light	Mid-Flood	S	1	16:47	9.27	8.16	29.83	18.7	3.44	8	114	0.37	N
S1	20190104	Sunny	Light	Mid-Flood	S	1	16:48	9.28	8.15	29.29	18.6	3.53	7	114	0.39	N
B2	20190104	Sunny	Light	Mid-Flood	B	4.7	17:06	8.91	8.05	29.73	18.6	6.53	6	114	0.2	N
B2	20190104	Sunny	Light	Mid-Flood	B	4.7	17:06	8.94	8.12	29.67	18.6	6.48	5	115	0.18	NE
B2	20190104	Sunny	Light	Mid-Flood	S	1	17:07	8.84	8.19	29.31	18.7	3.11	6	114	0.42	N
B2	20190104	Sunny	Light	Mid-Flood	S	1	17:08	8.87	8.11	30	18.6	3.02	7	115	0.41	N
B3	20190104	Sunny	Light	Mid-Flood	B	4.8	17:06	9.6	8	29.56	18.6	7.1	3	115	0.21	NW
B3	20190104	Sunny	Light	Mid-Flood	B	4.8	17:07	9.58	8	30.06	18.6	7.1	4	114	0.22	NW
B3	20190104	Sunny	Light	Mid-Flood	S	1	17:07	9.48	8.07	30.36	18.7	3.16	4	113	0.35	NW
B3	20190104	Sunny	Light	Mid-Flood	S	1	17:08	9.54	8.06	29.28	18.7	3.07	4	114	0.36	NW
S2	20190104	Sunny	Light	Mid-Flood	B	7.9	17:13	9.65	8.03	29.42	18.6	7.12	12	114	0.19	NW
S2	20190104	Sunny	Light	Mid-Flood	B	7.9	17:13	9.59	8.14	30.22	18.7	7.07	12	114	0.21	NW

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
S2	20190104	Sunny	Light	Mid-Flood	M	4.5	17:14	9.6	8.04	29.32	18.7	5.14	9	114	0.28	NW
S2	20190104	Sunny	Light	Mid-Flood	M	4.5	17:14	9.58	8.16	30.4	18.6	5.19	10	114	0.26	NW
S2	20190104	Sunny	Light	Mid-Flood	S	1	17:15	9.61	8	29.31	18.7	2.56	8	114	0.38	NW
S2	20190104	Sunny	Light	Mid-Flood	S	1	17:16	9.51	8.06	30.29	18.6	2.58	8	114	0.36	NW
B4	20190104	Sunny	Light	Mid-Flood	B	4.7	17:21	9.35	8.17	29.99	18.6	6.59	7	114	0.15	N
B4	20190104	Sunny	Light	Mid-Flood	B	4.7	17:22	9.42	8.16	30.37	18.7	6.6	8	115	0.16	N
B4	20190104	Sunny	Light	Mid-Flood	S	1	17:23	9.48	8.06	29.81	18.6	2.52	5	115	0.41	N
B4	20190104	Sunny	Light	Mid-Flood	S	1	17:23	9.55	8.04	30.3	18.6	2.47	5	115	0.43	N
C2	20190107	Cloudy	Moderate	Mid-Flood	B	9.5	8:37	8.59	8.02	30.23	21.5	6.38	10	114	0.17	N
C2	20190107	Cloudy	Moderate	Mid-Flood	B	9.5	8:37	8.66	8.02	29.46	21.4	6.42	9	114	0.16	N
C2	20190107	Cloudy	Moderate	Mid-Flood	M	5.3	8:38	8.64	8.02	29.63	21.5	4.16	8	114	0.39	N
C2	20190107	Cloudy	Moderate	Mid-Flood	M	5.3	8:38	8.72	8	30.16	21.5	4.22	8	115	0.37	N
C2	20190107	Cloudy	Moderate	Mid-Flood	S	1	8:39	8.73	8.07	29.65	21.4	2.14	9	114	0.62	N
C2	20190107	Cloudy	Moderate	Mid-Flood	S	1	8:40	8.71	8.03	29.69	21.4	2.09	9	115	0.64	N
CR1	20190107	Cloudy	Moderate	Mid-Flood	B	8.4	8:52	8.71	8.17	29.67	21.4	6.48	6	114	0.17	NW
CR1	20190107	Cloudy	Moderate	Mid-Flood	B	8.4	8:53	8.75	8.08	29.56	21.5	6.45	6	114	0.19	NW
CR1	20190107	Cloudy	Moderate	Mid-Flood	M	4.7	8:53	8.78	8.01	30.06	21.4	4.7	7	114	0.43	NW
CR1	20190107	Cloudy	Moderate	Mid-Flood	M	4.7	8:54	8.82	8.02	29.74	21.5	4.76	6	112	0.45	NW
CR1	20190107	Cloudy	Moderate	Mid-Flood	S	1	8:55	8.79	8.11	29.87	21.5	2.83	6	114	0.57	NW
CR1	20190107	Cloudy	Moderate	Mid-Flood	S	1	8:55	8.77	8.13	29.46	21.4	2.84	7	115	0.58	NW
S3	20190107	Cloudy	Moderate	Mid-Flood	B	11.1	9:02	8.24	8	30.02	21.4	6.57	6	113	0.25	W
S3	20190107	Cloudy	Moderate	Mid-Flood	B	11.1	9:03	8.26	8	29.85	21.4	6.52	6	114	0.27	W
S3	20190107	Cloudy	Moderate	Mid-Flood	M	6.1	9:03	8.23	8.16	30.06	21.5	4.84	6	114	0.39	W
S3	20190107	Cloudy	Moderate	Mid-Flood	M	6.1	9:04	8.31	8.05	29.42	21.5	4.92	6	113	0.39	W
S3	20190107	Cloudy	Moderate	Mid-Flood	S	1	9:04	8.23	8.01	30.05	21.4	2.09	6	114	0.6	W
S3	20190107	Cloudy	Moderate	Mid-Flood	S	1	9:05	8.31	8.16	30.55	21.5	2.03	7	114	0.62	W
M1	20190107	Cloudy	Moderate	Mid-Flood	B	7.7	9:03	8.9	8	30.46	21.5	6.61	6	115	0.22	NW
M1	20190107	Cloudy	Moderate	Mid-Flood	B	7.7	9:03	8.85	8.17	30.51	21.5	6.61	6	114	0.21	NW
M1	20190107	Cloudy	Moderate	Mid-Flood	M	4.4	9:04	8.93	8.02	29.82	21.4	4.16	4	112	0.43	NW
M1	20190107	Cloudy	Moderate	Mid-Flood	M	4.4	9:04	8.85	8.02	29.58	21.5	4.1	5	113	0.44	NW
M1	20190107	Cloudy	Moderate	Mid-Flood	S	1	9:05	8.91	8.14	29.59	21.5	2.26	3	113	0.61	NW
M1	20190107	Cloudy	Moderate	Mid-Flood	S	1	9:06	9.01	8.19	29.87	21.5	2.32	4	115	0.62	NW

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
CR2	20190107	Cloudy	Moderate	Mid-Flood	B	8.3	9:12	8.9	8.03	29.95	21.5	6.69	4	115	0.22	W
CR2	20190107	Cloudy	Moderate	Mid-Flood	B	8.3	9:13	8.86	8.15	29.88	21.4	6.73	4	114	0.22	W
CR2	20190107	Cloudy	Moderate	Mid-Flood	M	4.7	9:14	8.82	8.1	30.33	21.5	4.97	4	114	0.41	W
CR2	20190107	Cloudy	Moderate	Mid-Flood	M	4.7	9:14	8.78	8.12	30.39	21.4	4.95	4	115	0.43	W
CR2	20190107	Cloudy	Moderate	Mid-Flood	S	1	9:15	8.73	8.12	30.22	21.4	2.76	5	113	0.55	W
CR2	20190107	Cloudy	Moderate	Mid-Flood	S	1	9:15	8.81	8.11	29.97	21.5	2.72	5	113	0.57	W
C1	20190107	Cloudy	Moderate	Mid-Flood	B	10.8	9:38	8.04	8.18	30.13	21.4	6.64	6	114	0.21	NW
C1	20190107	Cloudy	Moderate	Mid-Flood	B	10.8	9:39	8.03	8.04	30.52	21.5	6.66	8	114	0.23	NW
C1	20190107	Cloudy	Moderate	Mid-Flood	M	5.9	9:39	7.99	8.13	30.31	21.5	4.23	5	115	0.45	NW
C1	20190107	Cloudy	Moderate	Mid-Flood	M	5.9	9:40	8.08	8.04	30.45	21.5	4.33	6	114	0.44	NW
C1	20190107	Cloudy	Moderate	Mid-Flood	S	1	9:40	8.1	8.12	29.44	21.5	2.19	8	113	0.59	NW
C1	20190107	Cloudy	Moderate	Mid-Flood	S	1	9:41	8.03	8.07	29.69	21.5	2.22	8	113	0.58	NW
F1	20190107	Cloudy	Moderate	Mid-Flood	B	7.6	9:32	8.56	8.1	30.33	21.4	6.92	10	115	0.25	NW
F1	20190107	Cloudy	Moderate	Mid-Flood	B	7.6	9:32	8.46	8.13	29.46	21.4	6.87	9	115	0.24	NW
F1	20190107	Cloudy	Moderate	Mid-Flood	M	4.3	9:33	8.38	8.07	30.3	21.4	4.35	8	113	0.42	NW
F1	20190107	Cloudy	Moderate	Mid-Flood	M	4.3	9:34	8.33	8.13	30.04	21.5	4.32	8	114	0.42	NW
F1	20190107	Cloudy	Moderate	Mid-Flood	S	1	9:34	8.38	8.19	29.57	21.5	2.1	6	115	0.61	NW
F1	20190107	Cloudy	Moderate	Mid-Flood	S	1	9:35	8.43	8.04	30.37	21.4	2.08	7	114	0.61	NW
B1	20190107	Cloudy	Moderate	Mid-Flood	B	4.8	10:02	8.37	8.07	29.72	21.4	6.41	7	115	0.2	NW
B1	20190107	Cloudy	Moderate	Mid-Flood	B	4.8	10:03	8.29	8.01	29.87	21.4	6.5	6	113	0.22	W
B1	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:04	8.23	8	30.1	21.4	2.66	8	114	0.61	W
B1	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:04	8.31	8.16	29.44	21.5	2.67	8	114	0.63	W
S1	20190107	Cloudy	Moderate	Mid-Flood	B	4.7	10:13	7.98	8.03	30.49	21.4	6.52	4	115	0.17	NW
S1	20190107	Cloudy	Moderate	Mid-Flood	B	4.7	10:13	8.04	8.01	29.86	21.4	6.61	4	114	0.17	NW
S1	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:14	8.06	8.09	30.22	21.4	2.83	7	114	0.63	NW
S1	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:15	8.01	8.19	29.4	21.5	2.75	7	116	0.63	NW
H1	20190107	Cloudy	Moderate	Mid-Flood	B	7.8	10:14	8.5	8.06	29.99	21.4	6.91	8	114	0.25	N
H1	20190107	Cloudy	Moderate	Mid-Flood	B	7.8	10:15	8.56	8.15	30.29	21.5	6.86	8	114	0.27	N
H1	20190107	Cloudy	Moderate	Mid-Flood	M	4.4	10:16	8.53	8.12	30.25	21.4	4.88	8	113	0.43	N
H1	20190107	Cloudy	Moderate	Mid-Flood	M	4.4	10:16	8.55	8.2	29.73	21.4	4.95	8	115	0.44	N
H1	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:17	8.52	8.07	30.04	21.4	2.51	8	114	0.61	N
H1	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:17	8.6	8.12	30.4	21.5	2.43	8	114	0.63	N

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 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B2	20190107	Cloudy	Moderate	Mid-Flood	B	4.8	10:24	8.48	8.01	30.42	21.5	6.43	6	114	0.23	N
B2	20190107	Cloudy	Moderate	Mid-Flood	B	4.8	10:25	8.47	8.16	29.58	21.5	6.48	7	114	0.25	N
B2	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:25	8.51	8.1	29.51	21.4	2.33	5	115	0.58	N
B2	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:26	8.61	8.19	30.52	21.5	2.38	6	114	0.57	N
S2	20190107	Cloudy	Moderate	Mid-Flood	B	4.7	10:41	8.15	8	30.34	21.5	6.66	8	114	0.17	NW
S2	20190107	Cloudy	Moderate	Mid-Flood	B	4.7	10:41	8.14	8	29.45	21.5	6.65	9	114	0.16	NW
S2	20190107	Cloudy	Moderate	Mid-Flood	M	2.9	10:42	8.19	8.1	30.6	21.4	4.79	7	113	0.38	NW
S2	20190107	Cloudy	Moderate	Mid-Flood	M	2.9	10:42	8.12	8.18	29.58	21.4	4.71	7	113	0.38	NW
S2	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:43	8.16	8.14	29.49	21.4	2.07	5	115	0.59	NW
S2	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:44	8.23	8.17	30.42	21.5	2.12	5	114	0.58	NW
B3	20190107	Cloudy	Moderate	Mid-Flood	B	4.6	10:32	8.63	8.09	30.39	21.5	6.37	6	114	0.17	W
B3	20190107	Cloudy	Moderate	Mid-Flood	B	4.6	10:33	8.57	8.17	29.72	21.5	6.36	7	115	0.19	W
B3	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:33	8.57	8.06	30.58	21.5	2.87	5	114	0.62	W
B3	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:34	8.49	8.12	30.59	21.4	2.92	5	113	0.63	W
B4	20190107	Cloudy	Moderate	Mid-Flood	B	4.7	10:45	8.86	8.18	30.26	21.4	6.62	8	114	0.18	NW
B4	20190107	Cloudy	Moderate	Mid-Flood	B	4.7	10:45	8.82	8.12	30	21.4	6.72	8	114	0.19	NW
B4	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:46	8.78	8.11	30.55	21.4	2.49	7	115	0.56	NW
B4	20190107	Cloudy	Moderate	Mid-Flood	S	1	10:47	8.8	8.19	29.71	21.4	2.58	6	114	0.56	NW
C1	20190107	Fine	Moderate	Mid-Ebb	B	9.8	12:09	8.23	8.08	29.74	21.5	6.67	7	113	0.24	E
C1	20190107	Fine	Moderate	Mid-Ebb	B	9.8	12:10	8.22	8.02	29.45	21.5	6.73	7	115	0.25	E
C1	20190107	Fine	Moderate	Mid-Ebb	M	5.4	12:10	8.28	8.18	30.26	21.4	4.35	6	114	0.42	SE
C1	20190107	Fine	Moderate	Mid-Ebb	M	5.4	12:11	8.26	8.02	29.44	21.4	4.33	5	113	0.4	SE
C1	20190107	Fine	Moderate	Mid-Ebb	S	1	12:12	8.23	8.1	29.58	21.4	2.45	6	115	0.55	SE
C1	20190107	Fine	Moderate	Mid-Ebb	S	1	12:12	8.22	8.13	29.56	21.5	2.47	5	113	0.54	SE
M1	20190107	Fine	Moderate	Mid-Ebb	B	7.4	12:14	8.08	8.14	29.76	21.5	6.39	6	115	0.15	NW
M1	20190107	Fine	Moderate	Mid-Ebb	B	7.4	12:14	8.09	8.1	30.27	21.5	6.42	6	113	0.14	NW
M1	20190107	Fine	Moderate	Mid-Ebb	M	4.2	12:15	8.08	8.13	30.49	21.5	4.83	5	113	0.35	NW
M1	20190107	Fine	Moderate	Mid-Ebb	M	4.2	12:16	8.12	8.11	30.52	21.4	4.81	4	113	0.34	NW
M1	20190107	Fine	Moderate	Mid-Ebb	S	1	12:16	8.13	8.04	29.76	21.4	2.03	4	114	0.65	NW
M1	20190107	Fine	Moderate	Mid-Ebb	S	1	12:17	8.14	8.19	29.8	21.4	2.11	5	115	0.63	NW
B1	20190107	Fine	Moderate	Mid-Ebb	B	4.5	12:32	8.3	8.16	29.41	21.5	6.25	6	114	0.24	E
B1	20190107	Fine	Moderate	Mid-Ebb	B	4.5	12:32	8.38	8.17	30.14	21.4	6.34	6	112	0.22	E

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B1	20190107	Fine	Moderate	Mid-Ebb	S	1	12:33	8.45	8	29.69	21.5	2.32	7	114	0.65	E
B1	20190107	Fine	Moderate	Mid-Ebb	S	1	12:33	8.54	8.12	29.84	21.5	2.34	6	113	0.65	E
S1	20190107	Fine	Moderate	Mid-Ebb	B	4.4	12:43	7.9	8.08	29.44	21.5	6.66	4	114	0.18	E
S1	20190107	Fine	Moderate	Mid-Ebb	B	4.4	12:44	7.87	8.15	30.21	21.5	6.58	5	114	0.19	E
S1	20190107	Fine	Moderate	Mid-Ebb	S	1	12:44	7.91	8.14	29.42	21.5	2.71	5	113	0.6	E
S1	20190107	Fine	Moderate	Mid-Ebb	S	1	12:45	7.9	8.16	30.53	21.5	2.74	6	114	0.6	E
F1	20190107	Fine	Moderate	Mid-Ebb	B	7.3	12:44	8.33	8.03	30.4	21.4	6.92	6	114	0.22	SE
F1	20190107	Fine	Moderate	Mid-Ebb	B	7.3	12:45	8.33	8.01	29.8	21.4	6.89	6	115	0.23	SE
F1	20190107	Fine	Moderate	Mid-Ebb	M	4.2	12:46	8.34	8.17	30.56	21.5	4.89	5	114	0.42	SE
F1	20190107	Fine	Moderate	Mid-Ebb	M	4.2	12:46	8.31	8.08	30.12	21.5	4.92	5	115	0.43	SE
F1	20190107	Fine	Moderate	Mid-Ebb	S	1	12:47	8.32	8.1	29.69	21.4	2.64	5	115	0.58	SE
F1	20190107	Fine	Moderate	Mid-Ebb	S	1	12:48	8.26	8.04	29.79	21.5	2.54	5	113	0.56	SE
B2	20190107	Fine	Moderate	Mid-Ebb	B	4.6	12:53	8.64	8.16	30.05	21.5	6.47	7	113	0.16	SE
B2	20190107	Fine	Moderate	Mid-Ebb	B	4.6	12:54	8.56	8.06	30.42	21.4	6.39	7	114	0.18	SE
B2	20190107	Fine	Moderate	Mid-Ebb	S	1	12:54	8.48	8.03	30.32	21.5	2.88	5	114	0.65	SE
B2	20190107	Fine	Moderate	Mid-Ebb	S	1	12:55	8.51	8.18	30.2	21.5	2.85	5	113	0.66	SE
S2	20190107	Fine	Moderate	Mid-Ebb	B	7.4	13:09	8.12	8.11	29.98	21.4	6.95	8	113	0.18	SE
S2	20190107	Fine	Moderate	Mid-Ebb	B	7.4	13:09	8.09	8.07	30.29	21.5	6.99	8	113	0.2	SE
S2	20190107	Fine	Moderate	Mid-Ebb	M	4.2	13:10	7.99	8.15	30.16	21.4	4.13	6	112	0.35	SE
S2	20190107	Fine	Moderate	Mid-Ebb	M	4.2	13:10	8.06	8.2	30.6	21.4	4.07	6	113	0.35	SE
S2	20190107	Fine	Moderate	Mid-Ebb	S	1	13:11	8.12	8.03	30.58	21.4	2.89	6	116	0.61	SE
S2	20190107	Fine	Moderate	Mid-Ebb	S	1	13:12	8.15	8.07	29.93	21.5	2.95	7	113	0.63	SE
C2	20190107	Fine	Moderate	Mid-Ebb	B	7.9	13:10	8.11	8	30.13	21.4	6.08	6	114	0.25	S
C2	20190107	Fine	Moderate	Mid-Ebb	B	7.9	13:11	8.12	8.15	30.26	21.4	6.13	5	114	0.26	S
C2	20190107	Fine	Moderate	Mid-Ebb	M	4.5	13:12	8.05	8.18	29.73	21.4	4.37	6	115	0.36	S
C2	20190107	Fine	Moderate	Mid-Ebb	M	4.5	13:12	8.07	8.18	29.96	21.4	4.34	5	115	0.34	S
C2	20190107	Fine	Moderate	Mid-Ebb	S	1	13:13	8.06	8.11	30.07	21.4	2.57	5	115	0.59	S
C2	20190107	Fine	Moderate	Mid-Ebb	S	1	13:13	8.02	8.02	30.16	21.4	2.54	5	114	0.61	S
CR2	20190107	Fine	Moderate	Mid-Ebb	B	7.9	13:22	8.31	8.16	29.52	21.5	6.68	5	113	0.21	SE
CR2	20190107	Fine	Moderate	Mid-Ebb	B	7.9	13:23	8.29	8.11	29.89	21.5	6.71	5	114	0.19	SE
CR2	20190107	Fine	Moderate	Mid-Ebb	M	4.5	13:23	8.29	8.2	30.52	21.5	4.83	6	114	0.43	SE
CR2	20190107	Fine	Moderate	Mid-Ebb	M	4.5	13:24	8.32	8.02	30.52	21.5	4.77	6	114	0.41	SE

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
CR2	20190107	Fine	Moderate	Mid-Ebb	S	1	13:25	8.27	8.19	29.85	21.4	2.54	7	113	0.56	SE
CR2	20190107	Fine	Moderate	Mid-Ebb	S	1	13:25	8.37	8.14	30.03	21.4	2.59	7	114	0.54	SE
H1	20190107	Fine	Moderate	Mid-Ebb	B	7.1	13:31	8.59	8.11	29.68	21.5	6.24	5	113	0.2	E
H1	20190107	Fine	Moderate	Mid-Ebb	B	7.1	13:31	8.69	8.01	29.74	21.5	6.25	5	113	0.21	E
H1	20190107	Fine	Moderate	Mid-Ebb	M	4.1	13:32	8.65	8.05	30.23	21.5	4.54	6	114	0.36	E
H1	20190107	Fine	Moderate	Mid-Ebb	M	4.1	13:33	8.67	8.09	30.47	21.5	4.55	5	112	0.37	E
H1	20190107	Fine	Moderate	Mid-Ebb	S	1	13:33	8.64	8.02	30.25	21.4	2.44	6	113	0.63	E
H1	20190107	Fine	Moderate	Mid-Ebb	S	1	13:34	8.68	8.13	30.58	21.4	2.44	6	113	0.62	E
S3	20190107	Fine	Moderate	Mid-Ebb	B	10	13:33	8.31	8.13	29.51	21.4	6.18	6	114	0.16	SE
S3	20190107	Fine	Moderate	Mid-Ebb	B	10	13:34	8.29	8.01	30.17	21.4	6.14	5	112	0.15	SE
S3	20190107	Fine	Moderate	Mid-Ebb	M	5.5	13:35	8.25	8.16	29.4	21.4	4.14	6	114	0.39	SE
S3	20190107	Fine	Moderate	Mid-Ebb	M	5.5	13:35	8.19	8.07	30.35	21.5	4.13	5	113	0.39	SE
S3	20190107	Fine	Moderate	Mid-Ebb	S	1	13:36	8.15	8.06	30.3	21.4	2.38	6	113	0.63	SE
S3	20190107	Fine	Moderate	Mid-Ebb	S	1	13:37	8.22	8.12	29.42	21.5	2.28	4	114	0.61	SE
CR1	20190107	Fine	Moderate	Mid-Ebb	B	7.2	13:44	8.8	8.19	29.72	21.4	6.62	6	112	0.15	SE
CR1	20190107	Fine	Moderate	Mid-Ebb	B	7.2	13:45	8.75	8.17	29.69	21.4	6.65	6	113	0.16	SE
CR1	20190107	Fine	Moderate	Mid-Ebb	M	4.1	13:45	8.83	8.07	29.8	21.4	4.65	6	115	0.42	SE
CR1	20190107	Fine	Moderate	Mid-Ebb	M	4.1	13:46	8.84	8.01	30.06	21.4	4.64	5	113	0.41	SE
CR1	20190107	Fine	Moderate	Mid-Ebb	S	1	13:47	8.79	8.15	30.31	21.5	2.58	6	112	0.57	SE
CR1	20190107	Fine	Moderate	Mid-Ebb	S	1	13:47	8.81	8.1	29.7	21.4	2.58	5	113	0.56	SE
B3	20190107	Fine	Moderate	Mid-Ebb	B	4.5	13:47	8.87	8.01	30.57	21.4	6.12	4	114	0.23	E
B3	20190107	Fine	Moderate	Mid-Ebb	B	4.5	13:47	8.87	8.2	29.73	21.4	6.14	5	114	0.22	E
B3	20190107	Fine	Moderate	Mid-Ebb	S	1	13:48	8.81	8.15	30	21.5	2.22	4	113	0.58	E
B3	20190107	Fine	Moderate	Mid-Ebb	S	1	13:49	8.91	8.09	29.57	21.4	2.23	5	112	0.56	E
B4	20190107	Fine	Moderate	Mid-Ebb	B	4.4	13:59	8.53	8.2	30.02	21.5	6.16	5	113	0.21	SE
B4	20190107	Fine	Moderate	Mid-Ebb	B	4.4	14:00	8.6	8.19	30.49	21.5	6.21	5	112	0.22	SE
B4	20190107	Fine	Moderate	Mid-Ebb	S	1	14:01	8.59	8.07	30.35	21.5	2.12	5	112	0.56	SE
B4	20190107	Fine	Moderate	Mid-Ebb	S	1	14:01	8.53	8.1	30.3	21.4	2.22	6	114	0.54	SE
C2	20190109	Fine	Light	Mid-Flood	B	9.3	9:20	9.14	8.01	30.47	20.8	8.26	8	112	0.15	NE
C2	20190109	Fine	Light	Mid-Flood	B	9.3	9:20	9.08	8.04	30.26	20.8	8.22	9	113	0.17	NE
C2	20190109	Fine	Light	Mid-Flood	M	5.2	9:21	9.16	8.02	29.62	20.8	6.23	7	112	0.27	NE
C2	20190109	Fine	Light	Mid-Flood	M	5.2	9:21	9.22	8.04	30.29	20.8	6.15	8	112	0.26	NE

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 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C2	20190109	Fine	Light	Mid-Flood	S	1	9:22	9.17	8.19	30.33	20.9	4.08	6	114	0.42	NE
C2	20190109	Fine	Light	Mid-Flood	S	1	9:23	9.17	8.13	29.75	20.9	4.06	7	113	0.4	E
CR1	20190109	Fine	Light	Mid-Flood	B	8.8	9:31	9.19	8.16	30.05	20.8	7.56	7	113	0.18	NW
CR1	20190109	Fine	Light	Mid-Flood	B	8.8	9:32	9.18	8.16	30.42	20.8	7.63	7	114	0.16	NW
CR1	20190109	Fine	Light	Mid-Flood	M	4.9	9:32	9.15	8.07	30.25	20.8	5.65	8	112	0.25	NW
CR1	20190109	Fine	Light	Mid-Flood	M	4.9	9:33	9.2	8.19	30.31	20.8	5.57	9	113	0.25	NW
CR1	20190109	Fine	Light	Mid-Flood	S	1	9:34	9.15	8.1	29.77	20.9	3.82	11	114	0.44	NW
CR1	20190109	Fine	Light	Mid-Flood	S	1	9:34	9.1	8	30.38	20.8	3.82	10	112	0.45	NW
S3	20190109	Fine	Light	Mid-Flood	B	11.4	9:43	9.55	8.06	29.53	20.9	8.04	6	114	0.24	W
S3	20190109	Fine	Light	Mid-Flood	B	11.4	9:44	9.5	8.05	29.65	20.9	7.96	7	113	0.26	W
S3	20190109	Fine	Light	Mid-Flood	M	6.2	9:44	9.4	8.07	29.63	20.8	5.96	7	113	0.34	W
S3	20190109	Fine	Light	Mid-Flood	M	6.2	9:45	9.3	8.08	30.44	20.9	5.87	6	112	0.36	W
S3	20190109	Fine	Light	Mid-Flood	S	1	9:45	9.29	8.03	29.88	20.9	4.02	7	113	0.39	W
S3	20190109	Fine	Light	Mid-Flood	S	1	9:46	9.28	8.13	30	20.9	3.96	7	111	0.38	W
M1	20190109	Fine	Light	Mid-Flood	B	7.8	9:46	9.25	8.11	29.85	20.8	7.9	8	113	0.18	NW
M1	20190109	Fine	Light	Mid-Flood	B	7.8	9:46	9.21	8.13	29.65	20.9	7.87	10	114	0.18	NW
M1	20190109	Fine	Light	Mid-Flood	M	4.4	9:47	9.27	8.2	29.85	20.8	6.4	8	112	0.33	NW
M1	20190109	Fine	Light	Mid-Flood	M	4.4	9:47	9.23	8.11	30.02	20.9	6.41	7	114	0.35	NW
M1	20190109	Fine	Light	Mid-Flood	S	1	9:48	9.26	8.17	29.92	20.9	4.33	9	113	0.43	NW
M1	20190109	Fine	Light	Mid-Flood	S	1	9:49	9.26	8.02	30.41	20.8	4.3	8	113	0.45	NW
CR2	20190109	Fine	Light	Mid-Flood	B	8.7	9:50	9.38	8.06	29.76	20.8	7.93	6	114	0.16	W
CR2	20190109	Fine	Light	Mid-Flood	B	8.7	9:51	9.32	8.19	29.74	20.9	7.83	5	114	0.17	W
CR2	20190109	Fine	Light	Mid-Flood	M	4.9	9:52	9.23	8.18	30.12	20.8	6.17	6	113	0.29	W
CR2	20190109	Fine	Light	Mid-Flood	M	4.9	9:52	9.2	8.09	30.21	20.8	6.2	5	114	0.29	W
CR2	20190109	Fine	Light	Mid-Flood	S	1	9:53	9.12	8	30.48	20.9	3.9	7	113	0.38	WW
CR2	20190109	Fine	Light	Mid-Flood	S	1	9:53	9.21	8.13	29.77	20.8	4	6	114	0.38	W
C1	20190109	Fine	Light	Mid-Flood	B	11.3	10:15	8.77	8.07	30.04	20.9	8.16	7	112	0.25	NW
C1	20190109	Fine	Light	Mid-Flood	B	11.3	10:16	8.8	8.02	30.38	20.8	8.14	6	112	0.27	NW
C1	20190109	Fine	Light	Mid-Flood	M	6.2	10:16	8.85	8.11	30.28	20.8	5.84	7	114	0.29	NW
C1	20190109	Fine	Light	Mid-Flood	M	6.2	10:17	8.87	8.03	30.48	20.9	5.94	6	112	0.31	NW
C1	20190109	Fine	Light	Mid-Flood	S	1	10:17	8.86	8.06	29.67	20.9	4.05	7	113	0.45	NW
C1	20190109	Fine	Light	Mid-Flood	S	1	10:18	8.86	8.1	29.88	20.8	4.06	7	115	0.46	NW



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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
F1	20190109	Fine	Light	Mid-Flood	B	7.8	10:15	9.33	8.1	30.36	20.8	8.07	8	114	0.21	NW
F1	20190109	Fine	Light	Mid-Flood	B	7.8	10:15	9.33	8.09	30.36	20.9	8.06	8	114	0.2	W
F1	20190109	Fine	Light	Mid-Flood	M	4.4	10:16	9.36	8.06	29.72	20.9	6.02	7	113	0.32	NW
F1	20190109	Fine	Light	Mid-Flood	M	4.4	10:17	9.33	8.07	30.09	20.8	6.04	8	112	0.33	NW
F1	20190109	Fine	Light	Mid-Flood	S	1	10:17	9.24	8.06	29.75	20.8	4.4	6	113	0.39	NW
F1	20190109	Fine	Light	Mid-Flood	S	1	10:18	9.25	8.13	30.14	20.8	4.37	7	113	0.4	NW
B1	20190109	Fine	Light	Mid-Flood	B	4.8	10:40	8.88	8.15	29.85	20.8	7.79	6	113	0.18	NW
B1	20190109	Fine	Light	Mid-Flood	B	4.8	10:41	8.96	8.19	29.97	20.9	7.85	6	114	0.17	NW
B1	20190109	Fine	Light	Mid-Flood	S	1	10:42	8.94	8.01	29.74	20.8	3.76	4	115	0.38	NW
B1	20190109	Fine	Light	Mid-Flood	S	1	10:42	8.93	8.09	30.13	20.9	3.72	4	112	0.37	NW
S1	20190109	Fine	Light	Mid-Flood	B	8.1	10:52	8.72	8.2	29.63	20.8	7.75	5	113	0.19	N
S1	20190109	Fine	Light	Mid-Flood	B	8.1	10:52	8.82	8.06	30.31	20.9	7.77	6	113	0.18	N
S1	20190109	Fine	Light	Mid-Flood	S	1	10:53	8.82	8.2	30.26	20.8	3.5	7	112	0.41	N
S1	20190109	Fine	Light	Mid-Flood	S	1	10:54	8.75	8.1	30.08	20.8	3.5	7	114	0.42	N
H1	20190109	Fine	Light	Mid-Flood	B	7.9	10:55	9.34	8.02	30.43	20.9	8.07	8	113	0.22	W
H1	20190109	Fine	Light	Mid-Flood	B	7.9	10:56	9.37	8.18	30.01	20.9	8	7	112	0.22	W
H1	20190109	Fine	Light	Mid-Flood	M	4.5	10:57	9.33	8.11	30.43	20.9	6.21	7	112	0.26	W
H1	20190109	Fine	Light	Mid-Flood	M	4.5	10:57	9.33	8.1	29.81	20.9	6.13	8	113	0.28	W
H1	20190109	Fine	Light	Mid-Flood	S	1	10:58	9.41	8.04	30.23	20.9	3.65	6	115	0.39	W
H1	20190109	Fine	Light	Mid-Flood	S	1	10:58	9.46	8.16	30.32	20.9	3.67	6	113	0.39	
B2	20190109	Fine	Light	Mid-Flood	B	4.7	11:03	9.06	8.2	30.06	20.9	7.66	4	112	0.23	N
B2	20190109	Fine	Light	Mid-Flood	B	4.7	11:04	9.14	8.09	30.48	20.9	7.71	4	113	0.22	N
B2	20190109	Fine	Light	Mid-Flood	S	1	11:04	9.08	8.16	30.1	20.8	3.82	5	113	0.42	N
B2	20190109	Fine	Light	Mid-Flood	S	1	11:05	9.17	8.1	30.36	20.9	3.91	4	112	0.41	N
B3	20190109	Fine	Light	Mid-Flood	B	4.8	11:12	9.41	8.13	30.29	20.9	7.95	8	113	0.25	NW
B3	20190109	Fine	Light	Mid-Flood	B	4.8	11:12	9.38	8.04	29.87	20.8	7.97	8	114	0.27	NW
B3	20190109	Fine	Light	Mid-Flood	S	1	11:13	9.29	8.01	30.38	20.9	3.76	7	113	0.41	NW
B3	20190109	Fine	Light	Mid-Flood	S	1	11:13	9.39	8.09	29.78	20.8	3.85	6	112	0.39	NW
S2	20190109	Fine	Light	Mid-Flood	B	8.3	11:19	8.71	8.11	29.65	20.9	8.13	6	114	0.25	W
S2	20190109	Fine	Light	Mid-Flood	B	8.3	11:20	8.74	8.14	29.95	20.8	8.19	5	113	0.25	W
S2	20190109	Fine	Light	Mid-Flood	M	4.7	11:20	8.77	8.09	29.83	20.8	6.24	6	114	0.35	W
S2	20190109	Fine	Light	Mid-Flood	M	4.7	11:21	8.78	8.08	30.37	20.9	6.23	7	112	0.34	W

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
S2	20190109	Fine	Light	Mid-Flood	S	1	11:21	8.8	8.18	30.04	20.8	3.75	6	112	0.4	W
S2	20190109	Fine	Light	Mid-Flood	S	1	11:22	8.79	8.02	30.04	20.9	3.68	7	113	0.41	W
B4	20190109	Fine	Light	Mid-Flood	B	4.7	11:27	9.39	8.14	29.56	20.8	8.16	7	113	0.22	N
B4	20190109	Fine	Light	Mid-Flood	B	4.7	11:27	9.48	8.11	29.65	20.9	8.23	7	113	0.21	N
B4	20190109	Fine	Light	Mid-Flood	S	1	11:28	9.55	8.03	30	20.8	3.62	6	112	0.42	N
B4	20190109	Fine	Light	Mid-Flood	S	1	11:29	9.65	8.18	29.65	20.8	3.61	6	113	0.44	N
C1	20190109	Cloudy	Moderate	Mid-Ebb	B	10.1	13:03	9.54	8.13	29.63	20.9	7.8	5	113	0.22	E
C1	20190109	Cloudy	Moderate	Mid-Ebb	B	10.1	13:04	9.44	8.11	29.91	20.9	7.77	6	114	0.22	E
C1	20190109	Cloudy	Moderate	Mid-Ebb	M	5.6	13:04	9.46	8.05	29.52	20.9	5.92	4	112	0.25	E
C1	20190109	Cloudy	Moderate	Mid-Ebb	M	5.6	13:05	9.48	8.18	30.47	20.9	5.86	4	114	0.23	E
C1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:06	9.55	8.16	30	20.8	3.86	5	114	0.44	E
C1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:06	9.65	8.09	29.69	20.9	3.85	4	112	0.44	E
M1	20190109	Cloudy	Moderate	Mid-Ebb	B	7.2	13:05	9.13	8.05	30.45	20.8	7.78	9	113	0.22	SE
M1	20190109	Cloudy	Moderate	Mid-Ebb	B	7.2	13:05	9.03	8.05	30.2	20.8	7.76	8	113	0.24	SE
M1	20190109	Cloudy	Moderate	Mid-Ebb	M	4.1	13:06	9.07	8.13	29.58	20.8	6.37	6	113	0.33	SE
M1	20190109	Cloudy	Moderate	Mid-Ebb	M	4.1	13:07	9.09	8.2	30.21	20.8	6.39	7	112	0.35	SE
M1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:07	9.09	8.04	30.27	20.8	3.5	8	113	0.39	SE
M1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:08	9.06	8	30.47	20.9	3.6	7	112	0.37	SE
B1	20190109	Cloudy	Moderate	Mid-Ebb	B	4.5	13:29	9.31	8.16	30.38	20.8	8.21	4	113	0.17	SE
B1	20190109	Cloudy	Moderate	Mid-Ebb	B	4.5	13:29	9.36	8.12	30.28	20.8	8.29	5	114	0.17	SE
B1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:30	9.44	8.05	30.45	20.9	4.4	4	113	0.41	SE
B1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:30	9.5	8.03	30.21	20.8	4.31	5	113	0.43	SE
S1	20190109	Cloudy	Moderate	Mid-Ebb	B	4.3	13:40	9.08	8.01	29.84	20.8	8.48	4	114	0.17	E
S1	20190109	Cloudy	Moderate	Mid-Ebb	B	4.3	13:41	9.12	8	29.5	20.9	8.51	4	113	0.15	E
S1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:41	9.08	8.1	29.83	20.8	4.03	4	114	0.42	E
S1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:42	9.04	8.11	30.11	20.8	3.95	4	114	0.4	E
F1	20190109	Cloudy	Moderate	Mid-Ebb	B	7.4	13:47	9.67	8.08	30.39	20.8	8.14	6	114	0.15	SE
F1	20190109	Cloudy	Moderate	Mid-Ebb	B	7.4	13:48	9.63	8.04	29.89	20.9	8.05	5	113	0.13	SE
F1	20190109	Cloudy	Moderate	Mid-Ebb	M	4.2	13:49	9.72	8.2	30.03	20.9	5.76	6	112	0.32	SE
F1	20190109	Cloudy	Moderate	Mid-Ebb	M	4.2	13:49	9.7	8.08	30.18	20.8	5.74	4	113	0.33	SE
F1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:50	9.67	8	30.21	20.9	3.98	5	112	0.43	SE
F1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:51	9.74	8.18	29.84	20.8	3.97	6	113	0.44	SE

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B2	20190109	Cloudy	Moderate	Mid-Ebb	B	4.4	13:55	9.55	8.18	30.02	20.9	7.97	6	113	0.18	SE
B2	20190109	Cloudy	Moderate	Mid-Ebb	B	4.4	13:56	9.52	8.2	30.45	20.9	7.87	4	112	0.16	SE
B2	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:56	9.46	8.07	30.14	20.8	4.23	5	114	0.35	SE
B2	20190109	Cloudy	Moderate	Mid-Ebb	S	1	13:57	9.42	8.17	30.47	20.8	4.22	6	113	0.37	SE
C2	20190109	Cloudy	Moderate	Mid-Ebb	B	8.9	14:11	9.67	8.1	30	20.9	8.45	5	112	0.2	S
C2	20190109	Cloudy	Moderate	Mid-Ebb	B	8.9	14:11	9.67	8.19	30.22	20.8	8.53	5	114	0.21	S
C2	20190109	Cloudy	Moderate	Mid-Ebb	M	5	14:12	9.77	8.05	30.38	20.9	5.7	4	112	0.27	S
C2	20190109	Cloudy	Moderate	Mid-Ebb	M	5	14:12	9.77	8.15	30.02	20.8	5.68	4	113	0.26	S
C2	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:13	9.82	8.2	29.69	20.9	4.24	4	112	0.4	S
C2	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:14	9.78	8	30.4	20.9	4.32	3	113	0.38	S
S2	20190109	Cloudy	Moderate	Mid-Ebb	B	8	14:11	9.08	8.03	30.23	20.8	7.95	11	112	0.23	SE
S2	20190109	Cloudy	Moderate	Mid-Ebb	B	8	14:12	9	8.14	29.81	20.8	7.95	12	113	0.25	SE
S2	20190109	Cloudy	Moderate	Mid-Ebb	M	4.5	14:13	9.05	8.11	30.41	20.8	6.13	8	114	0.3	SE
S2	20190109	Cloudy	Moderate	Mid-Ebb	M	4.5	14:13	9	8.01	29.59	20.9	6.1	8	112	0.31	SE
S2	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:14	9.08	8.02	30.5	20.8	4.27	7	114	0.45	SE
S2	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:14	9.02	8.19	29.53	20.9	4.18	6	113	0.47	SE
S3	20190109	Cloudy	Moderate	Mid-Ebb	B	10.7	14:27	9.76	8.18	29.69	20.9	8.45	6	114	0.22	SE
S3	20190109	Cloudy	Moderate	Mid-Ebb	B	10.7	14:28	9.78	8.04	29.92	20.8	8.41	6	114	0.23	SE
S3	20190109	Cloudy	Moderate	Mid-Ebb	M	5.9	14:28	9.81	8.13	30.36	20.8	5.84	8	112	0.32	S
S3	20190109	Cloudy	Moderate	Mid-Ebb	M	5.9	14:29	9.74	8.11	29.82	20.8	5.76	7	112	0.32	SE
S3	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:30	9.84	8.2	30.48	20.8	4.43	10	113	0.43	SE
S3	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:30	9.82	8.12	29.95	20.9	4.44	10	114	0.43	SE
H1	20190109	Cloudy	Moderate	Mid-Ebb	B	7.5	14:31	9.11	8.13	30.37	20.8	8.18	4	112	0.21	E
H1	20190109	Cloudy	Moderate	Mid-Ebb	B	7.5	14:31	9.05	8.11	30	20.9	8.18	5	113	0.22	E
H1	20190109	Cloudy	Moderate	Mid-Ebb	M	4.3	14:32	9.08	8.03	30.46	20.8	5.72	4	113	0.33	E
H1	20190109	Cloudy	Moderate	Mid-Ebb	M	4.3	14:33	9.13	8.03	30.01	20.9	5.64	5	113	0.31	E
H1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:33	9.1	8.01	29.84	20.8	4.22	5	112	0.44	E
H1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:34	9.13	8.2	29.57	20.9	4.26	4	113	0.46	E
B3	20190109	Cloudy	Moderate	Mid-Ebb	B	4.2	14:46	8.86	8.18	29.72	20.9	7.97	8	113	0.2	SE
B3	20190109	Cloudy	Moderate	Mid-Ebb	B	4.2	14:46	8.89	8.19	29.83	20.9	8.04	8	113	0.18	SE
B3	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:47	8.89	8.19	30.27	20.8	4.39	7	113	0.44	SE
B3	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:48	8.88	8.12	29.56	20.8	4.46	6	112	0.46	SE

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
CR2	20190109	Cloudy	Moderate	Mid-Ebb	B	8	14:48	8.84	8.07	29.94	20.8	7.79	10	113	0.17	E
CR2	20190109	Cloudy	Moderate	Mid-Ebb	B	8	14:49	8.8	8.11	30.39	20.9	7.84	10	112	0.19	E
CR2	20190109	Cloudy	Moderate	Mid-Ebb	M	4.5	14:49	8.78	8.11	29.72	20.9	5.78	11	113	0.31	E
CR2	20190109	Cloudy	Moderate	Mid-Ebb	M	4.5	14:50	8.79	8.08	29.63	20.8	5.73	12	113	0.29	E
CR2	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:51	8.84	8.04	29.62	20.8	3.56	7	113	0.38	E
CR2	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:51	8.78	8.1	30.28	20.8	3.63	8	114	0.4	E
CR1	20190109	Cloudy	Moderate	Mid-Ebb	B	8.4	14:57	8.77	8.01	30.31	20.9	7.8	7	114	0.18	S
CR1	20190109	Cloudy	Moderate	Mid-Ebb	B	8.4	14:58	8.68	8.04	30.37	20.8	7.89	7	114	0.16	S
CR1	20190109	Cloudy	Moderate	Mid-Ebb	M	4.7	14:58	8.76	8.11	30.29	20.8	5.63	8	114	0.27	S
CR1	20190109	Cloudy	Moderate	Mid-Ebb	M	4.7	14:59	8.72	8.2	29.83	20.8	5.69	8	114	0.27	S
CR1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	14:59	8.65	8.04	30.45	20.9	3.79	7	113	0.45	S
CR1	20190109	Cloudy	Moderate	Mid-Ebb	S	1	15:00	8.75	8.17	29.95	20.9	3.83	7	114	0.46	S
B4	20190109	Cloudy	Moderate	Mid-Ebb	B	4.3	15:05	9.12	8.1	30.44	20.9	7.84	6	113	0.22	SE
B4	20190109	Cloudy	Moderate	Mid-Ebb	B	4.3	15:05	9.06	8.15	30.3	20.8	7.87	6	112	0.21	SE
B4	20190109	Cloudy	Moderate	Mid-Ebb	S	1	15:06	9.01	8.05	30.44	20.8	3.58	7	113	0.41	SE
B4	20190109	Cloudy	Moderate	Mid-Ebb	S	1	15:06	8.97	8.09	30.32	20.9	3.54	7	113	0.43	SE
C2	20190111	Cloudy	Moderate	Mid-Flood	B	9.3	8:59	8.27	8	29.68	20.2	6.34	4	112	0.17	NE
C2	20190111	Cloudy	Moderate	Mid-Flood	B	9.3	8:59	8.23	8.03	30.49	20.2	6.26	4	113	0.16	NE
C2	20190111	Cloudy	Moderate	Mid-Flood	M	5.2	9:00	8.32	8.06	30.32	20.2	5.07	5	113	0.29	NE
C2	20190111	Cloudy	Moderate	Mid-Flood	M	5.2	9:00	8.3	8.02	30.13	20.3	5.13	5	113	0.31	NE
C2	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:01	8.32	8.08	30.07	20.2	3.72	6	111	0.45	NE
C2	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:02	8.35	8.09	30.04	20.3	3.8	6	113	0.45	NE
CR1	20190111	Cloudy	Moderate	Mid-Flood	B	8.9	9:12	8.73	8.1	29.67	20.3	6.43	5	114	0.17	NE
CR1	20190111	Cloudy	Moderate	Mid-Flood	B	8.9	9:13	8.72	8.09	29.65	20.3	6.47	5	113	0.16	NW
CR1	20190111	Cloudy	Moderate	Mid-Flood	M	5	9:13	8.74	8.07	29.67	20.3	5.12	5	113	0.28	NW
CR1	20190111	Cloudy	Moderate	Mid-Flood	M	5	9:14	8.8	8.16	30.55	20.3	5.02	5	113	0.26	NW
CR1	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:15	8.78	8.08	30.09	20.2	3.88	4	113	0.36	NW
CR1	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:15	8.79	8.12	30.14	20.2	3.88	4	112	0.37	NW
S3	20190111	Cloudy	Moderate	Mid-Flood	B	11.3	9:25	9.24	8.03	29.99	20.3	6.23	5	112	0.2	W
S3	20190111	Cloudy	Moderate	Mid-Flood	B	11.3	9:26	9.28	8.18	30.4	20.2	6.27	5	113	0.18	W
S3	20190111	Cloudy	Moderate	Mid-Flood	M	6.2	9:26	9.18	8.19	30.24	20.2	5.04	6	113	0.25	W
S3	20190111	Cloudy	Moderate	Mid-Flood	M	6.2	9:27	9.12	8.14	30.09	20.3	4.96	6	114	0.26	W

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
S3	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:27	9.12	8.11	29.81	20.3	3.69	5	113	0.37	W
S3	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:28	9.04	8.16	29.8	20.2	3.62	5	114	0.35	W
M1	20190111	Cloudy	Moderate	Mid-Flood	B	7.9	9:29	9.24	8.12	30.7	20.3	6.26	4	114	0.25	NW
M1	20190111	Cloudy	Moderate	Mid-Flood	B	7.9	9:29	9.14	8.16	30.13	20.2	6.34	5	114	0.23	NW
M1	20190111	Cloudy	Moderate	Mid-Flood	M	4.5	9:30	9.06	8.12	29.73	20.3	5.24	4	112	0.31	NW
M1	20190111	Cloudy	Moderate	Mid-Flood	M	4.5	9:30	9.05	8.12	29.79	20.2	5.3	4	114	0.31	NW
M1	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:31	9.14	8.14	29.91	20.2	3.16	3	113	0.39	NW
M1	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:32	9.09	8.09	30.65	20.3	3.21	3	113	0.39	NW
CR2	20190111	Cloudy	Moderate	Mid-Flood	B	8.6	9:35	8.56	8.04	29.66	20.2	5.65	3	113	0.21	NW
CR2	20190111	Cloudy	Moderate	Mid-Flood	B	8.6	9:36	8.5	8.05	29.88	20.3	5.69	3	114	0.2	NW
CR2	20190111	Cloudy	Moderate	Mid-Flood	M	4.8	9:37	8.4	8.1	30.4	20.2	5.07	3	112	0.26	NW
CR2	20190111	Cloudy	Moderate	Mid-Flood	M	4.8	9:37	8.5	8.08	30.16	20.2	5.03	4	112	0.27	NW
CR2	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:38	8.6	8.07	30.5	20.3	3.39	3	113	0.36	NW
CR2	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:38	8.56	8.02	30.43	20.3	3.31	2	113	0.35	NW
F1	20190111	Cloudy	Moderate	Mid-Flood	B	7.9	9:57	8.74	8.16	30.64	20.3	6.26	7	113	0.19	NW
F1	20190111	Cloudy	Moderate	Mid-Flood	B	7.9	9:58	8.73	8.07	30.62	20.2	6.19	6	113	0.21	NW
F1	20190111	Cloudy	Moderate	Mid-Flood	M	4.5	9:58	8.71	8.15	30.28	20.2	5.46	7	113	0.34	NW
F1	20190111	Cloudy	Moderate	Mid-Flood	M	4.5	9:59	8.67	8.17	29.65	20.3	5.45	7	113	0.36	NW
F1	20190111	Cloudy	Moderate	Mid-Flood	S	1	9:59	8.67	8.06	30.55	20.2	3.91	5	114	0.37	NW
F1	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:00	8.76	8.15	30.04	20.2	3.87	5	113	0.36	NW
C1	20190111	Cloudy	Moderate	Mid-Flood	B	11.5	10:02	8.95	8.11	29.8	20.2	6.18	4	113	0.23	NW
C1	20190111	Cloudy	Moderate	Mid-Flood	B	11.5	10:02	9.03	8.01	29.99	20.2	6.14	4	112	0.24	NW
C1	20190111	Cloudy	Moderate	Mid-Flood	M	6.3	10:03	9.05	8.14	30.16	20.2	4.9	3	114	0.32	NW
C1	20190111	Cloudy	Moderate	Mid-Flood	M	6.3	10:04	9.06	8.14	30.34	20.3	4.85	3	113	0.32	NW
C1	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:04	8.98	8.04	30.52	20.3	3.34	4	112	0.43	W
C1	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:05	9.07	8.15	30.45	20.3	3.24	4	112	0.44	W
B1	20190111	Cloudy	Moderate	Mid-Flood	B	4.7	10:26	9.19	8.12	30.64	20.3	6	9	112	0.24	NW
B1	20190111	Cloudy	Moderate	Mid-Flood	B	4.7	10:27	9.2	8.04	29.72	20.3	6.07	8	114	0.25	NW
B1	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:28	9.23	8.04	30.69	20.2	3.29	8	114	0.35	NW
B1	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:28	9.28	8.1	30.07	20.2	3.22	7	112	0.34	NW
H1	20190111	Cloudy	Moderate	Mid-Flood	B	7.8	10:38	8.88	8	29.62	20.3	6.21	7	112	0.22	NW
H1	20190111	Cloudy	Moderate	Mid-Flood	B	7.8	10:38	8.81	8.19	30.59	20.3	6.13	7	112	0.2	W

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
H1	20190111	Cloudy	Moderate	Mid-Flood	M	4.4	10:39	8.74	8.11	30.42	20.3	4.5	6	112	0.34	W
H1	20190111	Cloudy	Moderate	Mid-Flood	M	4.4	10:40	8.8	8.16	29.97	20.3	4.51	7	112	0.32	W
H1	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:40	8.77	8	30.05	20.3	3.47	5	112	0.44	W
H1	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:41	8.73	8.03	30.15	20.3	3.47	5	113	0.44	W
S1	20190111	Cloudy	Moderate	Mid-Flood	B	4.9	10:39	8.92	8.11	30.17	20.3	5.97	5	113	0.16	N
S1	20190111	Cloudy	Moderate	Mid-Flood	B	4.9	10:39	8.98	8.19	30.31	20.3	5.98	6	112	0.18	N
S1	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:40	9.06	8.12	29.91	20.2	3.62	3	113	0.38	N
S1	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:40	9.16	8.17	29.79	20.2	3.59	2	113	0.4	N
B2	20190111	Cloudy	Moderate	Mid-Flood	B	4.8	10:51	8.48	8.12	30.09	20.2	6.12	5	112	0.15	N
B2	20190111	Cloudy	Moderate	Mid-Flood	B	4.8	10:52	8.46	8.02	30.33	20.3	6.18	4	113	0.14	N
B2	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:52	8.54	8.01	29.72	20.2	3.62	3	114	0.42	N
B2	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:53	8.6	8	30.4	20.2	3.68	3	113	0.44	N
B3	20190111	Cloudy	Moderate	Mid-Flood	B	4.8	10:54	9.2	8.01	29.95	20.3	6.14	6	114	0.16	NW
B3	20190111	Cloudy	Moderate	Mid-Flood	B	4.8	10:54	9.16	8.16	30.45	20.2	6.13	7	113	0.15	NW
B3	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:55	9.21	8.04	30.46	20.2	3.3	4	111	0.42	NW
B3	20190111	Cloudy	Moderate	Mid-Flood	S	1	10:55	9.13	8	30.17	20.3	3.2	4	112	0.41	NW
B4	20190111	Cloudy	Moderate	Mid-Flood	B	4.6	11:05	8.37	8.13	30.7	20.3	5.78	4	113	0.24	N
B4	20190111	Cloudy	Moderate	Mid-Flood	B	4.6	11:06	8.34	8.15	30.44	20.2	5.87	3	114	0.25	N
B4	20190111	Cloudy	Moderate	Mid-Flood	S	1	11:06	8.37	8.17	30.04	20.3	3.74	3	113	0.37	N
B4	20190111	Cloudy	Moderate	Mid-Flood	S	1	11:07	8.28	8.07	30.31	20.3	3.76	3	114	0.37	N
S2	20190111	Cloudy	Moderate	Mid-Flood	B	8.4	11:07	8.87	8.18	30.55	20.2	6.37	2	114	0.15	NW
S2	20190111	Cloudy	Moderate	Mid-Flood	B	8.4	11:08	8.81	8.01	30.56	20.3	6.46	3	113	0.16	NW
S2	20190111	Cloudy	Moderate	Mid-Flood	M	4.7	11:09	8.89	8.12	30.08	20.3	5.01	4	113	0.35	W
S2	20190111	Cloudy	Moderate	Mid-Flood	M	4.7	11:09	8.97	8.15	29.64	20.3	4.98	4	113	0.34	W
S2	20190111	Cloudy	Moderate	Mid-Flood	S	1	11:10	9.03	8.15	29.83	20.3	3.52	4	112	0.38	W
S2	20190111	Cloudy	Moderate	Mid-Flood	S	1	11:11	8.95	8.01	30.22	20.2	3.61	3	113	0.38	W
C1	20190111	Sunny	Moderate	Mid-Ebb	B	10.3	14:18	8.23	8.04	30.47	20.3	5.9	10	113	0.23	SE
C1	20190111	Sunny	Moderate	Mid-Ebb	B	10.3	14:19	8.17	8.17	29.78	20.3	5.91	11	113	0.23	SE
C1	20190111	Sunny	Moderate	Mid-Ebb	M	5.7	14:19	8.13	8.2	30	20.2	4.56	6	113	0.34	E
C1	20190111	Sunny	Moderate	Mid-Ebb	M	5.7	14:20	8.14	8.02	30.53	20.3	4.59	6	113	0.34	E
C1	20190111	Sunny	Moderate	Mid-Ebb	S	1	14:21	8.15	8.14	29.79	20.3	3.31	6	113	0.37	E
C1	20190111	Sunny	Moderate	Mid-Ebb	S	1	14:21	8.19	8.07	30.68	20.3	3.21	7	113	0.39	E

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Integrated Waste Management Facilities, Phase 1  
Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
M1	20190111	Sunny	Moderate	Mid-Ebb	B	7.3	14:21	8.46	8.18	29.72	20.3	5.88	12	112	0.16	SE
M1	20190111	Sunny	Moderate	Mid-Ebb	B	7.3	14:21	8.37	8.06	29.89	20.2	5.96	13	112	0.17	SE
M1	20190111	Sunny	Moderate	Mid-Ebb	M	4.2	14:22	8.39	8.04	30.01	20.2	4.64	8	113	0.29	SE
M1	20190111	Sunny	Moderate	Mid-Ebb	M	4.2	14:23	8.43	8.08	29.72	20.3	4.57	10	112	0.27	SE
M1	20190111	Sunny	Moderate	Mid-Ebb	S	1	14:23	8.5	8.06	29.97	20.2	3.91	8	112	0.37	SE
M1	20190111	Sunny	Moderate	Mid-Ebb	S	1	14:24	8.4	8.17	29.94	20.2	3.85	9	113	0.35	SE
B1	20190111	Sunny	Moderate	Mid-Ebb	B	4.4	14:40	8.92	8.1	30.22	20.2	6.12	3	112	0.21	NE
B1	20190111	Sunny	Moderate	Mid-Ebb	B	4.4	14:40	8.93	8.01	30.28	20.2	6.18	4	114	0.19	NE
B1	20190111	Sunny	Moderate	Mid-Ebb	S	1	14:41	8.98	8.19	30.25	20.2	3.69	3	114	0.38	NE
B1	20190111	Sunny	Moderate	Mid-Ebb	S	1	14:41	8.96	8.07	30.23	20.2	3.7	3	113	0.36	NE
S1	20190111	Sunny	Moderate	Mid-Ebb	B	4.3	14:52	8.44	8.16	29.94	20.3	5.64	5	113	0.24	E
S1	20190111	Sunny	Moderate	Mid-Ebb	B	4.3	14:53	8.42	8	30.26	20.3	5.66	6	113	0.23	E
S1	20190111	Sunny	Moderate	Mid-Ebb	S	1	14:53	8.37	8.1	29.8	20.2	3.87	6	113	0.45	E
S1	20190111	Sunny	Moderate	Mid-Ebb	S	1	14:54	8.47	8.11	29.63	20.3	3.9	5	113	0.47	E
F1	20190111	Sunny	Moderate	Mid-Ebb	B	7.3	14:51	8.38	8.07	30.12	20.2	5.88	7	114	0.23	E
F1	20190111	Sunny	Moderate	Mid-Ebb	B	7.3	14:52	8.36	8.04	30.47	20.3	5.84	7	113	0.21	E
F1	20190111	Sunny	Moderate	Mid-Ebb	M	4.2	14:53	8.29	8.06	29.6	20.3	4.93	9	113	0.34	SE
F1	20190111	Sunny	Moderate	Mid-Ebb	M	4.2	14:53	8.34	8.03	30.4	20.2	4.9	8	113	0.33	SE
F1	20190111	Sunny	Moderate	Mid-Ebb	S	1	14:54	8.25	8.11	29.91	20.2	3.91	7	113	0.43	SE
F1	20190111	Sunny	Moderate	Mid-Ebb	S	1	14:55	8.16	8.19	30.29	20.3	3.98	7	114	0.41	SE
B2	20190111	Sunny	Moderate	Mid-Ebb	B	4.3	15:05	8.4	8.12	30.08	20.2	5.72	5	113	0.16	SE
B2	20190111	Sunny	Moderate	Mid-Ebb	B	4.3	15:06	8.49	8.19	30.6	20.2	5.82	6	111	0.18	SE
B2	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:06	8.58	8.04	29.87	20.3	3.39	4	115	0.43	SE
B2	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:07	8.5	8.14	30.46	20.2	3.29	4	114	0.43	SE
S2	20190111	Sunny	Moderate	Mid-Ebb	B	7.9	15:22	8.22	8.11	29.75	20.2	5.69	6	114	0.16	SE
S2	20190111	Sunny	Moderate	Mid-Ebb	B	7.9	15:22	8.23	8.07	29.84	20.2	5.78	6	113	0.15	SE
S2	20190111	Sunny	Moderate	Mid-Ebb	M	4.5	15:23	8.3	8.14	29.91	20.3	5.31	5	114	0.29	SE
S2	20190111	Sunny	Moderate	Mid-Ebb	M	4.5	15:23	8.37	8.08	30.27	20.3	5.4	6	114	0.31	SE
S2	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:24	8.36	8.19	30.55	20.2	3.21	6	114	0.41	SE
S2	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:25	8.34	8.05	30.07	20.3	3.14	6	113	0.42	SE
C2	20190111	Sunny	Moderate	Mid-Ebb	B	8.7	15:22	9.09	8.18	30.04	20.3	6.14	10	113	0.24	S
C2	20190111	Sunny	Moderate	Mid-Ebb	B	8.7	15:23	9.02	8.17	30.33	20.2	6.04	10	113	0.23	S

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C2	20190111	Sunny	Moderate	Mid-Ebb	M	4.9	15:24	9.02	8.09	30.03	20.3	4.52	10	114	0.3	S
C2	20190111	Sunny	Moderate	Mid-Ebb	M	4.9	15:24	9.02	8.13	29.9	20.2	4.53	10	114	0.31	S
C2	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:25	9.05	8.13	29.77	20.3	3.43	6	114	0.39	S
C2	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:25	9.07	8.02	29.84	20.2	3.48	5	114	0.41	S
CR2	20190111	Sunny	Moderate	Mid-Ebb	B	7.9	15:36	8.64	8.18	29.68	20.2	6.5	8	113	0.24	SE
CR2	20190111	Sunny	Moderate	Mid-Ebb	B	7.9	15:37	8.61	8.16	30.05	20.3	6.55	8	113	0.26	SE
CR2	20190111	Sunny	Moderate	Mid-Ebb	M	4.5	15:37	8.67	8.12	30.11	20.3	4.59	6	113	0.27	SE
CR2	20190111	Sunny	Moderate	Mid-Ebb	M	4.5	15:38	8.61	8.16	29.71	20.3	4.54	5	112	0.28	SE
CR2	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:39	8.67	8.16	30.51	20.2	3.69	6	112	0.43	SE
CR2	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:39	8.66	8.14	30.59	20.3	3.64	6	113	0.44	SE
S3	20190111	Sunny	Moderate	Mid-Ebb	B	10.6	15:45	8.61	8	30.01	20.3	6.48	8	113	0.16	SE
S3	20190111	Sunny	Moderate	Mid-Ebb	B	10.6	15:45	8.66	8	30.29	20.2	6.43	8	113	0.14	SE
S3	20190111	Sunny	Moderate	Mid-Ebb	M	5.8	15:46	8.71	8.05	29.63	20.3	5.14	8	112	0.35	SE
S3	20190111	Sunny	Moderate	Mid-Ebb	M	5.8	15:47	8.79	8.09	29.75	20.2	5.04	9	112	0.37	SE
S3	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:47	8.88	8.11	30.54	20.2	3.43	5	114	0.37	SE
S3	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:48	8.83	8.04	30.2	20.3	3.48	4	113	0.38	SE
H1	20190111	Sunny	Moderate	Mid-Ebb	B	7.7	15:44	8.59	8.18	29.74	20.3	5.75	9	113	0.24	SE
H1	20190111	Sunny	Moderate	Mid-Ebb	B	7.7	15:45	8.68	8.08	30.7	20.3	5.72	8	114	0.24	SE
H1	20190111	Sunny	Moderate	Mid-Ebb	M	4.4	15:46	8.78	8.11	29.94	20.3	5.43	8	114	0.35	SE
H1	20190111	Sunny	Moderate	Mid-Ebb	M	4.4	15:46	8.75	8.13	29.69	20.2	5.43	8	113	0.33	E
H1	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:47	8.66	8.03	29.72	20.2	3.6	8	113	0.42	E
H1	20190111	Sunny	Moderate	Mid-Ebb	S	1	15:48	8.59	8.03	29.78	20.2	3.53	9	113	0.4	E
CR1	20190111	Sunny	Moderate	Mid-Ebb	B	8.3	15:59	8.84	8.13	30.39	20.3	6.37	9	113	0.19	SE
CR1	20190111	Sunny	Moderate	Mid-Ebb	B	8.3	16:00	8.83	8.01	30.19	20.3	6.29	9	113	0.2	SE
CR1	20190111	Sunny	Moderate	Mid-Ebb	M	4.7	16:00	8.85	8.05	30	20.3	4.99	8	114	0.31	SE
CR1	20190111	Sunny	Moderate	Mid-Ebb	M	4.7	16:01	8.94	8.19	30.5	20.3	5.09	8	113	0.31	SE
CR1	20190111	Sunny	Moderate	Mid-Ebb	S	1	16:02	8.99	8.15	29.98	20.2	3.21	8	113	0.35	SE
CR1	20190111	Sunny	Moderate	Mid-Ebb	S	1	16:02	8.91	8.04	30.38	20.2	3.24	9	114	0.34	SE
B3	20190111	Sunny	Moderate	Mid-Ebb	B	4.4	16:03	8.81	8.01	30.62	20.2	6.37	7	114	0.24	E
B3	20190111	Sunny	Moderate	Mid-Ebb	B	4.4	16:03	8.85	8.19	30.69	20.2	6.36	8	113	0.23	E
B3	20190111	Sunny	Moderate	Mid-Ebb	S	1	16:04	8.95	8.04	30.03	20.2	3.11	7	113	0.36	E
B3	20190111	Sunny	Moderate	Mid-Ebb	S	1	16:05	8.91	8.02	30.4	20.3	3.06	8	114	0.38	E



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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B4	20190111	Sunny	Moderate	Mid-Ebb	B	4.2	16:13	9.29	8.08	30.23	20.2	5.77	7	113	0.24	SE
B4	20190111	Sunny	Moderate	Mid-Ebb	B	4.2	16:14	9.24	8.09	30.1	20.3	5.87	7	113	0.23	SE
B4	20190111	Sunny	Moderate	Mid-Ebb	S	1	16:15	9.34	8.13	30.64	20.3	3.97	8	112	0.39	SE
B4	20190111	Sunny	Moderate	Mid-Ebb	S	1	16:15	9.29	8.16	30.46	20.2	3.92	6	114	0.41	SE
C2	20190114	Sunny	Light	Mid-Flood	B	9.5	10:56	9.4	8.02	29.47	19.2	6.14	7	113	0.2	NE
C2	20190114	Sunny	Light	Mid-Flood	B	9.5	10:56	9.38	8.12	29.85	19.2	6.04	7	112	0.21	NE
C2	20190114	Sunny	Light	Mid-Flood	M	5.3	10:57	9.45	8.07	29.98	19.2	4.76	6	112	0.31	NE
C2	20190114	Sunny	Light	Mid-Flood	M	5.3	10:57	9.48	8.04	30.5	19.3	4.84	7	112	0.31	NE
C2	20190114	Sunny	Light	Mid-Flood	S	1	10:58	9.39	8.01	30.25	19.2	3.04	5	112	0.37	NE
C2	20190114	Sunny	Light	Mid-Flood	S	1	10:59	9.42	8.15	29.56	19.3	3.04	5	114	0.36	NE
CR1	20190114	Sunny	Light	Mid-Flood	B	8.9	11:06	9.28	8.08	30.16	19.2	6.1	4	112	0.18	NW
CR1	20190114	Sunny	Light	Mid-Flood	B	8.9	11:07	9.26	8.03	29.57	19.2	6.03	4	113	0.19	N
CR1	20190114	Sunny	Light	Mid-Flood	M	5	11:07	9.27	8.04	29.94	19.2	5.12	5	112	0.29	NW
CR1	20190114	Sunny	Light	Mid-Flood	M	5	11:08	9.2	8.18	29.7	19.3	5.21	6	113	0.29	NW
CR1	20190114	Sunny	Light	Mid-Flood	S	1	11:09	9.19	8.04	29.6	19.2	3.72	6	112	0.42	NW
CR1	20190114	Sunny	Light	Mid-Flood	S	1	11:09	9.12	8.09	30.43	19.2	3.72	6	112	0.41	NW
S3	20190114	Sunny	Light	Mid-Flood	B	11.3	11:18	9.07	8.14	29.97	19.2	6.18	4	113	0.24	W
S3	20190114	Sunny	Light	Mid-Flood	B	11.3	11:19	9.07	8.11	30.34	19.3	6.28	5	112	0.24	W
S3	20190114	Sunny	Light	Mid-Flood	M	6.2	11:19	9.13	8.06	29.56	19.3	5.35	6	112	0.25	W
S3	20190114	Sunny	Light	Mid-Flood	M	6.2	11:20	9.07	8.17	30.36	19.2	5.44	6	113	0.25	W
S3	20190114	Sunny	Light	Mid-Flood	S	1	11:20	9.09	8.12	29.78	19.3	3.01	6	111	0.38	W
S3	20190114	Sunny	Light	Mid-Flood	S	1	11:21	9.16	8.13	29.46	19.2	3.08	6	113	0.39	W
M1	20190114	Sunny	Light	Mid-Flood	B	7.9	11:24	9.06	8.06	30.6	19.2	6.19	6	114	0.21	NW
M1	20190114	Sunny	Light	Mid-Flood	B	7.9	11:24	9.06	8.12	29.93	19.3	6.22	5	112	0.21	NW
M1	20190114	Sunny	Light	Mid-Flood	M	4.5	11:25	8.98	8.06	29.8	19.2	5.44	7	113	0.25	NW
M1	20190114	Sunny	Light	Mid-Flood	M	4.5	11:25	8.96	8.17	29.54	19.2	5.53	7	111	0.23	NW
M1	20190114	Sunny	Light	Mid-Flood	S	1	11:26	8.88	8.12	30.42	19.2	3.54	8	111	0.43	NW
M1	20190114	Sunny	Light	Mid-Flood	S	1	11:27	8.82	8.07	29.98	19.2	3.44	8	113	0.43	NW
CR2	20190114	Sunny	Light	Mid-Flood	B	8.5	11:28	9.31	8.13	30	19.2	6.26	8	112	0.19	NW
CR2	20190114	Sunny	Light	Mid-Flood	B	8.5	11:29	9.29	8.16	30.34	19.2	6.31	9	112	0.2	NW
CR2	20190114	Sunny	Light	Mid-Flood	M	4.8	11:30	9.22	8.08	30.22	19.3	4.88	7	111	0.33	NW
CR2	20190114	Sunny	Light	Mid-Flood	M	4.8	11:30	9.13	8.08	30.23	19.3	4.94	8	112	0.32	W

Contract No. EP/SP/66/12  
Integrated Waste Management Facilities, Phase 1  
Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
CR2	20190114	Sunny	Light	Mid-Flood	S	1	11:31	9.08	8.09	29.94	19.3	3.42	6	112	0.37	W
CR2	20190114	Sunny	Light	Mid-Flood	S	1	11:31	9.02	8.05	30.42	19.2	3.46	6	112	0.37	W
F1	20190114	Sunny	Light	Mid-Flood	B	8	11:53	9.02	8.02	30.09	19.2	6.09	7	113	0.17	NW
F1	20190114	Sunny	Light	Mid-Flood	B	8	11:54	8.97	8.17	30.32	19.2	6.06	6	112	0.17	NW
F1	20190114	Sunny	Light	Mid-Flood	M	4.5	11:54	9	8.02	30.34	19.3	5.3	8	112	0.34	NW
F1	20190114	Sunny	Light	Mid-Flood	M	4.5	11:55	8.97	8.08	30.19	19.2	5.23	8	113	0.36	NW
F1	20190114	Sunny	Light	Mid-Flood	S	1	11:55	8.97	8.17	30.39	19.2	3.82	6	112	0.39	NW
F1	20190114	Sunny	Light	Mid-Flood	S	1	11:56	8.92	8.17	29.85	19.3	3.92	6	112	0.41	NW
C1	20190114	Sunny	Light	Mid-Flood	B	11.6	11:54	8.62	8.19	30.27	19.2	6.13	10	113	0.25	NW
C1	20190114	Sunny	Light	Mid-Flood	B	11.6	11:54	8.6	8.13	30.58	19.2	6.22	9	114	0.23	NW
C1	20190114	Sunny	Light	Mid-Flood	M	6.3	11:55	8.53	8.18	30.56	19.3	4.56	9	112	0.33	NW
C1	20190114	Sunny	Light	Mid-Flood	M	6.3	11:56	8.53	8.15	30.03	19.2	4.63	9	113	0.35	NW
C1	20190114	Sunny	Light	Mid-Flood	S	1	11:56	8.5	8.07	29.6	19.3	3.53	8	112	0.36	NW
C1	20190114	Sunny	Light	Mid-Flood	S	1	11:57	8.49	8.19	30.37	19.2	3.48	8	111	0.34	NW
B1	20190114	Sunny	Light	Mid-Flood	B	4.8	12:17	9.01	8.17	30.23	19.3	6.31	3	113	0.18	NW
B1	20190114	Sunny	Light	Mid-Flood	B	4.8	12:18	8.94	8.12	29.8	19.3	6.21	3	112	0.16	NW
B1	20190114	Sunny	Light	Mid-Flood	S	1	12:19	9	8.12	29.79	19.2	3.09	2	111	0.44	NW
B1	20190114	Sunny	Light	Mid-Flood	S	1	12:19	9.09	8	30.03	19.2	3.16	3	112	0.43	NW
S1	20190114	Sunny	Light	Mid-Flood	B	4.9	12:29	9.51	8.17	29.41	19.3	5.76	4	112	0.24	NW
S1	20190114	Sunny	Light	Mid-Flood	B	4.9	12:29	9.5	8.09	30.24	19.2	5.72	4	113	0.25	NW
S1	20190114	Sunny	Light	Mid-Flood	S	1	12:30	9.45	8.2	29.45	19.3	3.33	5	112	0.4	NW
S1	20190114	Sunny	Light	Mid-Flood	S	1	12:31	9.51	8.03	29.75	19.2	3.42	4	113	0.4	NW
H1	20190114	Sunny	Light	Mid-Flood	B	7.8	12:32	9.3	8.01	29.85	19.3	6.25	7	113	0.16	W
H1	20190114	Sunny	Light	Mid-Flood	B	7.8	12:33	9.2	8.08	29.91	19.3	6.3	6	114	0.16	W
H1	20190114	Sunny	Light	Mid-Flood	M	4.4	12:34	9.15	8.03	30.15	19.2	5.01	6	113	0.32	W
H1	20190114	Sunny	Light	Mid-Flood	M	4.4	12:34	9.18	8	29.62	19.3	5.07	7	114	0.32	W
H1	20190114	Sunny	Light	Mid-Flood	S	1	12:35	9.2	8.04	29.57	19.2	3.21	6	113	0.43	W
H1	20190114	Sunny	Light	Mid-Flood	S	1	12:35	9.24	8.07	30.41	19.3	3.14	7	113	0.42	W
B2	20190114	Sunny	Light	Mid-Flood	B	4.8	12:39	8.83	8.13	30.09	19.3	6.04	6	113	0.15	N
B2	20190114	Sunny	Light	Mid-Flood	B	4.8	12:40	8.85	8.2	30.02	19.3	6.08	6	112	0.16	N
B2	20190114	Sunny	Light	Mid-Flood	S	1	12:40	8.78	8.17	30.49	19.2	3.81	6	113	0.37	N
B2	20190114	Sunny	Light	Mid-Flood	S	1	12:41	8.88	8.13	29.75	19.2	3.74	6	114	0.35	N

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B3	20190114	Sunny	Light	Mid-Flood	B	4.7	12:49	9.41	8.12	29.53	19.2	6.02	6	113	0.17	W
B3	20190114	Sunny	Light	Mid-Flood	B	4.7	12:49	9.39	8.16	29.53	19.2	6.12	5	113	0.18	W
B3	20190114	Sunny	Light	Mid-Flood	S	1	12:50	9.45	8.15	30.23	19.3	3.1	7	112	0.42	W
B3	20190114	Sunny	Light	Mid-Flood	S	1	12:50	9.54	8.07	30.4	19.3	3.2	6	113	0.42	W
S2	20190114	Sunny	Light	Mid-Flood	B	8.2	12:56	9.42	8.01	30.17	19.3	5.95	5	114	0.25	NW
S2	20190114	Sunny	Light	Mid-Flood	B	8.2	12:57	9.47	8.2	29.56	19.2	5.94	5	113	0.23	W
S2	20190114	Sunny	Light	Mid-Flood	M	4.6	12:57	9.37	8.02	30.45	19.3	5.05	5	113	0.33	NW
S2	20190114	Sunny	Light	Mid-Flood	M	4.6	12:58	9.45	8.04	30.43	19.3	5.11	4	113	0.32	NW
S2	20190114	Sunny	Light	Mid-Flood	S	1	12:58	9.35	8.05	29.84	19.2	3.02	4	113	0.35	NW
S2	20190114	Sunny	Light	Mid-Flood	S	1	12:59	9.38	8.1	30.52	19.3	2.96	4	113	0.36	NW
B4	20190114	Sunny	Light	Mid-Flood	B	4.7	13:01	8.73	8.1	29.47	19.3	5.56	9	113	0.17	NW
B4	20190114	Sunny	Light	Mid-Flood	B	4.7	13:01	8.77	8.07	30.47	19.3	5.62	8	112	0.16	NW
B4	20190114	Sunny	Light	Mid-Flood	S	1	13:02	8.74	8.13	30.08	19.2	3.6	10	114	0.36	NW
B4	20190114	Sunny	Light	Mid-Flood	S	1	13:03	8.84	8	30.36	19.2	3.66	10	114	0.38	NW
C1	20190114	Cloudy	Moderate	Mid-Ebb	B	10.4	17:17	8.61	8.1	29.56	19.3	5.93	8	113	0.17	E
C1	20190114	Cloudy	Moderate	Mid-Ebb	B	10.4	17:18	8.59	8.08	30.13	19.2	5.97	8	113	0.18	E
C1	20190114	Cloudy	Moderate	Mid-Ebb	M	5.7	17:18	8.51	8.16	29.63	19.3	4.9	7	113	0.27	E
C1	20190114	Cloudy	Moderate	Mid-Ebb	M	5.7	17:19	8.61	8.03	29.51	19.3	4.81	7	113	0.29	E
C1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	17:20	8.58	8.16	30.17	19.3	3.9	8	114	0.43	E
C1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	17:20	8.52	8.01	29.43	19.2	3.93	8	112	0.42	E
M1	20190114	Cloudy	Moderate	Mid-Ebb	B	7.4	17:19	9.02	8.04	30.5	19.2	6.46	9	112	0.16	SE
M1	20190114	Cloudy	Moderate	Mid-Ebb	B	7.4	17:19	9	8.09	30	19.2	6.44	8	113	0.14	SE
M1	20190114	Cloudy	Moderate	Mid-Ebb	M	4.2	17:20	9.03	8.16	30.59	19.2	5	11	114	0.28	SE
M1	20190114	Cloudy	Moderate	Mid-Ebb	M	4.2	17:21	9.12	8.04	29.89	19.2	4.91	10	113	0.27	SE
M1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	17:21	9.07	8.02	30.18	19.2	3.93	13	114	0.45	SE
M1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	17:22	9.13	8.03	30.49	19.3	3.88	12	112	0.44	SE
B1	20190114	Cloudy	Moderate	Mid-Ebb	B	4.5	17:39	9.11	8.19	29.97	19.3	6.42	5	112	0.18	SE
B1	20190114	Cloudy	Moderate	Mid-Ebb	B	4.5	17:39	9.13	8.07	30.27	19.3	6.42	6	111	0.16	SE
B1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	17:40	9.12	8.07	30.25	19.3	3.57	6	112	0.4	SE
B1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	17:40	9.04	8.1	30.33	19.2	3.6	6	112	0.4	SE
F1	20190114	Cloudy	Moderate	Mid-Ebb	B	7.5	17:48	8.79	8.15	29.81	19.2	6.03	9	113	0.24	SE
F1	20190114	Cloudy	Moderate	Mid-Ebb	B	7.5	17:49	8.86	8.12	30.58	19.2	5.96	8	112	0.22	SE

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
F1	20190114	Cloudy	Moderate	Mid-Ebb	M	4.3	17:49	8.9	8	30.58	19.3	4.59	10	112	0.31	SE
F1	20190114	Cloudy	Moderate	Mid-Ebb	M	4.3	17:50	8.92	8.13	29.84	19.3	4.62	9	114	0.33	SE
F1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	17:50	8.86	8.07	30.39	19.3	3.95	11	112	0.35	SE
F1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	17:51	8.84	8.08	29.53	19.3	3.99	10	113	0.33	SE
S1	20190114	Cloudy	Moderate	Mid-Ebb	B	4.3	17:50	9.11	8.12	30.29	19.3	6.32	8	113	0.25	E
S1	20190114	Cloudy	Moderate	Mid-Ebb	B	4.3	17:50	9.02	8.02	30.09	19.3	6.29	8	112	0.27	E
S1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	17:51	9.01	8.17	30.15	19.2	3.18	14	113	0.45	E
S1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	17:52	9	8.06	29.95	19.3	3.12	13	112	0.43	E
B2	20190114	Cloudy	Moderate	Mid-Ebb	B	4.4	18:00	8.71	8.15	29.78	19.2	6.2	6	112	0.21	SE
B2	20190114	Cloudy	Moderate	Mid-Ebb	B	4.4	18:01	8.8	8.15	29.42	19.2	6.27	6	113	0.22	SE
B2	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:01	8.79	8.11	29.63	19.3	3.9	6	112	0.37	SE
B2	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:02	8.7	8.01	30.6	19.3	3.84	5	113	0.35	SE
C2	20190114	Cloudy	Moderate	Mid-Ebb	B	8.7	18:11	9.59	8.02	30.14	19.3	6.35	6	113	0.19	SE
C2	20190114	Cloudy	Moderate	Mid-Ebb	B	8.7	18:11	9.63	8.17	30.57	19.2	6.41	7	113	0.18	SE
C2	20190114	Cloudy	Moderate	Mid-Ebb	M	4.9	18:12	9.64	8.2	29.87	19.2	5.14	7	114	0.3	SE
C2	20190114	Cloudy	Moderate	Mid-Ebb	M	4.9	18:12	9.7	8.1	30.17	19.2	5.18	7	113	0.28	SE
C2	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:13	9.77	8.13	30.13	19.3	3.4	9	113	0.39	SE
C2	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:14	9.75	8.14	29.56	19.3	3.36	8	113	0.4	SE
S2	20190114	Cloudy	Moderate	Mid-Ebb	B	7.8	18:15	8.62	8.14	30.26	19.3	5.82	8	113	0.23	SE
S2	20190114	Cloudy	Moderate	Mid-Ebb	B	7.8	18:16	8.59	8.06	29.47	19.3	5.8	8	112	0.25	SE
S2	20190114	Cloudy	Moderate	Mid-Ebb	M	4.4	18:17	8.62	8.13	29.84	19.3	4.86	8	114	0.3	SE
S2	20190114	Cloudy	Moderate	Mid-Ebb	M	4.4	18:17	8.68	8.18	30.57	19.2	4.85	8	114	0.29	SE
S2	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:18	8.6	8.08	29.84	19.3	3.73	6	112	0.38	SE
S2	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:18	8.55	8.09	30.07	19.2	3.66	6	112	0.36	SE
CR2	20190114	Cloudy	Moderate	Mid-Ebb	B	8	18:26	8.93	8.12	30.4	19.2	6.27	9	113	0.22	E
CR2	20190114	Cloudy	Moderate	Mid-Ebb	B	8	18:27	8.89	8.12	30.27	19.3	6.27	9	113	0.24	E
CR2	20190114	Cloudy	Moderate	Mid-Ebb	M	4.5	18:27	8.81	8.18	29.42	19.2	5.29	8	114	0.26	E
CR2	20190114	Cloudy	Moderate	Mid-Ebb	M	4.5	18:28	8.75	8.1	29.77	19.3	5.31	7	114	0.26	E
CR2	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:29	8.74	8.12	30.13	19.3	3.33	8	112	0.36	E
CR2	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:29	8.68	8.08	29.41	19.3	3.39	9	113	0.34	E
H1	20190114	Cloudy	Moderate	Mid-Ebb	B	7.7	18:32	9.01	8.01	29.94	19.3	5.67	9	113	0.22	E
H1	20190114	Cloudy	Moderate	Mid-Ebb	B	7.7	18:32	8.95	8.02	30.36	19.2	5.77	9	114	0.21	E

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
H1	20190114	Cloudy	Moderate	Mid-Ebb	M	4.4	18:33	9.04	8.08	29.58	19.2	5.14	8	114	0.28	E
H1	20190114	Cloudy	Moderate	Mid-Ebb	M	4.4	18:34	8.95	8.09	30.06	19.3	5.11	9	112	0.26	SE
H1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:34	8.9	8.04	29.91	19.3	3.33	7	113	0.41	SE
H1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:35	8.83	8.01	30.06	19.2	3.39	7	114	0.42	SE
S3	20190114	Cloudy	Moderate	Mid-Ebb	B	10.9	18:36	9.2	8.16	30.44	19.3	5.86	10	114	0.2	SE
S3	20190114	Cloudy	Moderate	Mid-Ebb	B	10.9	18:37	9.27	8.01	30.06	19.3	5.84	9	114	0.21	SE
S3	20190114	Cloudy	Moderate	Mid-Ebb	M	6	18:38	9.35	8.03	29.53	19.3	4.99	11	113	0.26	SE
S3	20190114	Cloudy	Moderate	Mid-Ebb	M	6	18:38	9.43	8.1	30.05	19.3	5.04	10	113	0.25	SE
S3	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:39	9.33	8.2	29.56	19.3	3.82	12	113	0.38	SE
S3	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:40	9.33	8.08	30.11	19.3	3.88	13	114	0.4	SE
CR1	20190114	Cloudy	Moderate	Mid-Ebb	B	8.3	18:48	8.85	8.03	29.71	19.2	5.52	7	112	0.25	SE
CR1	20190114	Cloudy	Moderate	Mid-Ebb	B	8.3	18:49	8.82	8	29.88	19.2	5.58	6	112	0.25	SE
CR1	20190114	Cloudy	Moderate	Mid-Ebb	M	4.7	18:49	8.84	8.08	29.74	19.2	5.09	8	113	0.33	SE
CR1	20190114	Cloudy	Moderate	Mid-Ebb	M	4.7	18:50	8.9	8.15	29.57	19.2	5.11	9	113	0.33	SE
CR1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:51	8.81	8.16	30.39	19.2	3.47	9	114	0.38	SE
CR1	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:51	8.72	8	29.62	19.3	3.49	8	113	0.4	SE
B3	20190114	Cloudy	Moderate	Mid-Ebb	B	4.4	18:51	9.33	8.07	30.04	19.3	6.27	8	114	0.16	E
B3	20190114	Cloudy	Moderate	Mid-Ebb	B	4.4	18:51	9.28	8.2	29.5	19.2	6.35	8	113	0.16	E
B3	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:52	9.19	8.12	29.47	19.2	3.04	8	113	0.41	E
B3	20190114	Cloudy	Moderate	Mid-Ebb	S	1	18:53	9.21	8.03	30.55	19.2	2.97	8	113	0.4	E
B4	20190114	Cloudy	Moderate	Mid-Ebb	B	4.3	19:02	9.03	8.06	30.32	19.2	6.16	7	114	0.18	E
B4	20190114	Cloudy	Moderate	Mid-Ebb	B	4.3	19:03	8.93	8.05	30.21	19.3	6.16	6	113	0.18	SE
B4	20190114	Cloudy	Moderate	Mid-Ebb	S	1	19:04	9.02	8.14	29.55	19.3	3.47	6	113	0.41	SE
B4	20190114	Cloudy	Moderate	Mid-Ebb	S	1	19:04	9.1	8.06	29.63	19.3	3.46	5	113	0.41	SE
C1	20190116	Cloudy	Light	Mid-Ebb	B	10.5	8:04	9.12	8.06	29.64	18.7	4.08	6	113	0.2	E
C1	20190116	Cloudy	Light	Mid-Ebb	B	10.5	8:04	9.07	8.15	30.06	18.7	4.1	7	112	0.19	E
C1	20190116	Cloudy	Light	Mid-Ebb	M	5.8	8:05	9.16	8.18	29.63	18.7	3.13	6	114	0.4	E
C1	20190116	Cloudy	Light	Mid-Ebb	M	5.8	8:06	9.22	8.07	29.61	18.8	3.17	6	114	0.38	E
C1	20190116	Cloudy	Light	Mid-Ebb	S	1	8:06	9.15	8.14	29.98	18.7	2.09	5	113	0.33	E
C1	20190116	Cloudy	Light	Mid-Ebb	S	1	8:07	9.13	8.07	29.77	18.7	2.13	6	113	0.33	SE
CR1	20190116	Cloudy	Light	Mid-Ebb	B	8.2	8:07	9.09	8.03	30.7	18.8	4.03	10	114	0.15	E
CR1	20190116	Cloudy	Light	Mid-Ebb	B	8.2	8:08	9.01	8.1	30.47	18.7	4.05	10	112	0.14	E

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
CR1	20190116	Cloudy	Light	Mid-Ebb	M	4.6	8:08	8.91	8	30.12	18.8	3.11	10	113	0.32	E
CR1	20190116	Cloudy	Light	Mid-Ebb	M	4.6	8:09	8.86	8.01	29.65	18.8	3.11	9	113	0.32	E
CR1	20190116	Cloudy	Light	Mid-Ebb	S	1	8:10	8.91	8.03	30.51	18.8	2.1	7	113	0.37	E
CR1	20190116	Cloudy	Light	Mid-Ebb	S	1	8:10	8.94	8.1	30.13	18.7	2.08	7	113	0.37	SE
S3	20190116	Cloudy	Light	Mid-Ebb	B	10.8	8:15	9.23	8.14	29.6	18.8	4.73	10	112	0.19	SE
S3	20190116	Cloudy	Light	Mid-Ebb	B	10.8	8:16	9.2	8.11	30.3	18.8	4.67	10	114	0.18	SE
S3	20190116	Cloudy	Light	Mid-Ebb	M	5.9	8:17	9.11	8.07	29.9	18.8	3.14	9	114	0.34	SE
S3	20190116	Cloudy	Light	Mid-Ebb	M	5.9	8:17	9.16	8.02	30.62	18.8	3.07	9	113	0.33	SE
S3	20190116	Cloudy	Light	Mid-Ebb	S	1	8:18	9.16	8.02	30.3	18.7	2.94	7	112	0.4	SE
S3	20190116	Cloudy	Light	Mid-Ebb	S	1	8:19	9.23	8.2	30.08	18.8	2.96	8	113	0.41	SE
B1	20190116	Cloudy	Light	Mid-Ebb	B	4.5	8:27	8.71	8.15	29.74	18.8	4.14	8	113	0.13	E
B1	20190116	Cloudy	Light	Mid-Ebb	B	4.5	8:28	8.69	8.11	29.88	18.7	4.17	8	112	0.12	E
B1	20190116	Cloudy	Light	Mid-Ebb	S	1	8:29	8.73	8.06	30.62	18.7	2.87	5	111	0.35	NE
B1	20190116	Cloudy	Light	Mid-Ebb	S	1	8:30	8.72	8.11	30.62	18.7	2.8	6	113	0.37	NE
CR2	20190116	Cloudy	Light	Mid-Ebb	B	8.1	8:27	9	8.1	30.03	18.7	4.35	9	113	0.11	E
CR2	20190116	Cloudy	Light	Mid-Ebb	B	8.1	8:28	9.01	8.03	30.22	18.7	4.26	9	112	0.1	E
CR2	20190116	Cloudy	Light	Mid-Ebb	M	4.6	8:29	8.99	8.17	29.62	18.7	3.91	8	113	0.37	E
CR2	20190116	Cloudy	Light	Mid-Ebb	M	4.6	8:29	8.93	8.15	30.05	18.7	3.81	9	113	0.37	E
CR2	20190116	Cloudy	Light	Mid-Ebb	S	1	8:30	8.96	8.2	29.84	18.8	2.36	8	113	0.39	E
CR2	20190116	Cloudy	Light	Mid-Ebb	S	1	8:31	8.93	8.17	29.66	18.8	2.32	7	113	0.41	E
S1	20190116	Cloudy	Light	Mid-Ebb	B	4.4	8:37	8.64	8.06	29.94	18.7	4.77	7	113	0.11	E
S1	20190116	Cloudy	Light	Mid-Ebb	B	4.4	8:37	8.65	8.14	30.43	18.7	4.87	8	112	0.11	E
S1	20190116	Cloudy	Light	Mid-Ebb	S	1	8:38	8.67	8.2	30.42	18.8	2.49	6	112	0.3	E
S1	20190116	Cloudy	Light	Mid-Ebb	S	1	8:39	8.71	8.1	29.76	18.7	2.43	6	114	0.3	E
H1	20190116	Cloudy	Light	Mid-Ebb	B	8	8:42	8.01	8.12	29.82	18.8	4.92	7	114	0.13	SE
H1	20190116	Cloudy	Light	Mid-Ebb	B	8	8:43	7.97	8.11	30.46	18.7	4.91	8	112	0.14	SE
H1	20190116	Cloudy	Light	Mid-Ebb	M	4.5	8:44	7.87	8.13	30.28	18.7	3.24	6	112	0.36	SE
H1	20190116	Cloudy	Light	Mid-Ebb	M	4.5	8:45	7.86	8.09	30.63	18.8	3.18	7	113	0.36	SE
H1	20190116	Cloudy	Light	Mid-Ebb	S	1	8:45	7.85	8.15	29.67	18.8	2.42	6	113	0.31	SE
H1	20190116	Cloudy	Light	Mid-Ebb	S	1	8:46	7.76	8.17	30.12	18.7	2.35	6	112	0.29	SE
B2	20190116	Cloudy	Light	Mid-Ebb	B	4.6	8:47	9.4	8.03	30.47	18.8	4.74	5	113	0.18	SE
B2	20190116	Cloudy	Light	Mid-Ebb	B	4.6	8:47	9.45	8.2	30.24	18.7	4.73	6	113	0.17	SE

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 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B2	20190116	Cloudy	Light	Mid-Ebb	S	1	8:48	9.36	8.13	30.24	18.7	2.89	6	113	0.37	SE
B2	20190116	Cloudy	Light	Mid-Ebb	S	1	8:49	9.27	8.03	30.17	18.8	2.98	5	112	0.38	SE
S2	20190116	Cloudy	Light	Mid-Ebb	B	7.7	9:02	9.25	8.11	30.43	18.7	4.63	10	113	0.16	SE
S2	20190116	Cloudy	Light	Mid-Ebb	B	7.7	9:02	9.16	8.09	30.4	18.8	4.71	10	113	0.17	SE
S2	20190116	Cloudy	Light	Mid-Ebb	M	4.4	9:03	9.08	8.1	30.28	18.8	3.13	8	112	0.36	SE
S2	20190116	Cloudy	Light	Mid-Ebb	M	4.4	9:04	9.11	8.05	30.1	18.8	3.08	9	112	0.36	SE
S2	20190116	Cloudy	Light	Mid-Ebb	S	1	9:04	9.07	8.02	30.61	18.8	2.61	6	113	0.36	SE
S2	20190116	Cloudy	Light	Mid-Ebb	S	1	9:05	8.97	8.01	30.41	18.7	2.54	6	113	0.35	SE
B3	20190116	Cloudy	Light	Mid-Ebb	B	4.5	9:14	8.21	8.15	30.65	18.8	4.65	9	112	0.13	E
B3	20190116	Cloudy	Light	Mid-Ebb	B	4.5	9:15	8.29	8.12	29.88	18.7	4.57	8	113	0.14	E
B3	20190116	Cloudy	Light	Mid-Ebb	S	1	9:15	8.37	8.16	30.38	18.8	2.09	5	112	0.4	E
B3	20190116	Cloudy	Light	Mid-Ebb	S	1	9:16	8.36	8.04	29.95	18.7	2	6	112	0.41	E
B4	20190116	Cloudy	Light	Mid-Ebb	B	4.4	9:25	8.81	8.12	30.05	18.7	4.69	10	114	0.18	SE
B4	20190116	Cloudy	Light	Mid-Ebb	B	4.4	9:25	8.88	8	29.6	18.7	4.78	9	112	0.19	SE
B4	20190116	Cloudy	Light	Mid-Ebb	S	1	9:26	8.93	8.2	30.68	18.7	2.31	6	113	0.3	SE
B4	20190116	Cloudy	Light	Mid-Ebb	S	1	9:27	8.86	8.17	29.79	18.8	2.31	6	113	0.31	SE
C2	20190116	Cloudy	Light	Mid-Ebb	B	8.5	9:34	8.99	8.1	30.15	18.8	4.05	7	112	0.13	S
C2	20190116	Cloudy	Light	Mid-Ebb	B	8.5	9:34	9.05	8.08	30.32	18.8	3.96	7	114	0.14	S
C2	20190116	Cloudy	Light	Mid-Ebb	M	4.8	9:35	9.08	8.19	30.49	18.8	3.42	5	112	0.39	S
C2	20190116	Cloudy	Light	Mid-Ebb	M	4.8	9:36	9.03	8.14	30.15	18.7	3.42	6	112	0.39	S
C2	20190116	Cloudy	Light	Mid-Ebb	S	1	9:37	8.95	8.03	30.32	18.7	2.7	4	113	0.33	S
C2	20190116	Cloudy	Light	Mid-Ebb	S	1	9:37	8.87	8.19	30.69	18.7	2.77	4	112	0.31	S
F1	20190116	Cloudy	Light	Mid-Ebb	B	7.8	9:35	8.9	8.08	30.41	18.7	4.38	8	113	0.19	SE
F1	20190116	Cloudy	Light	Mid-Ebb	B	7.8	9:36	8.93	8.18	30.58	18.8	4.4	8	112	0.21	SE
F1	20190116	Cloudy	Light	Mid-Ebb	M	4.4	9:36	8.87	8.12	30.51	18.7	3.06	7	113	0.31	SE
F1	20190116	Cloudy	Light	Mid-Ebb	M	4.4	9:37	8.89	8.11	29.9	18.8	2.99	7	113	0.33	SE
F1	20190116	Cloudy	Light	Mid-Ebb	S	1	9:38	8.93	8.09	30.04	18.8	2.58	4	112	0.37	SE
F1	20190116	Cloudy	Light	Mid-Ebb	S	1	9:39	8.95	8.13	29.68	18.7	2.6	3	112	0.35	SE
M1	20190116	Cloudy	Light	Mid-Ebb	B	8.1	10:05	8.45	8.12	30.7	18.7	4.7	13	112	0.13	S
M1	20190116	Cloudy	Light	Mid-Ebb	B	8.1	10:06	8.49	8.15	30.35	18.7	4.7	12	113	0.15	S
M1	20190116	Cloudy	Light	Mid-Ebb	M	4.6	10:07	8.49	8.2	29.91	18.7	3.03	10	113	0.4	S
M1	20190116	Cloudy	Light	Mid-Ebb	M	4.6	10:07	8.43	8.14	30.67	18.8	2.98	12	113	0.39	S

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
M1	20190116	Cloudy	Light	Mid-Ebb	S	1	10:08	8.34	8.01	29.76	18.8	2.21	11	114	0.3	S
M1	20190116	Cloudy	Light	Mid-Ebb	S	1	10:09	8.26	8.06	30.33	18.7	2.18	10	112	0.29	S
C2	20190116	Fine	Moderate	Mid-Flood	B	8.9	12:07	8.04	8.11	30.15	18.8	4.44	13	112	0.15	N
C2	20190116	Fine	Moderate	Mid-Flood	B	8.9	12:07	7.98	8.17	29.75	18.7	4.46	14	112	0.15	N
C2	20190116	Fine	Moderate	Mid-Flood	M	5	12:08	7.91	8.08	30.3	18.7	3.26	12	112	0.36	N
C2	20190116	Fine	Moderate	Mid-Flood	M	5	12:09	7.83	8.04	30.08	18.8	3.33	11	112	0.36	N
C2	20190116	Fine	Moderate	Mid-Flood	S	1	12:09	7.83	8.16	30.18	18.8	2.95	10	112	0.39	N
C2	20190116	Fine	Moderate	Mid-Flood	S	1	12:10	7.8	8.07	30.66	18.8	2.94	10	112	0.37	N
CR1	20190116	Fine	Moderate	Mid-Flood	B	8.7	12:11	9.42	8.16	29.98	18.7	4.79	10	112	0.12	NW
CR1	20190116	Fine	Moderate	Mid-Flood	B	8.7	12:12	9.52	8.12	30.63	18.8	4.79	10	112	0.11	NW
CR1	20190116	Fine	Moderate	Mid-Flood	M	4.9	12:12	9.51	8.17	30.4	18.7	3.74	9	113	0.36	NW
CR1	20190116	Fine	Moderate	Mid-Flood	M	4.9	12:13	9.44	8.18	29.64	18.7	3.77	9	112	0.36	NW
CR1	20190116	Fine	Moderate	Mid-Flood	S	1	12:14	9.5	8.12	30.08	18.7	2.01	8	112	0.3	N
CR1	20190116	Fine	Moderate	Mid-Flood	S	1	12:14	9.4	8.08	30.01	18.7	2.03	8	112	0.29	NW
S3	20190116	Fine	Moderate	Mid-Flood	B	11.8	12:19	8.74	8.05	30.02	18.8	4.2	7	112	0.12	W
S3	20190116	Fine	Moderate	Mid-Flood	B	11.8	12:20	8.64	8.02	30.6	18.7	4.21	6	112	0.13	W
S3	20190116	Fine	Moderate	Mid-Flood	M	6.4	12:21	8.62	8.02	30.5	18.7	3.46	6	112	0.35	W
S3	20190116	Fine	Moderate	Mid-Flood	M	6.4	12:21	8.64	8.12	30.46	18.8	3.55	6	113	0.34	W
S3	20190116	Fine	Moderate	Mid-Flood	S	1	12:22	8.62	8.18	29.73	18.7	2.52	5	113	0.35	W
S3	20190116	Fine	Moderate	Mid-Flood	S	1	12:23	8.53	8.06	29.92	18.8	2.46	5	113	0.33	W
CR2	20190116	Fine	Moderate	Mid-Flood	B	8.6	12:28	8.31	8.17	29.63	18.8	4.07	6	113	0.14	W
CR2	20190116	Fine	Moderate	Mid-Flood	B	8.6	12:29	8.28	8.08	30.67	18.8	4.06	6	113	0.16	W
CR2	20190116	Fine	Moderate	Mid-Flood	M	4.8	12:30	8.27	8.02	30.44	18.7	3.61	4	113	0.35	W
CR2	20190116	Fine	Moderate	Mid-Flood	M	4.8	12:31	8.26	8.14	30.53	18.8	3.6	5	113	0.35	W
CR2	20190116	Fine	Moderate	Mid-Flood	S	1	12:31	8.27	8.01	30.11	18.8	2.93	4	113	0.39	W
CR2	20190116	Fine	Moderate	Mid-Flood	S	1	12:32	8.3	8.03	29.92	18.7	2.87	4	112	0.41	W
M1	20190116	Fine	Moderate	Mid-Flood	B	8.4	12:35	8.48	8.12	30.45	18.7	4.54	7	114	0.13	NW
M1	20190116	Fine	Moderate	Mid-Flood	B	8.4	12:35	8.39	8.06	29.96	18.7	4.64	7	112	0.14	NW
M1	20190116	Fine	Moderate	Mid-Flood	M	4.7	12:36	8.35	8.01	30.44	18.8	3.7	6	113	0.39	NW
M1	20190116	Fine	Moderate	Mid-Flood	M	4.7	12:37	8.29	8.06	30.05	18.7	3.78	7	113	0.41	NW
M1	20190116	Fine	Moderate	Mid-Flood	S	1	12:38	8.3	8.14	29.67	18.8	2.07	6	113	0.38	NW
M1	20190116	Fine	Moderate	Mid-Flood	S	1	12:38	8.27	8.15	30.3	18.7	2.08	5	114	0.37	NW



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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C1	20190116	Fine	Moderate	Mid-Flood	B	11.4	12:55	8.27	8.13	30.68	18.8	4.97	15	112	0.15	NW
C1	20190116	Fine	Moderate	Mid-Flood	B	11.4	12:56	8.23	8.01	29.98	18.7	5.01	14	113	0.15	NW
C1	20190116	Fine	Moderate	Mid-Flood	M	6.2	12:56	8.15	8	30.6	18.7	3.17	12	112	0.4	NW
C1	20190116	Fine	Moderate	Mid-Flood	M	6.2	12:57	8.16	8.07	30.41	18.8	3.12	11	112	0.41	NW
C1	20190116	Fine	Moderate	Mid-Flood	S	1	12:58	8.2	8.1	30.17	18.8	2.34	11	112	0.35	NW
C1	20190116	Fine	Moderate	Mid-Flood	S	1	12:59	8.3	8.03	30	18.7	2.27	10	113	0.37	NW
F1	20190116	Fine	Moderate	Mid-Flood	B	8.5	13:06	8.48	8.08	30.28	18.7	4.89	10	112	0.14	NW
F1	20190116	Fine	Moderate	Mid-Flood	B	8.5	13:07	8.58	8.12	30.58	18.7	4.86	9	112	0.14	NW
F1	20190116	Fine	Moderate	Mid-Flood	M	4.8	13:08	8.58	8.07	30.69	18.7	3.64	8	112	0.36	NW
F1	20190116	Fine	Moderate	Mid-Flood	M	4.8	13:08	8.52	8.17	30.4	18.7	3.69	9	111	0.37	NW
F1	20190116	Fine	Moderate	Mid-Flood	S	1	13:09	8.61	8.14	30.53	18.8	2.02	7	113	0.34	NW
F1	20190116	Fine	Moderate	Mid-Flood	S	1	13:10	8.62	8.07	30	18.7	2.12	8	112	0.34	NW
B1	20190116	Fine	Moderate	Mid-Flood	B	4.7	13:18	8.39	8.2	30.05	18.8	4.42	8	112	0.14	NW
B1	20190116	Fine	Moderate	Mid-Flood	B	4.7	13:18	8.36	8.08	29.6	18.7	4.4	7	113	0.12	NW
B1	20190116	Fine	Moderate	Mid-Flood	S	1	13:19	8.39	8.13	29.98	18.8	2.4	5	112	0.39	NW
B1	20190116	Fine	Moderate	Mid-Flood	S	1	13:20	8.37	8.19	30.07	18.8	2.46	5	111	0.37	NW
S1	20190116	Fine	Moderate	Mid-Flood	B	4.8	13:28	8.28	8.06	29.69	18.7	4.65	8	112	0.14	W
S1	20190116	Fine	Moderate	Mid-Flood	B	4.8	13:28	8.26	8.17	29.69	18.7	4.6	7	113	0.13	W
S1	20190116	Fine	Moderate	Mid-Flood	S	1	13:29	8.22	8.1	30.48	18.7	2.81	6	112	0.32	W
S1	20190116	Fine	Moderate	Mid-Flood	S	1	13:30	8.2	8.19	30.51	18.7	2.82	7	111	0.34	W
B2	20190116	Fine	Moderate	Mid-Flood	B	4.7	13:40	9.28	8.01	30.03	18.7	4.45	7	112	0.13	N
B2	20190116	Fine	Moderate	Mid-Flood	B	4.7	13:41	9.38	8.09	30.25	18.8	4.5	7	113	0.13	N
B2	20190116	Fine	Moderate	Mid-Flood	S	1	13:42	9.45	8.15	30.36	18.7	2.99	6	112	0.32	N
B2	20190116	Fine	Moderate	Mid-Flood	S	1	13:43	9.49	8.15	30.15	18.8	3.07	5	111	0.32	N
H1	20190116	Fine	Moderate	Mid-Flood	B	8.3	13:49	9.23	8.07	30.37	18.7	4.2	12	111	0.18	NW
H1	20190116	Fine	Moderate	Mid-Flood	B	8.3	13:50	9.21	8.18	30.06	18.7	4.18	11	112	0.18	NW
H1	20190116	Fine	Moderate	Mid-Flood	M	4.7	13:51	9.12	8.16	29.84	18.7	3.04	9	112	0.38	NW
H1	20190116	Fine	Moderate	Mid-Flood	M	4.7	13:51	9.2	8.13	30.67	18.8	3.09	9	114	0.36	NW
H1	20190116	Fine	Moderate	Mid-Flood	S	1	13:52	9.28	8.04	29.67	18.7	2.42	8	112	0.4	NW
H1	20190116	Fine	Moderate	Mid-Flood	S	1	13:53	9.26	8.16	29.9	18.7	2.35	9	112	0.38	NW
S2	20190116	Fine	Moderate	Mid-Flood	B	8.4	13:55	9.39	8.17	30.23	18.7	4.1	7	112	0.11	NW
S2	20190116	Fine	Moderate	Mid-Flood	B	8.4	13:55	9.45	8.1	29.95	18.7	4.13	6	113	0.09	NW

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
S2	20190116	Fine	Moderate	Mid-Flood	M	4.7	13:56	9.38	8.03	29.96	18.7	3.9	6	112	0.38	NW
S2	20190116	Fine	Moderate	Mid-Flood	M	4.7	13:57	9.43	8.16	29.6	18.8	3.91	6	112	0.37	NW
S2	20190116	Fine	Moderate	Mid-Flood	S	1	13:57	9.35	8.07	30.32	18.8	3	4	112	0.34	NW
S2	20190116	Fine	Moderate	Mid-Flood	S	1	13:58	9.32	8.13	29.84	18.8	3.1	5	111	0.33	NW
B3	20190116	Fine	Moderate	Mid-Flood	B	4.8	14:04	8.99	8.15	30.14	18.7	4.85	8	113	0.12	W
B3	20190116	Fine	Moderate	Mid-Flood	B	4.8	14:05	8.98	8.13	30.41	18.7	4.86	7	113	0.13	W
B3	20190116	Fine	Moderate	Mid-Flood	S	1	14:05	9.05	8.12	30.24	18.8	2.88	8	112	0.34	W
B3	20190116	Fine	Moderate	Mid-Flood	S	1	14:06	9.04	8.17	30.27	18.8	2.94	7	113	0.32	W
B4	20190116	Fine	Moderate	Mid-Flood	B	4.7	14:13	8.88	8.19	30.52	18.8	4.3	6	112	0.16	NW
B4	20190116	Fine	Moderate	Mid-Flood	B	4.7	14:13	8.83	8.01	30.48	18.8	4.27	6	112	0.16	NW
B4	20190116	Fine	Moderate	Mid-Flood	S	1	14:14	8.76	8.17	29.79	18.8	2.89	5	113	0.3	NW
B4	20190116	Fine	Moderate	Mid-Flood	S	1	14:15	8.72	8.18	30.11	18.7	2.87	4	112	0.29	NW
C1	20190118	Fine	Moderate	Mid-Ebb	B	10.6	9:08	9.23	8.09	29.25	18.4	5.63	7	114	0.2	E
C1	20190118	Fine	Moderate	Mid-Ebb	B	10.6	9:08	9.31	8.06	29.95	18.5	5.72	7	113	0.21	E
C1	20190118	Fine	Moderate	Mid-Ebb	M	5.8	9:09	9.41	8.07	29.32	18.4	4.27	9	113	0.28	E
C1	20190118	Fine	Moderate	Mid-Ebb	M	5.8	9:10	9.41	8.2	29.14	18.5	4.3	9	114	0.29	SE
C1	20190118	Fine	Moderate	Mid-Ebb	S	1	9:10	9.32	8.1	29.41	18.4	3.11	8	113	0.49	SE
C1	20190118	Fine	Moderate	Mid-Ebb	S	1	9:11	9.36	8.15	29.18	18.4	3.1	8	114	0.51	E
M1	20190118	Fine	Moderate	Mid-Ebb	B	8.2	9:16	9.59	8.15	29.85	18.4	5.54	10	113	0.15	SW
M1	20190118	Fine	Moderate	Mid-Ebb	B	8.2	9:17	9.66	8.05	29.04	18.5	5.48	10	113	0.16	SW
M1	20190118	Fine	Moderate	Mid-Ebb	M	4.6	9:17	9.67	8.06	29.13	18.5	4.02	8	112	0.2	SW
M1	20190118	Fine	Moderate	Mid-Ebb	M	4.6	9:18	9.63	8.04	29.21	18.5	3.93	8	112	0.2	SW
M1	20190118	Fine	Moderate	Mid-Ebb	S	1	9:19	9.61	8.16	29.1	18.5	3.85	6	110	0.46	SW
M1	20190118	Fine	Moderate	Mid-Ebb	S	1	9:19	9.7	8.18	30	18.4	3.86	8	113	0.47	SW
B1	20190118	Fine	Moderate	Mid-Ebb	B	4.4	9:33	8.8	8.15	29.92	18.4	5.46	6	113	0.12	NE
B1	20190118	Fine	Moderate	Mid-Ebb	B	4.4	9:34	8.89	8.07	29.24	18.5	5.42	6	113	0.14	NE
B1	20190118	Fine	Moderate	Mid-Ebb	S	1	9:35	8.96	8.07	29.04	18.5	3.98	9	113	0.43	NE
B1	20190118	Fine	Moderate	Mid-Ebb	S	1	9:35	9.01	8.01	29.88	18.4	4.01	8	113	0.43	NE
S1	20190118	Fine	Moderate	Mid-Ebb	B	4.5	9:45	9.49	8	29.98	18.4	5.21	9	112	0.1	E
S1	20190118	Fine	Moderate	Mid-Ebb	B	4.5	9:46	9.39	8.01	29.53	18.5	5.2	8	112	0.09	E
S1	20190118	Fine	Moderate	Mid-Ebb	S	1	9:46	9.46	8.01	29.18	18.5	3.54	8	113	0.48	E
S1	20190118	Fine	Moderate	Mid-Ebb	S	1	9:47	9.5	8.15	29.54	18.5	3.56	7	110	0.5	E

Contract No. EP/SP/66/12  
Integrated Waste Management Facilities, Phase 1  
Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
F1	20190118	Fine	Moderate	Mid-Ebb	B	7.9	9:48	8.79	8.08	29.29	18.4	5.58	8	112	0.13	SE
F1	20190118	Fine	Moderate	Mid-Ebb	B	7.9	9:49	8.79	8.08	29.68	18.5	5.5	8	112	0.12	SE
F1	20190118	Fine	Moderate	Mid-Ebb	M	4.5	9:49	8.78	8.2	29.98	18.4	4.95	7	112	0.28	SE
F1	20190118	Fine	Moderate	Mid-Ebb	M	4.5	9:50	8.84	8.19	29.46	18.5	4.9	8	112	0.26	SE
F1	20190118	Fine	Moderate	Mid-Ebb	S	1	9:51	8.8	8.14	29.05	18.5	3.35	7	112	0.43	SE
F1	20190118	Fine	Moderate	Mid-Ebb	S	1	9:51	8.71	8.02	29.09	18.4	3.35	6	111	0.41	SE
B2	20190118	Fine	Moderate	Mid-Ebb	B	4.6	9:59	9.56	8.15	29.65	18.4	5.58	7	114	0.18	SE
B2	20190118	Fine	Moderate	Mid-Ebb	B	4.6	10:00	9.49	8.11	29.87	18.4	5.56	7	112	0.19	SE
B2	20190118	Fine	Moderate	Mid-Ebb	S	1	10:01	9.46	8.04	29.13	18.5	3.53	7	113	0.42	SE
B2	20190118	Fine	Moderate	Mid-Ebb	S	1	10:01	9.45	8.08	29.34	18.5	3.55	7	112	0.44	SE
C2	20190118	Fine	Moderate	Mid-Ebb	B	8.6	10:14	8.96	8.05	29.12	18.5	5.64	7	113	0.15	S
C2	20190118	Fine	Moderate	Mid-Ebb	B	8.6	10:15	8.9	8.12	29.27	18.4	5.66	6	113	0.17	S
C2	20190118	Fine	Moderate	Mid-Ebb	M	4.8	10:15	8.81	8.19	29.4	18.4	4.16	6	112	0.29	S
C2	20190118	Fine	Moderate	Mid-Ebb	M	4.8	10:16	8.86	8.13	29.75	18.4	4.12	7	113	0.3	S
C2	20190118	Fine	Moderate	Mid-Ebb	S	1	10:17	8.82	8.16	29.18	18.5	3.04	5	113	0.41	S
C2	20190118	Fine	Moderate	Mid-Ebb	S	1	10:18	8.78	8.1	29.36	18.4	3.05	5	113	0.39	S
S2	20190118	Fine	Moderate	Mid-Ebb	B	7.8	10:17	9.52	8.05	29.43	18.4	5.25	8	113	0.12	SE
S2	20190118	Fine	Moderate	Mid-Ebb	B	7.8	10:18	9.54	8.13	29.21	18.5	5.3	9	114	0.13	SE
S2	20190118	Fine	Moderate	Mid-Ebb	M	4.4	10:19	9.47	8.09	29.67	18.4	4.65	9	113	0.27	SE
S2	20190118	Fine	Moderate	Mid-Ebb	M	4.4	10:19	9.57	8.04	29.06	18.4	4.7	8	113	0.26	SE
S2	20190118	Fine	Moderate	Mid-Ebb	S	1	10:20	9.48	8.03	29.36	18.4	3.92	6	114	0.4	SE
S2	20190118	Fine	Moderate	Mid-Ebb	S	1	10:21	9.46	8.11	29.97	18.5	3.83	7	114	0.4	SE
CR2	20190118	Fine	Moderate	Mid-Ebb	B	8	10:32	9.42	8.14	29.46	18.4	5.4	8	113	0.17	SE
CR2	20190118	Fine	Moderate	Mid-Ebb	B	8	10:32	9.46	8.11	29.3	18.4	5.39	8	113	0.19	S
CR2	20190118	Fine	Moderate	Mid-Ebb	M	4.5	10:33	9.48	8.07	29.23	18.5	4.68	7	113	0.2	S
CR2	20190118	Fine	Moderate	Mid-Ebb	M	4.5	10:34	9.48	8.12	29.17	18.5	4.59	8	114	0.2	S
CR2	20190118	Fine	Moderate	Mid-Ebb	S	1	10:34	9.41	8.16	29.56	18.4	3.8	7	113	0.48	S
CR2	20190118	Fine	Moderate	Mid-Ebb	S	1	10:35	9.41	8.07	29.84	18.5	3.82	7	114	0.5	S
S3	20190118	Fine	Moderate	Mid-Ebb	B	10.9	10:43	9.67	8.02	29.71	18.4	5.98	9	111	0.11	SE
S3	20190118	Fine	Moderate	Mid-Ebb	B	10.9	10:44	9.73	8.16	29.02	18.5	6	8	113	0.13	SE
S3	20190118	Fine	Moderate	Mid-Ebb	M	6	10:44	9.79	8.17	29.46	18.4	4.41	9	113	0.28	SE
S3	20190118	Fine	Moderate	Mid-Ebb	M	6	10:45	9.87	8.13	29.89	18.4	4.37	9	113	0.29	SE

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Integrated Waste Management Facilities, Phase 1  
Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
S3	20190118	Fine	Moderate	Mid-Ebb	S	1	10:46	9.83	8.05	29.23	18.5	3.84	7	112	0.47	SE
S3	20190118	Fine	Moderate	Mid-Ebb	S	1	10:46	9.81	8.12	29.6	18.4	3.86	7	114	0.45	SE
H1	20190118	Fine	Moderate	Mid-Ebb	B	8.1	10:33	9.43	8.12	29.5	18.5	5.41	7	113	0.13	SE
H1	20190118	Fine	Moderate	Mid-Ebb	B	8.1	10:34	9.47	8.06	29.06	18.5	5.34	8	114	0.11	SE
H1	20190118	Fine	Moderate	Mid-Ebb	M	4.6	10:35	9.51	8.15	29.72	18.4	4.41	6	113	0.28	SE
H1	20190118	Fine	Moderate	Mid-Ebb	M	4.6	10:35	9.51	8	29.65	18.5	4.49	6	113	0.28	SE
H1	20190118	Fine	Moderate	Mid-Ebb	S	1	10:36	9.6	8.19	29.26	18.5	3.89	8	113	0.5	SE
H1	20190118	Fine	Moderate	Mid-Ebb	S	1	10:37	9.69	8.01	29.69	18.5	3.84	8	113	0.52	SE
B3	20190118	Fine	Moderate	Mid-Ebb	B	4.6	10:51	8.71	8.17	29.48	18.4	5.32	4	113	0.1	E
B3	20190118	Fine	Moderate	Mid-Ebb	B	4.6	10:51	8.63	8.06	29.01	18.4	5.32	5	113	0.12	E
B3	20190118	Fine	Moderate	Mid-Ebb	S	1	10:52	8.6	8.12	29.91	18.5	3.79	7	113	0.44	E
B3	20190118	Fine	Moderate	Mid-Ebb	S	1	10:53	8.68	8.06	29.32	18.4	3.69	7	113	0.46	E
CR1	20190118	Fine	Moderate	Mid-Ebb	B	8.3	10:54	8.79	8.01	29.89	18.4	5.58	10	113	0.15	SE
CR1	20190118	Fine	Moderate	Mid-Ebb	B	8.3	10:55	8.85	8.14	29.68	18.4	5.64	9	114	0.17	SE
CR1	20190118	Fine	Moderate	Mid-Ebb	M	4.7	10:56	8.82	8.18	29.31	18.4	4.19	6	114	0.27	SE
CR1	20190118	Fine	Moderate	Mid-Ebb	M	4.7	10:57	8.76	8	29.5	18.5	4.13	7	112	0.26	SE
CR1	20190118	Fine	Moderate	Mid-Ebb	S	1	10:57	8.76	8.05	29.73	18.4	3.56	7	113	0.42	SE
CR1	20190118	Fine	Moderate	Mid-Ebb	S	1	10:58	8.8	8.09	29.73	18.5	3.6	8	113	0.42	SE
B4	20190118	Fine	Moderate	Mid-Ebb	B	4.5	11:06	8.52	8.06	29.41	18.5	5.42	8	113	0.15	SE
B4	20190118	Fine	Moderate	Mid-Ebb	B	4.5	11:06	8.58	8.01	29.43	18.5	5.45	8	112	0.14	SE
B4	20190118	Fine	Moderate	Mid-Ebb	S	1	11:07	8.57	8.05	29.37	18.4	3.24	6	113	0.45	SE
B4	20190118	Fine	Moderate	Mid-Ebb	S	1	11:08	8.54	8.01	30	18.4	3.23	6	113	0.46	SE
C2	20190118	Sunny	Moderate	Mid-Flood	B	8.8	13:26	9.12	8.17	29.63	18.4	5.73	5	113	0.14	NE
C2	20190118	Sunny	Moderate	Mid-Flood	B	8.8	13:26	9.04	8.09	29.25	18.5	5.68	6	113	0.14	NE
C2	20190118	Sunny	Moderate	Mid-Flood	M	4.9	13:27	9.08	8.14	29.39	18.4	4.78	6	112	0.26	NE
C2	20190118	Sunny	Moderate	Mid-Flood	M	4.9	13:28	9.08	8.05	29.59	18.5	4.84	5	112	0.25	NE
C2	20190118	Sunny	Moderate	Mid-Flood	S	1	13:28	9.1	8.07	29.16	18.5	3.97	7	111	0.45	NE
C2	20190118	Sunny	Moderate	Mid-Flood	S	1	13:29	9.02	8.13	29.34	18.5	4.02	6	112	0.45	NE
CR1	20190118	Sunny	Moderate	Mid-Flood	B	8.7	13:39	8.87	8.06	29.85	18.5	5.73	8	112	0.17	NW
CR1	20190118	Sunny	Moderate	Mid-Flood	B	8.7	13:40	8.84	8.08	29.95	18.4	5.81	7	113	0.19	NW
CR1	20190118	Sunny	Moderate	Mid-Flood	M	4.9	13:40	8.9	8.12	29.19	18.4	4.48	7	113	0.21	NW
CR1	20190118	Sunny	Moderate	Mid-Flood	M	4.9	13:41	8.84	8.01	29.85	18.4	4.58	6	113	0.2	NW

Contract No. EP/SP/66/12  
 Integrated Waste Management Facilities, Phase 1  
 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
CR1	20190118	Sunny	Moderate	Mid-Flood	S	1	13:42	8.75	8.04	29.8	18.4	3.69	5	112	0.5	NW
CR1	20190118	Sunny	Moderate	Mid-Flood	S	1	13:42	8.84	8.01	29.2	18.5	3.65	6	113	0.51	NW
CR2	20190118	Sunny	Moderate	Mid-Flood	B	8.7	13:46	8.68	8.15	29.69	18.4	5.5	5	114	0.13	W
CR2	20190118	Sunny	Moderate	Mid-Flood	B	8.7	13:47	8.59	8	29.21	18.5	5.49	5	113	0.12	W
CR2	20190118	Sunny	Moderate	Mid-Flood	M	4.9	13:48	8.54	8.16	29.22	18.5	4.91	7	113	0.23	W
CR2	20190118	Sunny	Moderate	Mid-Flood	M	4.9	13:48	8.64	8.02	29.59	18.4	4.98	7	112	0.25	W
CR2	20190118	Sunny	Moderate	Mid-Flood	S	1	13:49	8.54	8.04	29.55	18.4	3.44	7	112	0.45	W
CR2	20190118	Sunny	Moderate	Mid-Flood	S	1	13:50	8.6	8.07	29.27	18.5	3.53	6	112	0.46	W
S3	20190118	Sunny	Moderate	Mid-Flood	B	11.4	13:53	8.51	8.04	29.47	18.4	5.42	5	113	0.1	W
S3	20190118	Sunny	Moderate	Mid-Flood	B	11.4	13:54	8.51	8.13	29.67	18.4	5.51	6	113	0.11	W
S3	20190118	Sunny	Moderate	Mid-Flood	M	6.2	13:55	8.61	8.07	29.42	18.5	4.48	6	112	0.27	W
S3	20190118	Sunny	Moderate	Mid-Flood	M	6.2	13:56	8.57	8.02	29.18	18.4	4.51	6	114	0.29	W
S3	20190118	Sunny	Moderate	Mid-Flood	S	1	13:56	8.65	8.18	29.33	18.4	3.18	8	113	0.49	W
S3	20190118	Sunny	Moderate	Mid-Flood	S	1	13:57	8.73	8.16	29.24	18.5	3.27	8	113	0.5	W
F1	20190118	Sunny	Moderate	Mid-Flood	B	8.5	13:58	9.62	8.05	29.35	18.5	5.19	10	111	0.11	NW
F1	20190118	Sunny	Moderate	Mid-Flood	B	8.5	13:58	9.64	8.01	29.52	18.5	5.11	10	112	0.09	NW
F1	20190118	Sunny	Moderate	Mid-Flood	M	4.8	13:59	9.58	8.12	29.51	18.4	4.99	6	112	0.23	NW
F1	20190118	Sunny	Moderate	Mid-Flood	M	4.8	14:00	9.63	8.13	29.78	18.4	5.05	6	112	0.21	NW
F1	20190118	Sunny	Moderate	Mid-Flood	S	1	14:01	9.67	8.05	29.34	18.5	3.83	5	112	0.44	NW
F1	20190118	Sunny	Moderate	Mid-Flood	S	1	14:01	9.68	8.03	29.82	18.5	3.74	6	112	0.44	NW
C1	20190118	Sunny	Moderate	Mid-Flood	B	11.6	14:21	8.72	8.2	29.35	18.4	5.91	9	112	0.2	NW
C1	20190118	Sunny	Moderate	Mid-Flood	B	11.6	14:22	8.73	8.19	29.72	18.4	5.89	9	112	0.19	NW
C1	20190118	Sunny	Moderate	Mid-Flood	M	6.3	14:22	8.7	8.08	29.59	18.5	4.82	8	113	0.27	NW
C1	20190118	Sunny	Moderate	Mid-Flood	M	6.3	14:23	8.73	8.13	29.37	18.5	4.72	8	113	0.26	NW
C1	20190118	Sunny	Moderate	Mid-Flood	S	1	14:24	8.82	8.05	29.62	18.5	3.77	6	113	0.4	NW
C1	20190118	Sunny	Moderate	Mid-Flood	S	1	14:25	8.83	8.04	29.13	18.5	3.87	6	113	0.41	NW
M1	20190118	Sunny	Moderate	Mid-Flood	B	8.8	14:31	8.81	8.06	29.15	18.5	5.42	6	114	0.12	SW
M1	20190118	Sunny	Moderate	Mid-Flood	B	8.8	14:32	8.72	8.13	29.25	18.5	5.36	6	113	0.13	SW
M1	20190118	Sunny	Moderate	Mid-Flood	M	4.9	14:33	8.74	8.17	29.3	18.4	4.53	6	112	0.28	SW
M1	20190118	Sunny	Moderate	Mid-Flood	M	4.9	14:33	8.71	8	29.7	18.5	4.59	7	113	0.28	SW
M1	20190118	Sunny	Moderate	Mid-Flood	S	1	14:34	8.73	8.08	29.18	18.4	3.89	5	112	0.44	SW
M1	20190118	Sunny	Moderate	Mid-Flood	S	1	14:35	8.72	8.08	29.94	18.4	3.82	6	112	0.42	SW

Contract No. EP/SP/66/12  
Integrated Waste Management Facilities, Phase 1  
Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B1	20190118	Sunny	Moderate	Mid-Flood	B	4.8	14:44	8.96	8.16	29.98	18.5	5.29	8	112	0.19	SW
B1	20190118	Sunny	Moderate	Mid-Flood	B	4.8	14:44	9.04	8.02	29.16	18.5	5.31	8	112	0.17	SW
B1	20190118	Sunny	Moderate	Mid-Flood	S	1	14:45	8.94	8.13	29.15	18.5	4	5	112	0.48	SW
B1	20190118	Sunny	Moderate	Mid-Flood	S	1	14:46	9.03	8.19	29.95	18.4	3.91	6	112	0.48	SW
S1	20190118	Sunny	Moderate	Mid-Flood	B	4.9	14:54	9.21	8.2	29.29	18.5	5	5	113	0.16	W
S1	20190118	Sunny	Moderate	Mid-Flood	B	4.9	14:54	9.28	8.11	29.59	18.5	4.96	6	113	0.17	W
S1	20190118	Sunny	Moderate	Mid-Flood	S	1	14:55	9.38	8.11	29.75	18.5	3.14	6	112	0.41	W
S1	20190118	Sunny	Moderate	Mid-Flood	S	1	14:56	9.45	8.13	29.68	18.5	3.21	6	113	0.4	W
B2	20190118	Sunny	Moderate	Mid-Flood	B	4.7	15:05	9.5	8	29.05	18.5	5.95	8	113	0.12	N
B2	20190118	Sunny	Moderate	Mid-Flood	B	4.7	15:06	9.54	8.06	29.63	18.5	5.91	8	113	0.12	N
B2	20190118	Sunny	Moderate	Mid-Flood	S	1	15:07	9.45	8.01	29.41	18.4	3	9	112	0.5	N
B2	20190118	Sunny	Moderate	Mid-Flood	S	1	15:08	9.44	8.12	29.74	18.5	3.02	9	112	0.52	N
S2	20190118	Sunny	Moderate	Mid-Flood	B	7.9	15:22	9.35	8.18	29.32	18.5	5.05	5	113	0.1	NW
S2	20190118	Sunny	Moderate	Mid-Flood	B	7.9	15:23	9.43	8.09	29.45	18.4	5.12	5	113	0.11	NW
S2	20190118	Sunny	Moderate	Mid-Flood	M	4.5	15:24	9.37	8	29.17	18.5	4.7	8	113	0.29	NW
S2	20190118	Sunny	Moderate	Mid-Flood	M	4.5	15:24	9.46	8.19	29.38	18.5	4.7	8	112	0.3	NW
S2	20190118	Sunny	Moderate	Mid-Flood	S	1	15:25	9.47	8.04	29.79	18.4	3.04	10	113	0.47	NW
S2	20190118	Sunny	Moderate	Mid-Flood	S	1	15:26	9.43	8.2	29.34	18.4	3.13	9	113	0.48	NW
H1	20190118	Sunny	Moderate	Mid-Flood	B	8.4	15:24	8.66	8.1	29.56	18.5	5.14	8	113	0.17	W
H1	20190118	Sunny	Moderate	Mid-Flood	B	8.4	15:24	8.73	8.15	29.19	18.5	5.19	7	112	0.17	W
H1	20190118	Sunny	Moderate	Mid-Flood	M	4.7	15:25	8.7	8	29.92	18.5	4.59	7	112	0.27	W
H1	20190118	Sunny	Moderate	Mid-Flood	M	4.7	15:26	8.62	8.19	29.2	18.4	4.55	6	111	0.26	W
H1	20190118	Sunny	Moderate	Mid-Flood	S	1	15:26	8.55	8.17	29.59	18.4	3.97	6	111	0.49	W
H1	20190118	Sunny	Moderate	Mid-Flood	S	1	15:27	8.49	8.08	29.76	18.5	3.98	7	113	0.47	W
B3	20190118	Sunny	Moderate	Mid-Flood	B	4.8	15:35	8.62	8.19	29.26	18.5	5.61	7	113	0.17	NW
B3	20190118	Sunny	Moderate	Mid-Flood	B	4.8	15:36	8.72	8.15	29.39	18.5	5.6	7	112	0.19	NW
B3	20190118	Sunny	Moderate	Mid-Flood	S	1	15:36	8.71	8.15	29.45	18.5	3.98	7	112	0.49	NW
B3	20190118	Sunny	Moderate	Mid-Flood	S	1	15:37	8.66	8.13	29.28	18.5	3.88	7	113	0.48	NW
B4	20190118	Sunny	Moderate	Mid-Flood	B	4.7	15:42	9.44	8.06	29.49	18.5	5.77	8	114	0.14	N
B4	20190118	Sunny	Moderate	Mid-Flood	B	4.7	15:42	9.38	8	29.38	18.4	5.78	7	112	0.14	N
B4	20190118	Sunny	Moderate	Mid-Flood	S	1	15:43	9.36	8.04	29.89	18.5	3.55	6	112	0.5	N
B4	20190118	Sunny	Moderate	Mid-Flood	S	1	15:44	9.3	8.19	29.63	18.5	3.48	6	113	0.51	N

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 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C1	20190121	Fine	Moderate	Mid-Ebb	B	10.6	11:28	8.88	8.02	29.64	22.1	6.24	4	113	0.14	E
C1	20190121	Fine	Moderate	Mid-Ebb	B	10.6	11:28	8.81	8.13	29.87	22.1	6.2	4	113	0.13	E
C1	20190121	Fine	Moderate	Mid-Ebb	M	5.8	11:29	8.89	8.1	29.48	22.2	3.8	3	113	0.22	E
C1	20190121	Fine	Moderate	Mid-Ebb	M	5.8	11:30	8.91	8.04	30.59	22.1	3.86	4	112	0.22	E
C1	20190121	Fine	Moderate	Mid-Ebb	S	1	11:30	8.82	8.11	29.72	22.2	2.78	3	112	0.3	E
C1	20190121	Fine	Moderate	Mid-Ebb	S	1	11:31	8.88	8.12	30.45	22.1	2.85	4	113	0.3	E
F1	20190121	Fine	Moderate	Mid-Ebb	B	8.1	11:30	9.17	8.06	30.24	22.2	6.4	5	113	0.2	SE
F1	20190121	Fine	Moderate	Mid-Ebb	B	8.1	11:31	9.15	8.03	29.97	22.1	6.45	5	113	0.22	SE
F1	20190121	Fine	Moderate	Mid-Ebb	M	4.6	11:31	9.08	8.04	29.8	22.2	3.88	6	113	0.22	SE
F1	20190121	Fine	Moderate	Mid-Ebb	M	4.6	11:32	9.18	8.04	30.51	22.1	3.79	5	113	0.2	SE
F1	20190121	Fine	Moderate	Mid-Ebb	S	1	11:33	9.23	8.16	29.47	22.2	2.6	5	113	0.38	SE
F1	20190121	Fine	Moderate	Mid-Ebb	S	1	11:33	9.25	8.16	30.09	22.2	2.69	4	113	0.37	SE
B1	20190121	Fine	Moderate	Mid-Ebb	B	4.5	11:51	8.83	8.2	30.26	22.2	6.28	6	114	0.1	NE
B1	20190121	Fine	Moderate	Mid-Ebb	B	4.5	11:52	8.82	8.06	30.41	22.2	6.27	7	112	0.09	NE
B1	20190121	Fine	Moderate	Mid-Ebb	S	1	11:53	8.8	8.06	29.65	22.1	2.76	8	113	0.31	NE
B1	20190121	Fine	Moderate	Mid-Ebb	S	1	11:53	8.74	8.03	30.48	22.2	2.67	7	113	0.33	NE
M1	20190121	Fine	Moderate	Mid-Ebb	B	8	11:58	9.17	8.04	30.38	22.2	5.65	9	112	0.18	S
M1	20190121	Fine	Moderate	Mid-Ebb	B	8	11:59	9.18	8.07	30.59	22.1	5.61	9	113	0.18	S
M1	20190121	Fine	Moderate	Mid-Ebb	M	4.5	11:59	9.27	8.03	29.86	22.2	3.51	7	113	0.26	S
M1	20190121	Fine	Moderate	Mid-Ebb	M	4.5	12:00	9.3	8.16	29.68	22.2	3.5	8	113	0.28	S
M1	20190121	Fine	Moderate	Mid-Ebb	S	1	12:01	9.39	8.11	29.95	22.2	3.17	4	113	0.38	S
M1	20190121	Fine	Moderate	Mid-Ebb	S	1	12:02	9.46	8.01	30.49	22.2	3.1	6	114	0.38	S
S1	20190121	Fine	Moderate	Mid-Ebb	B	4.4	12:02	9.24	8.03	29.66	22.1	5.52	5	113	0.15	E
S1	20190121	Fine	Moderate	Mid-Ebb	B	4.4	12:03	9.26	8	29.6	22.2	5.53	5	113	0.13	E
S1	20190121	Fine	Moderate	Mid-Ebb	S	1	12:04	9.3	8.02	30.58	22.1	2.8	4	113	0.37	E
S1	20190121	Fine	Moderate	Mid-Ebb	S	1	12:04	9.3	8.1	29.64	22.2	2.9	5	113	0.35	E
B2	20190121	Fine	Moderate	Mid-Ebb	B	4.5	12:12	9.58	8.18	30.32	22.2	6.34	4	113	0.14	SE
B2	20190121	Fine	Moderate	Mid-Ebb	B	4.5	12:13	9.63	8.05	30	22.2	6.42	4	115	0.15	SE
B2	20190121	Fine	Moderate	Mid-Ebb	S	1	12:14	9.61	8.02	30.25	22.1	3.06	3	114	0.38	SE
B2	20190121	Fine	Moderate	Mid-Ebb	S	1	12:14	9.54	8.11	29.81	22.1	3.01	3	112	0.37	SE
C2	20190121	Fine	Moderate	Mid-Ebb	B	8.3	12:24	9.49	8.19	29.88	22.2	6.38	6	114	0.17	S
C2	20190121	Fine	Moderate	Mid-Ebb	B	8.3	12:25	9.43	8.01	29.97	22.2	6.47	7	113	0.18	S

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C2	20190121	Fine	Moderate	Mid-Ebb	M	4.7	12:25	9.46	8.17	29.71	22.2	3.68	6	113	0.21	S
C2	20190121	Fine	Moderate	Mid-Ebb	M	4.7	12:26	9.47	8.07	30.67	22.1	3.77	6	114	0.21	S
C2	20190121	Fine	Moderate	Mid-Ebb	S	1	12:27	9.39	8.16	29.6	22.2	2.76	5	113	0.36	S
C2	20190121	Fine	Moderate	Mid-Ebb	S	1	12:28	9.37	8.1	29.7	22.2	2.7	5	113	0.35	S
S2	20190121	Fine	Moderate	Mid-Ebb	B	7.8	12:27	9.69	8.03	30.39	22.1	5.86	4	113	0.16	SE
S2	20190121	Fine	Moderate	Mid-Ebb	B	7.8	12:28	9.59	8.18	29.53	22.2	5.8	4	113	0.16	SE
S2	20190121	Fine	Moderate	Mid-Ebb	M	4.4	12:29	9.62	8.11	29.63	22.1	4.37	4	113	0.29	SE
S2	20190121	Fine	Moderate	Mid-Ebb	M	4.4	12:29	9.54	8.04	30.07	22.1	4.37	5	113	0.31	SE
S2	20190121	Fine	Moderate	Mid-Ebb	S	1	12:30	9.62	8.01	29.46	22.2	3.04	3	112	0.37	SE
S2	20190121	Fine	Moderate	Mid-Ebb	S	1	12:31	9.66	8.2	29.64	22.1	3.06	4	113	0.39	SE
S3	20190121	Fine	Moderate	Mid-Ebb	B	10.7	12:39	9.6	8.17	29.43	22.2	6.2	2	113	0.15	SE
S3	20190121	Fine	Moderate	Mid-Ebb	B	10.7	12:39	9.55	8.01	30.09	22.2	6.25	3	113	0.17	SE
S3	20190121	Fine	Moderate	Mid-Ebb	M	5.9	12:40	9.57	8.11	29.98	22.1	4.45	3	113	0.24	SE
S3	20190121	Fine	Moderate	Mid-Ebb	M	5.9	12:41	9.61	8.15	30.66	22.1	4.44	4	113	0.23	SE
S3	20190121	Fine	Moderate	Mid-Ebb	S	1	12:41	9.52	8.2	29.51	22.1	2.98	4	113	0.3	SE
S3	20190121	Fine	Moderate	Mid-Ebb	S	1	12:42	9.59	8.16	29.94	22.2	3.02	3	114	0.3	SE
H1	20190121	Fine	Moderate	Mid-Ebb	B	7.9	12:44	9.24	8.14	30.38	22.1	5.5	9	112	0.17	E
H1	20190121	Fine	Moderate	Mid-Ebb	B	7.9	12:45	9.2	8	29.84	22.2	5.59	8	113	0.15	E
H1	20190121	Fine	Moderate	Mid-Ebb	M	4.5	12:45	9.24	8.15	29.49	22.2	4.24	7	112	0.26	E
H1	20190121	Fine	Moderate	Mid-Ebb	M	4.5	12:46	9.21	8.04	30.17	22.2	4.16	6	114	0.28	E
H1	20190121	Fine	Moderate	Mid-Ebb	S	1	12:47	9.3	8.03	30.06	22.1	2.73	7	113	0.32	E
H1	20190121	Fine	Moderate	Mid-Ebb	S	1	12:47	9.24	8.08	29.93	22.1	2.76	7	113	0.33	E
CR2	20190121	Fine	Moderate	Mid-Ebb	B	8	12:48	9.47	8.12	30.22	22.1	5.85	3	112	0.13	SE
CR2	20190121	Fine	Moderate	Mid-Ebb	B	8	12:49	9.5	8.2	29.48	22.2	5.76	3	113	0.13	SE
CR2	20190121	Fine	Moderate	Mid-Ebb	M	4.5	12:50	9.55	8.08	29.66	22.1	4.45	4	113	0.3	SE
CR2	20190121	Fine	Moderate	Mid-Ebb	M	4.5	12:50	9.6	8	29.44	22.2	4.43	3	113	0.32	SE
CR2	20190121	Fine	Moderate	Mid-Ebb	S	1	12:51	9.59	8.16	29.61	22.2	3.19	4	114	0.38	SE
CR2	20190121	Fine	Moderate	Mid-Ebb	S	1	12:52	9.61	8.06	29.95	22.2	3.17	4	113	0.38	SE
B3	20190121	Fine	Moderate	Mid-Ebb	B	4.4	12:59	9.1	8.06	30.49	22.2	5.67	4	112	0.2	E
B3	20190121	Fine	Moderate	Mid-Ebb	B	4.4	12:59	9.02	8.04	30	22.1	5.62	4	114	0.19	E
B3	20190121	Fine	Moderate	Mid-Ebb	S	1	13:00	8.93	8.15	30.6	22.2	3.45	6	113	0.32	E
B3	20190121	Fine	Moderate	Mid-Ebb	S	1	13:01	8.87	8	30.2	22.1	3.49	6	112	0.3	E



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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B4	20190121	Fine	Moderate	Mid-Ebb	B	4.5	13:14	9.48	8.09	30.51	22.1	6.1	7	112	0.15	SE
B4	20190121	Fine	Moderate	Mid-Ebb	B	4.5	13:15	9.55	8.19	29.73	22.2	6.2	6	112	0.14	SE
B4	20190121	Fine	Moderate	Mid-Ebb	S	1	13:16	9.45	8.05	29.4	22.1	2.72	5	114	0.4	SE
B4	20190121	Fine	Moderate	Mid-Ebb	S	1	13:17	9.44	8.12	29.71	22.1	2.66	6	113	0.39	SE
CR1	20190121	Fine	Moderate	Mid-Ebb	B	8	13:05	9.18	8.07	29.63	22.2	6.11	4	114	0.2	E
CR1	20190121	Fine	Moderate	Mid-Ebb	B	8	13:06	9.26	8.2	30.55	22.1	6.12	3	113	0.22	E
CR1	20190121	Fine	Moderate	Mid-Ebb	M	4.5	13:07	9.27	8.07	30.31	22.2	4.31	2	113	0.25	E
CR1	20190121	Fine	Moderate	Mid-Ebb	M	4.5	13:07	9.32	8.17	30.58	22.1	4.29	2	113	0.25	E
CR1	20190121	Fine	Moderate	Mid-Ebb	S	1	13:08	9.29	8.01	30.48	22.1	2.8	4	112	0.32	E
CR1	20190121	Fine	Moderate	Mid-Ebb	S	1	13:09	9.26	8.07	30.4	22.2	2.71	3	113	0.32	E
C2	20190121	Sunny	Moderate	Mid-Flood	B	9.1	16:07	9.39	8.09	29.79	22.1	6.16	5	113	0.13	NE
C2	20190121	Sunny	Moderate	Mid-Flood	B	9.1	16:07	9.46	8.1	29.54	22.2	6.12	5	113	0.13	NE
C2	20190121	Sunny	Moderate	Mid-Flood	M	5.1	16:08	9.48	8.12	29.95	22.1	3.93	5	112	0.21	NE
C2	20190121	Sunny	Moderate	Mid-Flood	M	5.1	16:09	9.4	8.16	29.89	22.1	3.91	4	114	0.2	NE
C2	20190121	Sunny	Moderate	Mid-Flood	S	1	16:09	9.43	8.1	30.43	22.2	3.07	5	114	0.31	NE
C2	20190121	Sunny	Moderate	Mid-Flood	S	1	16:10	9.45	8	30.29	22.1	3.15	6	114	0.32	NE
CR1	20190121	Sunny	Moderate	Mid-Flood	B	8.8	16:09	9.25	8.2	30.51	22.2	6.39	7	113	0.11	NW
CR1	20190121	Sunny	Moderate	Mid-Flood	B	8.8	16:10	9.21	8.14	29.49	22.1	6.3	6	113	0.09	NW
CR1	20190121	Sunny	Moderate	Mid-Flood	M	4.9	16:10	9.14	8.08	30.51	22.1	3.94	6	113	0.21	NW
CR1	20190121	Sunny	Moderate	Mid-Flood	M	4.9	16:11	9.21	8.12	29.98	22.1	3.96	6	112	0.2	NW
CR1	20190121	Sunny	Moderate	Mid-Flood	S	1	16:12	9.31	8.02	30.6	22.2	2.54	7	114	0.3	NW
CR1	20190121	Sunny	Moderate	Mid-Flood	S	1	16:12	9.36	8.16	29.58	22.2	2.52	7	113	0.31	NW
S3	20190121	Sunny	Moderate	Mid-Flood	B	11.7	16:19	9.53	8.09	29.49	22.2	5.72	6	113	0.17	W
S3	20190121	Sunny	Moderate	Mid-Flood	B	11.7	16:20	9.46	8.09	29.72	22.2	5.73	6	113	0.16	W
S3	20190121	Sunny	Moderate	Mid-Flood	M	6.4	16:21	9.47	8.1	30.23	22.2	3.78	5	113	0.28	W
S3	20190121	Sunny	Moderate	Mid-Flood	M	6.4	16:21	9.38	8.11	30.42	22.2	3.69	6	114	0.29	W
S3	20190121	Sunny	Moderate	Mid-Flood	S	1	16:22	9.43	8.17	30.5	22.1	2.73	3	112	0.3	W
S3	20190121	Sunny	Moderate	Mid-Flood	S	1	16:23	9.48	8.18	30.49	22.2	2.7	<2	114	0.31	W
CR2	20190121	Sunny	Moderate	Mid-Flood	B	8.4	16:27	9.09	8.04	29.7	22.1	5.52	4	114	0.18	W
CR2	20190121	Sunny	Moderate	Mid-Flood	B	8.4	16:28	9.1	8.18	29.52	22.2	5.55	4	114	0.18	W
CR2	20190121	Sunny	Moderate	Mid-Flood	M	4.7	16:29	9.02	8.03	30.37	22.1	4.41	5	113	0.25	W
CR2	20190121	Sunny	Moderate	Mid-Flood	M	4.7	16:30	9	8.03	30.01	22.2	4.37	5	113	0.24	W

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 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
CR2	20190121	Sunny	Moderate	Mid-Flood	S	1	16:30	9.05	8.12	29.92	22.2	3.47	5	113	0.37	W
CR2	20190121	Sunny	Moderate	Mid-Flood	S	1	16:31	9	8.05	29.96	22.2	3.57	6	113	0.39	W
F1	20190121	Sunny	Moderate	Mid-Flood	B	8.5	16:30	8.81	8.1	29.71	22.2	6.38	5	113	0.18	NW
F1	20190121	Sunny	Moderate	Mid-Flood	B	8.5	16:30	8.84	8.1	30.23	22.1	6.43	5	113	0.2	NW
F1	20190121	Sunny	Moderate	Mid-Flood	M	4.8	16:31	8.79	8.1	29.82	22.1	4.23	5	113	0.24	NW
F1	20190121	Sunny	Moderate	Mid-Flood	M	4.8	16:32	8.87	8.18	30.58	22.1	4.13	6	114	0.23	NW
F1	20190121	Sunny	Moderate	Mid-Flood	S	1	16:33	8.95	8.14	29.54	22.1	3.43	5	114	0.4	NW
F1	20190121	Sunny	Moderate	Mid-Flood	S	1	16:33	8.92	8.18	30.63	22.1	3.38	5	114	0.42	NW
C1	20190121	Sunny	Moderate	Mid-Flood	B	11.6	16:58	9.67	8.18	30.28	22.1	5.83	4	113	0.19	NW
C1	20190121	Sunny	Moderate	Mid-Flood	B	11.6	16:59	9.77	8.14	30.29	22.2	5.89	5	113	0.17	NW
C1	20190121	Sunny	Moderate	Mid-Flood	M	6.3	16:59	9.72	8.19	29.79	22.2	3.85	5	114	0.25	NW
C1	20190121	Sunny	Moderate	Mid-Flood	M	6.3	17:00	9.82	8.17	30.3	22.2	3.8	4	114	0.26	NW
C1	20190121	Sunny	Moderate	Mid-Flood	S	1	17:01	9.73	8.17	30.31	22.1	2.93	4	112	0.37	NW
C1	20190121	Sunny	Moderate	Mid-Flood	S	1	17:02	9.71	8.06	30.21	22.1	2.94	4	113	0.36	NW
M1	20190121	Sunny	Moderate	Mid-Flood	B	8.5	17:05	9.43	8.07	30.47	22.1	6.03	5	112	0.13	SW
M1	20190121	Sunny	Moderate	Mid-Flood	B	8.5	17:06	9.46	8.01	29.52	22.1	6.02	5	113	0.14	SW
M1	20190121	Sunny	Moderate	Mid-Flood	M	4.8	17:07	9.4	8.03	29.93	22.1	3.99	6	113	0.27	SW
M1	20190121	Sunny	Moderate	Mid-Flood	M	4.8	17:07	9.33	8.03	29.45	22.1	3.92	5	113	0.26	SW
M1	20190121	Sunny	Moderate	Mid-Flood	S	1	17:08	9.31	8.17	30.28	22.1	3.06	6	114	0.34	SW
M1	20190121	Sunny	Moderate	Mid-Flood	S	1	17:09	9.33	8.11	30.07	22.1	2.97	6	114	0.35	SW
B1	20190121	Sunny	Moderate	Mid-Flood	B	4.8	17:22	9.35	8.13	30.22	22.2	5.61	5	113	0.14	NW
B1	20190121	Sunny	Moderate	Mid-Flood	B	4.8	17:22	9.28	8.14	29.71	22.2	5.52	4	113	0.15	NW
B1	20190121	Sunny	Moderate	Mid-Flood	S	1	17:23	9.2	8.13	30.5	22.1	3.18	3	113	0.37	NW
B1	20190121	Sunny	Moderate	Mid-Flood	S	1	17:24	9.23	8.15	30.56	22.1	3.27	3	113	0.37	NW
S1	20190121	Sunny	Moderate	Mid-Flood	B	4.7	17:32	9.26	8.12	29.59	22.1	6.39	4	113	0.13	N
S1	20190121	Sunny	Moderate	Mid-Flood	B	4.7	17:32	9.26	8.1	30.06	22.1	6.41	3	114	0.12	N
S1	20190121	Sunny	Moderate	Mid-Flood	S	1	17:33	9.23	8.11	30.6	22.2	3.18	3	113	0.39	N
S1	20190121	Sunny	Moderate	Mid-Flood	S	1	17:34	9.16	8.1	29.54	22.1	3.27	3	114	0.37	N
B2	20190121	Sunny	Moderate	Mid-Flood	B	4.8	17:42	9.01	8.01	30.61	22.1	6.49	4	113	0.12	N
B2	20190121	Sunny	Moderate	Mid-Flood	B	4.8	17:43	8.94	8.06	29.8	22.1	6.47	3	113	0.1	N
B2	20190121	Sunny	Moderate	Mid-Flood	S	1	17:44	9.04	8.12	30.42	22.2	2.7	4	114	0.37	N
B2	20190121	Sunny	Moderate	Mid-Flood	S	1	17:45	9.09	8.2	30.11	22.2	2.76	4	113	0.38	N

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
H1	20190121	Sunny	Moderate	Mid-Flood	B	8.2	17:46	9.12	8.02	30.46	22.2	5.51	5	114	0.15	W
H1	20190121	Sunny	Moderate	Mid-Flood	B	8.2	17:47	9.13	8.12	30.09	22.1	5.48	5	112	0.14	W
H1	20190121	Sunny	Moderate	Mid-Flood	M	4.6	17:48	9.14	8.19	30.61	22.1	4.16	5	113	0.21	W
H1	20190121	Sunny	Moderate	Mid-Flood	M	4.6	17:48	9.1	8.15	30.46	22.2	4.2	4	113	0.19	W
H1	20190121	Sunny	Moderate	Mid-Flood	S	1	17:49	9.09	8.1	30.19	22.1	3.06	5	114	0.4	W
H1	20190121	Sunny	Moderate	Mid-Flood	S	1	17:50	9.02	8.16	30.18	22.2	3.04	5	114	0.4	W
S2	20190121	Sunny	Moderate	Mid-Flood	B	8.5	17:58	9.59	8.12	30.54	22.2	5.55	7	114	0.13	NW
S2	20190121	Sunny	Moderate	Mid-Flood	B	8.5	17:58	9.58	8.06	29.82	22.2	5.6	7	112	0.15	NW
S2	20190121	Sunny	Moderate	Mid-Flood	M	4.8	17:59	9.65	8.05	29.94	22.1	4.3	6	114	0.3	NW
S2	20190121	Sunny	Moderate	Mid-Flood	M	4.8	18:00	9.58	8.18	30.57	22.2	4.24	5	113	0.31	NW
S2	20190121	Sunny	Moderate	Mid-Flood	S	1	18:00	9.67	8.02	30.67	22.2	3.26	6	113	0.35	NW
S2	20190121	Sunny	Moderate	Mid-Flood	S	1	18:01	9.59	8.04	30.33	22.1	3.21	5	112	0.36	NW
B3	20190121	Sunny	Moderate	Mid-Flood	B	4.6	18:04	8.85	8.04	29.92	22.2	5.78	7	114	0.11	NW
B3	20190121	Sunny	Moderate	Mid-Flood	B	4.6	18:05	8.93	8.14	30.22	22.1	5.75	6	114	0.11	NW
B3	20190121	Sunny	Moderate	Mid-Flood	S	1	18:05	8.91	8.03	30.53	22.1	2.76	6	113	0.38	NW
B3	20190121	Sunny	Moderate	Mid-Flood	S	1	18:06	8.98	8.01	30.23	22.1	2.86	5	112	0.4	NW
B4	20190121	Sunny	Moderate	Mid-Flood	B	4.7	18:15	8.99	8.07	29.48	22.2	5.86	5	113	0.16	N
B4	20190121	Sunny	Moderate	Mid-Flood	B	4.7	18:15	8.91	8.14	30.26	22.1	5.84	5	114	0.14	N
B4	20190121	Sunny	Moderate	Mid-Flood	S	1	18:16	8.98	8.19	30.58	22.2	2.77	5	112	0.36	N
B4	20190121	Sunny	Moderate	Mid-Flood	S	1	18:17	8.88	8.03	29.51	22.1	2.85	4	112	0.38	N
C1	20190123	Sunny	Light	Mid-Ebb	B	10.7	13:07	9.83	8.38	31.03	22.8	4.22	7	113	0.27	E
C1	20190123	Sunny	Light	Mid-Ebb	B	10.7	13:07	9.9	8.25	30.9	22.7	4.19	6	113	0.26	E
C1	20190123	Sunny	Light	Mid-Ebb	M	5.9	13:08	9.9	8.42	31.31	22.7	3.93	6	113	0.3	E
C1	20190123	Sunny	Light	Mid-Ebb	M	5.9	13:09	9.84	8.14	31.46	22.8	3.84	6	113	0.31	E
C1	20190123	Sunny	Light	Mid-Ebb	S	1	13:09	9.75	8.5	31.26	22.8	2.96	8	113	0.2	E
C1	20190123	Sunny	Light	Mid-Ebb	S	1	13:10	9.69	8.3	31.13	22.8	2.92	7	112	0.2	E
M1	20190123	Sunny	Light	Mid-Ebb	B	8.1	13:13	9.7	8.22	31.09	22.8	4.99	5	113	0.24	SW
M1	20190123	Sunny	Light	Mid-Ebb	B	8.1	13:14	9.64	8.22	31.79	22.8	5.03	6	113	0.26	SW
M1	20190123	Sunny	Light	Mid-Ebb	M	4.6	13:14	9.6	8.36	31.45	22.7	3.39	5	113	0.27	SW
M1	20190123	Sunny	Light	Mid-Ebb	M	4.6	13:15	9.61	8.08	31.53	22.7	3.4	6	113	0.25	SW
M1	20190123	Sunny	Light	Mid-Ebb	S	1	13:16	9.58	8.03	31.59	22.8	2.96	5	112	0.2	SW
M1	20190123	Sunny	Light	Mid-Ebb	S	1	13:16	9.59	8.38	31.37	22.7	2.98	5	113	0.19	SW

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B1	20190123	Sunny	Light	Mid-Ebb	B	4.4	13:29	9.87	8.43	31.28	22.7	4.48	6	113	0.24	NE
B1	20190123	Sunny	Light	Mid-Ebb	B	4.4	13:30	9.95	8.2	31	22.7	4.54	5	113	0.26	NE
B1	20190123	Sunny	Light	Mid-Ebb	S	1	13:31	9.88	8.47	30.88	22.7	2.97	8	113	0.2	NE
B1	20190123	Sunny	Light	Mid-Ebb	S	1	13:31	9.78	8.46	30.83	22.8	2.94	8	113	0.22	NE
S1	20190123	Sunny	Light	Mid-Ebb	B	4.3	13:40	10.29	8.33	31.39	22.7	4.73	3	113	0.2	E
S1	20190123	Sunny	Light	Mid-Ebb	B	4.3	13:41	10.24	8.06	31.44	22.8	4.69	3	113	0.19	E
S1	20190123	Sunny	Light	Mid-Ebb	S	1	13:41	10.24	8.47	30.92	22.7	2.88	5	112	0.15	E
S1	20190123	Sunny	Light	Mid-Ebb	S	1	13:42	10.24	8.26	31.69	22.7	2.93	4	113	0.15	E
F1	20190123	Sunny	Light	Mid-Ebb	B	7.8	13:41	9.98	8.24	31.48	22.7	4.9	6	113	0.3	SE
F1	20190123	Sunny	Light	Mid-Ebb	B	7.8	13:42	9.97	8.39	31.26	22.7	4.85	7	112	0.32	SE
F1	20190123	Sunny	Light	Mid-Ebb	M	4.4	13:42	9.97	8.24	31.72	22.8	3.15	7	113	0.21	SE
F1	20190123	Sunny	Light	Mid-Ebb	M	4.4	13:43	10	8.02	31.72	22.8	3.22	6	114	0.23	SE
F1	20190123	Sunny	Light	Mid-Ebb	S	1	13:44	10.09	8.19	30.94	22.7	2.14	4	113	0.23	SE
F1	20190123	Sunny	Light	Mid-Ebb	S	1	13:44	10.11	8.32	31.66	22.8	2.05	4	112	0.25	SE
B2	20190123	Sunny	Light	Mid-Ebb	B	4.4	13:49	10.53	8.44	31.8	22.7	4.79	8	114	0.2	SE
B2	20190123	Sunny	Light	Mid-Ebb	B	4.4	13:50	10.62	8.43	31.66	22.7	4.7	7	112	0.19	SE
B2	20190123	Sunny	Light	Mid-Ebb	S	1	13:51	10.68	8.13	31.76	22.8	2.97	5	114	0.16	SE
B2	20190123	Sunny	Light	Mid-Ebb	S	1	13:51	10.69	8.1	31.16	22.8	2.87	5	113	0.15	SE
S2	20190123	Sunny	Light	Mid-Ebb	B	7.9	14:05	10.26	8	31.71	22.8	4.23	8	112	0.22	SE
S2	20190123	Sunny	Light	Mid-Ebb	B	7.9	14:06	10.24	8.24	31	22.7	4.25	7	113	0.21	SE
S2	20190123	Sunny	Light	Mid-Ebb	M	4.5	14:06	10.28	8.23	30.94	22.8	3.68	4	114	0.2	SE
S2	20190123	Sunny	Light	Mid-Ebb	M	4.5	14:07	10.23	8.25	31.41	22.8	3.76	5	113	0.2	SE
S2	20190123	Sunny	Light	Mid-Ebb	S	1	14:08	10.29	8.3	31.76	22.8	2.26	4	113	0.17	SE
S2	20190123	Sunny	Light	Mid-Ebb	S	1	14:09	10.21	8.04	31.58	22.7	2.3	5	112	0.19	SE
C2	20190123	Sunny	Light	Mid-Ebb	B	8.4	14:07	9.73	8.4	30.75	22.7	4.67	9	112	0.24	S
C2	20190123	Sunny	Light	Mid-Ebb	B	8.4	14:08	9.8	8	30.8	22.8	4.75	8	113	0.22	S
C2	20190123	Sunny	Light	Mid-Ebb	M	4.7	14:09	9.72	8.35	31.01	22.7	3.82	8	114	0.25	S
C2	20190123	Sunny	Light	Mid-Ebb	M	4.7	14:09	9.65	8.07	31.74	22.7	3.78	7	113	0.25	S
C2	20190123	Sunny	Light	Mid-Ebb	S	1	14:10	9.75	8.15	31.4	22.7	2.82	10	112	0.2	S
C2	20190123	Sunny	Light	Mid-Ebb	S	1	14:11	9.84	8.28	31.19	22.7	2.76	10	113	0.19	S
CR2	20190123	Sunny	Light	Mid-Ebb	B	8.1	14:18	9.81	8.2	31.67	22.7	4.78	4	113	0.24	SE
CR2	20190123	Sunny	Light	Mid-Ebb	B	8.1	14:18	9.81	8.46	30.89	22.8	4.8	4	113	0.26	SE

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
CR2	20190123	Sunny	Light	Mid-Ebb	M	4.6	14:19	9.88	8.26	31	22.8	3.3	4	113	0.23	SE
CR2	20190123	Sunny	Light	Mid-Ebb	M	4.6	14:20	9.93	8.37	31.6	22.7	3.38	5	114	0.23	SE
CR2	20190123	Sunny	Light	Mid-Ebb	S	1	14:20	9.96	8.32	30.78	22.8	2.25	4	114	0.19	SE
CR2	20190123	Sunny	Light	Mid-Ebb	S	1	14:21	9.9	8.27	31.08	22.7	2.3	4	113	0.17	SE
S3	20190123	Sunny	Light	Mid-Ebb	B	10.6	14:29	9.63	8.43	30.78	22.7	4.76	8	113	0.24	SE
S3	20190123	Sunny	Light	Mid-Ebb	B	10.6	14:30	9.62	8.48	31.62	22.8	4.67	8	112	0.24	SE
S3	20190123	Sunny	Light	Mid-Ebb	M	5.8	14:30	9.57	8.36	31.46	22.7	3.91	7	113	0.3	SE
S3	20190123	Sunny	Light	Mid-Ebb	M	5.8	14:31	9.65	8.42	31.47	22.7	3.91	8	114	0.3	E
S3	20190123	Sunny	Light	Mid-Ebb	S	1	14:32	9.62	8.07	31	22.8	2.91	7	112	0.21	E
S3	20190123	Sunny	Light	Mid-Ebb	S	1	14:32	9.63	8.17	31.01	22.7	3.01	7	113	0.21	E
H1	20190123	Sunny	Light	Mid-Ebb	B	8	14:30	10.24	8.28	31.22	22.7	4.3	7	113	0.2	E
H1	20190123	Sunny	Light	Mid-Ebb	B	8	14:31	10.16	8.06	31.54	22.8	4.38	8	114	0.21	E
H1	20190123	Sunny	Light	Mid-Ebb	M	4.5	14:32	10.15	8	31.36	22.7	3.09	6	113	0.28	E
H1	20190123	Sunny	Light	Mid-Ebb	M	4.5	14:32	10.1	8.04	31.26	22.7	3.17	6	114	0.28	E
H1	20190123	Sunny	Light	Mid-Ebb	S	1	14:33	10.16	8.18	31.77	22.8	2.65	8	114	0.18	E
H1	20190123	Sunny	Light	Mid-Ebb	S	1	14:34	10.26	8.37	31.27	22.7	2.71	9	113	0.17	E
CR1	20190123	Sunny	Light	Mid-Ebb	B	8.1	14:38	10.57	8.3	30.95	22.7	4.26	5	113	0.23	SE
CR1	20190123	Sunny	Light	Mid-Ebb	B	8.1	14:38	10.47	8.09	31.53	22.7	4.21	5	114	0.25	SE
CR1	20190123	Sunny	Light	Mid-Ebb	M	4.6	14:39	10.4	8.44	31.46	22.7	3.99	5	113	0.27	SE
CR1	20190123	Sunny	Light	Mid-Ebb	M	4.6	14:40	10.31	8.42	30.94	22.7	4.05	5	114	0.25	SE
CR1	20190123	Sunny	Light	Mid-Ebb	S	1	14:40	10.28	8.44	31.36	22.7	2.65	7	113	0.25	SE
CR1	20190123	Sunny	Light	Mid-Ebb	S	1	14:41	10.29	8.29	31.57	22.8	2.55	8	113	0.26	SE
B3	20190123	Sunny	Light	Mid-Ebb	B	4.5	14:48	9.61	8.03	30.9	22.8	4.79	6	114	0.29	E
B3	20190123	Sunny	Light	Mid-Ebb	B	4.5	14:49	9.61	8.28	31.27	22.8	4.75	5	112	0.31	E
B3	20190123	Sunny	Light	Mid-Ebb	S	1	14:49	9.61	8.39	31.69	22.8	2.14	6	113	0.22	E
B3	20190123	Sunny	Light	Mid-Ebb	S	1	14:50	9.59	8.35	31.09	22.7	2.13	5	113	0.22	E
B4	20190123	Sunny	Light	Mid-Ebb	B	4.6	15:01	10.3	8.04	31.29	22.7	4.76	4	113	0.23	SE
B4	20190123	Sunny	Light	Mid-Ebb	B	4.6	15:01	10.29	8.08	31.7	22.8	4.85	5	112	0.23	SE
B4	20190123	Sunny	Light	Mid-Ebb	S	1	15:02	10.37	8.37	30.94	22.7	2.45	2	113	0.17	SE
B4	20190123	Sunny	Light	Mid-Ebb	S	1	15:03	10.47	8.35	31.76	22.8	2.55	3	113	0.17	SE
C2	20190123	Fine	Moderate	Mid-Flood	B	9.2	16:37	10.37	8.28	31.05	22.8	4.72	7	112	0.22	NE
C2	20190123	Fine	Moderate	Mid-Flood	B	9.2	16:37	10.43	8.28	31.31	22.7	4.73	8	113	0.21	NE

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C2	20190123	Fine	Moderate	Mid-Flood	M	5.1	16:38	10.45	8.04	31.13	22.8	3.65	6	113	0.23	NE
C2	20190123	Fine	Moderate	Mid-Flood	M	5.1	16:39	10.35	8.04	31.38	22.8	3.65	6	112	0.24	NE
C2	20190123	Fine	Moderate	Mid-Flood	S	1	16:39	10.39	8.28	31.76	22.7	2.19	6	113	0.25	NE
C2	20190123	Fine	Moderate	Mid-Flood	S	1	16:40	10.43	8.2	31.79	22.7	2.22	6	113	0.23	NE
CR1	20190123	Fine	Moderate	Mid-Flood	B	8.9	16:38	9.77	8.47	30.72	22.7	4.64	7	113	0.23	NW
CR1	20190123	Fine	Moderate	Mid-Flood	B	8.9	16:39	9.76	8.28	31.3	22.7	4.7	7	113	0.22	NW
CR1	20190123	Fine	Moderate	Mid-Flood	M	5	16:39	9.73	8.08	31.5	22.7	3.3	6	112	0.22	NW
CR1	20190123	Fine	Moderate	Mid-Flood	M	5	16:40	9.67	8.15	31.25	22.7	3.29	5	113	0.21	NW
CR1	20190123	Fine	Moderate	Mid-Flood	S	1	16:41	9.76	8.24	30.78	22.8	2.53	5	113	0.2	NW
CR1	20190123	Fine	Moderate	Mid-Flood	S	1	16:41	9.74	8.5	30.7	22.7	2.63	6	113	0.21	NW
S3	20190123	Fine	Moderate	Mid-Flood	B	11.5	16:45	9.66	8.16	31.55	22.8	4.65	7	113	0.24	W
S3	20190123	Fine	Moderate	Mid-Flood	B	11.5	16:46	9.76	8.47	30.93	22.7	4.72	6	112	0.24	W
S3	20190123	Fine	Moderate	Mid-Flood	M	6.3	16:47	9.85	8.21	30.71	22.7	3.21	8	113	0.28	W
S3	20190123	Fine	Moderate	Mid-Flood	M	6.3	16:47	9.81	8.42	31.78	22.7	3.16	7	113	0.3	W
S3	20190123	Fine	Moderate	Mid-Flood	S	1	16:48	9.81	8.15	31.55	22.8	2.03	8	113	0.2	W
S3	20190123	Fine	Moderate	Mid-Flood	S	1	16:49	9.71	8.48	31.71	22.8	1.99	8	114	0.2	W
CR2	20190123	Fine	Moderate	Mid-Flood	B	8.2	16:56	10.3	8.36	31.24	22.7	4.54	5	114	0.24	NW
CR2	20190123	Fine	Moderate	Mid-Flood	B	8.2	16:57	10.23	8.33	31.47	22.7	4.54	4	113	0.23	NW
CR2	20190123	Fine	Moderate	Mid-Flood	M	4.6	16:58	10.14	8.4	31.45	22.8	3.94	3	113	0.21	NW
CR2	20190123	Fine	Moderate	Mid-Flood	M	4.6	16:59	10.18	8.36	31.07	22.7	3.85	4	113	0.23	NW
CR2	20190123	Fine	Moderate	Mid-Flood	S	1	16:59	10.1	8.05	30.77	22.8	2.27	5	114	0.22	NW
CR2	20190123	Fine	Moderate	Mid-Flood	S	1	17:00	10.09	8.02	31.77	22.8	2.35	5	113	0.22	NW
F1	20190123	Fine	Moderate	Mid-Flood	B	8.4	17:02	10.41	8.3	30.87	22.8	4.72	7	112	0.23	NW
F1	20190123	Fine	Moderate	Mid-Flood	B	8.4	17:02	10.34	8.25	31.75	22.7	4.69	6	112	0.25	NW
F1	20190123	Fine	Moderate	Mid-Flood	M	4.7	17:03	10.35	8.24	31.18	22.8	3.82	7	112	0.25	NW
F1	20190123	Fine	Moderate	Mid-Flood	M	4.7	17:04	10.27	8.1	31.47	22.8	3.84	6	113	0.26	NW
F1	20190123	Fine	Moderate	Mid-Flood	S	1	17:05	10.33	8.26	31.34	22.8	2.88	7	113	0.18	NW
F1	20190123	Fine	Moderate	Mid-Flood	S	1	17:05	10.38	8.14	31.05	22.8	2.94	6	112	0.2	NW
C1	20190123	Fine	Moderate	Mid-Flood	B	11.4	17:24	9.78	8.43	31.39	22.7	4.14	6	112	0.23	NW
C1	20190123	Fine	Moderate	Mid-Flood	B	11.4	17:25	9.77	8.34	31.16	22.7	4.14	5	114	0.23	NW
C1	20190123	Fine	Moderate	Mid-Flood	M	6.2	17:25	9.83	8.45	31.13	22.7	3.12	6	114	0.21	NW
C1	20190123	Fine	Moderate	Mid-Flood	M	6.2	17:26	9.83	8.41	31.76	22.7	3.04	6	113	0.23	NW

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C1	20190123	Fine	Moderate	Mid-Flood	S	1	17:27	9.74	8.38	30.9	22.8	2.08	7	113	0.17	NW
C1	20190123	Fine	Moderate	Mid-Flood	S	1	17:28	9.84	8.36	31.46	22.7	2.13	7	113	0.17	NW
M1	20190123	Fine	Moderate	Mid-Flood	B	8.4	17:34	9.78	8.02	31.17	22.8	4.92	7	113	0.27	NW
M1	20190123	Fine	Moderate	Mid-Flood	B	8.4	17:35	9.8	8.5	31.31	22.7	4.97	8	113	0.25	NW
M1	20190123	Fine	Moderate	Mid-Flood	M	4.7	17:36	9.82	8.17	30.73	22.7	3.4	6	113	0.21	NW
M1	20190123	Fine	Moderate	Mid-Flood	M	4.7	17:36	9.82	8.25	30.91	22.7	3.49	6	113	0.22	NW
M1	20190123	Fine	Moderate	Mid-Flood	S	1	17:37	9.74	8.07	31.05	22.7	2.72	5	113	0.24	NW
M1	20190123	Fine	Moderate	Mid-Flood	S	1	17:38	9.7	8.41	31.19	22.8	2.77	6	113	0.25	NW
B1	20190123	Fine	Moderate	Mid-Flood	B	4.8	17:46	9.8	8.3	31.55	22.8	4.75	3	113	0.25	NW
B1	20190123	Fine	Moderate	Mid-Flood	B	4.8	17:46	9.7	8.37	31.45	22.8	4.78	3	112	0.25	NW
B1	20190123	Fine	Moderate	Mid-Flood	S	1	17:47	9.7	8.1	31.57	22.8	2.61	4	113	0.23	NW
B1	20190123	Fine	Moderate	Mid-Flood	S	1	17:48	9.68	8.01	31.48	22.8	2.51	4	113	0.21	NW
S1	20190123	Fine	Moderate	Mid-Flood	B	4.7	17:54	9.86	8.16	31.37	22.7	4.62	7	114	0.29	N
S1	20190123	Fine	Moderate	Mid-Flood	B	4.7	17:54	9.92	8.36	31.51	22.7	4.71	7	113	0.3	N
S1	20190123	Fine	Moderate	Mid-Flood	S	1	17:55	9.9	8.25	31.35	22.8	2.07	5	112	0.19	N
S1	20190123	Fine	Moderate	Mid-Flood	S	1	17:56	9.8	8.32	31.66	22.7	2.08	5	112	0.19	N
B2	20190123	Fine	Moderate	Mid-Flood	B	4.8	18:04	9.63	8.19	31.3	22.8	4.28	4	114	0.25	N
B2	20190123	Fine	Moderate	Mid-Flood	B	4.8	18:05	9.67	8.46	31.56	22.8	4.27	5	114	0.25	N
B2	20190123	Fine	Moderate	Mid-Flood	S	1	18:06	9.69	8	31.66	22.8	2.45	4	113	0.25	N
B2	20190123	Fine	Moderate	Mid-Flood	S	1	18:07	9.69	8.41	31.39	22.8	2.47	4	112	0.26	N
H1	20190123	Fine	Moderate	Mid-Flood	B	8	18:16	10.03	8.08	31.46	22.8	5	10	113	0.22	NW
H1	20190123	Fine	Moderate	Mid-Flood	B	8	18:17	10.06	8.02	31.47	22.8	4.98	10	113	0.23	W
H1	20190123	Fine	Moderate	Mid-Flood	M	4.5	18:18	9.97	8.33	31.23	22.7	3.41	8	113	0.21	W
H1	20190123	Fine	Moderate	Mid-Flood	M	4.5	18:18	9.93	8.04	31.44	22.8	3.46	9	113	0.2	W
H1	20190123	Fine	Moderate	Mid-Flood	S	1	18:19	9.91	8.42	31.69	22.8	2.67	14	114	0.21	W
H1	20190123	Fine	Moderate	Mid-Flood	S	1	18:20	9.87	8.49	31.09	22.8	2.63	15	113	0.22	W
S2	20190123	Fine	Moderate	Mid-Flood	B	8.4	18:20	9.72	8.25	31.5	22.7	4.6	6	113	0.3	NW
S2	20190123	Fine	Moderate	Mid-Flood	B	8.4	18:20	9.66	8.05	31.39	22.7	4.56	5	114	0.32	NW
S2	20190123	Fine	Moderate	Mid-Flood	M	4.7	18:21	9.71	8	31.42	22.7	3.92	6	113	0.22	NW
S2	20190123	Fine	Moderate	Mid-Flood	M	4.7	18:22	9.8	8.43	31.11	22.8	3.9	5	114	0.2	NW
S2	20190123	Fine	Moderate	Mid-Flood	S	1	18:22	9.71	8.16	31.23	22.7	2.67	7	114	0.23	NW
S2	20190123	Fine	Moderate	Mid-Flood	S	1	18:23	9.62	8.46	31.8	22.7	2.69	6	113	0.24	NW

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B3	20190123	Fine	Moderate	Mid-Flood	B	4.7	18:33	9.66	8.24	31.46	22.7	4.72	7	113	0.28	NW
B3	20190123	Fine	Moderate	Mid-Flood	B	4.7	18:34	9.7	8.43	30.93	22.7	4.81	6	113	0.29	NW
B3	20190123	Fine	Moderate	Mid-Flood	S	1	18:34	9.68	8.19	31.01	22.8	2.34	4	113	0.15	NW
B3	20190123	Fine	Moderate	Mid-Flood	S	1	18:35	9.67	8.02	31.77	22.8	2.37	4	112	0.13	NW
B4	20190123	Fine	Moderate	Mid-Flood	B	4.6	18:36	9.64	8.05	31.52	22.8	4.48	4	112	0.26	NW
B4	20190123	Fine	Moderate	Mid-Flood	B	4.6	18:36	9.62	8.18	31.26	22.8	4.46	4	113	0.26	N
B4	20190123	Fine	Moderate	Mid-Flood	S	1	18:37	9.68	8.35	31.6	22.8	2.04	7	114	0.22	N
B4	20190123	Fine	Moderate	Mid-Flood	S	1	18:38	9.74	8.49	31	22.7	2.03	6	114	0.23	N
C2	20190125	Sunny	Light	Mid-Flood	B	9.3	9:02	9.98	8.05	30.5	17.7	3.56	9	113	0.11	N
C2	20190125	Sunny	Light	Mid-Flood	B	9.3	9:02	9.91	8.12	31.08	17.7	3.47	8	112	0.11	N
C2	20190125	Sunny	Light	Mid-Flood	M	5.2	9:03	9.92	8.4	30.64	17.6	3.05	8	113	0.22	N
C2	20190125	Sunny	Light	Mid-Flood	M	5.2	9:04	9.98	8	30.68	17.6	3.14	8	113	0.24	N
C2	20190125	Sunny	Light	Mid-Flood	S	1	9:04	10.03	8.18	31.14	17.6	2.27	11	113	0.36	N
C2	20190125	Sunny	Light	Mid-Flood	S	1	9:05	9.93	8.02	30.39	17.7	2.17	10	113	0.35	N
CR1	20190125	Sunny	Light	Mid-Flood	B	9.1	9:11	10.36	8.45	30.1	17.6	3.79	8	113	0.13	NW
CR1	20190125	Sunny	Light	Mid-Flood	B	9.1	9:12	10.35	8.46	30.08	17.6	3.69	8	114	0.12	NW
CR1	20190125	Sunny	Light	Mid-Flood	M	5.1	9:12	10.43	8.19	31.17	17.7	2.63	8	112	0.28	NW
CR1	20190125	Sunny	Light	Mid-Flood	M	5.1	9:13	10.41	8.35	31.19	17.6	2.53	7	112	0.29	NW
CR1	20190125	Sunny	Light	Mid-Flood	S	1	9:14	10.46	8.25	30.78	17.6	2.18	8	113	0.36	NW
CR1	20190125	Sunny	Light	Mid-Flood	S	1	9:14	10.36	8.23	31.18	17.7	2.1	8	113	0.34	NW
S3	20190125	Sunny	Light	Mid-Flood	B	12.4	9:22	9.8	8.25	30.45	17.7	3.97	8	112	0.15	W
S3	20190125	Sunny	Light	Mid-Flood	B	12.4	9:23	9.72	8.12	30.28	17.7	3.87	9	112	0.16	W
S3	20190125	Sunny	Light	Mid-Flood	M	6.7	9:24	9.7	8.43	30.7	17.6	3.25	8	113	0.29	W
S3	20190125	Sunny	Light	Mid-Flood	M	6.7	9:24	9.77	8.22	30.79	17.7	3.19	8	113	0.28	W
S3	20190125	Sunny	Light	Mid-Flood	S	1	9:25	9.82	8.08	30.54	17.7	1.88	8	113	0.38	W
S3	20190125	Sunny	Light	Mid-Flood	S	1	9:26	9.78	8.48	30.01	17.6	1.94	9	113	0.39	W
CR2	20190125	Sunny	Light	Mid-Flood	B	8.5	9:33	9.35	8.14	30.25	17.7	3.69	8	113	0.2	NW
CR2	20190125	Sunny	Light	Mid-Flood	B	8.5	9:34	9.25	8.18	31.12	17.7	3.62	8	113	0.18	NW
CR2	20190125	Sunny	Light	Mid-Flood	M	4.8	9:35	9.32	8.06	30.5	17.7	2.5	9	113	0.24	N
CR2	20190125	Sunny	Light	Mid-Flood	M	4.8	9:36	9.24	8.43	30.4	17.7	2.58	9	113	0.25	NW
CR2	20190125	Sunny	Light	Mid-Flood	S	1	9:36	9.24	8.26	30.33	17.6	2.25	9	113	0.36	NW
CR2	20190125	Sunny	Light	Mid-Flood	S	1	9:37	9.15	8.39	31.02	17.7	2.34	8	114	0.34	NW



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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C1	20190125	Sunny	Light	Mid-Flood	B	11.8	9:57	10.6	8.14	30.44	17.7	4.41	9	113	0.2	NW
C1	20190125	Sunny	Light	Mid-Flood	B	11.8	9:57	10.6	8.29	31.09	17.6	4.37	10	113	0.21	NW
C1	20190125	Sunny	Light	Mid-Flood	M	6.4	9:58	10.63	8.42	30.19	17.7	3.14	9	113	0.24	NW
C1	20190125	Sunny	Light	Mid-Flood	M	6.4	9:59	10.59	8.33	30.74	17.7	3.07	9	113	0.25	NW
C1	20190125	Sunny	Light	Mid-Flood	S	1	10:00	10.5	8.03	30.03	17.6	2.37	8	112	0.34	NW
C1	20190125	Sunny	Light	Mid-Flood	S	1	10:00	10.52	8.3	30.59	17.7	2.31	8	111	0.36	NW
F1	20190125	Sunny	Light	Mid-Flood	B	8.6	9:39	9.6	8.41	31.08	17.6	3.68	10	112	0.18	NW
F1	20190125	Sunny	Light	Mid-Flood	B	8.6	9:40	9.65	8.41	30.08	17.7	3.78	10	113	0.16	NW
F1	20190125	Sunny	Light	Mid-Flood	M	4.8	9:40	9.65	8.03	30.74	17.7	2.67	10	114	0.3	NW
F1	20190125	Sunny	Light	Mid-Flood	M	4.8	9:41	9.68	8.05	30.93	17.6	2.7	9	114	0.31	NW
F1	20190125	Sunny	Light	Mid-Flood	S	1	9:42	9.77	8.31	30.91	17.7	1.65	10	113	0.4	NW
F1	20190125	Sunny	Light	Mid-Flood	S	1	9:43	9.67	8.2	30.3	17.7	1.61	9	113	0.38	NW
M1	20190125	Sunny	Light	Mid-Flood	B	8.7	10:11	9.39	8.17	30.05	17.6	4.21	9	113	0.16	NW
M1	20190125	Sunny	Light	Mid-Flood	B	8.7	10:12	9.47	8.13	31.05	17.7	4.14	8	113	0.15	NW
M1	20190125	Sunny	Light	Mid-Flood	M	4.9	10:13	9.38	8.34	30.53	17.7	2.62	9	113	0.2	NW
M1	20190125	Sunny	Light	Mid-Flood	M	4.9	10:13	9.28	8.29	30.46	17.7	2.58	9	114	0.18	NW
M1	20190125	Sunny	Light	Mid-Flood	S	1	10:14	9.27	8.03	30.68	17.7	2.08	8	114	0.34	NW
M1	20190125	Sunny	Light	Mid-Flood	S	1	10:15	9.17	8.13	30.58	17.7	2.11	7	113	0.34	NW
B1	20190125	Sunny	Light	Mid-Flood	B	4.8	10:21	10.24	8.22	30.13	17.7	4.08	9	113	0.13	NW
B1	20190125	Sunny	Light	Mid-Flood	B	4.8	10:21	10.3	8.06	31.08	17.6	4.15	9	113	0.14	NW
B1	20190125	Sunny	Light	Mid-Flood	S	1	10:22	10.31	8.2	30.58	17.7	2.41	11	113	0.37	NW
B1	20190125	Sunny	Light	Mid-Flood	S	1	10:23	10.32	8	30.14	17.7	2.43	11	113	0.37	NW
S1	20190125	Sunny	Light	Mid-Flood	B	4.7	10:33	10.03	8.07	30.78	17.6	3.66	11	113	0.12	W
S1	20190125	Sunny	Light	Mid-Flood	B	4.7	10:34	10.06	8.39	30.03	17.6	3.76	10	114	0.14	W
S1	20190125	Sunny	Light	Mid-Flood	S	1	10:35	10.14	8.37	31.02	17.7	2.37	10	113	0.33	W
S1	20190125	Sunny	Light	Mid-Flood	S	1	10:36	10.12	8.44	30.14	17.7	2.32	10	114	0.32	W
B2	20190125	Sunny	Light	Mid-Flood	B	4.7	10:44	9.82	8.48	30.12	17.7	4.18	9	113	0.17	N
B2	20190125	Sunny	Light	Mid-Flood	B	4.7	10:45	9.9	8.06	30.57	17.6	4.2	10	113	0.19	N
B2	20190125	Sunny	Light	Mid-Flood	S	1	10:46	9.8	8.14	31.19	17.6	1.64	9	113	0.34	N
B2	20190125	Sunny	Light	Mid-Flood	S	1	10:46	9.87	8.27	31.17	17.6	1.6	9	113	0.35	N
H1	20190125	Sunny	Light	Mid-Flood	B	8.2	10:56	10.28	8.1	30.23	17.7	3.68	8	113	0.16	W
H1	20190125	Sunny	Light	Mid-Flood	B	8.2	10:57	10.23	8.01	30.9	17.7	3.72	8	113	0.15	W

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
H1	20190125	Sunny	Light	Mid-Flood	M	4.6	10:58	10.3	8.19	30.08	17.7	3.03	11	114	0.23	W
H1	20190125	Sunny	Light	Mid-Flood	M	4.6	10:58	10.3	8.28	30.4	17.6	3.13	10	112	0.23	W
H1	20190125	Sunny	Light	Mid-Flood	S	1	10:59	10.4	8.34	30.53	17.6	2.06	11	112	0.39	W
H1	20190125	Sunny	Light	Mid-Flood	S	1	11:00	10.37	8.46	31.06	17.7	2.16	11	113	0.38	W
S2	20190125	Sunny	Light	Mid-Flood	B	8.4	11:00	9.8	8.19	30.69	17.7	3.76	7	113	0.17	N
S2	20190125	Sunny	Light	Mid-Flood	B	8.4	11:00	9.78	8.43	31.18	17.7	3.71	6	113	0.16	NW
S2	20190125	Sunny	Light	Mid-Flood	M	4.7	11:01	9.87	8.06	30.99	17.6	2.81	8	113	0.3	NW
S2	20190125	Sunny	Light	Mid-Flood	M	4.7	11:02	9.82	8.35	30.32	17.6	2.75	8	113	0.32	NW
S2	20190125	Sunny	Light	Mid-Flood	S	1	11:02	9.84	8.19	31.02	17.7	2.4	8	113	0.38	NW
S2	20190125	Sunny	Light	Mid-Flood	S	1	11:03	9.91	8.47	30.54	17.7	2.47	7	113	0.36	NW
B3	20190125	Sunny	Light	Mid-Flood	B	4.5	11:13	9.5	8.49	30.26	17.7	3.84	11	112	0.12	NW
B3	20190125	Sunny	Light	Mid-Flood	B	4.5	11:14	9.48	8.14	30.94	17.7	3.84	11	112	0.1	NW
B3	20190125	Sunny	Light	Mid-Flood	S	1	11:14	9.46	8.48	30.35	17.6	2.1	9	113	0.31	NW
B3	20190125	Sunny	Light	Mid-Flood	S	1	11:15	9.48	8.04	30.04	17.6	2.02	9	113	0.29	NW
B4	20190125	Sunny	Light	Mid-Flood	B	4.6	11:24	9.36	8.33	30.87	17.7	4.44	13	112	0.15	N
B4	20190125	Sunny	Light	Mid-Flood	B	4.6	11:24	9.34	8.41	30.86	17.6	4.49	13	112	0.17	N
B4	20190125	Sunny	Light	Mid-Flood	S	1	11:25	9.43	8.21	30.12	17.6	1.59	11	113	0.31	N
B4	20190125	Sunny	Light	Mid-Flood	S	1	11:26	9.44	8.09	31.06	17.7	1.67	11	113	0.31	N
C1	20190125	Fine	Light	Mid-Ebb	B	10.8	14:10	10.42	8.32	31.05	17.6	4.1	9	113	0.19	E
C1	20190125	Fine	Light	Mid-Ebb	B	10.8	14:10	10.35	8.41	30.28	17.7	4.2	8	112	0.19	E
C1	20190125	Fine	Light	Mid-Ebb	M	5.9	14:11	10.26	8.29	30.36	17.7	2.7	8	112	0.28	E
C1	20190125	Fine	Light	Mid-Ebb	M	5.9	14:12	10.23	8.14	30.8	17.6	2.77	7	113	0.27	E
C1	20190125	Fine	Light	Mid-Ebb	S	1	14:12	10.19	8.24	30.89	17.7	2.25	5	112	0.32	E
C1	20190125	Fine	Light	Mid-Ebb	S	1	14:13	10.27	8.25	30.56	17.6	2.32	6	113	0.33	E
M1	20190125	Fine	Light	Mid-Ebb	B	8.4	14:12	10.26	8.28	30.76	17.6	4.04	14	113	0.17	SE
M1	20190125	Fine	Light	Mid-Ebb	B	8.4	14:13	10.32	8.24	30.33	17.6	4.06	14	113	0.15	SE
M1	20190125	Fine	Light	Mid-Ebb	M	4.7	14:13	10.24	8.12	30.79	17.6	2.74	10	113	0.29	SE
M1	20190125	Fine	Light	Mid-Ebb	M	4.7	14:14	10.32	8.32	30.19	17.6	2.76	10	113	0.3	SE
M1	20190125	Fine	Light	Mid-Ebb	S	1	14:15	10.34	8.13	30.88	17.6	1.96	10	112	0.3	SE
M1	20190125	Fine	Light	Mid-Ebb	S	1	14:15	10.28	8.06	30.9	17.7	1.96	9	114	0.3	SE
B1	20190125	Fine	Light	Mid-Ebb	B	4.4	14:32	9.97	8.39	30.05	17.6	3.65	10	113	0.11	NE
B1	20190125	Fine	Light	Mid-Ebb	B	4.4	14:33	9.97	8.36	30.68	17.6	3.74	11	113	0.09	NE

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B1	20190125	Fine	Light	Mid-Ebb	S	1	14:34	9.9	8.48	30.88	17.6	2.1	10	112	0.33	NE
B1	20190125	Fine	Light	Mid-Ebb	S	1	14:34	9.92	8.38	30.86	17.6	2.12	9	113	0.34	NE
F1	20190125	Fine	Light	Mid-Ebb	B	8.5	14:41	9.53	8.5	30.59	17.6	4.1	7	113	0.11	SE
F1	20190125	Fine	Light	Mid-Ebb	B	8.5	14:42	9.55	8.05	31.2	17.6	4.01	6	112	0.09	SE
F1	20190125	Fine	Light	Mid-Ebb	M	4.8	14:42	9.6	8.36	30.42	17.6	3.05	6	112	0.3	SE
F1	20190125	Fine	Light	Mid-Ebb	M	4.8	14:43	9.64	8.05	30.04	17.7	3.14	7	112	0.29	SE
F1	20190125	Fine	Light	Mid-Ebb	S	1	14:44	9.64	8.39	30.92	17.6	2.32	5	112	0.34	SE
F1	20190125	Fine	Light	Mid-Ebb	S	1	14:45	9.57	8.37	30.1	17.7	2.24	6	112	0.32	SE
S1	20190125	Fine	Light	Mid-Ebb	B	4.5	14:42	9.38	8.11	30.38	17.7	4.13	8	113	0.14	E
S1	20190125	Fine	Light	Mid-Ebb	B	4.5	14:43	9.35	8.36	30.06	17.7	4.05	8	113	0.16	E
S1	20190125	Fine	Light	Mid-Ebb	S	1	14:44	9.28	8.41	30.65	17.6	1.65	6	112	0.37	E
S1	20190125	Fine	Light	Mid-Ebb	S	1	14:44	9.21	8.25	30.06	17.6	1.75	6	113	0.38	E
B2	20190125	Fine	Light	Mid-Ebb	B	4.6	14:52	9.87	8.04	30.13	17.6	3.97	4	113	0.11	SE
B2	20190125	Fine	Light	Mid-Ebb	B	4.6	14:53	9.81	8.47	30.54	17.6	4.06	5	112	0.09	SE
B2	20190125	Fine	Light	Mid-Ebb	S	1	14:54	9.88	8.3	30.86	17.6	1.7	6	113	0.3	SE
B2	20190125	Fine	Light	Mid-Ebb	S	1	14:54	9.79	8.47	30.63	17.6	1.72	6	113	0.32	SE
C2	20190125	Fine	Light	Mid-Ebb	B	8.8	15:05	9.49	8.25	30.06	17.6	4.26	10	114	0.19	S
C2	20190125	Fine	Light	Mid-Ebb	B	8.8	15:06	9.49	8.24	30.02	17.7	4.17	10	113	0.2	S
C2	20190125	Fine	Light	Mid-Ebb	M	4.9	15:06	9.49	8.05	30.88	17.7	2.53	9	113	0.24	S
C2	20190125	Fine	Light	Mid-Ebb	M	4.9	15:07	9.57	8.46	30.92	17.7	2.45	10	113	0.26	S
C2	20190125	Fine	Light	Mid-Ebb	S	1	15:08	9.53	8.45	30.01	17.6	1.76	8	113	0.33	S
C2	20190125	Fine	Light	Mid-Ebb	S	1	15:09	9.58	8.47	30.31	17.7	1.86	8	112	0.31	S
S2	20190125	Fine	Light	Mid-Ebb	B	7.9	15:07	10.6	8.09	30.78	17.6	3.89	7	113	0.2	SE
S2	20190125	Fine	Light	Mid-Ebb	B	7.9	15:08	10.51	8.25	31.19	17.6	3.99	7	112	0.22	SE
S2	20190125	Fine	Light	Mid-Ebb	M	4.5	15:09	10.41	8.29	30.87	17.7	2.89	9	113	0.22	SE
S2	20190125	Fine	Light	Mid-Ebb	M	4.5	15:09	10.49	8.47	30.73	17.6	2.82	8	112	0.23	SE
S2	20190125	Fine	Light	Mid-Ebb	S	1	15:10	10.43	8	30.82	17.7	2.3	6	112	0.3	SE
S2	20190125	Fine	Light	Mid-Ebb	S	1	15:11	10.33	8.36	30.3	17.7	2.25	6	112	0.3	SE
H1	20190125	Fine	Light	Mid-Ebb	B	8	15:15	9.54	8.29	30.4	17.7	3.69	9	113	0.16	E
H1	20190125	Fine	Light	Mid-Ebb	B	8	15:15	9.5	8.21	30.37	17.7	3.69	8	113	0.14	E
H1	20190125	Fine	Light	Mid-Ebb	M	4.5	15:16	9.44	8.22	30.93	17.6	3.34	8	114	0.25	E
H1	20190125	Fine	Light	Mid-Ebb	M	4.5	15:17	9.41	8.41	30	17.6	3.31	7	112	0.24	E

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
H1	20190125	Fine	Light	Mid-Ebb	S	1	15:18	9.42	8.32	30.18	17.7	2.46	6	112	0.31	E
H1	20190125	Fine	Light	Mid-Ebb	S	1	15:18	9.49	8.12	30.86	17.6	2.53	6	113	0.31	E
CR2	20190125	Fine	Light	Mid-Ebb	B	8.3	15:25	10.29	8.48	30.88	17.7	3.77	6	113	0.18	SE
CR2	20190125	Fine	Light	Mid-Ebb	B	8.3	15:26	10.34	8.19	30.32	17.7	3.77	8	113	0.17	SE
CR2	20190125	Fine	Light	Mid-Ebb	M	4.7	15:26	10.31	8.44	30.92	17.7	2.53	6	112	0.24	SE
CR2	20190125	Fine	Light	Mid-Ebb	M	4.7	15:27	10.3	8.26	30.38	17.6	2.56	7	113	0.22	SE
CR2	20190125	Fine	Light	Mid-Ebb	S	1	15:28	10.33	8.11	30.27	17.6	2.01	9	112	0.36	SE
CR2	20190125	Fine	Light	Mid-Ebb	S	1	15:29	10.23	8.47	30.08	17.7	1.92	9	112	0.38	SE
S3	20190125	Fine	Light	Mid-Ebb	B	11.8	15:37	9.34	8.08	30.85	17.7	3.72	9	112	0.19	SE
S3	20190125	Fine	Light	Mid-Ebb	B	11.8	15:38	9.33	8.48	31.12	17.6	3.81	9	112	0.17	SE
S3	20190125	Fine	Light	Mid-Ebb	M	6.4	15:39	9.26	8.42	30.83	17.7	2.68	10	112	0.22	SE
S3	20190125	Fine	Light	Mid-Ebb	M	6.4	15:39	9.17	8.49	30.06	17.7	2.71	9	113	0.22	SE
S3	20190125	Fine	Light	Mid-Ebb	S	1	15:40	9.17	8.33	30.93	17.6	1.65	11	112	0.37	SE
S3	20190125	Fine	Light	Mid-Ebb	S	1	15:41	9.22	8.25	30.34	17.6	1.75	10	112	0.36	SE
CR1	20190125	Fine	Light	Mid-Ebb	B	8.9	15:51	9.54	8.03	30.97	17.6	3.53	6	113	0.18	E
CR1	20190125	Fine	Light	Mid-Ebb	B	8.9	15:51	9.44	8.36	30.36	17.6	3.58	6	113	0.19	E
CR1	20190125	Fine	Light	Mid-Ebb	M	5	15:52	9.53	8.33	30.16	17.6	2.85	8	112	0.3	E
CR1	20190125	Fine	Light	Mid-Ebb	M	5	15:53	9.46	8.28	30.06	17.6	2.78	8	112	0.32	E
CR1	20190125	Fine	Light	Mid-Ebb	S	1	15:53	9.56	8.38	30.03	17.7	1.56	9	112	0.35	E
CR1	20190125	Fine	Light	Mid-Ebb	S	1	15:54	9.62	8.4	30.77	17.6	1.54	10	113	0.34	E
B3	20190125	Fine	Light	Mid-Ebb	B	4.6	16:07	10.24	8.1	30.91	17.6	4.2	5	113	0.1	E
B3	20190125	Fine	Light	Mid-Ebb	B	4.6	16:08	10.3	8.09	30.04	17.6	4.29	5	115	0.1	E
B3	20190125	Fine	Light	Mid-Ebb	S	1	16:08	10.38	8.12	30.93	17.6	2.02	6	112	0.32	E
B3	20190125	Fine	Light	Mid-Ebb	S	1	16:09	10.44	8.14	30.35	17.6	2.11	5	113	0.34	E
B4	20190125	Fine	Light	Mid-Ebb	B	4.6	16:18	9.34	8.45	30.81	17.6	4.16	6	113	0.13	SE
B4	20190125	Fine	Light	Mid-Ebb	B	4.6	16:18	9.29	8.04	30.02	17.6	4.22	6	113	0.15	SE
B4	20190125	Fine	Light	Mid-Ebb	S	1	16:19	9.39	8.23	30.94	17.6	1.79	4	113	0.36	SE
B4	20190125	Fine	Light	Mid-Ebb	S	1	16:20	9.36	8.04	30.09	17.7	1.82	4	112	0.35	SE
C2	20190128	Sunny	Light	Mid-Flood	B	9.1	10:55	8.8	8.11	30.61	19.1	4.28	12	113	0.14	N
C2	20190128	Sunny	Light	Mid-Flood	B	9.1	10:55	8.81	8.32	30.37	19.1	4.36	13	114	0.13	N
C2	20190128	Sunny	Light	Mid-Flood	M	5.1	10:56	8.9	8.18	29.72	19.1	3.34	12	113	0.28	N
C2	20190128	Sunny	Light	Mid-Flood	M	5.1	10:57	8.93	8.18	29.71	19.2	3.24	11	112	0.3	N

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Integrated Waste Management Facilities, Phase 1  
Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C2	20190128	Sunny	Light	Mid-Flood	S	1	10:57	9.02	8.09	30.97	19.2	2.98	12	113	0.37	NW
C2	20190128	Sunny	Light	Mid-Flood	S	1	10:58	8.97	8.48	30.09	19.2	3.07	10	113	0.35	NW
CR1	20190128	Sunny	Light	Mid-Flood	B	8.9	11:08	9.61	8.35	30.69	19.1	4.66	8	113	0.14	W
CR1	20190128	Sunny	Light	Mid-Flood	B	8.9	11:09	9.61	8.33	30.62	19.1	4.7	6	112	0.15	W
CR1	20190128	Sunny	Light	Mid-Flood	M	5	11:09	9.6	8.04	30.14	19.2	3.83	9	113	0.24	W
CR1	20190128	Sunny	Light	Mid-Flood	M	5	11:10	9.61	8.19	30.65	19.2	3.91	7	113	0.24	W
CR1	20190128	Sunny	Light	Mid-Flood	S	1	11:11	9.58	8.05	30.63	19.1	2.9	8	113	0.32	W
CR1	20190128	Sunny	Light	Mid-Flood	S	1	11:11	9.53	8.02	30.64	19.1	2.95	7	112	0.32	W
F1	20190128	Sunny	Light	Mid-Flood	B	8.7	11:17	9.88	8.49	30.78	19.2	4.51	7	113	0.1	SW
F1	20190128	Sunny	Light	Mid-Flood	B	8.7	11:18	9.78	8.21	29.92	19.1	4.55	8	113	0.08	SW
F1	20190128	Sunny	Light	Mid-Flood	M	4.9	11:19	9.76	8.47	30.65	19.2	3.33	11	113	0.25	SW
F1	20190128	Sunny	Light	Mid-Flood	M	4.9	11:19	9.78	8.04	30.58	19.2	3.25	13	113	0.23	SW
F1	20190128	Sunny	Light	Mid-Flood	S	1	11:20	9.71	8.33	30.85	19.2	2.19	10	113	0.37	SW
F1	20190128	Sunny	Light	Mid-Flood	S	1	11:21	9.61	8.43	30.33	19.2	2.22	11	113	0.38	SW
S3	20190128	Sunny	Light	Mid-Flood	B	11.8	11:20	9.02	8.05	30.3	19.1	4.28	9	113	0.1	W
S3	20190128	Sunny	Light	Mid-Flood	B	11.8	11:21	8.96	8.34	30.55	19.2	4.35	8	111	0.11	W
S3	20190128	Sunny	Light	Mid-Flood	M	6.4	11:22	9.04	8.43	30.08	19.2	3.94	8	112	0.25	W
S3	20190128	Sunny	Light	Mid-Flood	M	6.4	11:23	8.99	8.32	29.89	19.2	3.91	8	113	0.25	W
S3	20190128	Sunny	Light	Mid-Flood	S	1	11:23	9.09	8.17	29.98	19.1	2.69	10	112	0.37	W
S3	20190128	Sunny	Light	Mid-Flood	S	1	11:24	9.01	8.37	30.16	19.2	2.7	8	112	0.37	W
CR2	20190128	Sunny	Light	Mid-Flood	B	8.4	11:30	9.68	8.36	29.93	19.1	4.49	10	113	0.11	NW
CR2	20190128	Sunny	Light	Mid-Flood	B	8.4	11:30	9.65	8.31	30.91	19.1	4.52	12	113	0.12	NW
CR2	20190128	Sunny	Light	Mid-Flood	M	4.7	11:31	9.73	8.11	30.67	19.1	3.18	7	113	0.26	NW
CR2	20190128	Sunny	Light	Mid-Flood	M	4.7	11:32	9.64	8.06	30.25	19.2	3.17	8	113	0.25	NW
CR2	20190128	Sunny	Light	Mid-Flood	S	1	11:33	9.72	8.4	29.78	19.1	2.56	7	113	0.34	NW
CR2	20190128	Sunny	Light	Mid-Flood	S	1	11:33	9.82	8.37	30.5	19.1	2.59	8	112	0.32	NW
M1	20190128	Sunny	Light	Mid-Flood	B	8.6	11:48	9.68	8.25	30.68	19.2	4.89	8	112	0.2	NW
M1	20190128	Sunny	Light	Mid-Flood	B	8.6	11:49	9.64	8.37	29.77	19.2	4.98	7	114	0.19	NW
M1	20190128	Sunny	Light	Mid-Flood	M	4.8	11:49	9.56	8.4	30.91	19.1	3.53	11	112	0.2	NW
M1	20190128	Sunny	Light	Mid-Flood	M	4.8	11:50	9.65	8.43	30.58	19.2	3.54	12	112	0.21	NW
M1	20190128	Sunny	Light	Mid-Flood	S	1	11:51	9.74	8.04	29.85	19.1	2.24	12	113	0.33	NW
M1	20190128	Sunny	Light	Mid-Flood	S	1	11:52	9.76	8.29	30.35	19.2	2.33	14	114	0.31	NW

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 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
C1	20190128	Sunny	Light	Mid-Flood	B	11.9	11:56	9.16	8.41	30.59	19.1	4.59	10	112	0.15	NW
C1	20190128	Sunny	Light	Mid-Flood	B	11.9	11:57	9.13	8.44	29.92	19.2	4.66	12	112	0.16	NW
C1	20190128	Sunny	Light	Mid-Flood	M	6.5	11:58	9.06	8.15	30.45	19.1	3	11	113	0.23	NW
C1	20190128	Sunny	Light	Mid-Flood	M	6.5	11:58	8.97	8.49	30.54	19.1	2.95	12	113	0.24	NW
C1	20190128	Sunny	Light	Mid-Flood	S	1	11:59	9.01	8.05	29.99	19.2	2.93	12	113	0.33	NW
C1	20190128	Sunny	Light	Mid-Flood	S	1	12:00	8.97	8.03	29.9	19.1	2.84	12	113	0.32	NW
B1	20190128	Sunny	Light	Mid-Flood	B	4.7	12:22	9.68	8.27	29.92	19.1	4.08	8	113	0.12	N
B1	20190128	Sunny	Light	Mid-Flood	B	4.7	12:22	9.67	8.1	30.86	19.1	4.17	9	112	0.13	NW
B1	20190128	Sunny	Light	Mid-Flood	S	1	12:23	9.69	8.2	30.65	19.2	2.46	8	114	0.33	NW
B1	20190128	Sunny	Light	Mid-Flood	S	1	12:24	9.6	8.21	29.76	19.2	2.53	10	112	0.31	NW
H1	20190128	Sunny	Light	Mid-Flood	B	8	12:32	9.83	8.02	30.25	19.1	4.76	11	112	0.12	W
H1	20190128	Sunny	Light	Mid-Flood	B	8	12:33	9.89	8.24	30.07	19.2	4.74	12	113	0.1	W
H1	20190128	Sunny	Light	Mid-Flood	M	4.5	12:34	9.98	8.5	30.46	19.1	3.53	13	113	0.27	W
H1	20190128	Sunny	Light	Mid-Flood	M	4.5	12:35	10.02	8.08	30.98	19.1	3.53	12	112	0.26	W
H1	20190128	Sunny	Light	Mid-Flood	S	1	12:35	9.92	8.28	30.1	19.1	2.03	11	114	0.36	W
H1	20190128	Sunny	Light	Mid-Flood	S	1	12:36	9.89	8.38	30.11	19.2	2.12	11	113	0.36	W
S1	20190128	Sunny	Light	Mid-Flood	B	4.8	12:32	9.09	8.34	30.99	19.1	4.63	13	114	0.13	NW
S1	20190128	Sunny	Light	Mid-Flood	B	4.8	12:32	9.12	8.2	30.99	19.1	4.61	13	113	0.15	NW
S1	20190128	Sunny	Light	Mid-Flood	S	1	12:33	9.09	8.04	29.77	19.1	2.69	13	113	0.32	NW
S1	20190128	Sunny	Light	Mid-Flood	S	1	12:34	9	8.16	30.69	19.2	2.68	14	113	0.31	NW
B2	20190128	Sunny	Light	Mid-Flood	B	4.7	12:44	9.11	8.05	29.96	19.2	4.38	11	113	0.11	N
B2	20190128	Sunny	Light	Mid-Flood	B	4.7	12:44	9.14	8.46	30.58	19.2	4.28	11	113	0.13	N
B2	20190128	Sunny	Light	Mid-Flood	S	1	12:45	9.19	8.5	30.37	19.1	2.03	11	112	0.35	N
B2	20190128	Sunny	Light	Mid-Flood	S	1	12:46	9.09	8.27	30.51	19.2	2.13	13	113	0.35	N
B3	20190128	Sunny	Light	Mid-Flood	B	4.7	12:46	9.61	8.13	30.99	19.1	4.75	9	114	0.18	NW
B3	20190128	Sunny	Light	Mid-Flood	B	4.7	12:46	9.63	8.4	30.62	19.1	4.83	7	114	0.17	NW
B3	20190128	Sunny	Light	Mid-Flood	S	1	12:47	9.67	8.46	30.59	19.2	2.93	6	113	0.35	NW
B3	20190128	Sunny	Light	Mid-Flood	S	1	12:48	9.71	8.16	30.38	19.1	2.96	8	113	0.33	NW
B4	20190128	Sunny	Light	Mid-Flood	B	4.8	12:56	8.88	8.26	30.06	19.2	4.56	10	114	0.2	N
B4	20190128	Sunny	Light	Mid-Flood	B	4.8	12:57	8.97	8.29	30.73	19.2	4.52	10	114	0.21	N
B4	20190128	Sunny	Light	Mid-Flood	S	1	12:58	8.9	8.45	29.83	19.2	2.38	11	112	0.38	N
B4	20190128	Sunny	Light	Mid-Flood	S	1	12:59	8.8	8.17	30.03	19.2	2.45	11	113	0.37	N

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Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
S2	20190128	Sunny	Light	Mid-Flood	B	8.5	13:05	9.22	8	30.57	19.1	4.07	6	113	0.13	NW
S2	20190128	Sunny	Light	Mid-Flood	B	8.5	13:06	9.13	8.26	30.39	19.2	4.07	6	113	0.15	NW
S2	20190128	Sunny	Light	Mid-Flood	M	4.8	13:07	9.13	8.17	30.18	19.2	3.4	7	113	0.27	NW
S2	20190128	Sunny	Light	Mid-Flood	M	4.8	13:07	9.18	8.02	30.38	19.2	3.4	7	112	0.27	NW
S2	20190128	Sunny	Light	Mid-Flood	S	1	13:08	9.23	8.08	30.14	19.1	2.62	7	113	0.39	NW
S2	20190128	Sunny	Light	Mid-Flood	S	1	13:09	9.2	8.45	30.71	19.1	2.52	6	113	0.39	NW
C1	20190128	Fine	Moderate	Mid-Ebb	B	10.9	16:04	9.74	8.3	30.8	19.1	4.3	7	112	0.16	SE
C1	20190128	Fine	Moderate	Mid-Ebb	B	10.9	16:04	9.7	8.39	29.98	19.1	4.28	7	113	0.15	SE
C1	20190128	Fine	Moderate	Mid-Ebb	M	6	16:05	9.64	8.21	30.74	19.1	3.37	9	112	0.24	SE
C1	20190128	Fine	Moderate	Mid-Ebb	M	6	16:06	9.62	8.37	30.5	19.1	3.37	7	113	0.23	SE
C1	20190128	Fine	Moderate	Mid-Ebb	S	1	16:06	9.56	8.44	30.58	19.2	2.9	12	112	0.33	SE
C1	20190128	Fine	Moderate	Mid-Ebb	S	1	16:07	9.64	8.02	30.16	19.1	2.94	15	112	0.35	SE
M1	20190128	Fine	Moderate	Mid-Ebb	B	8.5	16:07	9.16	8.25	30.33	19.1	4.97	10	113	0.2	S
M1	20190128	Fine	Moderate	Mid-Ebb	B	8.5	16:08	9.19	8.49	30.9	19.1	4.91	10	112	0.22	S
M1	20190128	Fine	Moderate	Mid-Ebb	M	4.8	16:08	9.24	8.09	30.59	19.2	3.68	11	113	0.23	S
M1	20190128	Fine	Moderate	Mid-Ebb	M	4.8	16:09	9.18	8.33	30.21	19.1	3.62	10	112	0.22	S
M1	20190128	Fine	Moderate	Mid-Ebb	S	1	16:10	9.18	8.42	30.36	19.2	2.38	12	112	0.36	S
M1	20190128	Fine	Moderate	Mid-Ebb	S	1	16:10	9.11	8.24	30.92	19.2	2.32	11	112	0.37	S
S2	20190128	Fine	Moderate	Mid-Ebb	B	8.6	16:27	9.51	8.33	30.21	19.2	4.1	9	114	0.14	SE
S2	20190128	Fine	Moderate	Mid-Ebb	B	8.6	16:28	9.41	8.18	30.48	19.1	4.19	9	113	0.14	SE
S2	20190128	Fine	Moderate	Mid-Ebb	M	4.8	16:29	9.36	8.43	30.66	19.2	3.73	6	112	0.21	SE
S2	20190128	Fine	Moderate	Mid-Ebb	M	4.8	16:29	9.34	8.26	31	19.1	3.65	5	113	0.2	SE
S2	20190128	Fine	Moderate	Mid-Ebb	S	1	16:30	9.36	8	29.97	19.2	2.84	7	112	0.31	SE
S2	20190128	Fine	Moderate	Mid-Ebb	S	1	16:31	9.33	8.27	29.97	19.1	2.83	6	112	0.29	SE
C2	20190128	Fine	Moderate	Mid-Ebb	B	8.9	16:33	9.33	8.15	30.75	19.1	4.61	7	113	0.11	S
C2	20190128	Fine	Moderate	Mid-Ebb	B	8.9	16:34	9.26	8.01	30.58	19.2	4.57	9	112	0.09	S
C2	20190128	Fine	Moderate	Mid-Ebb	M	5	16:35	9.34	8.09	30.89	19.1	3.28	7	113	0.28	S
C2	20190128	Fine	Moderate	Mid-Ebb	M	5	16:36	9.3	8.41	29.78	19.1	3.27	8	113	0.26	S
C2	20190128	Fine	Moderate	Mid-Ebb	S	1	16:36	9.25	8.5	30.45	19.1	2.38	9	112	0.33	S
C2	20190128	Fine	Moderate	Mid-Ebb	S	1	16:37	9.33	8.32	30.2	19.1	2.43	11	113	0.31	S
F1	20190128	Fine	Moderate	Mid-Ebb	B	8.6	15:23	9.85	8.35	30.82	19.1	4.61	6	113	0.18	SE
F1	20190128	Fine	Moderate	Mid-Ebb	B	8.6	15:23	9.92	8.24	30.58	19.2	4.57	6	111	0.18	SE

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
F1	20190128	Fine	Moderate	Mid-Ebb	M	4.8	15:24	9.97	8.09	30.03	19.1	3.76	9	113	0.28	SE
F1	20190128	Fine	Moderate	Mid-Ebb	M	4.8	15:25	9.97	8.41	29.71	19.1	3.66	8	113	0.28	SE
F1	20190128	Fine	Moderate	Mid-Ebb	S	1	15:26	10.02	8.09	30.01	19.2	2.92	10	113	0.4	SE
F1	20190128	Fine	Moderate	Mid-Ebb	S	1	15:26	9.92	8.03	30.36	19.2	2.87	8	112	0.42	SE
S3	20190128	Fine	Moderate	Mid-Ebb	B	11.4	16:42	9.17	8.06	30.82	19.2	4.22	8	112	0.17	SE
S3	20190128	Fine	Moderate	Mid-Ebb	B	11.4	16:43	9.24	8.16	30.35	19.2	4.24	6	113	0.18	SE
S3	20190128	Fine	Moderate	Mid-Ebb	M	6.2	16:43	9.32	8.27	30.87	19.1	3.82	8	112	0.23	SE
S3	20190128	Fine	Moderate	Mid-Ebb	M	6.2	16:44	9.33	8.33	30.46	19.1	3.86	7	112	0.24	SE
S3	20190128	Fine	Moderate	Mid-Ebb	S	1	16:45	9.37	8.1	30.3	19.1	2.19	8	112	0.37	SE
S3	20190128	Fine	Moderate	Mid-Ebb	S	1	16:46	9.28	8.07	30.81	19.1	2.12	6	113	0.35	SE
CR2	20190128	Fine	Moderate	Mid-Ebb	B	8.2	16:55	9.71	8.39	30.21	19.1	4.16	6	112	0.15	SE
CR2	20190128	Fine	Moderate	Mid-Ebb	B	8.2	16:56	9.74	8.36	30.91	19.1	4.22	7	113	0.15	SE
CR2	20190128	Fine	Moderate	Mid-Ebb	M	4.6	16:57	9.74	8.02	30.36	19.1	3.44	6	113	0.27	SE
CR2	20190128	Fine	Moderate	Mid-Ebb	M	4.6	16:57	9.82	8.11	30.3	19.1	3.42	5	113	0.26	SE
CR2	20190128	Fine	Moderate	Mid-Ebb	S	1	16:58	9.81	8.08	30.62	19.1	2.49	6	112	0.35	SE
CR2	20190128	Fine	Moderate	Mid-Ebb	S	1	16:59	9.74	8.3	30.85	19.1	2.57	6	113	0.37	SE
CR1	20190128	Fine	Moderate	Mid-Ebb	B	8.7	17:07	9.17	8.49	30	19.1	4.44	6	112	0.11	SE
CR1	20190128	Fine	Moderate	Mid-Ebb	B	8.7	17:07	9.17	8.15	30.41	19.1	4.51	6	112	0.09	SE
CR1	20190128	Fine	Moderate	Mid-Ebb	M	4.9	17:08	9.13	8.31	30.31	19.2	3.24	9	113	0.28	SE
CR1	20190128	Fine	Moderate	Mid-Ebb	M	4.9	17:09	9.21	8.07	30.26	19.2	3.19	7	113	0.27	SE
CR1	20190128	Fine	Moderate	Mid-Ebb	S	1	17:10	9.19	8.4	30.23	19.2	2.65	10	112	0.32	SE
CR1	20190128	Fine	Moderate	Mid-Ebb	S	1	17:10	9.25	8.3	30.96	19.2	2.6	8	112	0.31	SE
B1	20190128	Fine	Moderate	Mid-Ebb	B	4.4	17:13	8.91	8.47	30.35	19.2	4	10	113	0.12	SE
B1	20190128	Fine	Moderate	Mid-Ebb	B	4.4	17:14	8.93	8	30.65	19.2	3.92	9	113	0.14	SE
B1	20190128	Fine	Moderate	Mid-Ebb	S	1	17:14	8.94	8.3	29.9	19.2	2.92	11	113	0.38	SE
B1	20190128	Fine	Moderate	Mid-Ebb	S	1	17:15	8.95	8.25	30.24	19.1	2.98	9	113	0.38	SE
S1	20190128	Fine	Moderate	Mid-Ebb	B	4.3	17:22	9.09	8.03	29.91	19.2	4.79	9	112	0.1	E
S1	20190128	Fine	Moderate	Mid-Ebb	B	4.3	17:23	9.01	8.41	29.83	19.1	4.8	8	112	0.12	E
S1	20190128	Fine	Moderate	Mid-Ebb	S	1	17:23	9.08	8.34	30.32	19.2	2.46	5	112	0.37	E
S1	20190128	Fine	Moderate	Mid-Ebb	S	1	17:24	9.1	8.25	29.78	19.1	2.44	7	112	0.36	E
B2	20190128	Fine	Moderate	Mid-Ebb	B	4.4	17:40	9.45	8.22	30.93	19.2	4.91	13	113	0.1	SE
B2	20190128	Fine	Moderate	Mid-Ebb	B	4.4	17:40	9.52	8.46	30.46	19.1	4.82	11	112	0.11	SE



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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B2	20190128	Fine	Moderate	Mid-Ebb	S	1	17:41	9.54	8.29	30.29	19.1	2.64	10	112	0.4	SE
B2	20190128	Fine	Moderate	Mid-Ebb	S	1	17:42	9.64	8.35	30.08	19.1	2.66	12	113	0.42	SE
H1	20190128	Fine	Moderate	Mid-Ebb	B	7.8	18:05	9.26	8.44	30.43	19.2	4.34	8	113	0.11	E
H1	20190128	Fine	Moderate	Mid-Ebb	B	7.8	18:05	9.24	8.41	30.05	19.1	4.39	10	112	0.09	E
H1	20190128	Fine	Moderate	Mid-Ebb	M	4.4	18:06	9.28	8.03	29.84	19.2	3.89	9	113	0.2	E
H1	20190128	Fine	Moderate	Mid-Ebb	M	4.4	18:07	9.36	8.43	30.71	19.2	3.88	9	112	0.2	E
H1	20190128	Fine	Moderate	Mid-Ebb	S	1	18:07	9.36	8.05	30.67	19.1	2.71	13	112	0.33	E
H1	20190128	Fine	Moderate	Mid-Ebb	S	1	18:08	9.38	8.04	29.71	19.2	2.81	11	113	0.33	E
B3	20190128	Fine	Moderate	Mid-Ebb	B	4.4	18:19	9.51	8.15	30.98	19.2	4.36	9	112	0.16	E
B3	20190128	Fine	Moderate	Mid-Ebb	B	4.4	18:20	9.45	8.22	30.35	19.2	4.46	9	112	0.15	E
B3	20190128	Fine	Moderate	Mid-Ebb	S	1	18:20	9.53	8.35	29.84	19.2	2.64	10	112	0.4	E
B3	20190128	Fine	Moderate	Mid-Ebb	S	1	18:21	9.43	8.5	29.94	19.2	2.73	10	112	0.38	E
B4	20190128	Fine	Moderate	Mid-Ebb	B	4.5	18:28	8.96	8.41	29.99	19.2	4.13	13	113	0.15	SE
B4	20190128	Fine	Moderate	Mid-Ebb	B	4.5	18:28	9.05	8.07	30.04	19.1	4.17	11	113	0.15	SE
B4	20190128	Fine	Moderate	Mid-Ebb	S	1	18:29	9.15	8.1	30.37	19.2	2.52	11	112	0.3	SE
B4	20190128	Fine	Moderate	Mid-Ebb	S	1	18:30	9.13	8.26	30.39	19.2	2.51	12	112	0.31	SE
C1	20190130		Light	Mid-Ebb	B	10.9	9:06	10.12	8.46	30.14	21.8	4.52	8	113	0.17	E
C1	20190130	Cloudy	Light	Mid-Ebb	B	10.9	9:06	10.16	8.38	29.88	21.8	4.57	9	111	0.17	E
C1	20190130	Cloudy	Light	Mid-Ebb	M	6	9:07	10.15	8.37	30.54	21.9	3.19	9	112	0.25	E
C1	20190130	Cloudy	Light	Mid-Ebb	M	6	9:08	10.06	8.48	29.77	21.8	3.16	8	113	0.25	SE
C1	20190130	Cloudy	Light	Mid-Ebb	S	1	9:08	10.05	8.01	30.3	21.8	2.27	8	112	0.37	SE
C1	20190130	Cloudy	Light	Mid-Ebb	S	1	9:09	10.08	8.34	30.46	21.9	2.19	9	112	0.39	SE
F1	20190130	Cloudy	Light	Mid-Ebb	B	7.9	9:11	9.66	8.27	30.53	21.9	4.89	12	112	0.14	SE
F1	20190130	Cloudy	Light	Mid-Ebb	B	7.9	9:12	9.69	8.27	30.74	21.8	4.91	12	111	0.12	SE
F1	20190130	Cloudy	Light	Mid-Ebb	M	4.5	9:12	9.68	8.02	30.84	21.9	3.37	12	112	0.23	SE
F1	20190130	Cloudy	Light	Mid-Ebb	M	4.5	9:13	9.78	8.02	30.47	21.8	3.31	10	112	0.23	SE
F1	20190130	Cloudy	Light	Mid-Ebb	S	1	9:14	9.85	8.19	30.76	21.9	2.69	14	111	0.32	SE
F1	20190130	Cloudy	Light	Mid-Ebb	S	1	9:14	9.77	8.22	29.75	21.9	2.67	14	111	0.3	SE
B1	20190130	Cloudy	Light	Mid-Ebb	B	4.4	9:31	9.49	8.29	30.81	21.8	4.86	8	112	0.1	NE
B1	20190130	Cloudy	Light	Mid-Ebb	B	4.4	9:32	9.42	8.13	30.42	21.8	4.84	9	112	0.09	NE
B1	20190130	Cloudy	Light	Mid-Ebb	S	1	9:33	9.39	8.06	30.49	21.8	2.87	8	113	0.37	NE
B1	20190130	Cloudy	Light	Mid-Ebb	S	1	9:33	9.44	8.34	30.17	21.9	2.8	9	113	0.35	NE

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
S1	20190130	Cloudy	Light	Mid-Ebb	B	4.5	9:41	10.31	8.01	30.6	21.8	4.01	12	111	0.19	NE
S1	20190130	Cloudy	Light	Mid-Ebb	B	4.5	9:42	10.28	8.48	30.63	21.8	4.11	11	112	0.19	E
S1	20190130	Cloudy	Light	Mid-Ebb	S	1	9:42	10.19	8.28	30.48	21.9	2.8	10	111	0.3	E
S1	20190130	Cloudy	Light	Mid-Ebb	S	1	9:43	10.15	8.33	30.72	21.9	2.78	11	111	0.32	E
M1	20190130	Cloudy	Light	Mid-Ebb	B	8.2	9:40	10.26	8.38	29.72	21.8	4.02	10	112	0.14	SW
M1	20190130	Cloudy	Light	Mid-Ebb	B	8.2	9:41	10.22	8.29	29.79	21.9	3.93	9	113	0.15	SW
M1	20190130	Cloudy	Light	Mid-Ebb	M	4.6	9:41	10.26	8.02	30.56	21.9	3.34	9	112	0.3	SW
M1	20190130	Cloudy	Light	Mid-Ebb	M	4.6	9:42	10.23	8.46	29.82	21.8	3.25	10	110	0.3	SW
M1	20190130	Cloudy	Light	Mid-Ebb	S	1	9:43	10.28	8.48	30.42	21.9	2.98	10	112	0.39	SW
M1	20190130	Cloudy	Light	Mid-Ebb	S	1	9:43	10.34	8.26	30.03	21.9	3.04	10	111	0.4	SW
B2	20190130	Cloudy	Light	Mid-Ebb	B	4.4	9:51	10.09	8.42	30.43	21.8	4.97	8	112	0.13	SE
B2	20190130	Cloudy	Light	Mid-Ebb	B	4.4	9:52	10.13	8.03	29.82	21.9	4.98	8	112	0.14	SE
B2	20190130	Cloudy	Light	Mid-Ebb	S	1	9:53	10.22	8.08	29.73	21.8	2.81	5	112	0.35	SE
B2	20190130	Cloudy	Light	Mid-Ebb	S	1	9:53	10.28	8.16	29.87	21.8	2.88	6	112	0.37	SE
S2	20190130	Cloudy	Light	Mid-Ebb	B	8.3	10:06	9.48	8.38	30.56	21.9	4.06	8	112	0.15	SE
S2	20190130	Cloudy	Light	Mid-Ebb	B	8.3	10:07	9.56	8.13	30.31	21.8	4.09	8	112	0.17	SE
S2	20190130	Cloudy	Light	Mid-Ebb	M	4.7	10:07	9.46	8.43	30.41	21.8	3.87	11	111	0.2	SE
S2	20190130	Cloudy	Light	Mid-Ebb	M	4.7	10:08	9.55	8.47	29.86	21.8	3.95	11	111	0.21	SE
S2	20190130	Cloudy	Light	Mid-Ebb	S	1	10:09	9.48	8	30.64	21.8	2.59	9	112	0.32	SE
S2	20190130	Cloudy	Light	Mid-Ebb	S	1	10:10	9.45	8.43	30.68	21.9	2.53	10	111	0.34	SE
CR2	20190130	Cloudy	Light	Mid-Ebb	B	9.4	10:19	10.25	8.15	30.71	21.8	4.37	6	111	0.11	SE
CR2	20190130	Cloudy	Light	Mid-Ebb	B	9.4	10:20	10.18	8.1	30.13	21.9	4.4	6	112	0.11	SE
CR2	20190130	Cloudy	Light	Mid-Ebb	M	5.2	10:21	10.26	8.49	30.36	21.8	3.9	8	111	0.26	SE
CR2	20190130	Cloudy	Light	Mid-Ebb	M	5.2	10:21	10.34	8.3	30.73	21.8	3.89	7	111	0.25	SE
CR2	20190130	Cloudy	Light	Mid-Ebb	S	1	10:22	10.28	8.09	30.51	21.8	2.55	8	111	0.39	SE
CR2	20190130	Cloudy	Light	Mid-Ebb	S	1	10:23	10.2	8.43	29.81	21.9	2.64	9	112	0.41	SE
H1	20190130	Cloudy	Light	Mid-Ebb	B	8.5	10:25	10.07	8.25	29.76	21.9	4.04	9	113	0.15	E
H1	20190130	Cloudy	Light	Mid-Ebb	B	8.5	10:25	10.04	8.04	30.15	21.8	4.06	9	112	0.16	E
H1	20190130	Cloudy	Light	Mid-Ebb	M	4.8	10:26	9.99	8.02	29.99	21.8	3.02	7	113	0.22	E
H1	20190130	Cloudy	Light	Mid-Ebb	M	4.8	10:27	9.91	8.07	30.11	21.9	2.93	7	112	0.24	E
H1	20190130	Cloudy	Light	Mid-Ebb	S	1	10:27	9.81	8.03	30.63	21.9	2.43	8	113	0.38	E
H1	20190130	Cloudy	Light	Mid-Ebb	S	1	10:28	9.91	8.12	29.88	21.9	2.42	7	113	0.36	E

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Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
S3	20190130	Cloudy	Light	Mid-Ebb	B	11.1	10:26	10.53	8.28	30.11	21.9	4.62	8	111	0.16	SE
S3	20190130	Cloudy	Light	Mid-Ebb	B	11.1	10:27	10.63	8.49	29.93	21.8	4.53	9	110	0.18	SE
S3	20190130	Cloudy	Light	Mid-Ebb	M	6.1	10:27	10.58	8.08	29.96	21.8	3.96	8	111	0.26	SE
S3	20190130	Cloudy	Light	Mid-Ebb	M	6.1	10:28	10.64	8.06	30.26	21.9	3.89	8	111	0.28	SE
S3	20190130	Cloudy	Light	Mid-Ebb	S	1	10:29	10.67	8.46	29.97	21.9	2.26	8	111	0.31	SE
S3	20190130	Cloudy	Light	Mid-Ebb	S	1	10:29	10.57	8.19	30.36	21.9	2.2	8	112	0.29	SE
CR1	20190130	Cloudy	Light	Mid-Ebb	B	8.8	10:36	10.34	8.11	30.32	21.9	4.71	7	112	0.12	SE
CR1	20190130	Cloudy	Light	Mid-Ebb	B	8.8	10:37	10.4	8.39	30.69	21.9	4.75	7	111	0.12	SE
CR1	20190130	Cloudy	Light	Mid-Ebb	M	4.9	10:38	10.45	8.12	30.48	21.9	3.89	9	112	0.3	SE
CR1	20190130	Cloudy	Light	Mid-Ebb	M	4.9	10:38	10.36	8.41	30.89	21.8	3.82	8	113	0.29	SE
CR1	20190130	Cloudy	Light	Mid-Ebb	S	1	10:39	10.39	8.22	29.91	21.8	2.61	8	112	0.3	SE
CR1	20190130	Cloudy	Light	Mid-Ebb	S	1	10:40	10.48	8.13	30.71	21.8	2.6	7	112	0.32	SE
B3	20190130	Cloudy	Light	Mid-Ebb	B	4.4	10:43	10.45	8.06	29.79	21.8	4.01	7	112	0.15	E
B3	20190130	Cloudy	Light	Mid-Ebb	B	4.4	10:43	10.42	8.22	30.81	21.8	4.06	6	113	0.15	E
B3	20190130	Cloudy	Light	Mid-Ebb	S	1	10:44	10.48	8.37	30.32	21.9	2.76	8	112	0.32	E
B3	20190130	Cloudy	Light	Mid-Ebb	S	1	10:45	10.51	8.38	30.72	21.9	2.77	7	112	0.32	E
B4	20190130	Cloudy	Light	Mid-Ebb	B	4.5	10:54	9.59	8.33	29.97	21.8	4.27	8	112	0.13	SE
B4	20190130	Cloudy	Light	Mid-Ebb	B	4.5	10:55	9.61	8.25	29.75	21.8	4.34	8	113	0.13	SE
B4	20190130	Cloudy	Light	Mid-Ebb	S	1	10:56	9.62	8.4	30.1	21.8	2.79	6	113	0.34	SE
B4	20190130	Cloudy	Light	Mid-Ebb	S	1	10:57	9.68	8.13	29.91	21.9	2.89	6	112	0.35	SE
C2	20190130	Cloudy	Light	Mid-Ebb	B	8.1	11:08	10.3	8.44	30.2	21.8	4.46	13	112	0.2	S
C2	20190130	Cloudy	Light	Mid-Ebb	B	8.1	11:09	10.28	8.25	29.79	21.8	4.38	12	111	0.2	S
C2	20190130	Cloudy	Light	Mid-Ebb	M	4.6	11:10	10.24	8.35	30.69	21.9	3.77	12	112	0.21	S
C2	20190130	Cloudy	Light	Mid-Ebb	M	4.6	11:10	10.14	8.27	30.67	21.8	3.87	12	112	0.2	S
C2	20190130	Cloudy	Light	Mid-Ebb	S	1	11:11	10.2	8.27	30.7	21.8	2.12	15	112	0.35	S
C2	20190130	Cloudy	Light	Mid-Ebb	S	1	11:12	10.15	8.1	29.89	21.9	2.1	14	112	0.34	S
C2	20190130	Sunny	Light	Mid-Flood	B	8.4	12:23	10.06	8	30.07	21.8	4.25	7	112	0.12	NW
C2	20190130	Sunny	Light	Mid-Flood	B	8.4	12:23	9.98	8.18	30.59	21.8	4.17	7	113	0.11	NW
C2	20190130	Sunny	Light	Mid-Flood	M	4.7	12:24	10.03	8.4	30.75	21.8	3.13	6	113	0.29	NW
C2	20190130	Sunny	Light	Mid-Flood	M	4.7	12:25	10.01	8.13	30.19	21.8	3.15	6	114	0.31	NW
C2	20190130	Sunny	Light	Mid-Flood	S	1	12:25	9.91	8.22	30.64	21.8	2.29	5	112	0.36	NW
C2	20190130	Sunny	Light	Mid-Flood	S	1	12:26	9.83	8.37	29.86	21.8	2.29	5	114	0.36	NW

Contract No. EP/SP/66/12  
 Integrated Waste Management Facilities, Phase 1  
 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
CR1	20190130	Sunny	Light	Mid-Flood	B	9.2	12:22	9.95	8.42	29.85	21.8	4.19	9	112	0.1	NW
CR1	20190130	Sunny	Light	Mid-Flood	B	9.2	12:23	9.86	8.11	30.23	21.9	4.21	9	112	0.12	NW
CR1	20190130	Sunny	Light	Mid-Flood	M	5.1	12:23	9.83	8.3	29.74	21.9	4	7	112	0.3	NW
CR1	20190130	Sunny	Light	Mid-Flood	M	5.1	12:24	9.76	8.5	29.9	21.9	3.99	8	112	0.32	NW
CR1	20190130	Sunny	Light	Mid-Flood	S	1	12:25	9.8	8.19	30.79	21.8	2.06	6	113	0.32	NW
CR1	20190130	Sunny	Light	Mid-Flood	S	1	12:25	9.85	8.36	29.7	21.8	2.16	7	112	0.31	NW
CR2	20190130	Sunny	Light	Mid-Flood	B	9.8	12:33	9.8	8.1	30.4	21.8	4.68	6	113	0.14	NW
CR2	20190130	Sunny	Light	Mid-Flood	B	9.8	12:34	9.89	8.15	29.88	21.8	4.68	8	113	0.12	NW
CR2	20190130	Sunny	Light	Mid-Flood	M	5.4	12:35	9.93	8.07	30.02	21.9	3.92	6	112	0.3	NW
CR2	20190130	Sunny	Light	Mid-Flood	M	5.4	12:35	10.02	8.11	30.02	21.9	4	6	112	0.32	NW
CR2	20190130	Sunny	Light	Mid-Flood	S	1	12:36	9.95	8.13	30.67	21.9	2.41	7	112	0.33	NW
CR2	20190130	Sunny	Light	Mid-Flood	S	1	12:37	10.04	8.08	30.27	21.9	2.41	8	112	0.33	NW
S3	20190130	Sunny	Light	Mid-Flood	B	11.3	12:43	9.68	8.05	30.12	21.9	4.13	8	112	0.16	NW
S3	20190130	Sunny	Light	Mid-Flood	B	11.3	12:44	9.69	8.17	30.16	21.9	4.08	8	112	0.18	NW
S3	20190130	Sunny	Light	Mid-Flood	M	6.2	12:45	9.7	8.1	30	21.9	3.25	8	112	0.22	NW
S3	20190130	Sunny	Light	Mid-Flood	M	6.2	12:46	9.69	8.18	29.91	21.8	3.21	8	113	0.2	NW
S3	20190130	Sunny	Light	Mid-Flood	S	1	12:46	9.72	8.07	30.79	21.9	2.72	8	113	0.32	NW
S3	20190130	Sunny	Light	Mid-Flood	S	1	12:47	9.69	8.5	30.86	21.9	2.75	8	113	0.32	NW
F1	20190130	Sunny	Light	Mid-Flood	B	8.2	12:47	9.83	8.02	30.39	21.8	4.03	5	113	0.17	NW
F1	20190130	Sunny	Light	Mid-Flood	B	8.2	12:47	9.86	8.44	30.2	21.8	4.07	6	113	0.17	NW
F1	20190130	Sunny	Light	Mid-Flood	M	4.6	12:48	9.77	8.05	30.22	21.8	3.05	6	113	0.26	NW
F1	20190130	Sunny	Light	Mid-Flood	M	4.6	12:49	9.87	8.16	29.73	21.9	3.05	6	113	0.27	NW
F1	20190130	Sunny	Light	Mid-Flood	S	1	12:50	9.92	8	29.83	21.8	2.71	6	112	0.37	NW
F1	20190130	Sunny	Light	Mid-Flood	S	1	12:50	9.92	8.42	30.49	21.8	2.67	6	112	0.37	NW
C1	20190130	Sunny	Light	Mid-Flood	B	11.2	13:11	9.51	8.43	30.45	21.8	4.43	4	113	0.2	NW
C1	20190130	Sunny	Light	Mid-Flood	B	11.2	13:12	9.61	8.37	30.32	21.8	4.39	4	114	0.19	NW
C1	20190130	Sunny	Light	Mid-Flood	M	6.1	13:12	9.55	8.3	30.39	21.8	3.65	5	112	0.3	NW
C1	20190130	Sunny	Light	Mid-Flood	M	6.1	13:13	9.62	8.09	30.55	21.9	3.58	5	113	0.3	NW
C1	20190130	Sunny	Light	Mid-Flood	S	1	13:14	9.64	8.36	30.69	21.9	2.07	6	112	0.39	NW
C1	20190130	Sunny	Light	Mid-Flood	S	1	13:15	9.68	8.46	30.74	21.8	2.11	7	112	0.38	NW
M1	20190130	Sunny	Light	Mid-Flood	B	8.4	13:19	9.61	8.22	29.93	21.8	4.83	6	113	0.12	NW
M1	20190130	Sunny	Light	Mid-Flood	B	8.4	13:20	9.66	8.36	30.71	21.8	4.91	7	113	0.11	NW

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 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
M1	20190130	Sunny	Light	Mid-Flood	M	4.7	13:21	9.6	8.13	30.61	21.9	3.98	7	113	0.29	NW
M1	20190130	Sunny	Light	Mid-Flood	M	4.7	13:21	9.64	8.42	30.06	21.9	3.94	7	112	0.31	NW
M1	20190130	Sunny	Light	Mid-Flood	S	1	13:22	9.69	8.34	30.17	21.8	2.7	6	112	0.38	NW
M1	20190130	Sunny	Light	Mid-Flood	S	1	13:23	9.69	8.45	30.81	21.9	2.63	6	112	0.37	NW
B1	20190130	Sunny	Light	Mid-Flood	B	4.7	13:34	9.45	8.44	29.71	21.8	4.34	5	113	0.15	NW
B1	20190130	Sunny	Light	Mid-Flood	B	4.7	13:34	9.44	8.1	30.8	21.9	4.4	4	113	0.15	NW
B1	20190130	Sunny	Light	Mid-Flood	S	1	13:35	9.39	8.28	29.83	21.9	2.51	4	112	0.32	NW
B1	20190130	Sunny	Light	Mid-Flood	S	1	13:36	9.36	8.14	30.28	21.8	2.42	4	112	0.32	NW
S1	20190130	Sunny	Light	Mid-Flood	B	4.8	13:42	9.69	8.16	30.59	21.9	4.76	6	113	0.19	W
S1	20190130	Sunny	Light	Mid-Flood	B	4.8	13:42	9.77	8.25	30.09	21.8	4.73	6	112	0.19	W
S1	20190130	Sunny	Light	Mid-Flood	S	1	13:43	9.75	8.38	29.96	21.8	2.81	5	112	0.3	W
S1	20190130	Sunny	Light	Mid-Flood	S	1	13:44	9.81	8.03	29.85	21.9	2.81	5	112	0.28	W
B2	20190130	Sunny	Light	Mid-Flood	B	4.7	13:51	10.06	8.2	30.73	21.9	4.26	5	113	0.18	N
B2	20190130	Sunny	Light	Mid-Flood	B	4.7	13:52	10.03	8.06	30.19	21.9	4.33	4	113	0.19	N
B2	20190130	Sunny	Light	Mid-Flood	S	1	13:53	10.05	8.07	30.15	21.9	2.61	8	113	0.32	N
B2	20190130	Sunny	Light	Mid-Flood	S	1	13:54	10.14	8.38	29.95	21.8	2.55	9	113	0.31	N
H1	20190130	Sunny	Light	Mid-Flood	B	8.8	14:03	9.98	8.31	30.48	21.9	4.46	6	112	0.13	W
H1	20190130	Sunny	Light	Mid-Flood	B	8.8	14:04	10.05	8.47	30.8	21.8	4.38	5	113	0.13	W
H1	20190130	Sunny	Light	Mid-Flood	M	4.9	14:05	10.11	8.23	30.09	21.9	3.43	5	113	0.2	W
H1	20190130	Sunny	Light	Mid-Flood	M	4.9	14:05	10.06	8.47	30.06	21.9	3.37	5	112	0.2	W
H1	20190130	Sunny	Light	Mid-Flood	S	1	14:06	10.15	8.16	30.02	21.9	2.98	4	112	0.32	W
H1	20190130	Sunny	Light	Mid-Flood	S	1	14:07	10.23	8.46	30.78	21.8	3.02	4	112	0.3	W
S2	20190130	Sunny	Light	Mid-Flood	B	8.5	14:07	10.27	8.25	30.66	21.8	4.89	6	113	0.15	NW
S2	20190130	Sunny	Light	Mid-Flood	B	8.5	14:07	10.31	8.1	30.54	21.9	4.79	7	112	0.14	NW
S2	20190130	Sunny	Light	Mid-Flood	M	4.8	14:08	10.26	8.23	30.16	21.9	3.07	8	113	0.26	NW
S2	20190130	Sunny	Light	Mid-Flood	M	4.8	14:09	10.28	8.47	29.89	21.8	3.04	8	111	0.27	NW
S2	20190130	Sunny	Light	Mid-Flood	S	1	14:09	10.2	8.44	30.8	21.9	2.65	6	112	0.34	NW
S2	20190130	Sunny	Light	Mid-Flood	S	1	14:10	10.1	8.24	29.92	21.8	2.71	7	114	0.32	NW
B4	20190130	Sunny	Light	Mid-Flood	B	4.7	14:22	10.18	8.18	30.48	21.8	4.98	5	114	0.1	N
B4	20190130	Sunny	Light	Mid-Flood	B	4.7	14:23	10.24	8.22	30.73	21.9	5.05	6	113	0.08	N
B4	20190130	Sunny	Light	Mid-Flood	S	1	14:23	10.34	8.22	30.53	21.8	2.91	6	112	0.31	N
B4	20190130	Sunny	Light	Mid-Flood	S	1	14:24	10.28	8.4	30.37	21.9	2.98	5	113	0.3	N

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 Baseline Water Quality Monitoring Data

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level <small>note 1</small>	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidity (NTU) <small>Note 3</small>	SS (mg/L)	Total Alkalinity (mg/L)	Current Velocity	Direction in NESW
B3	20190130	Sunny	Light	Mid-Flood	B	4.6	14:37	9.48	8.14	30.05	21.8	4.17	5	112	0.18	W
B3	20190130	Sunny	Light	Mid-Flood	B	4.6	14:37	9.44	8.18	30.8	21.9	4.12	6	112	0.17	W
B3	20190130	Sunny	Light	Mid-Flood	S	1	14:38	9.44	8.31	30.78	21.8	2.44	4	113	0.32	W
B3	20190130	Sunny	Light	Mid-Flood	S	1	14:39	9.49	8.16	30.84	21.9	2.41	4	113	0.34	W

Remarks:

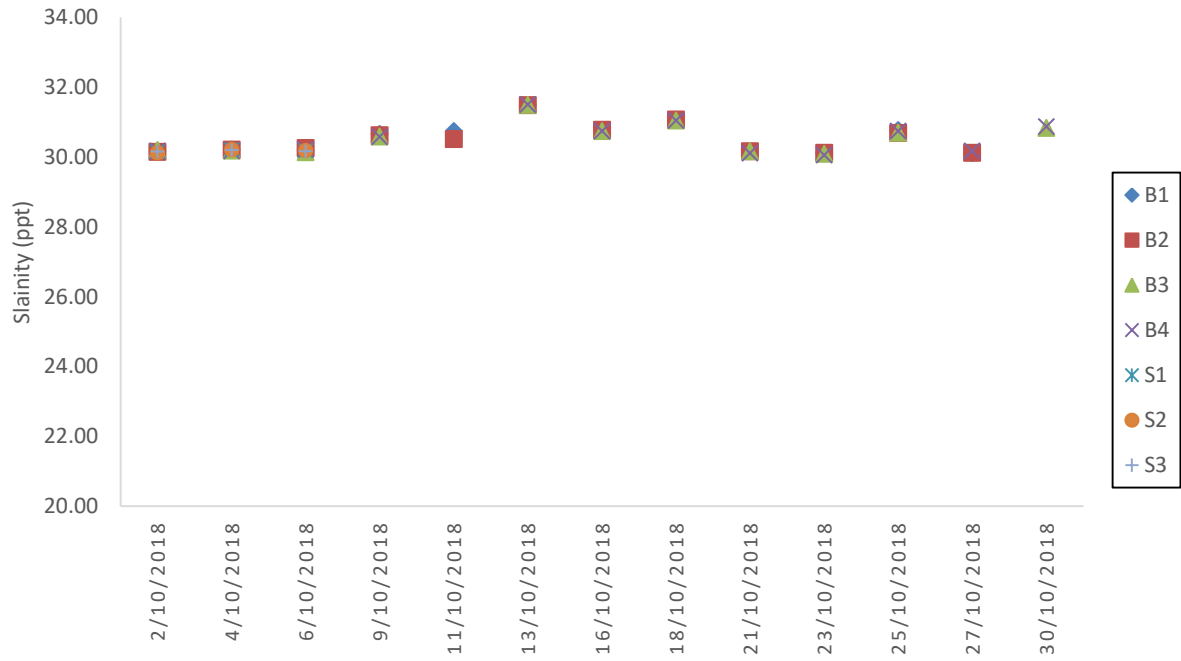
note 1: S – Surface M – Middle B – Bottom

note 2: Cancelled due to container leakage.

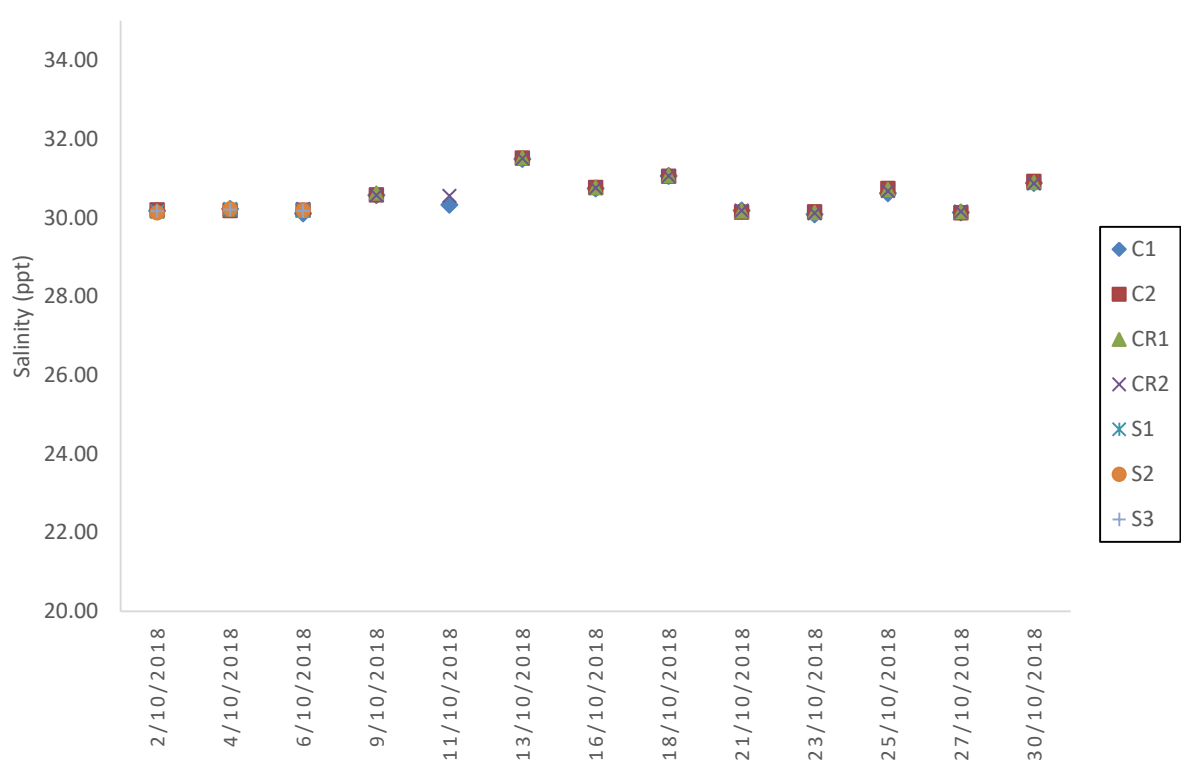
note 3: Measurements of turbidity would be rounding to 0.1 NTU for proven accuracy as per the equipment specs during utilization of data.



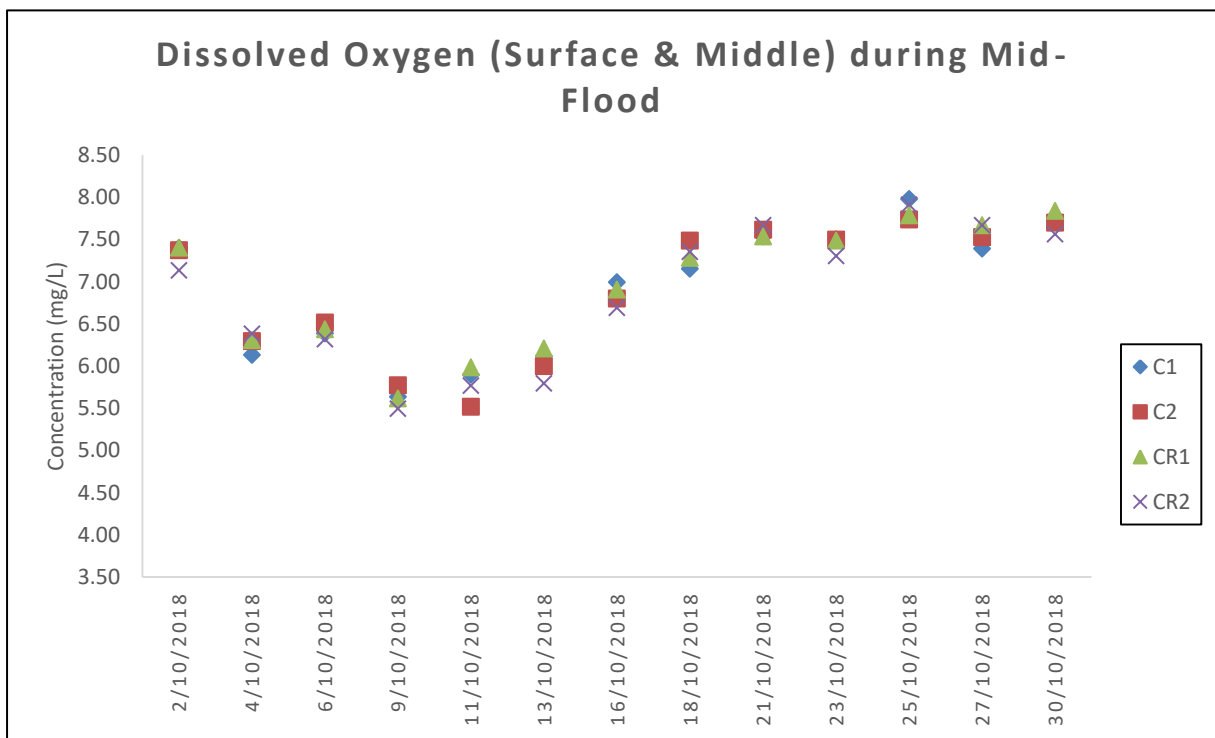
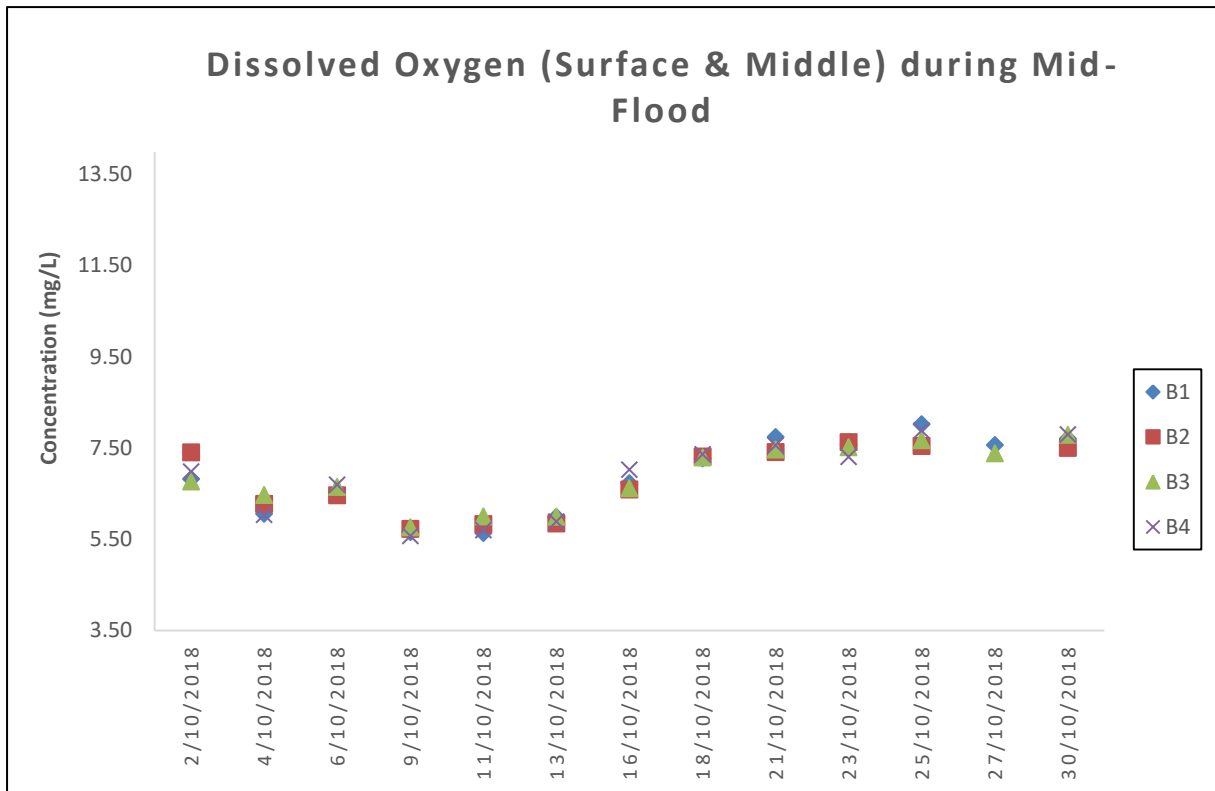
### Salinity (Depth-averaged) during Mid-Ebb



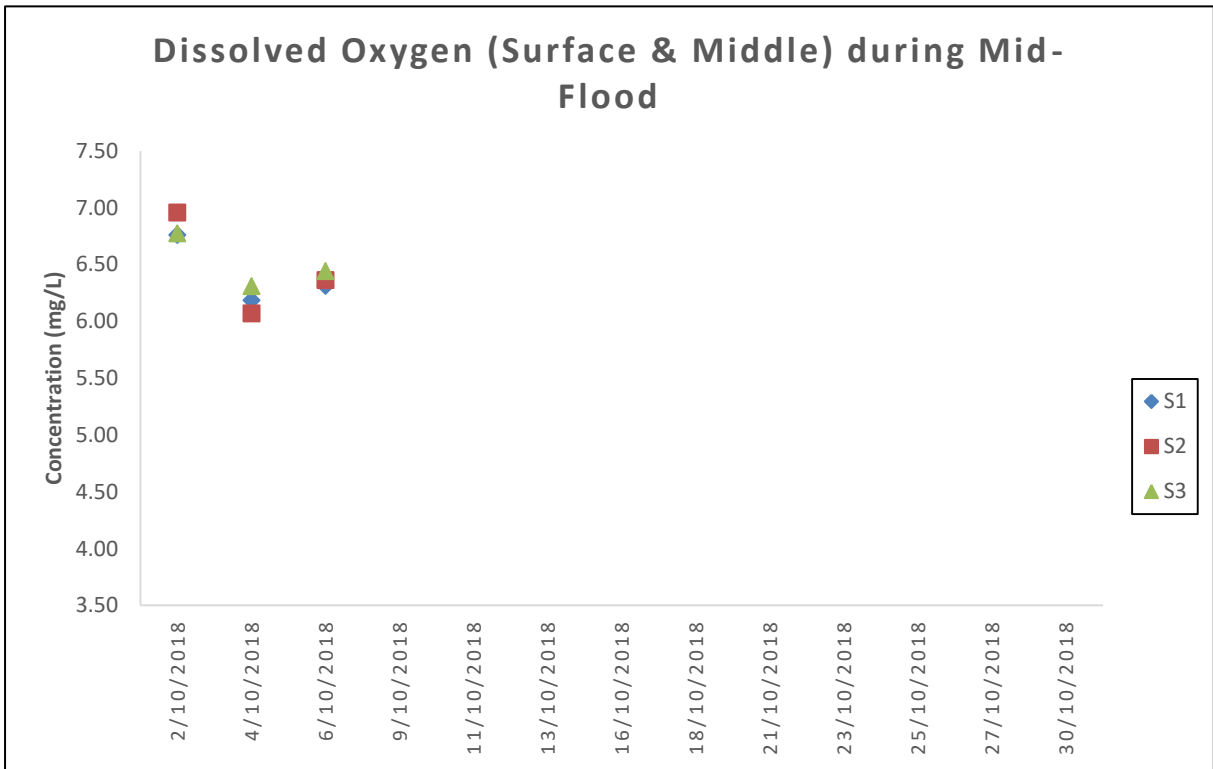
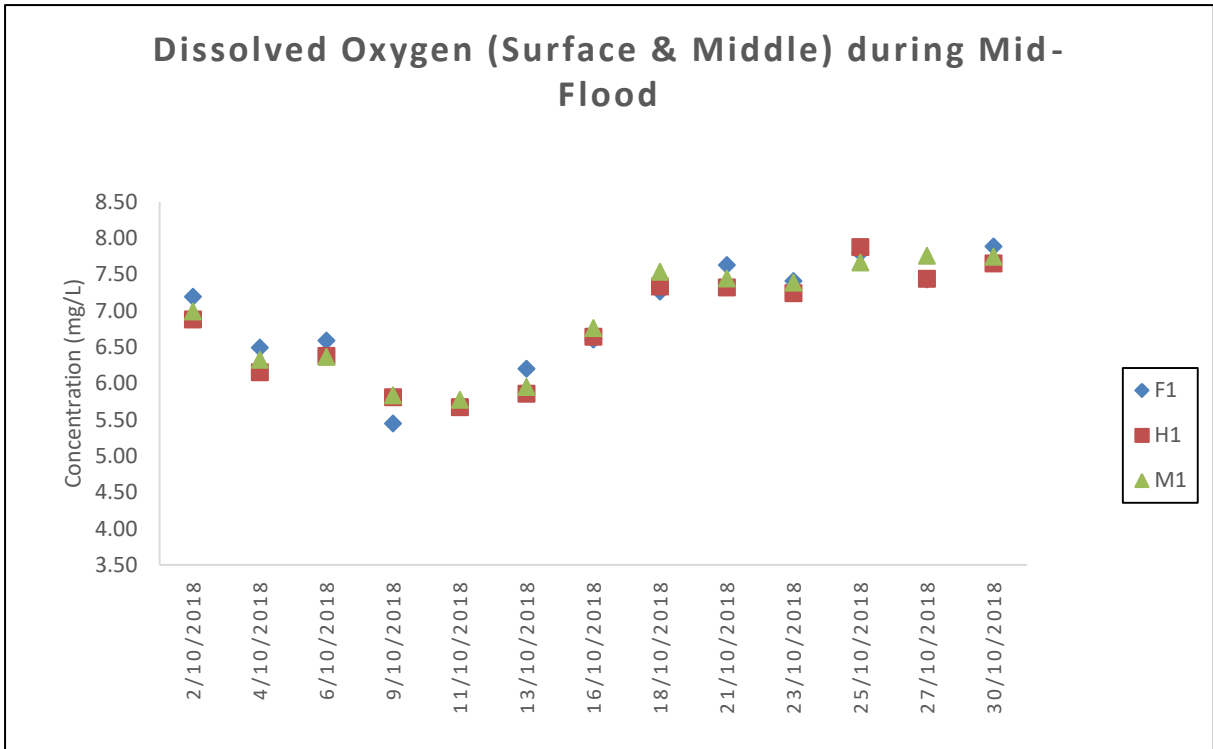
### Salinity (Depth-averaged) during Mid-Ebb



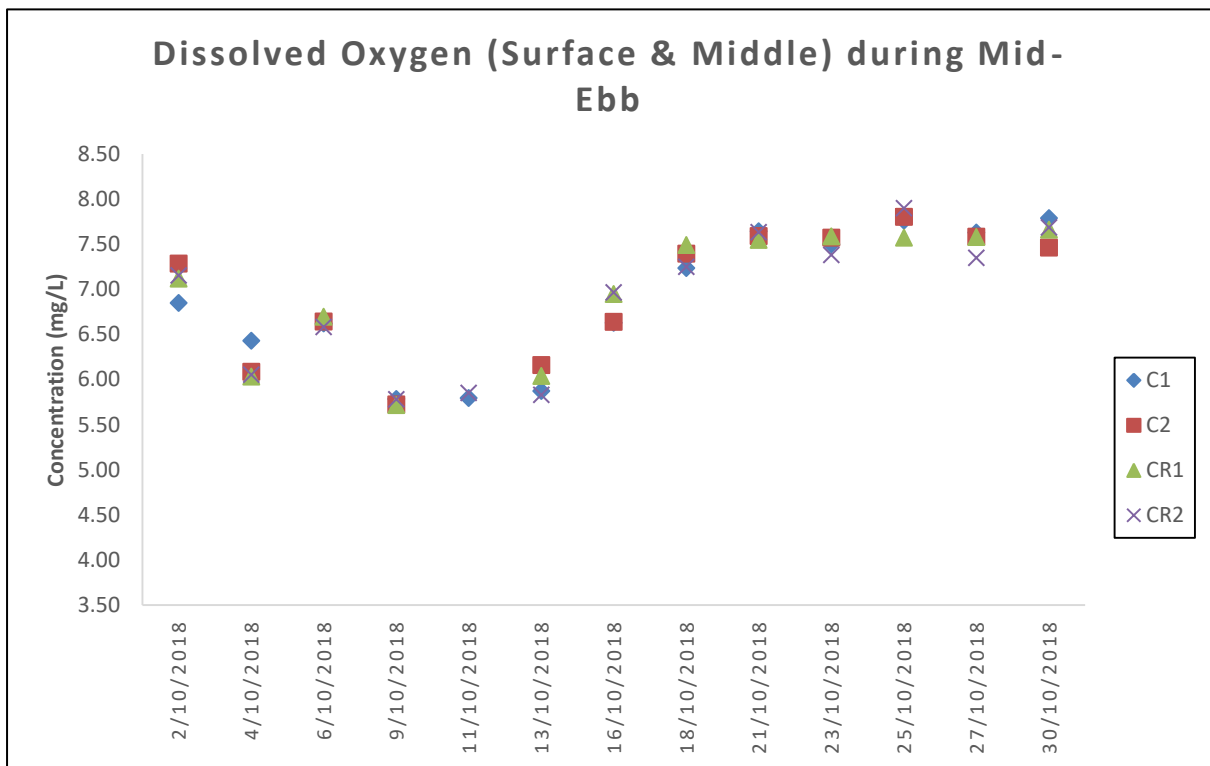
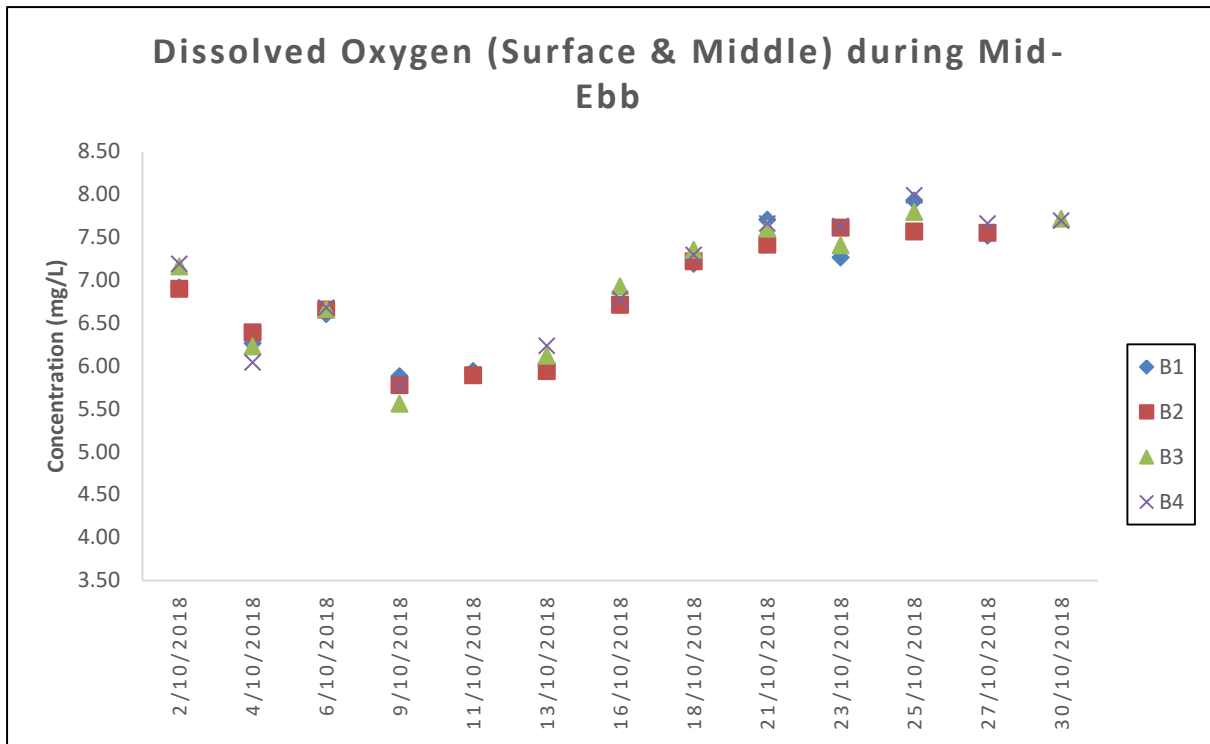




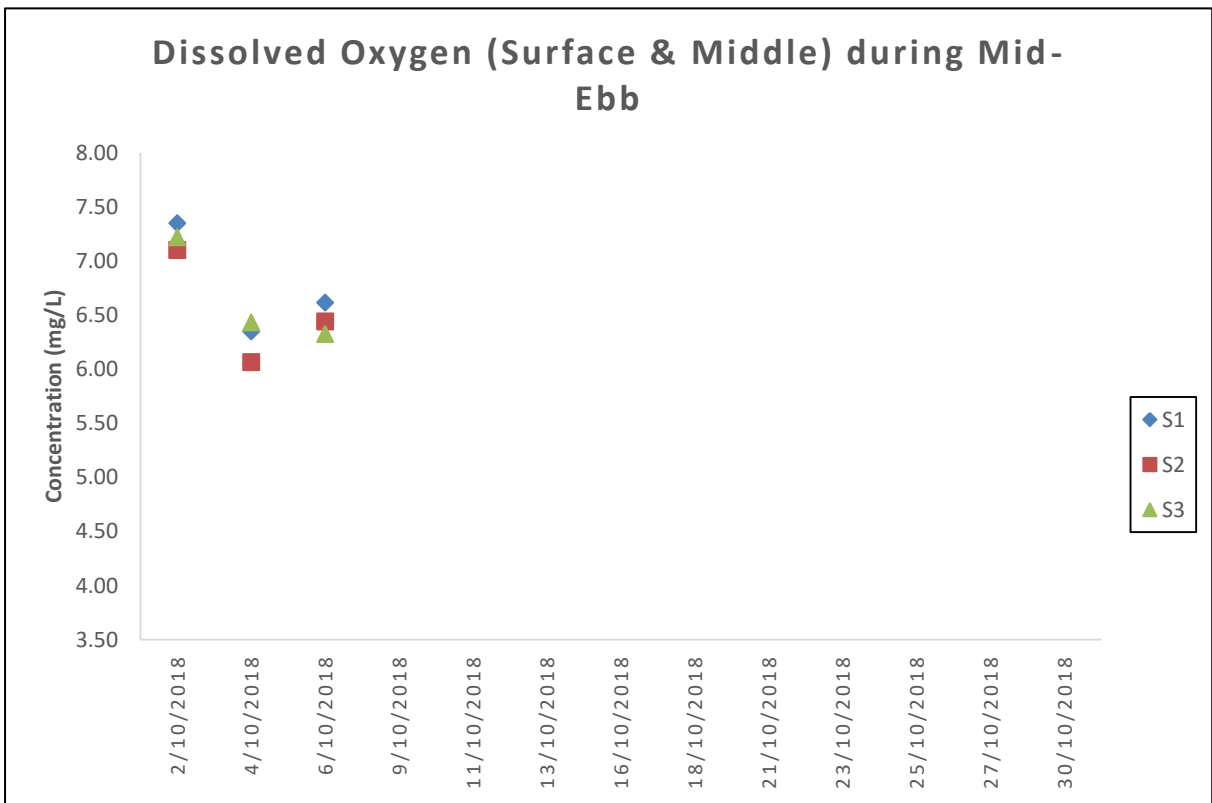
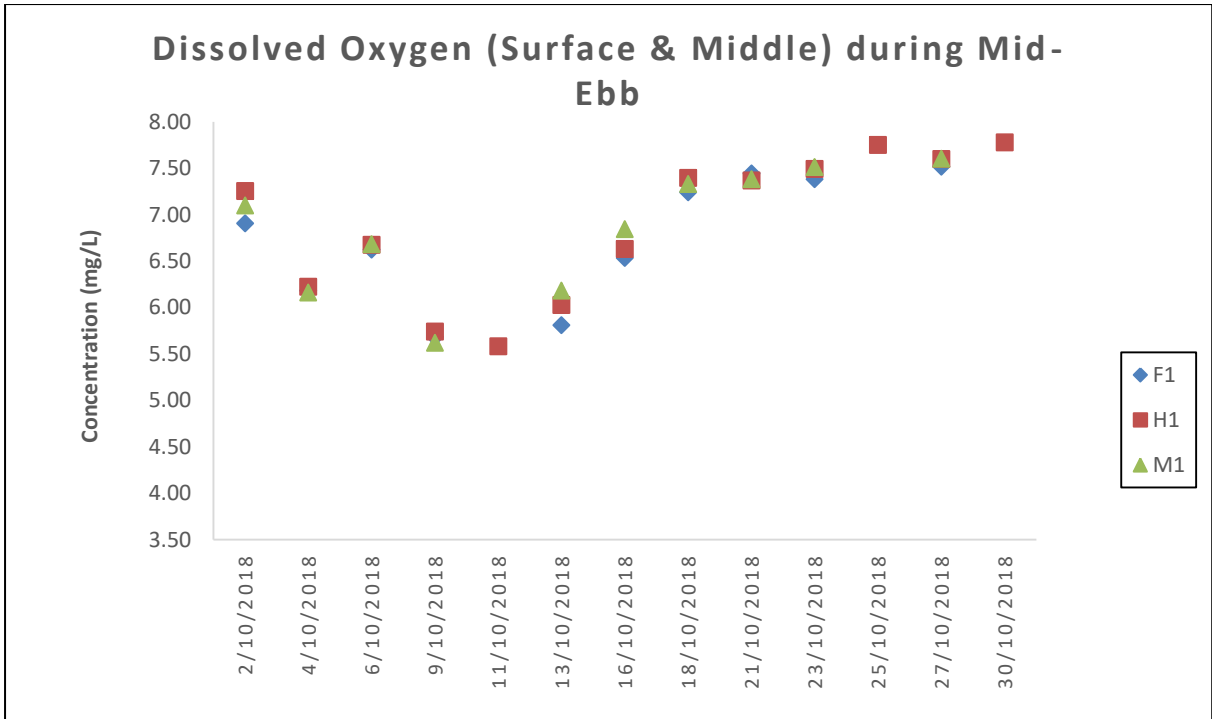
Note: The Action and Limit Level of Dissolved oxygen can be referred to **Table 2.7** of the monthly EM &A report.



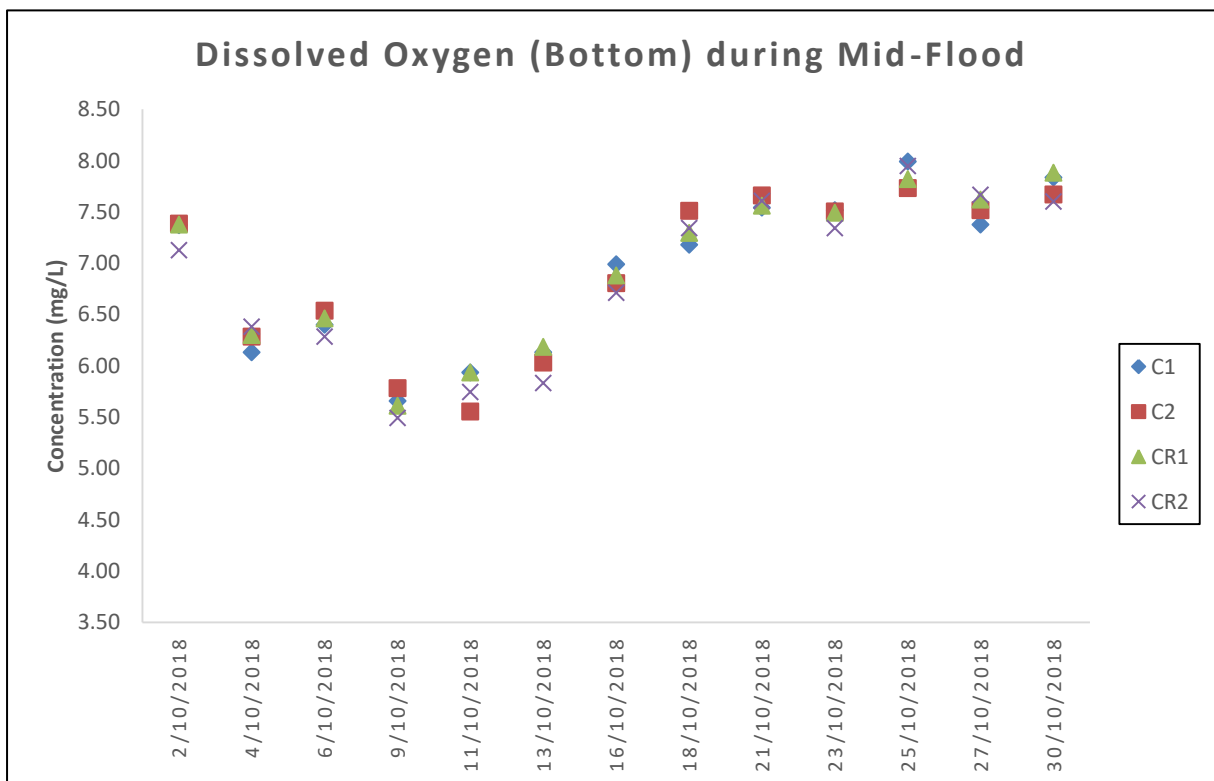
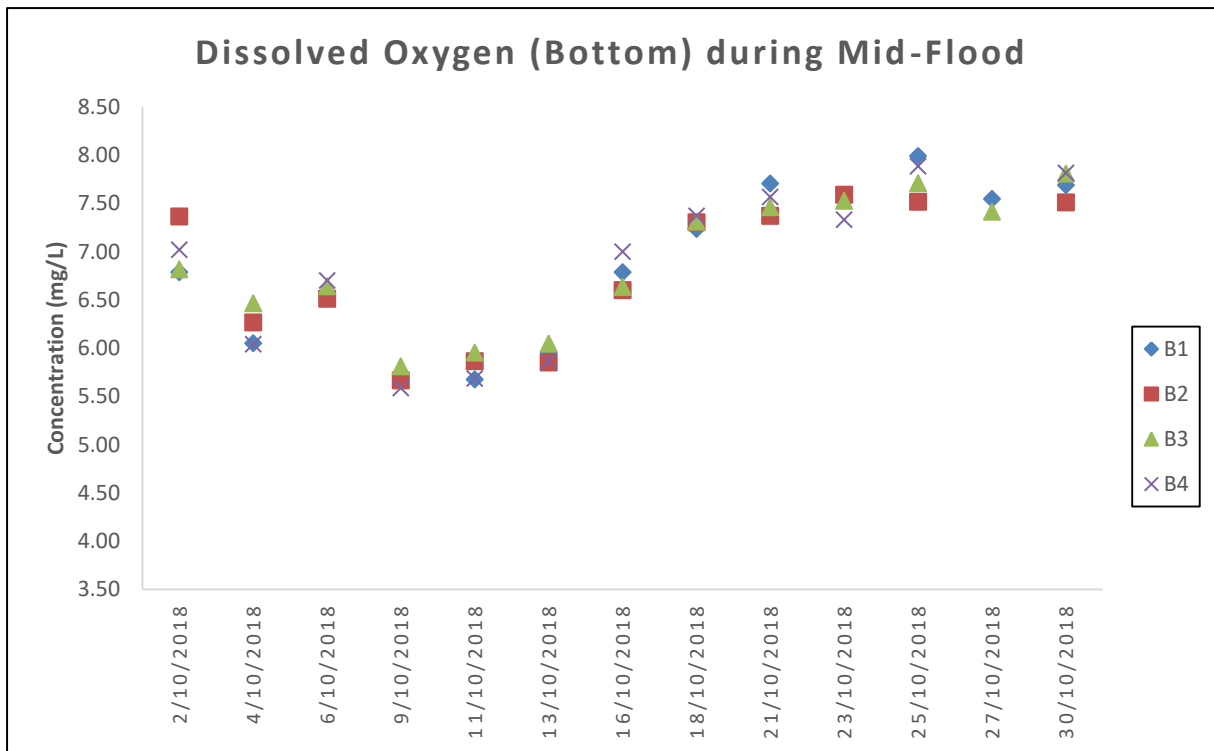
Note: The Action and Limit Level of Dissolved oxygen can be referred to **Table 2.7** of the monthly EM &A report.



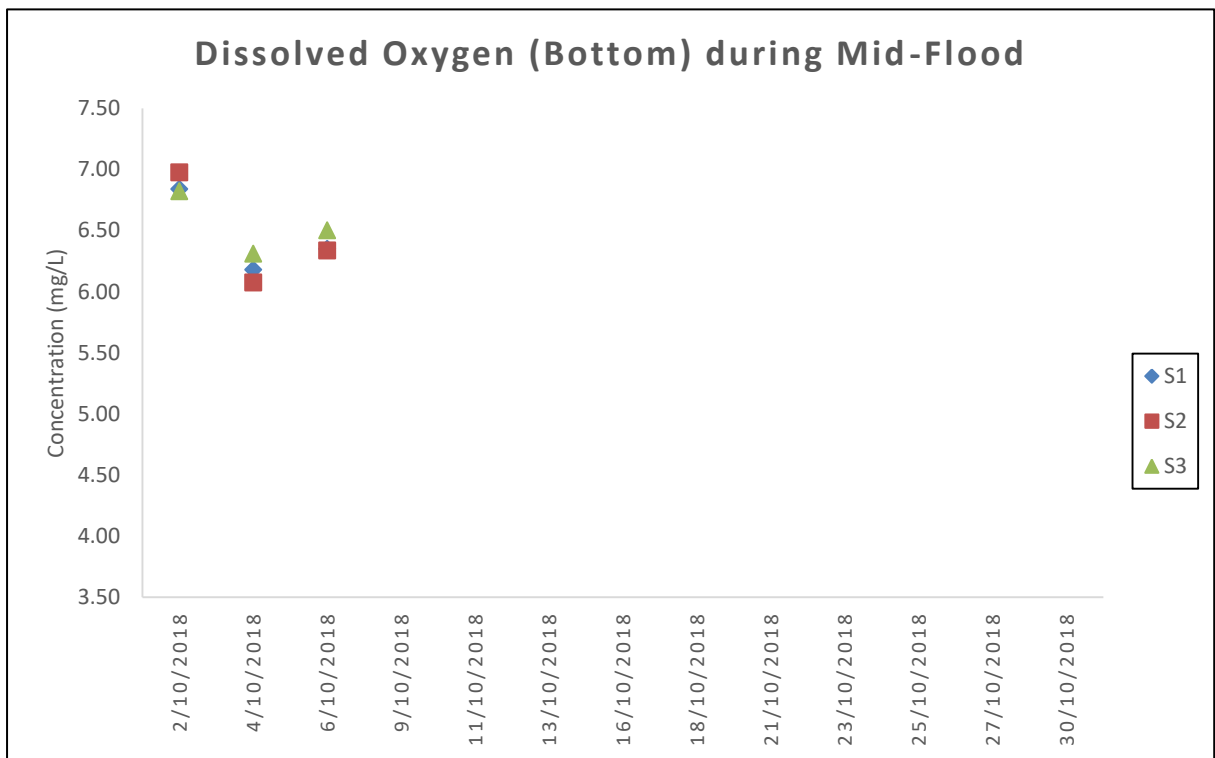
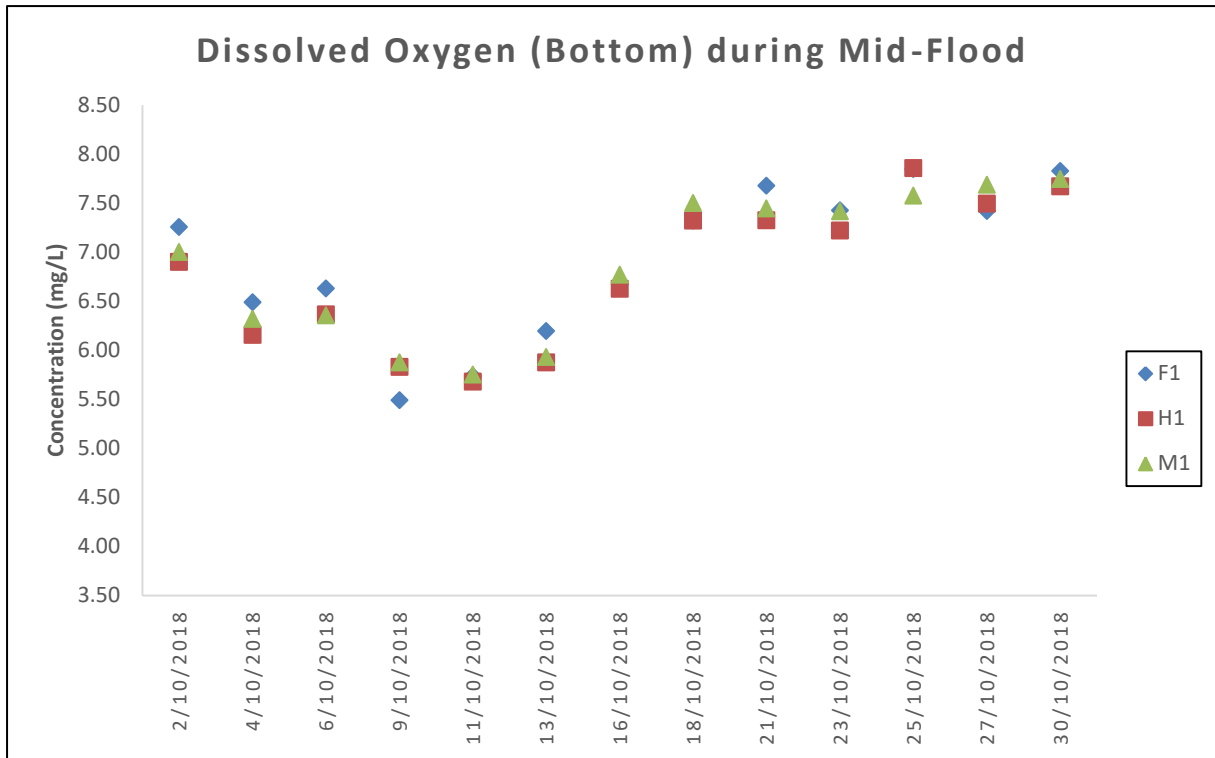
Note: The Action and Limit Level of Dissolved oxygen can be referred to **Table 2.7** of the monthly EM &A report.



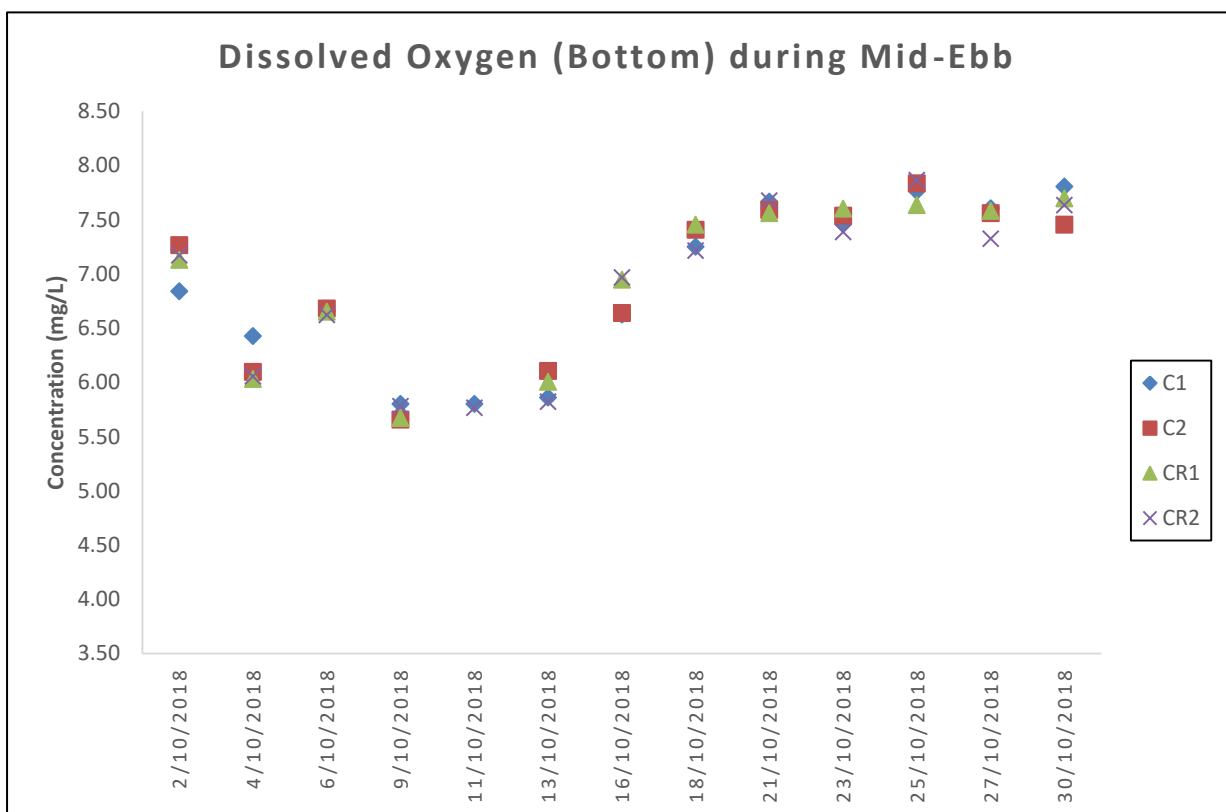
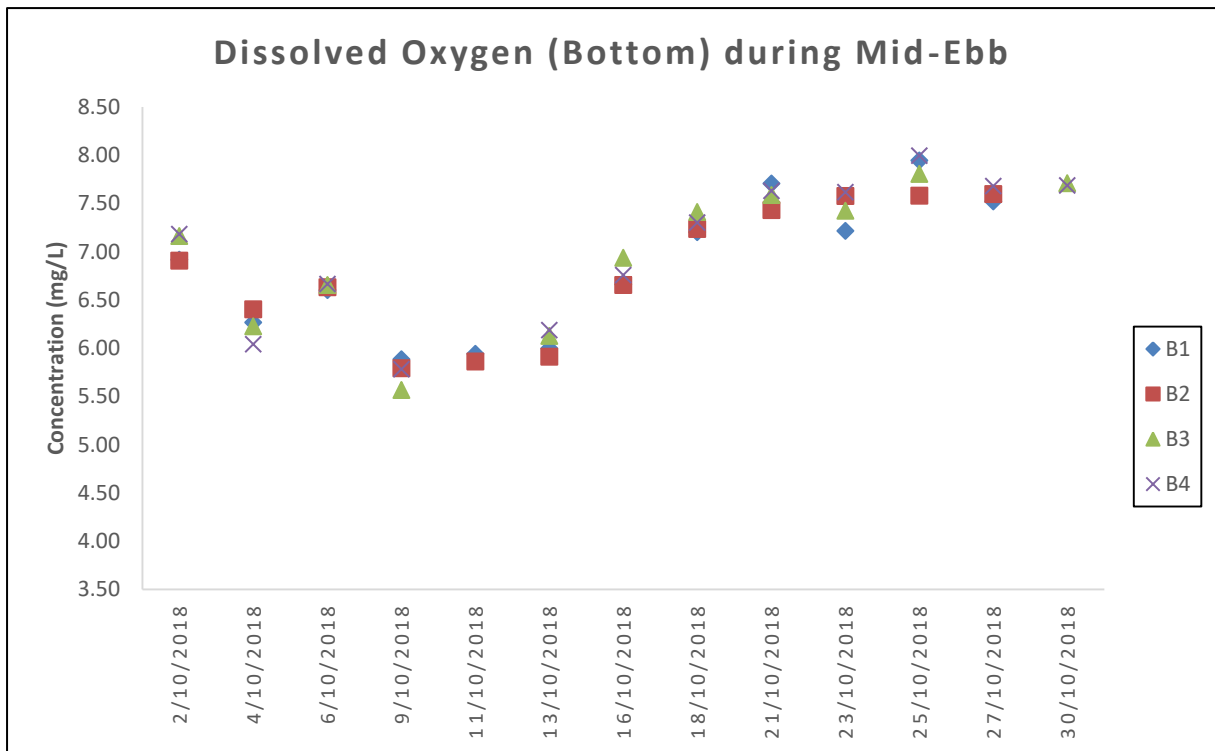
Note: The Action and Limit Level of Dissolved oxygen can be referred to **Table 2.7** of the monthly EM &A report.



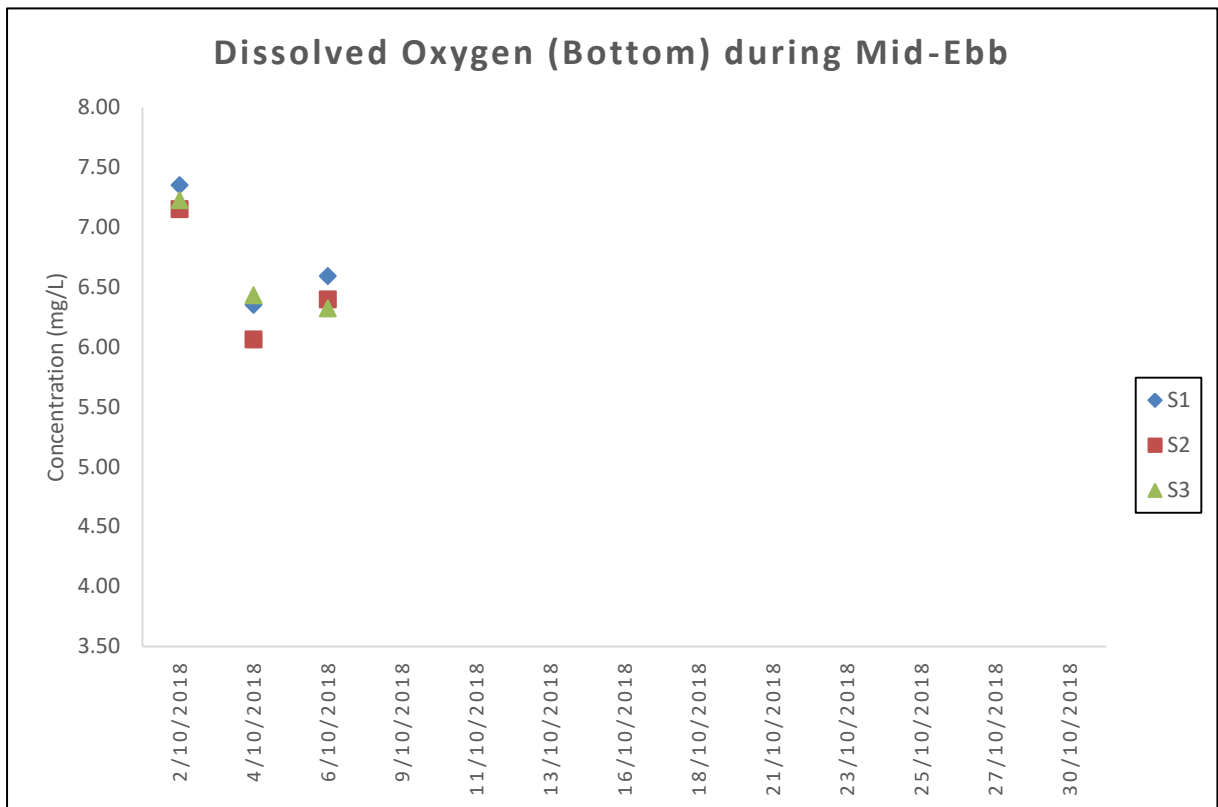
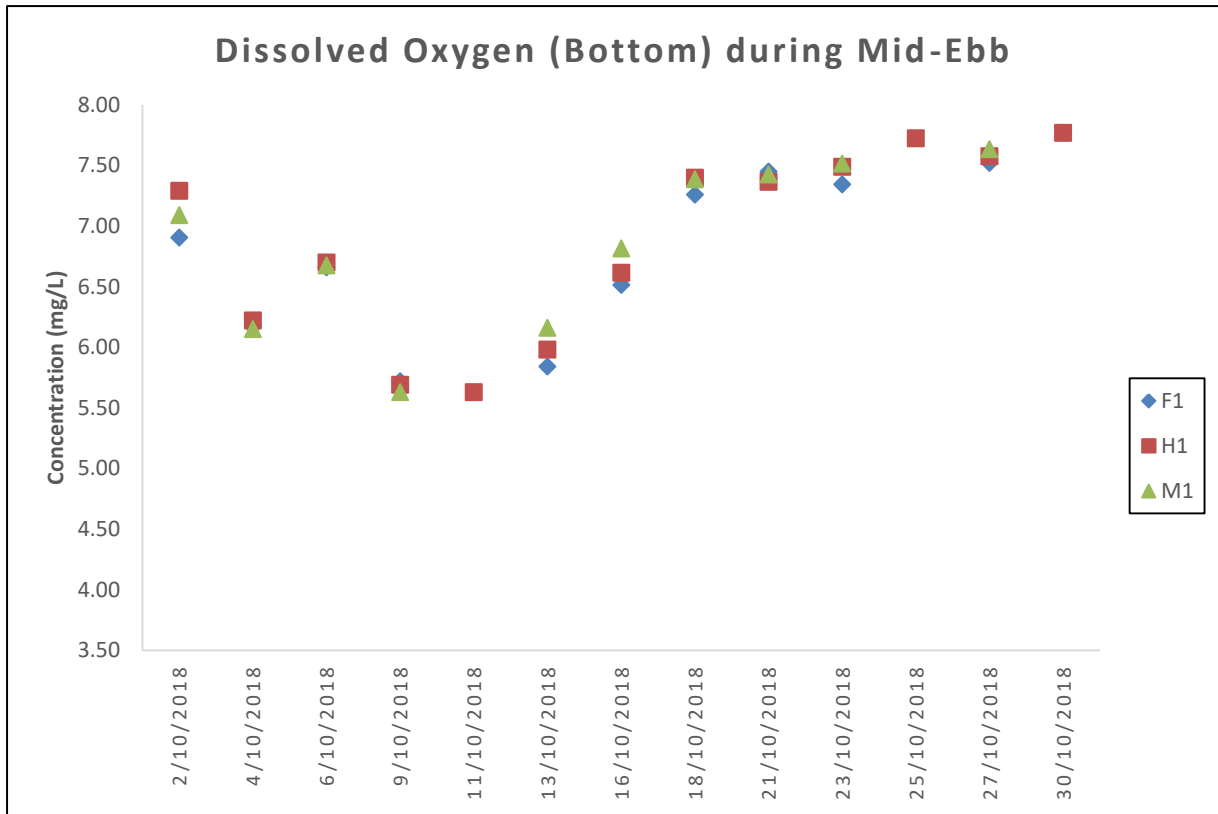
Note: The Action and Limit Level of Dissolved oxygen can be referred to **Table 2.7** of the monthly EM &A report.



Note: The Action and Limit Level of Dissolved oxygen can be referred to **Table 2.7** of the monthly EM &A report



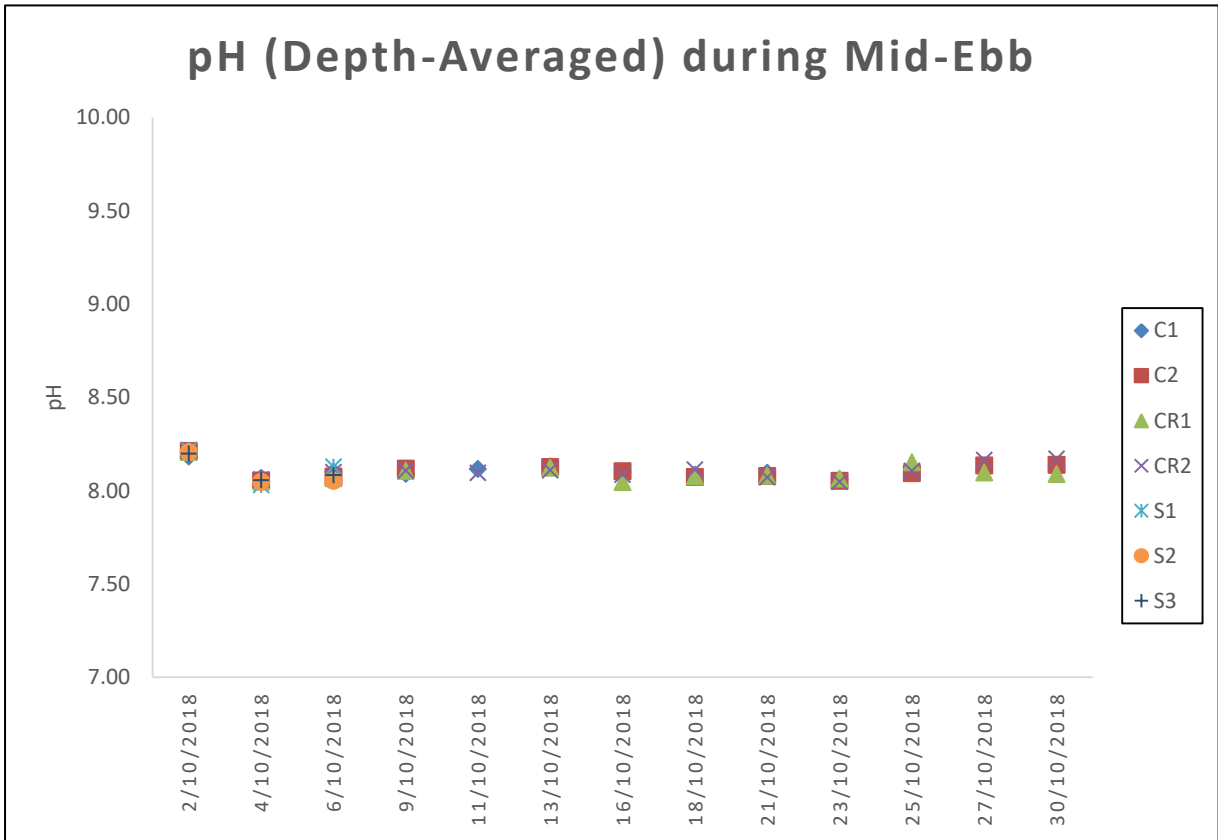
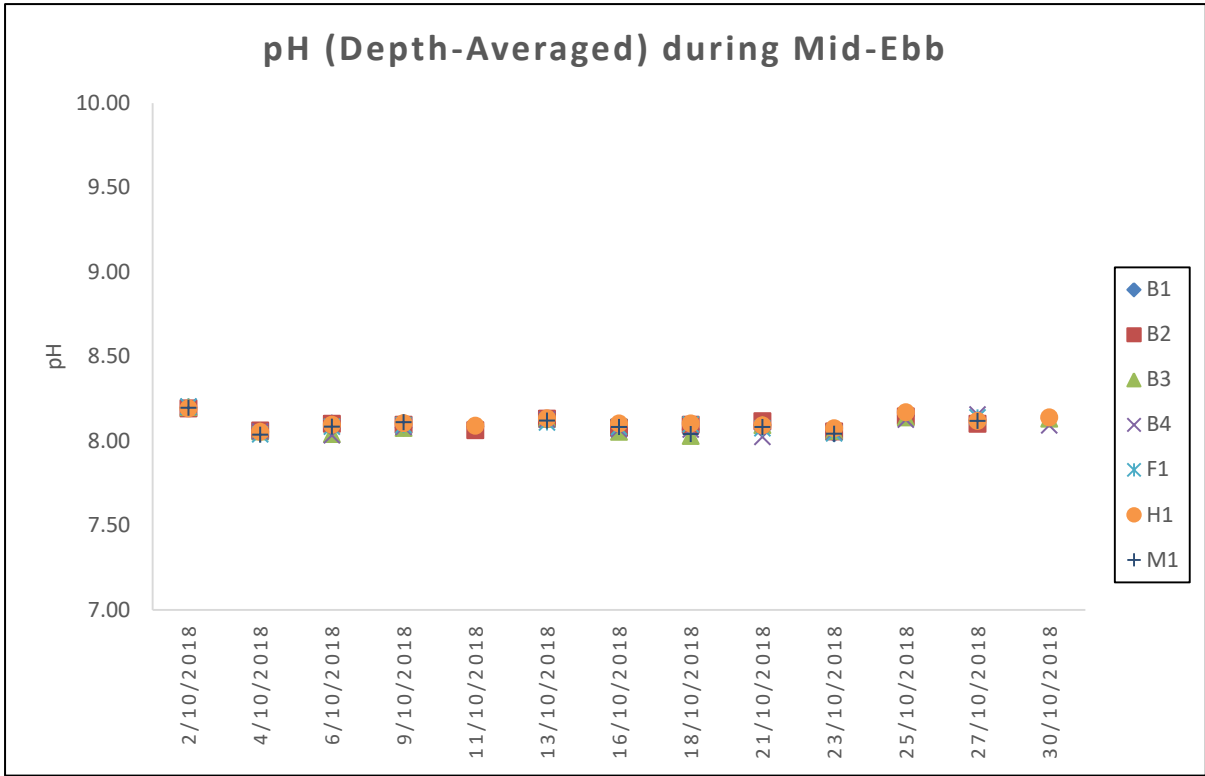
Note: The Action and Limit Level of Dissolved oxygen can be referred to **Table 2.7** of the monthly EM &A report.

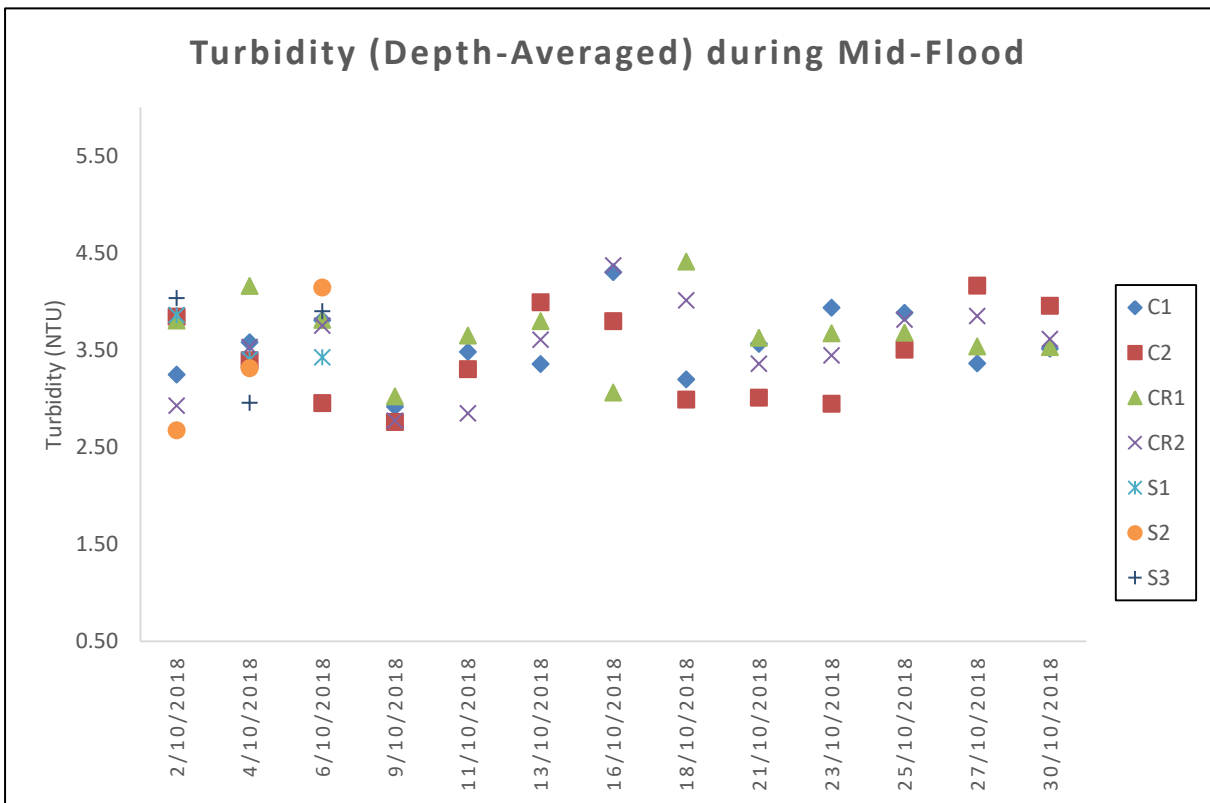
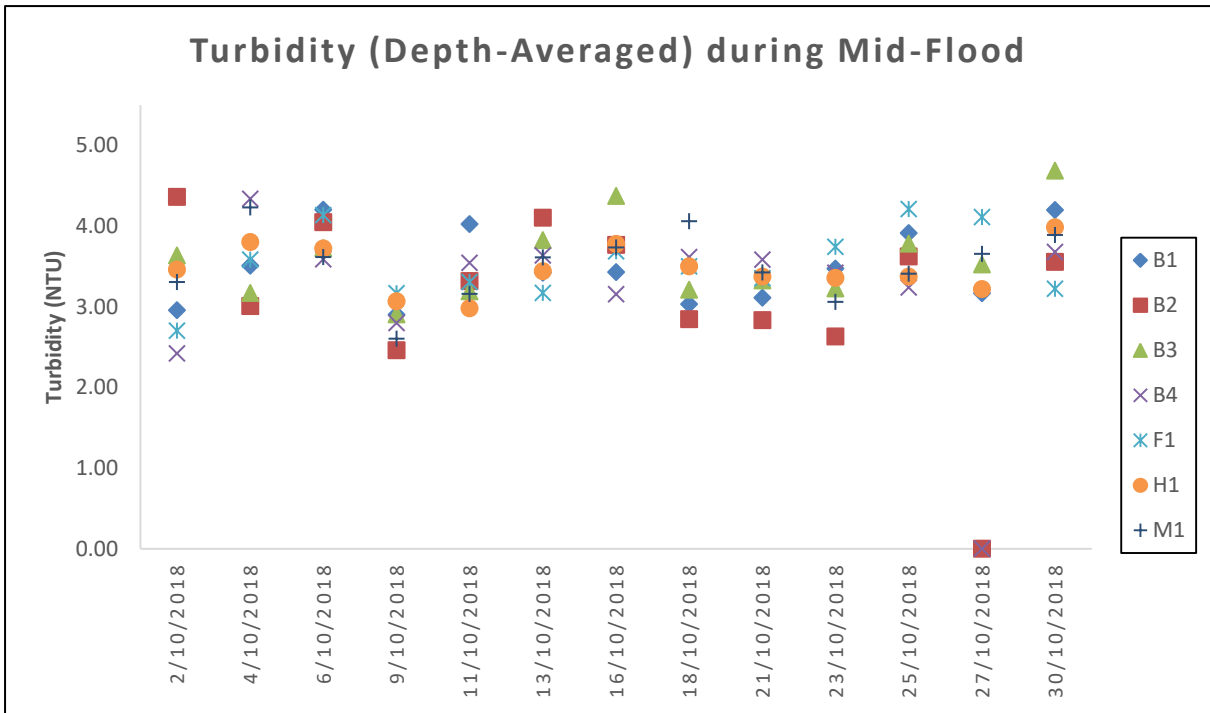


Note: The Action and Limit Level of Dissolved oxygen can be referred to **Table 2.7** of the monthly EM &A report.

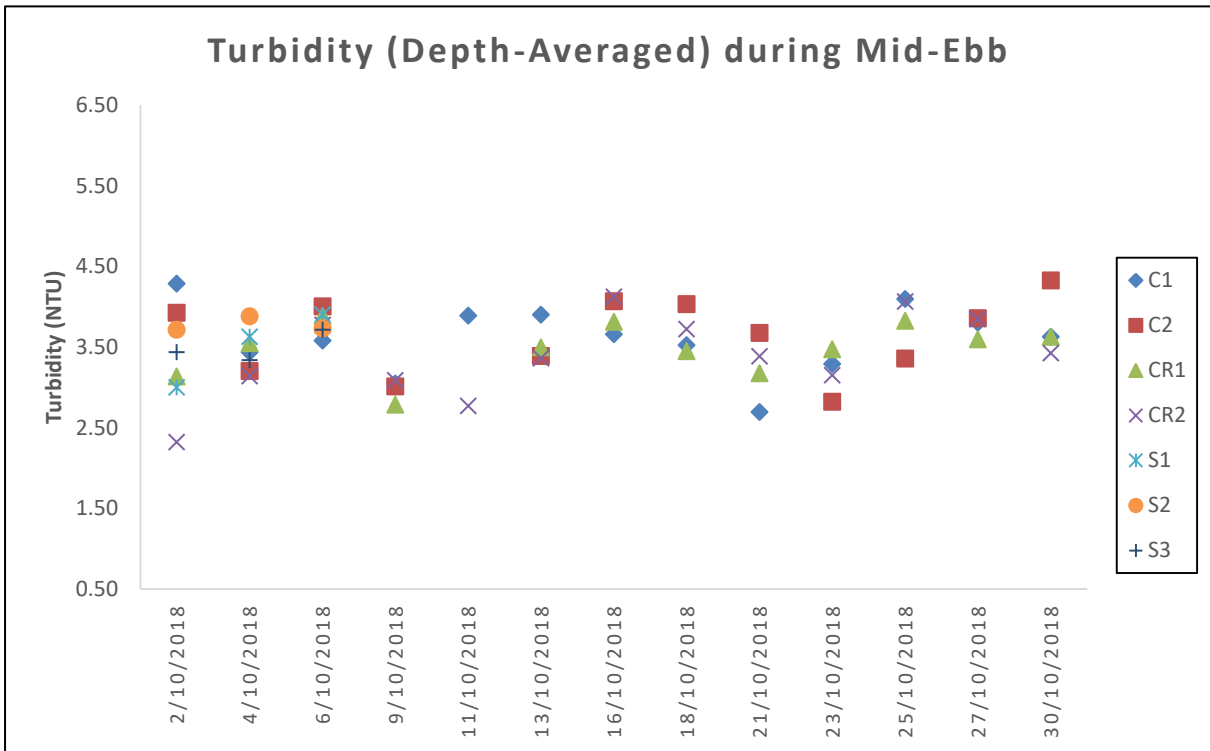
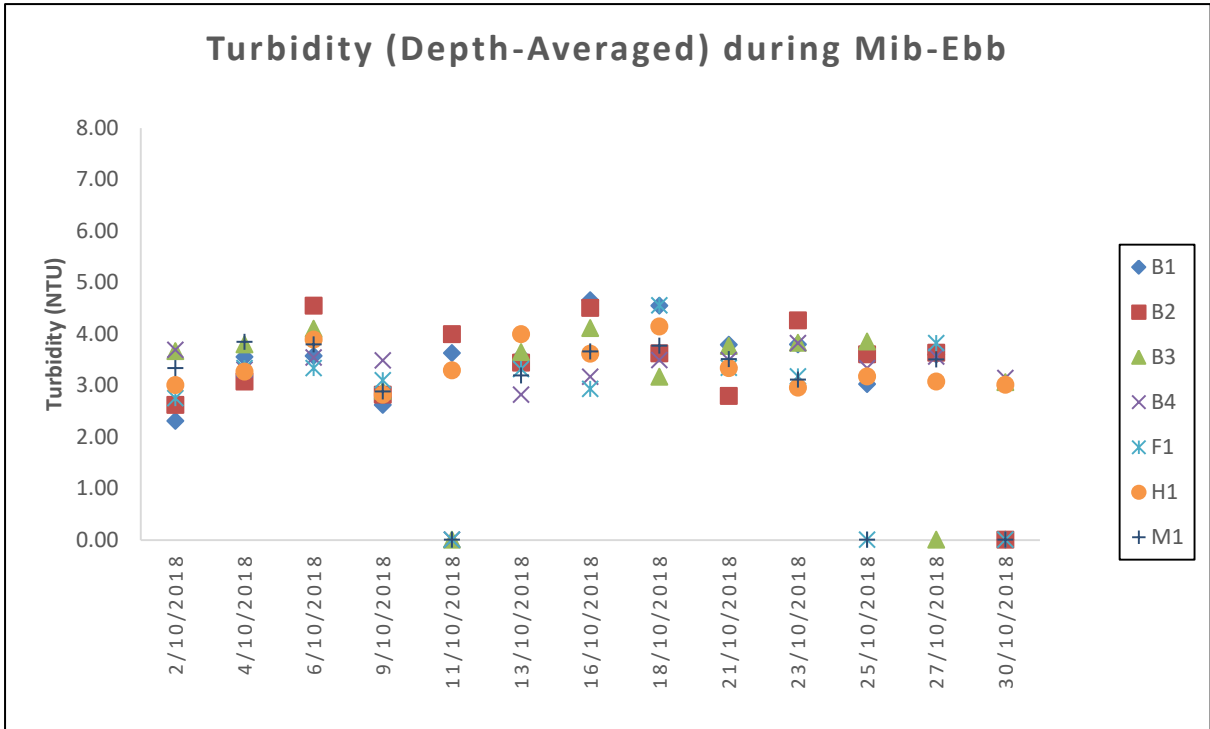




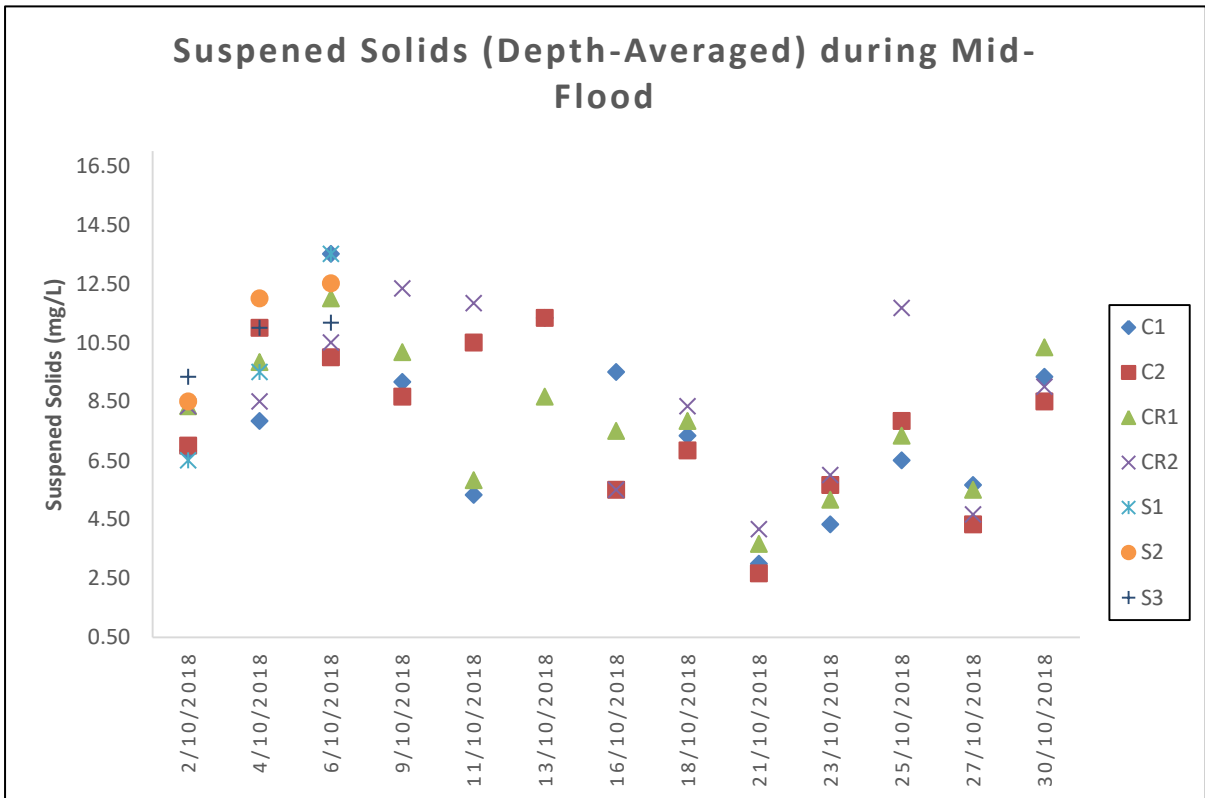
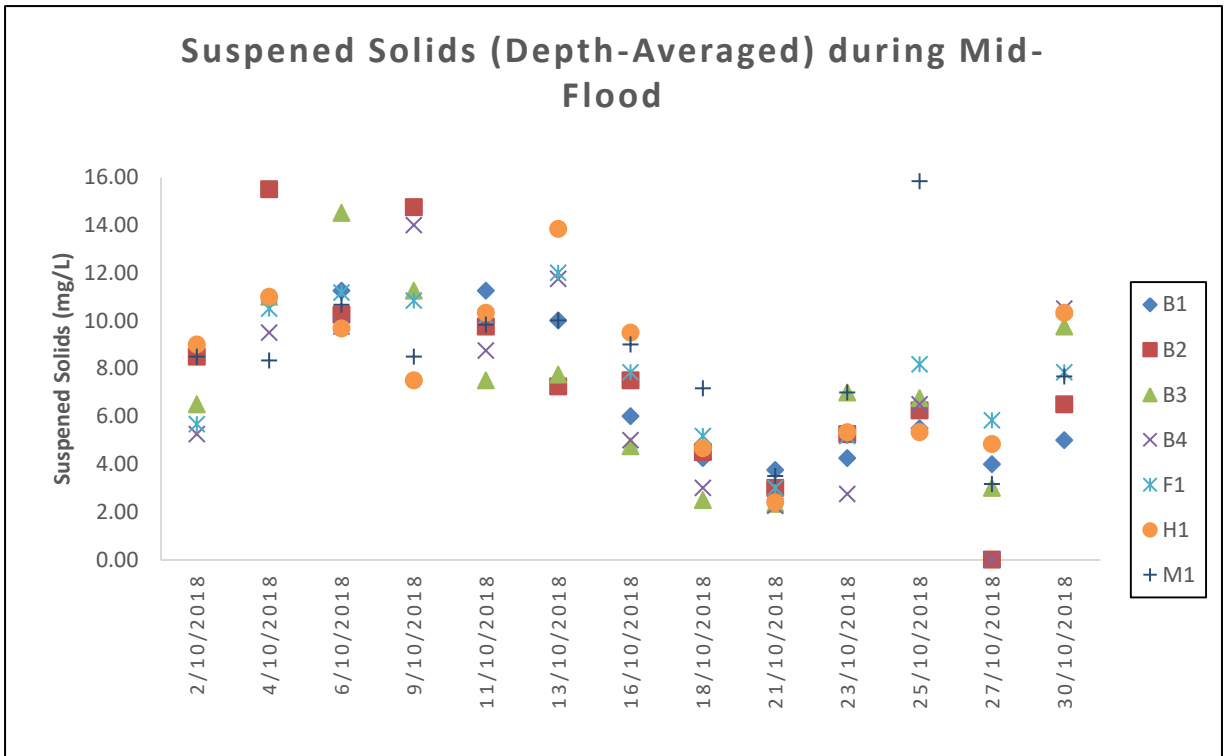




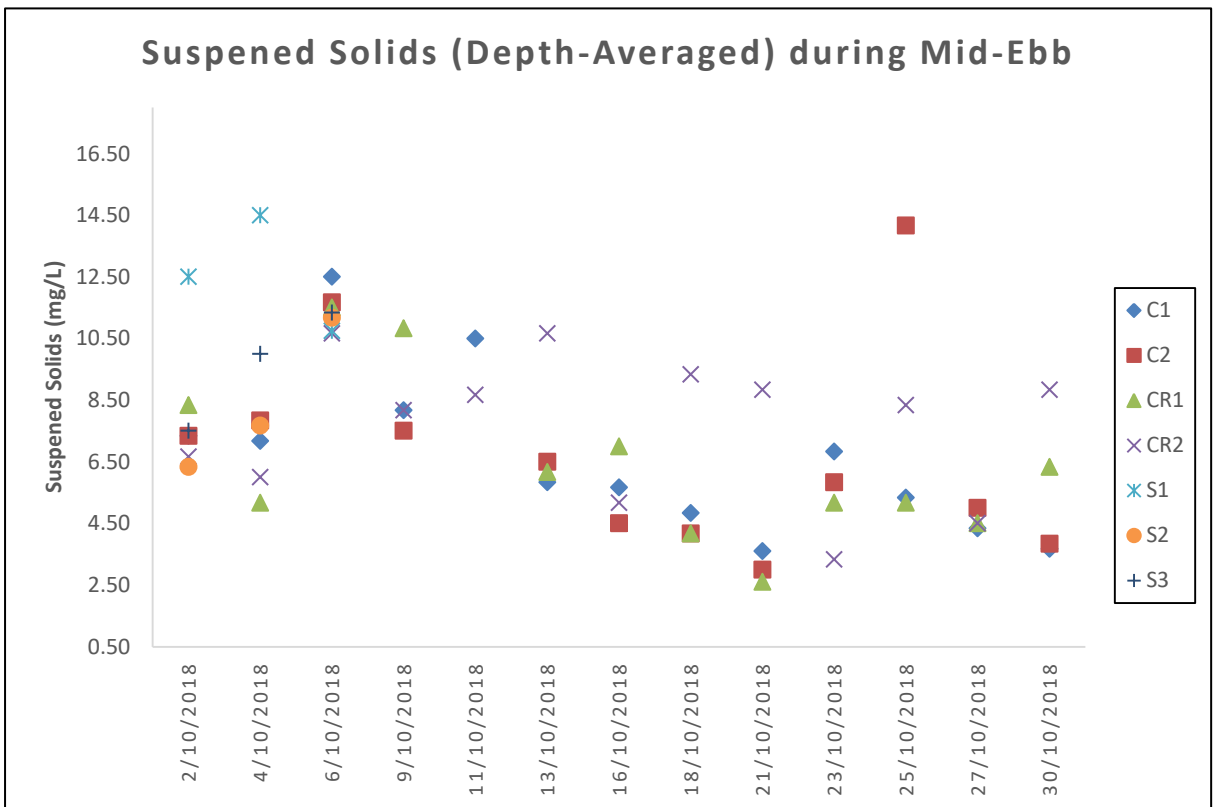
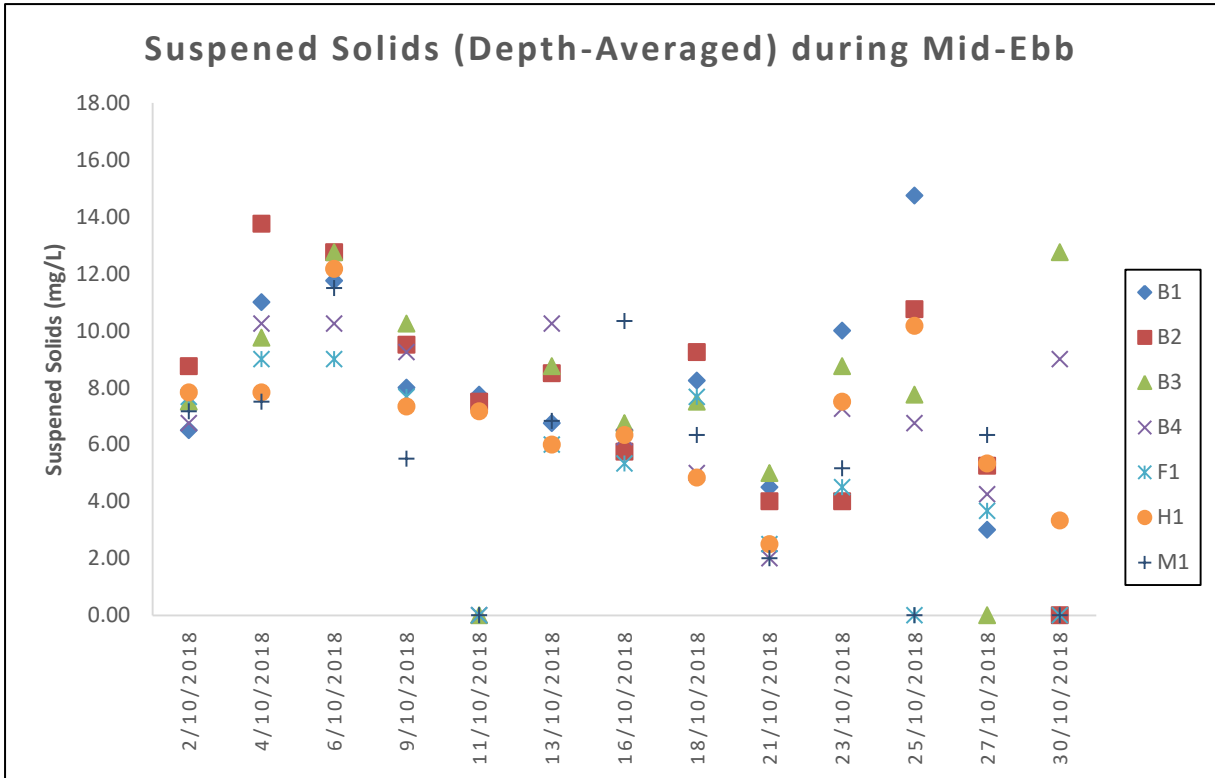
Note: The Action and Limit Level of Turbidity can be referred to **Table 2.7** of the monthly EM &A report



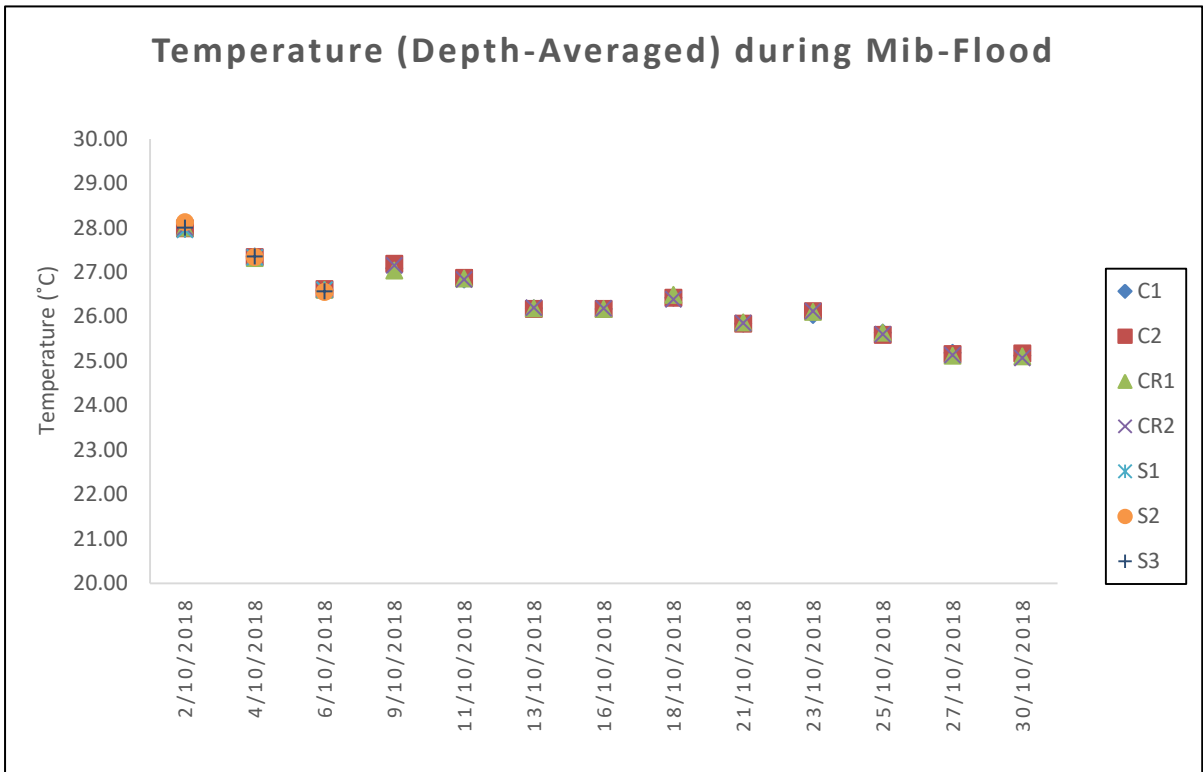
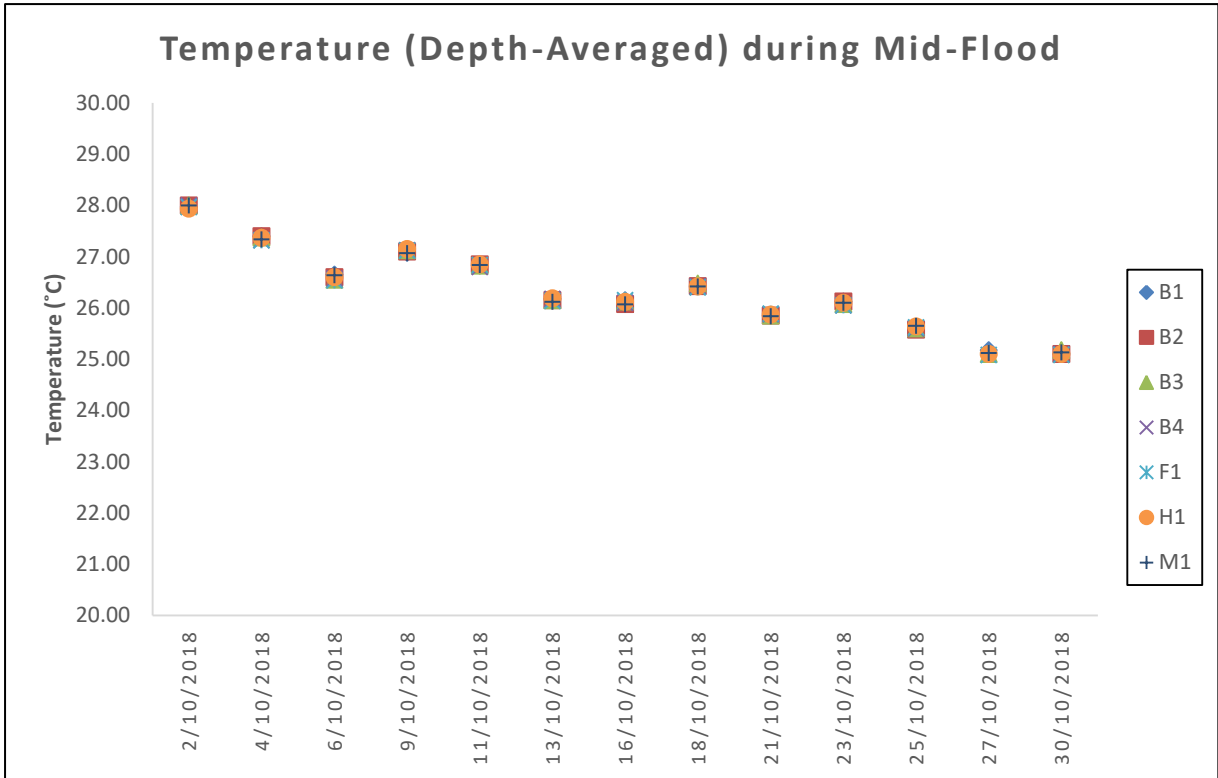
Note: The Action and Limit Level of Turbidity can be referred to **Table 2.7** of the monthly EM &A report



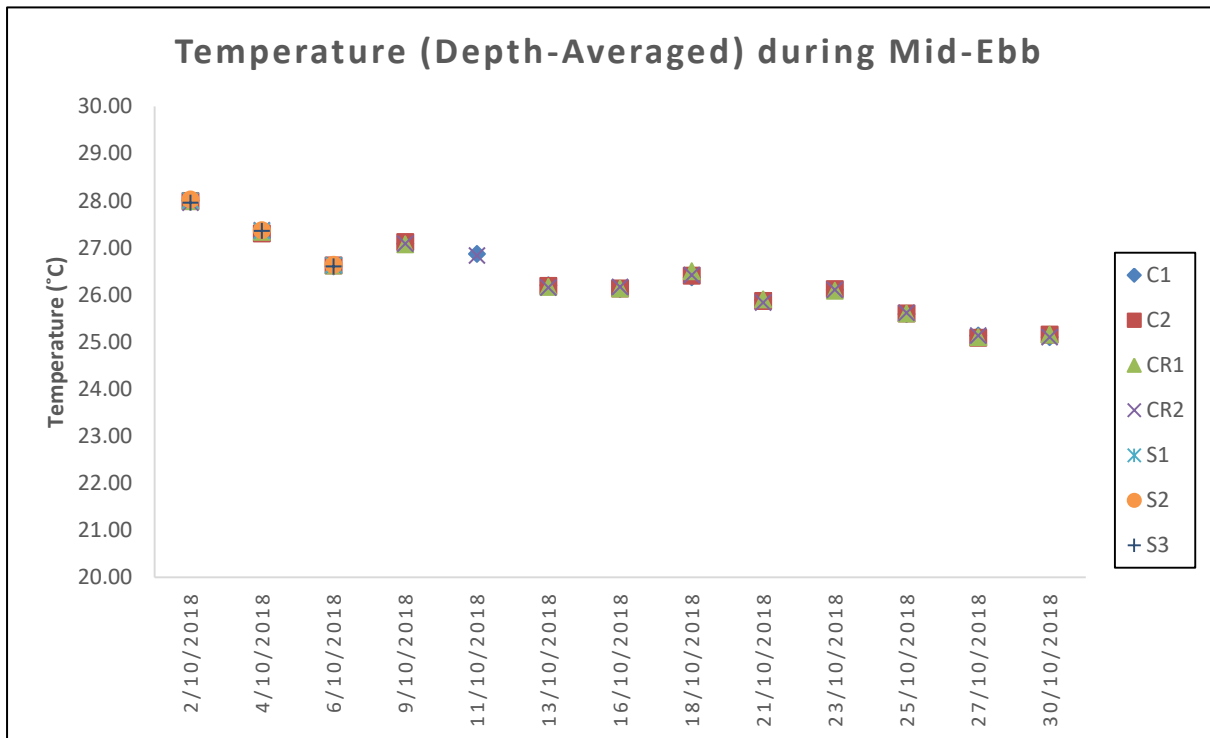
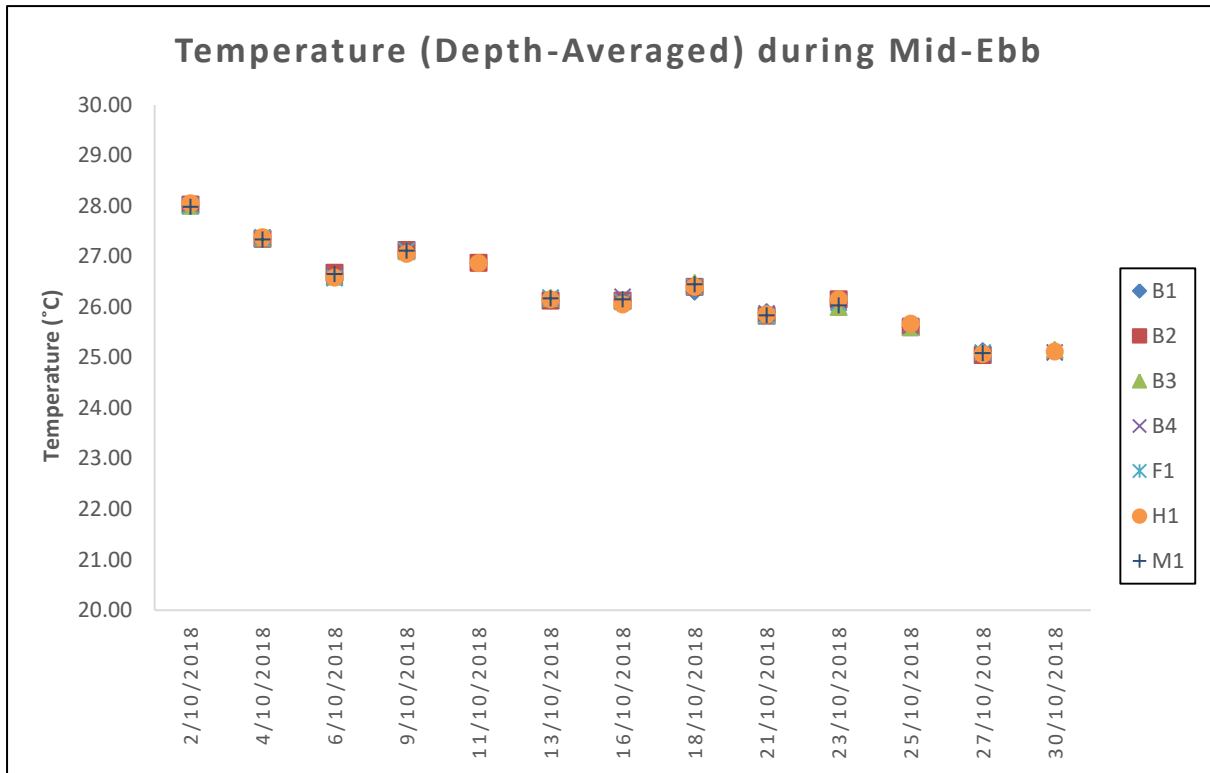
Note: The Action and Limit Level of Suspended Solids can be referred to **Table 2.7** of the monthly EM &A report



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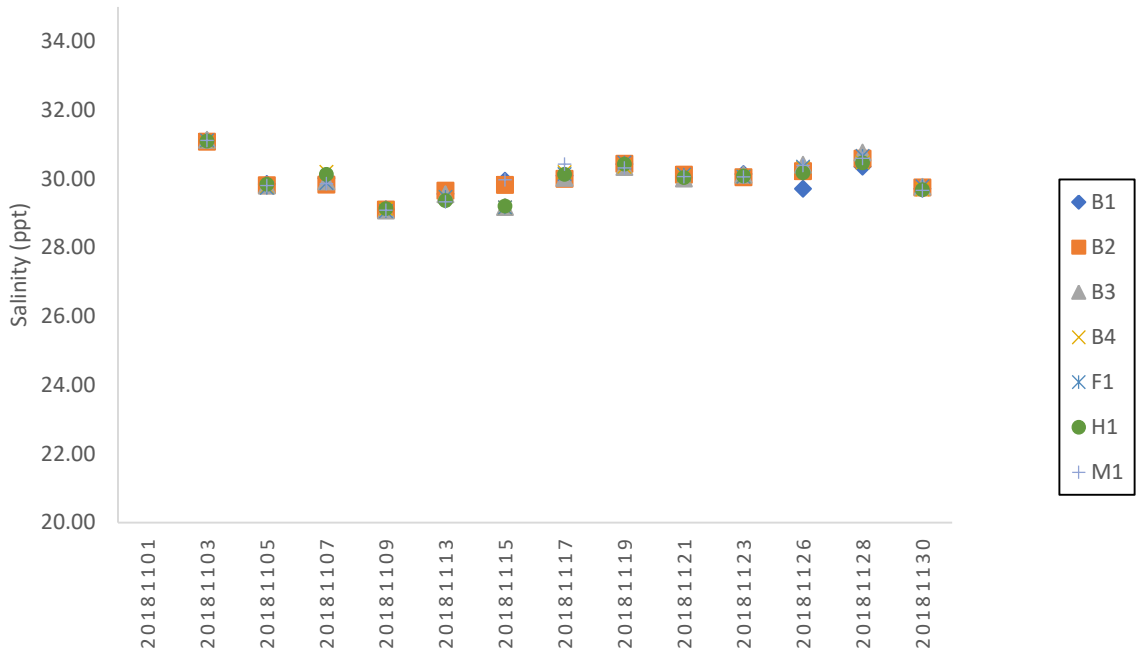
Note: The Action and Limit Level of Temperature can be referred to **Table 2.7** of the monthly EM &A report.



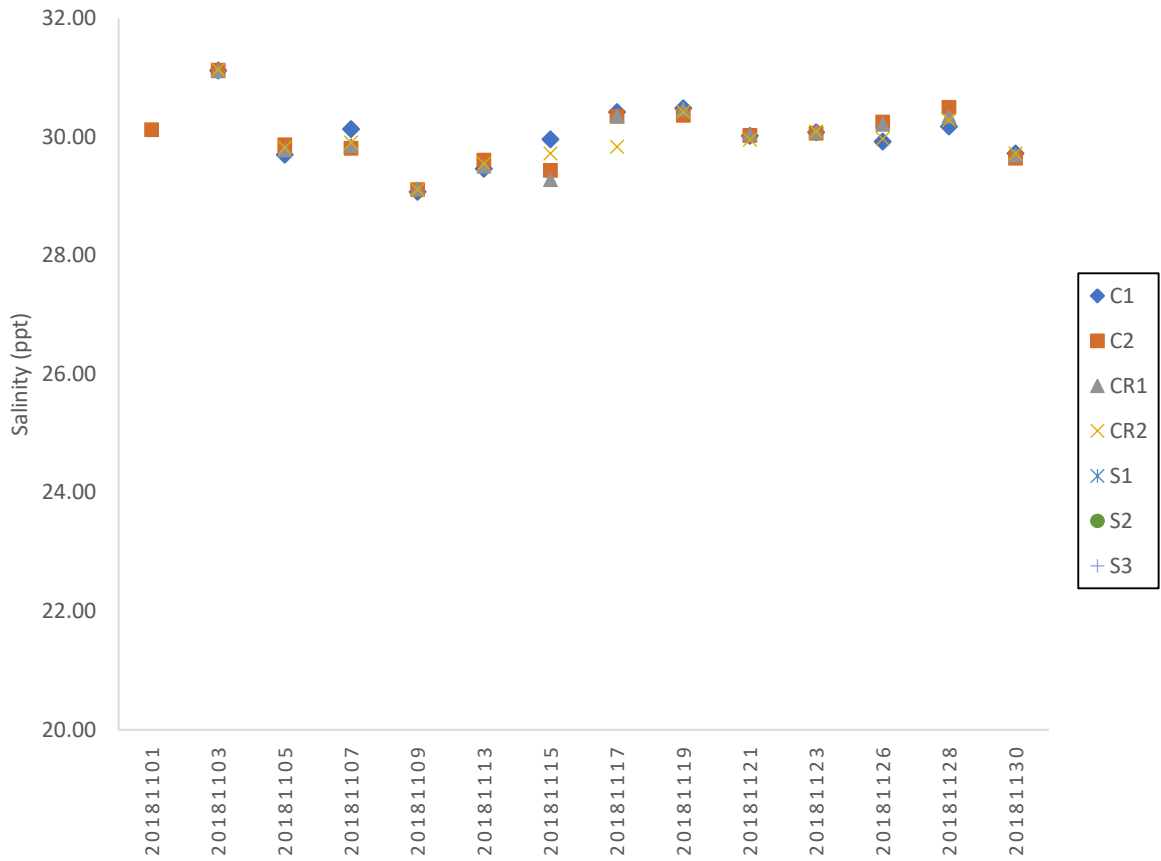
Note: The Action and Limit Level of Temperature can be referred to **Table 2.7** of the monthly EM &A report



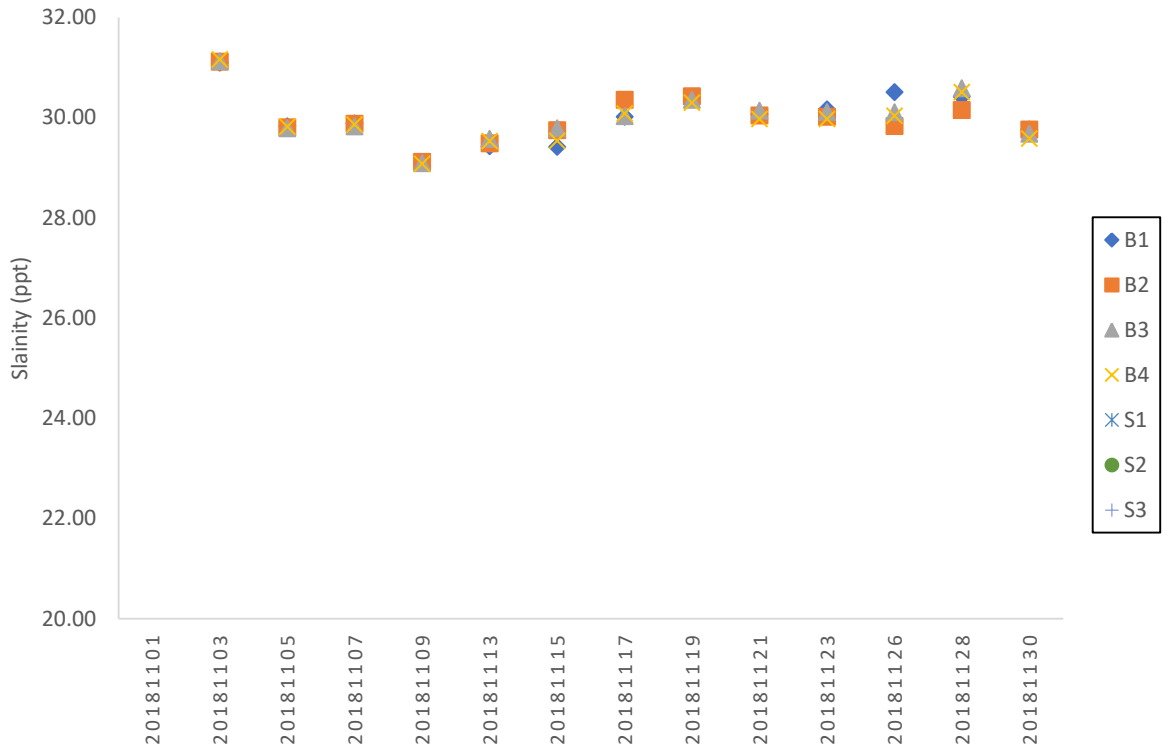
### Salinity (Depth-averaged) during Mid-Flood



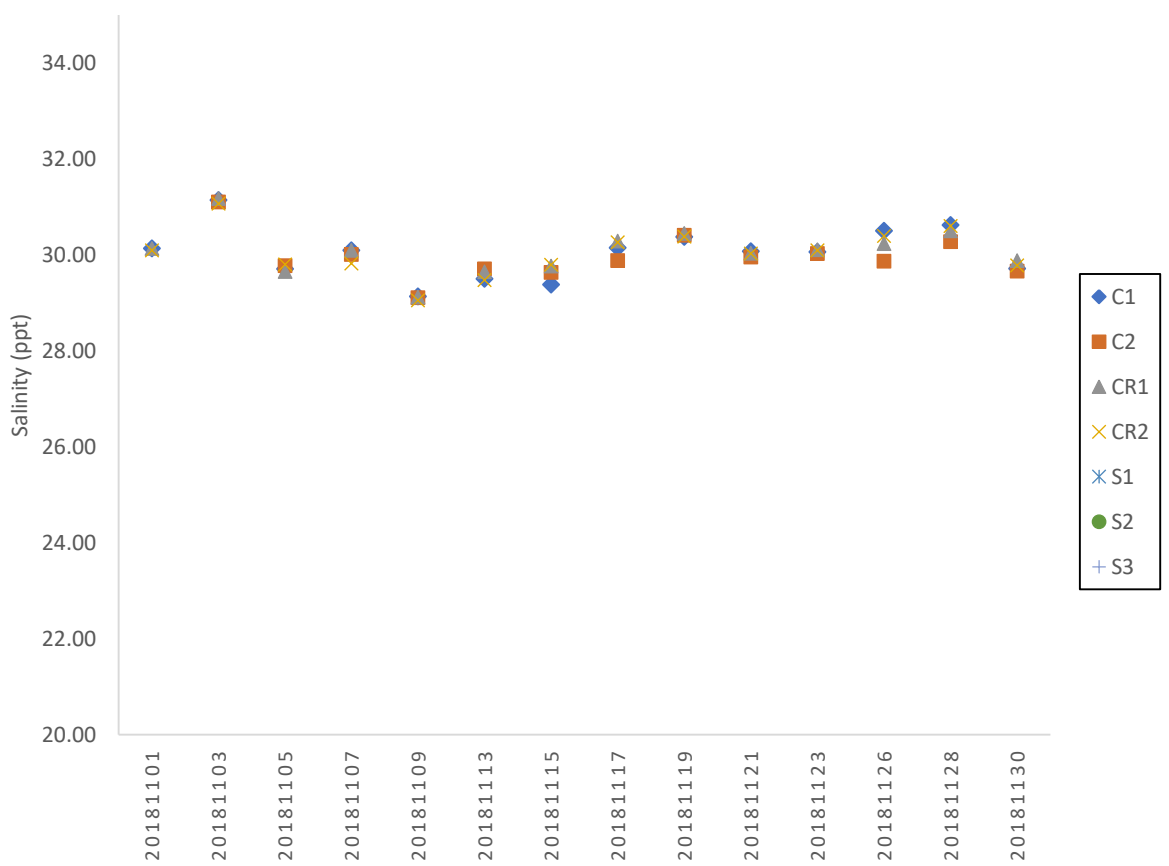
### Salinity (Depth-averaged) during Mid-Flood

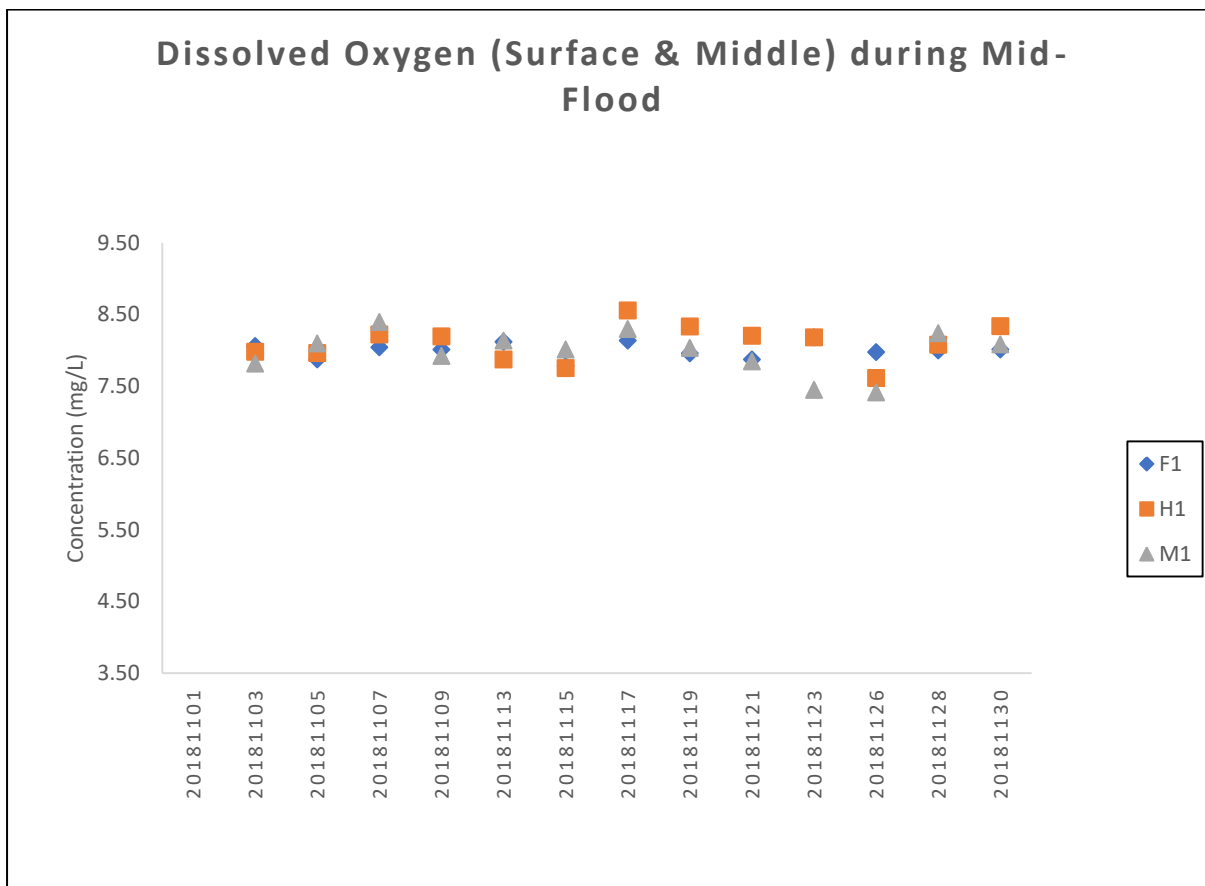
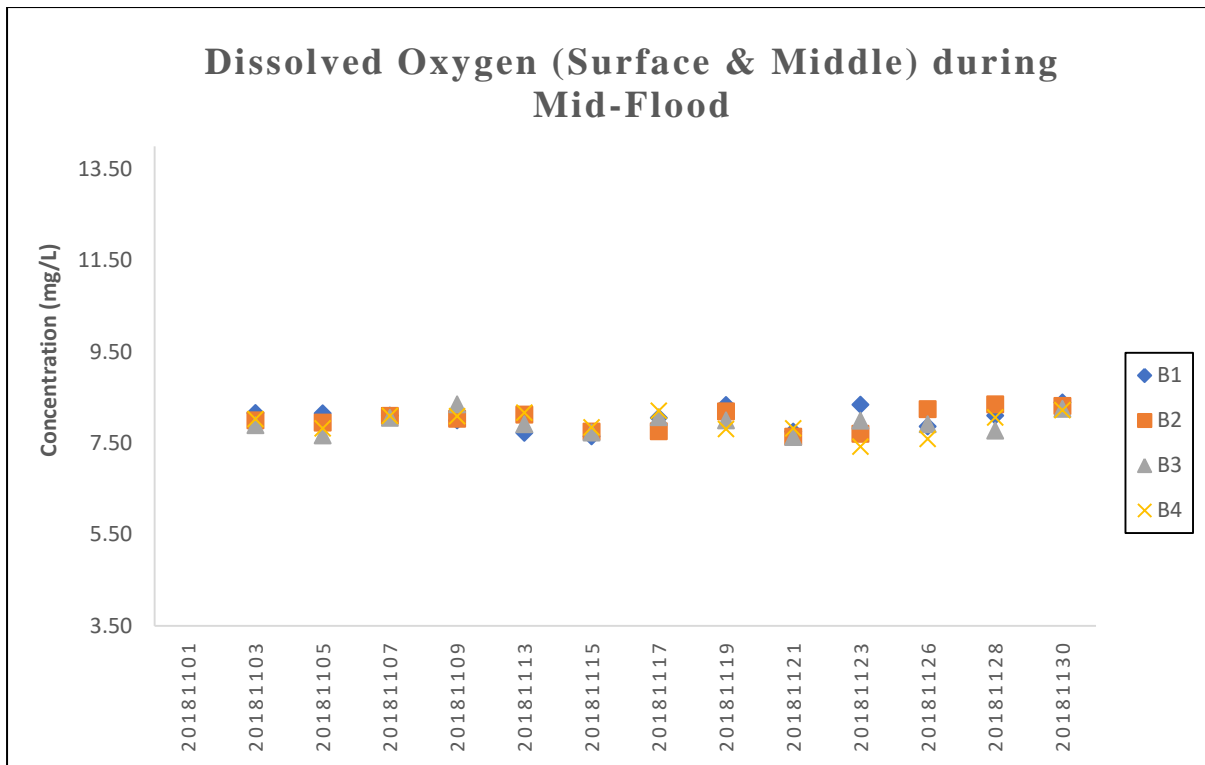


### Salinity (Depth-averaged) during Mid-Ebb

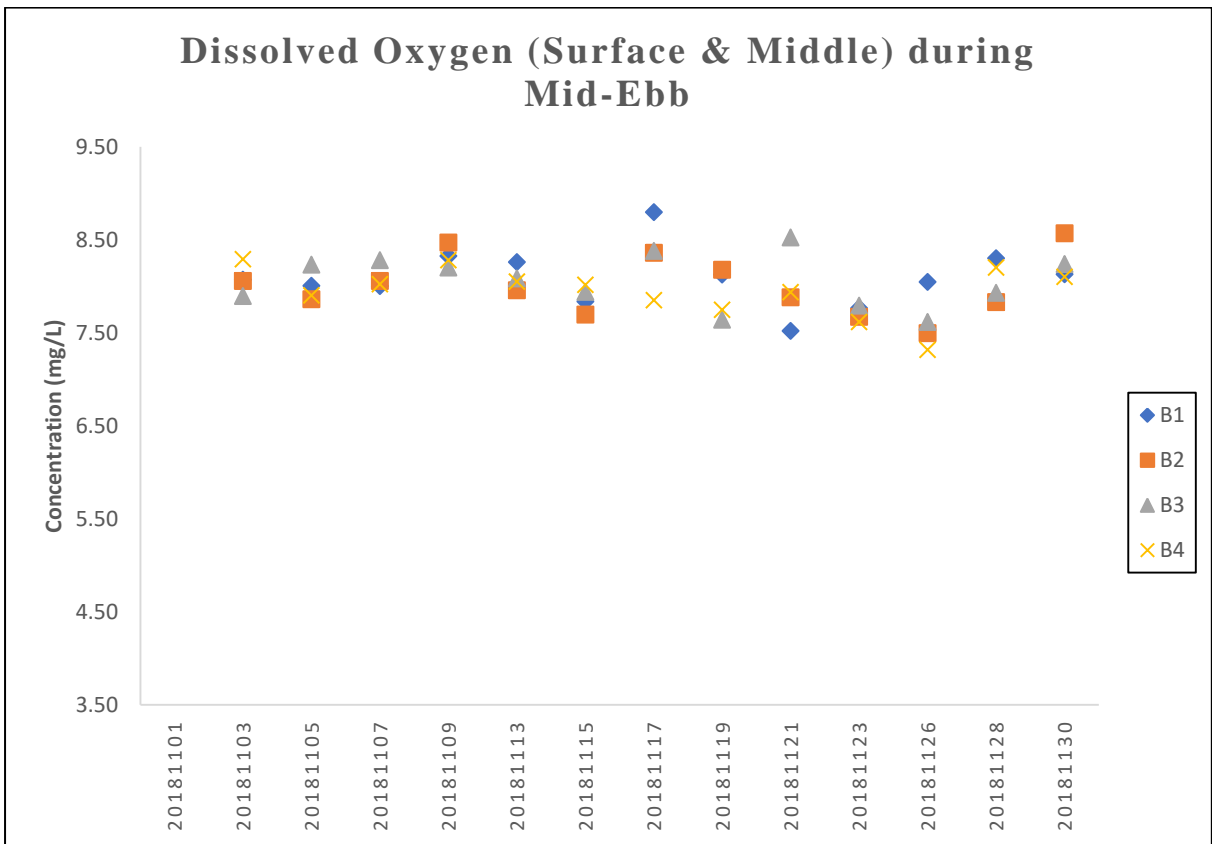
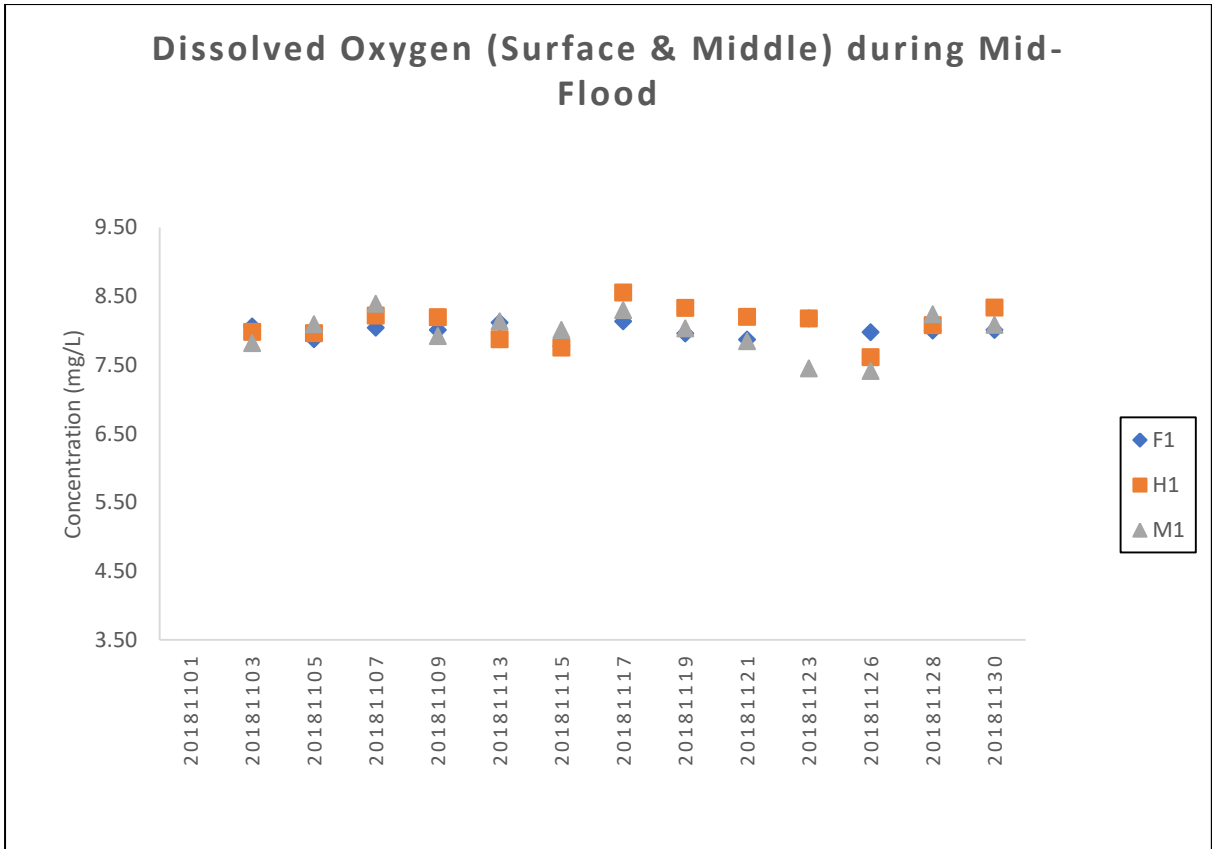


### Salinity (Depth-averaged) during Mid-Ebb

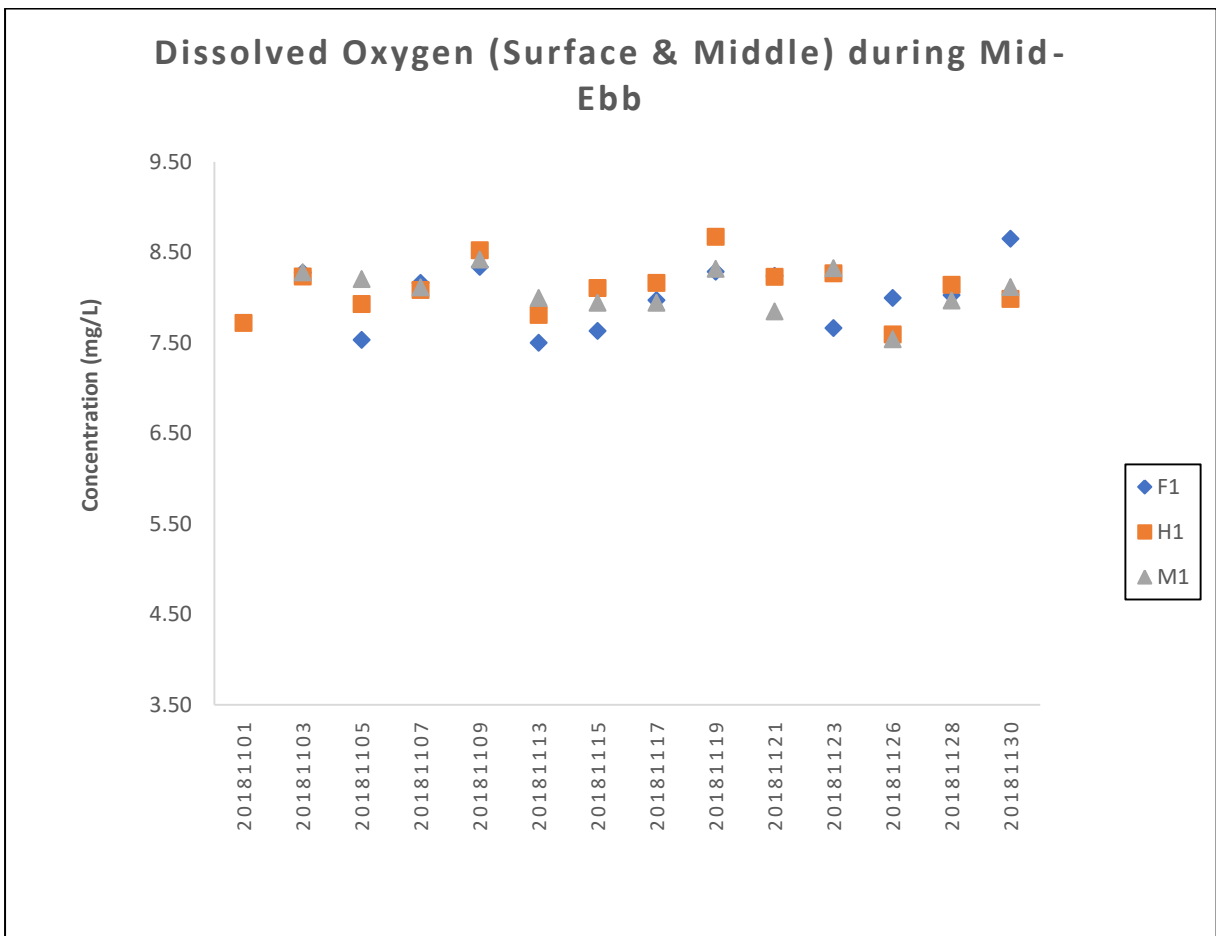
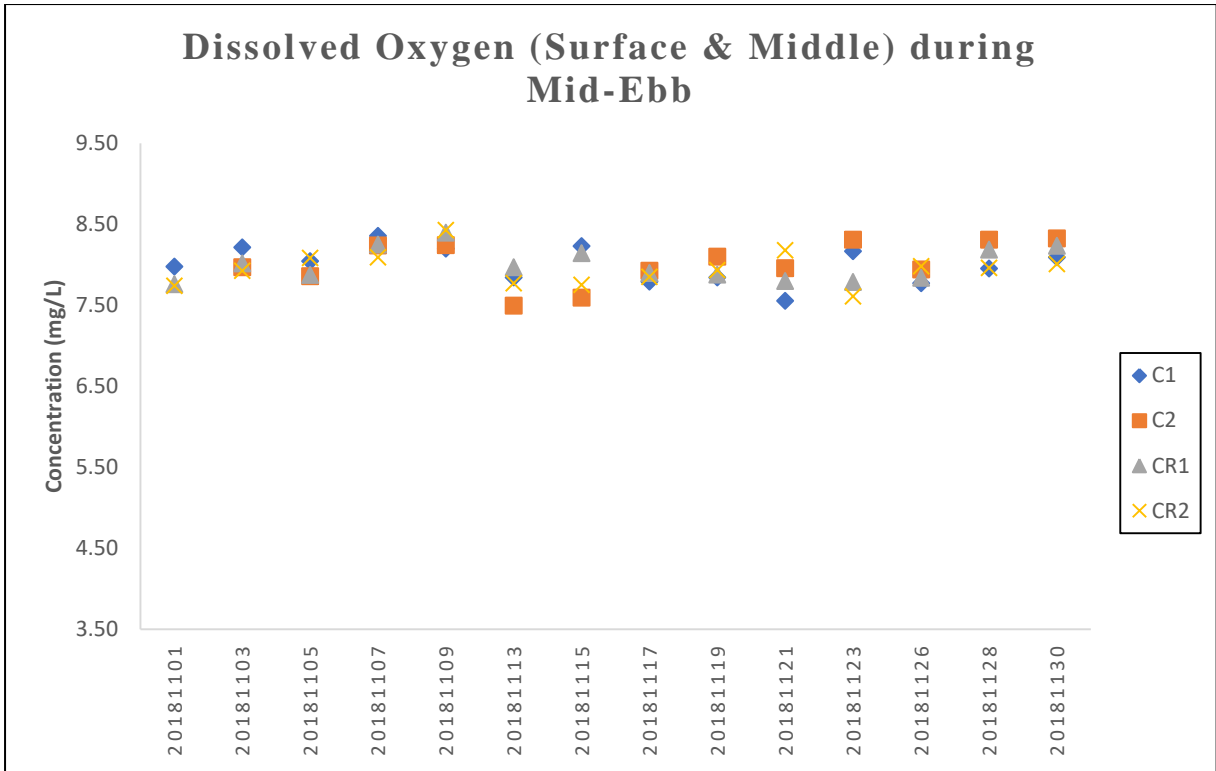




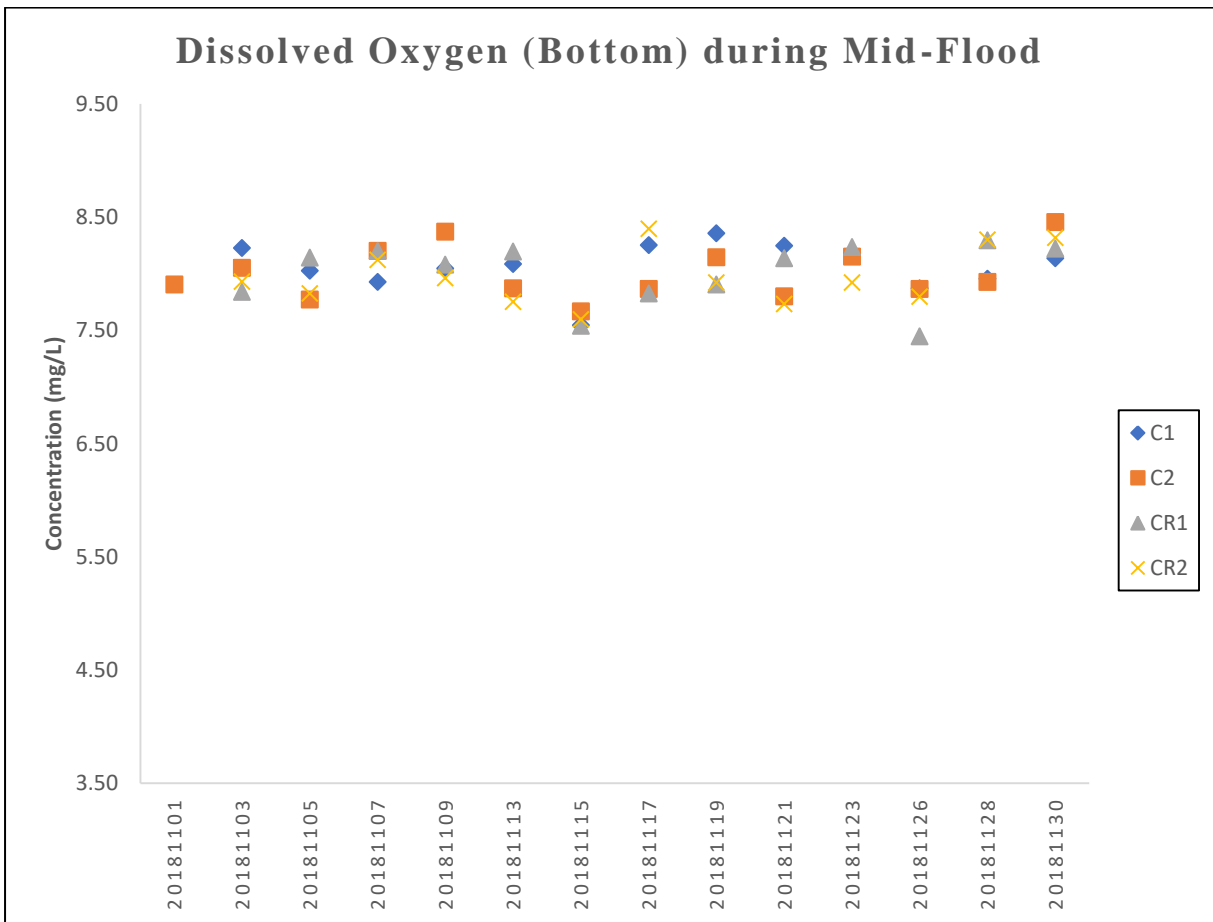
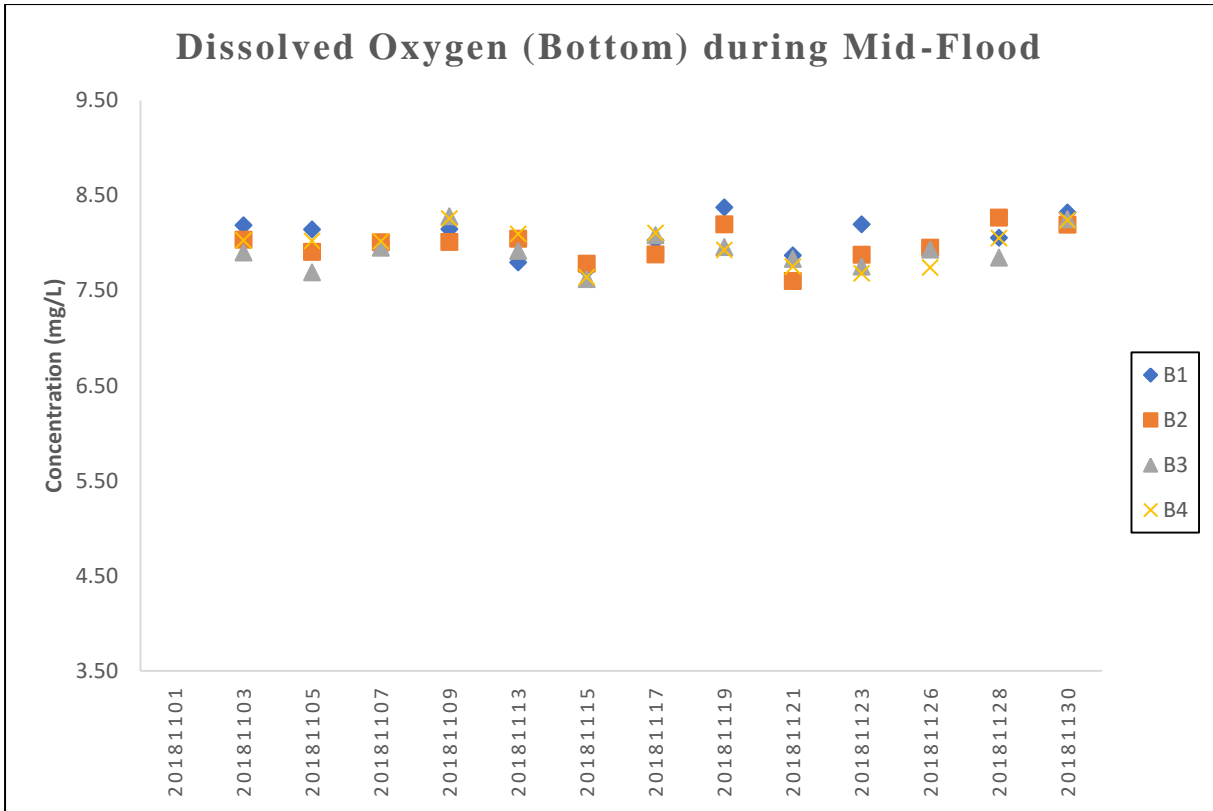
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



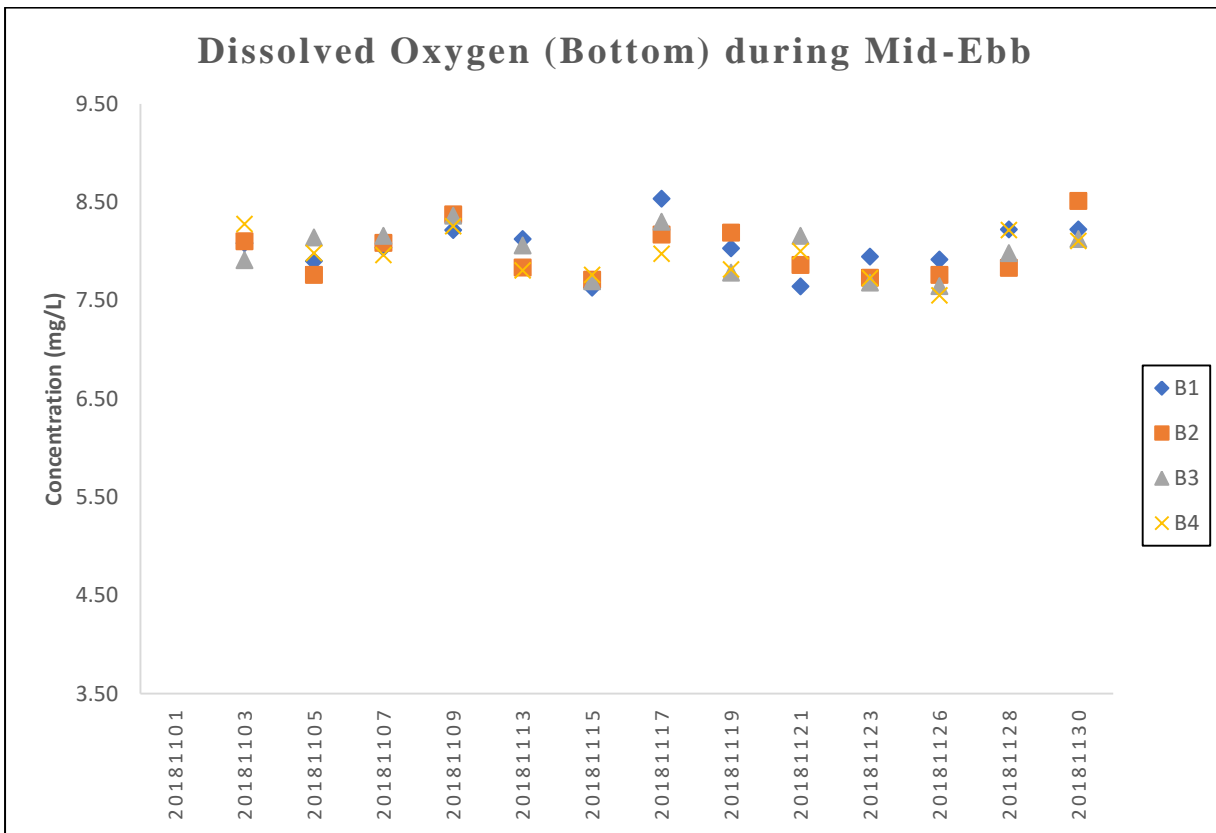
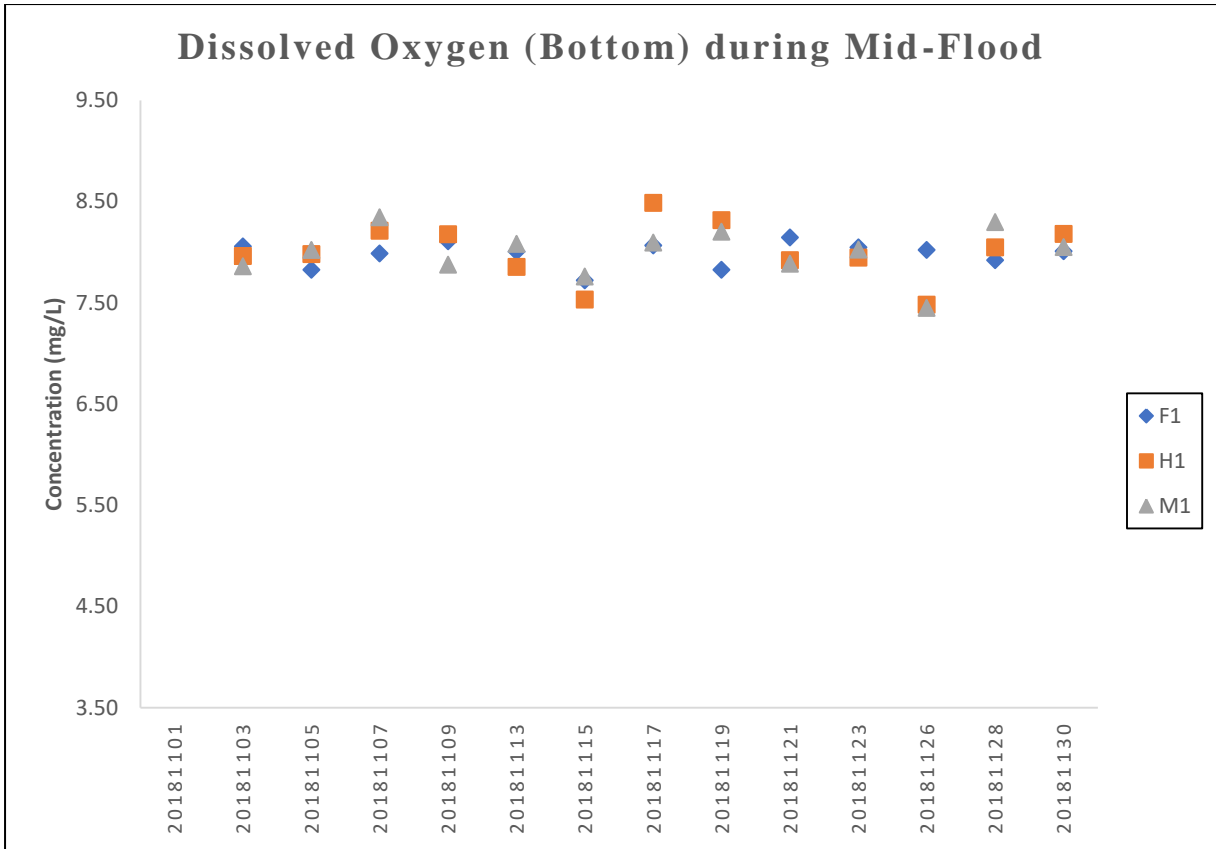
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



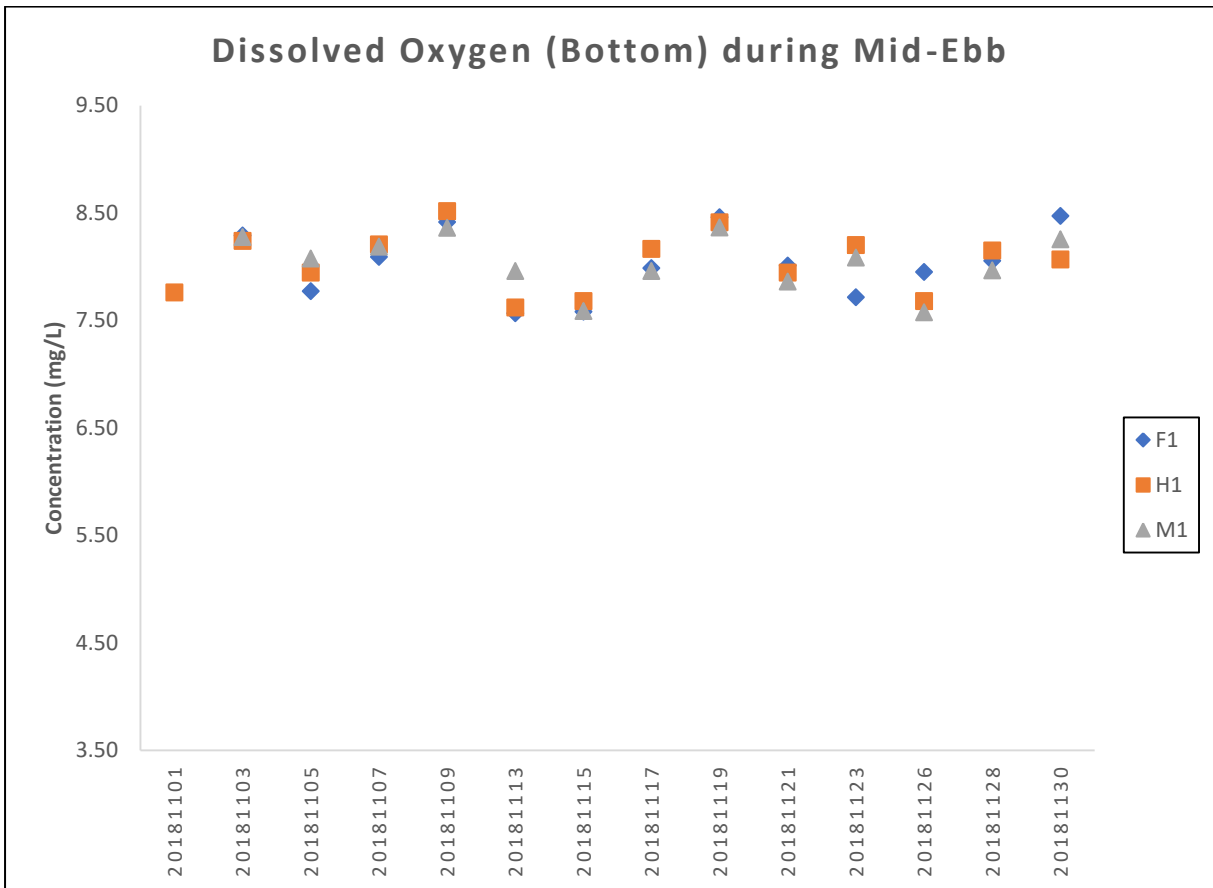
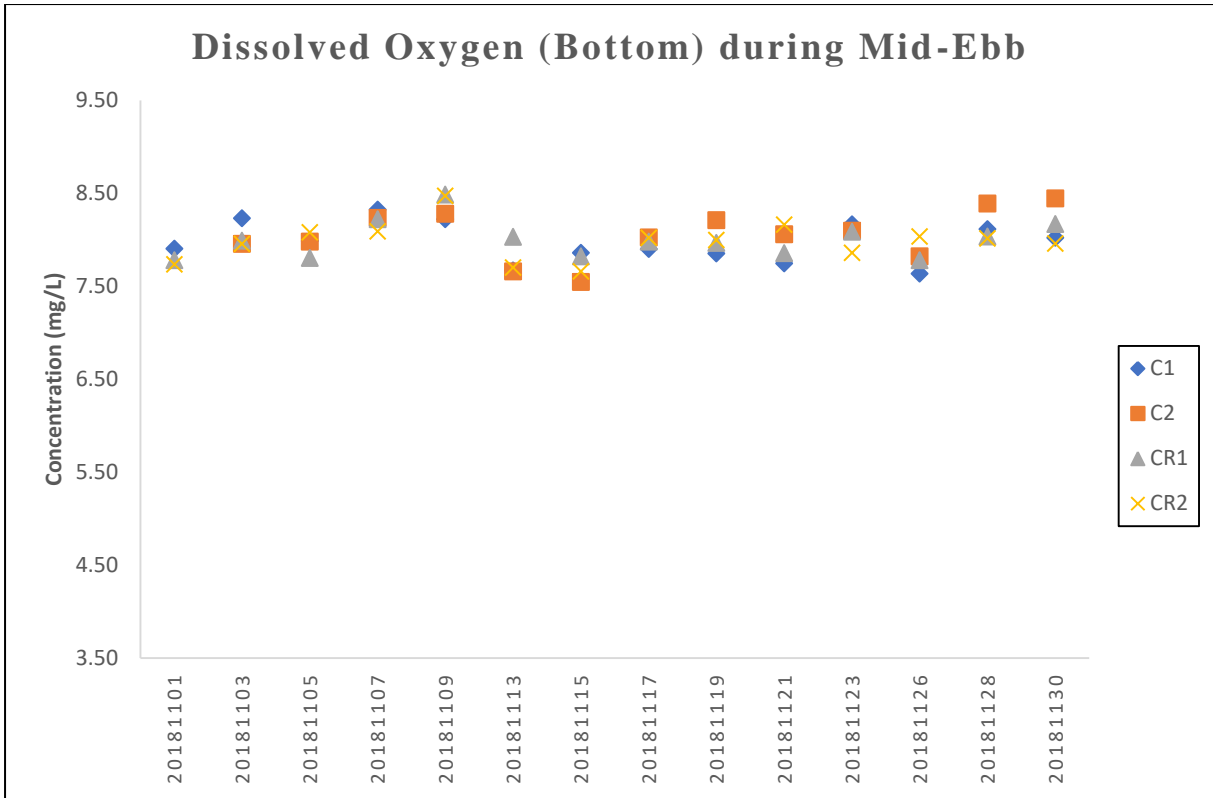
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



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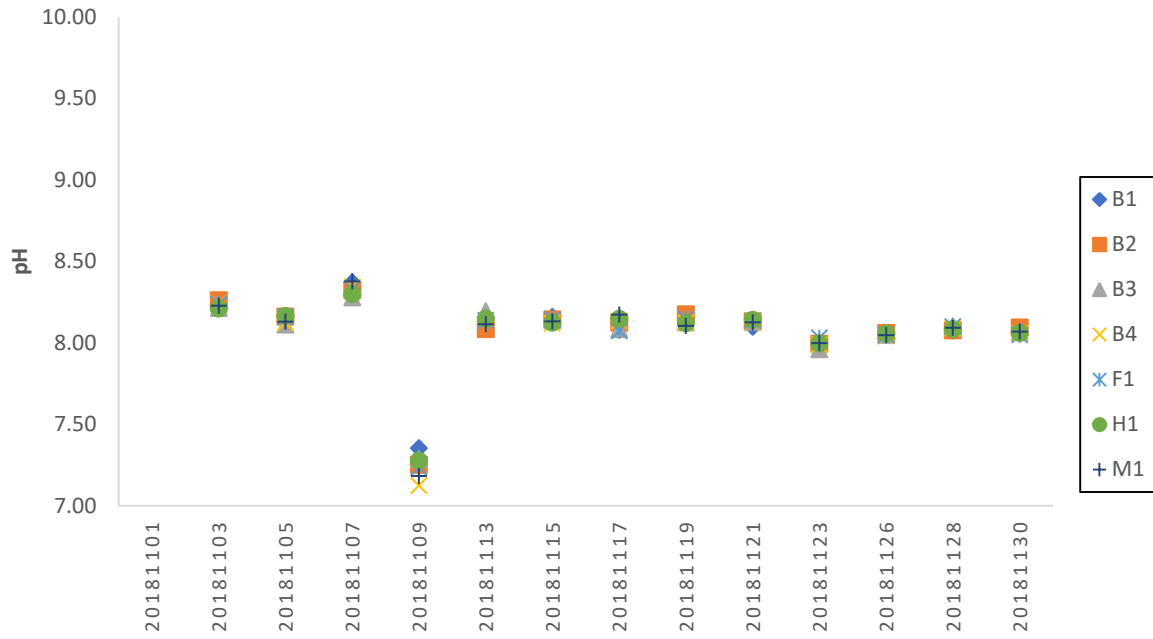
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



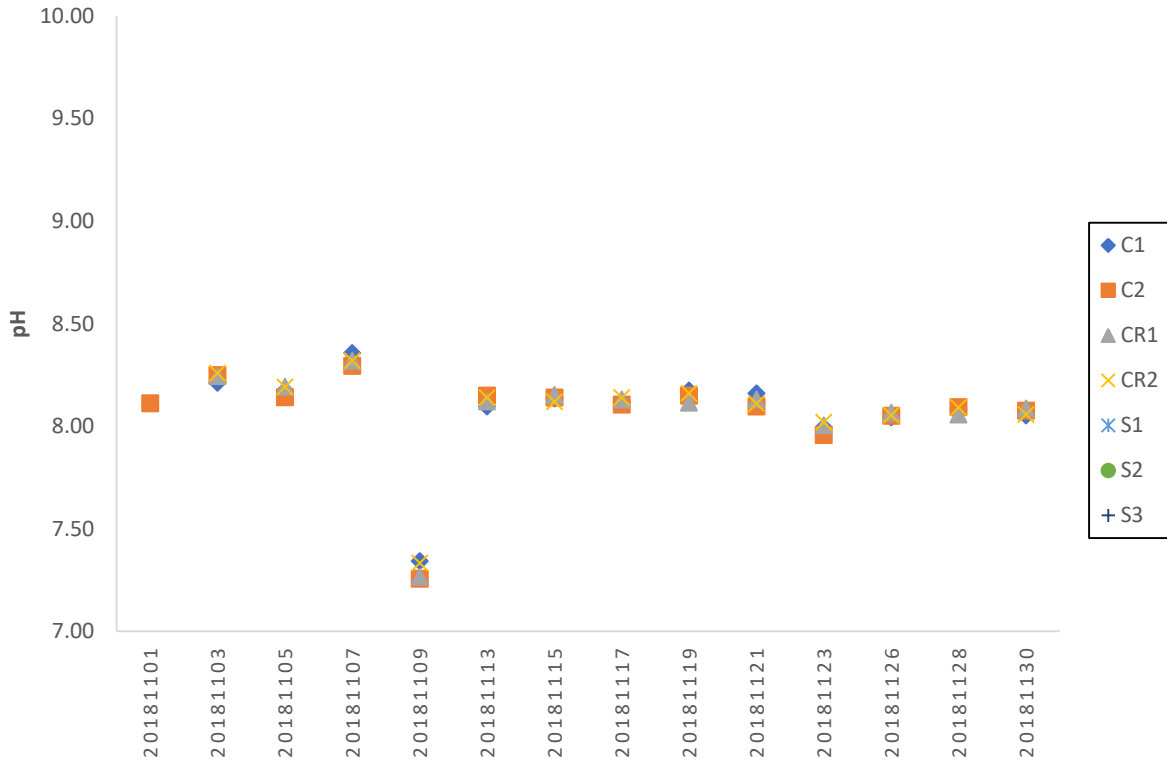
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.

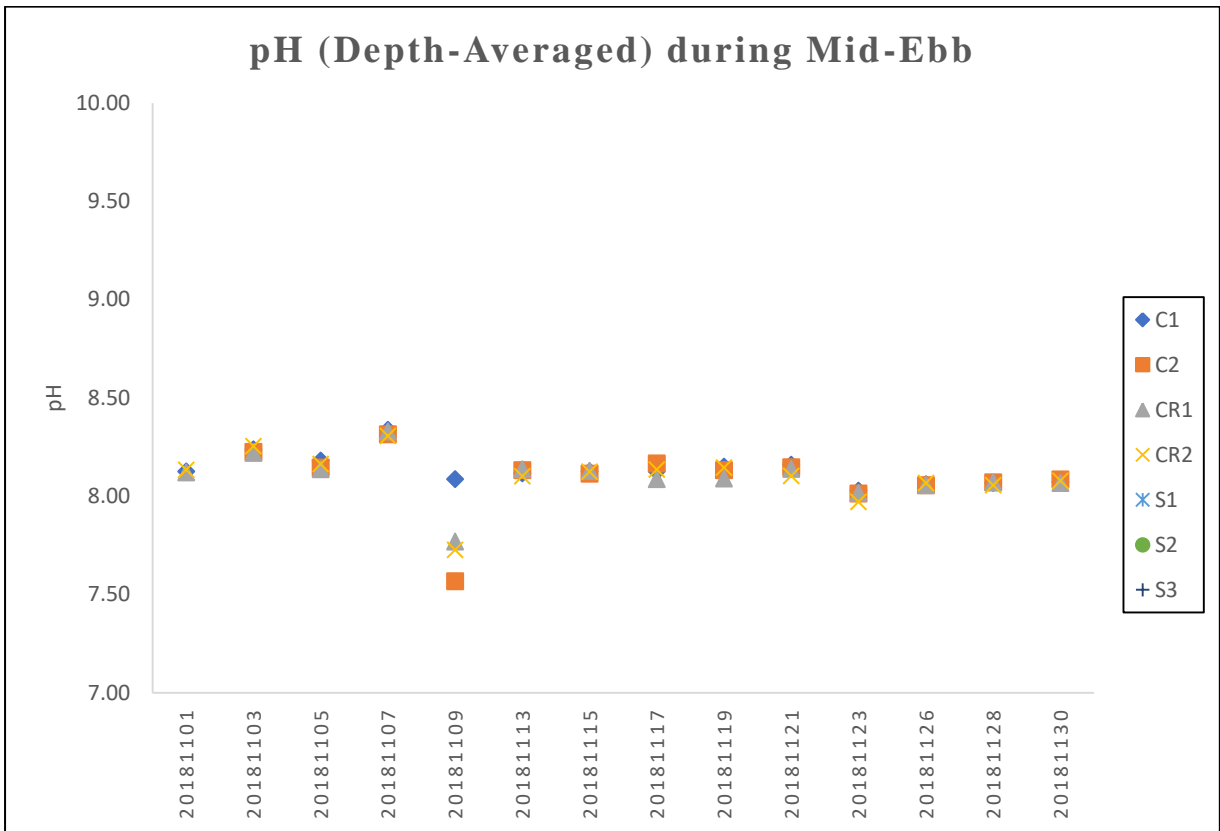
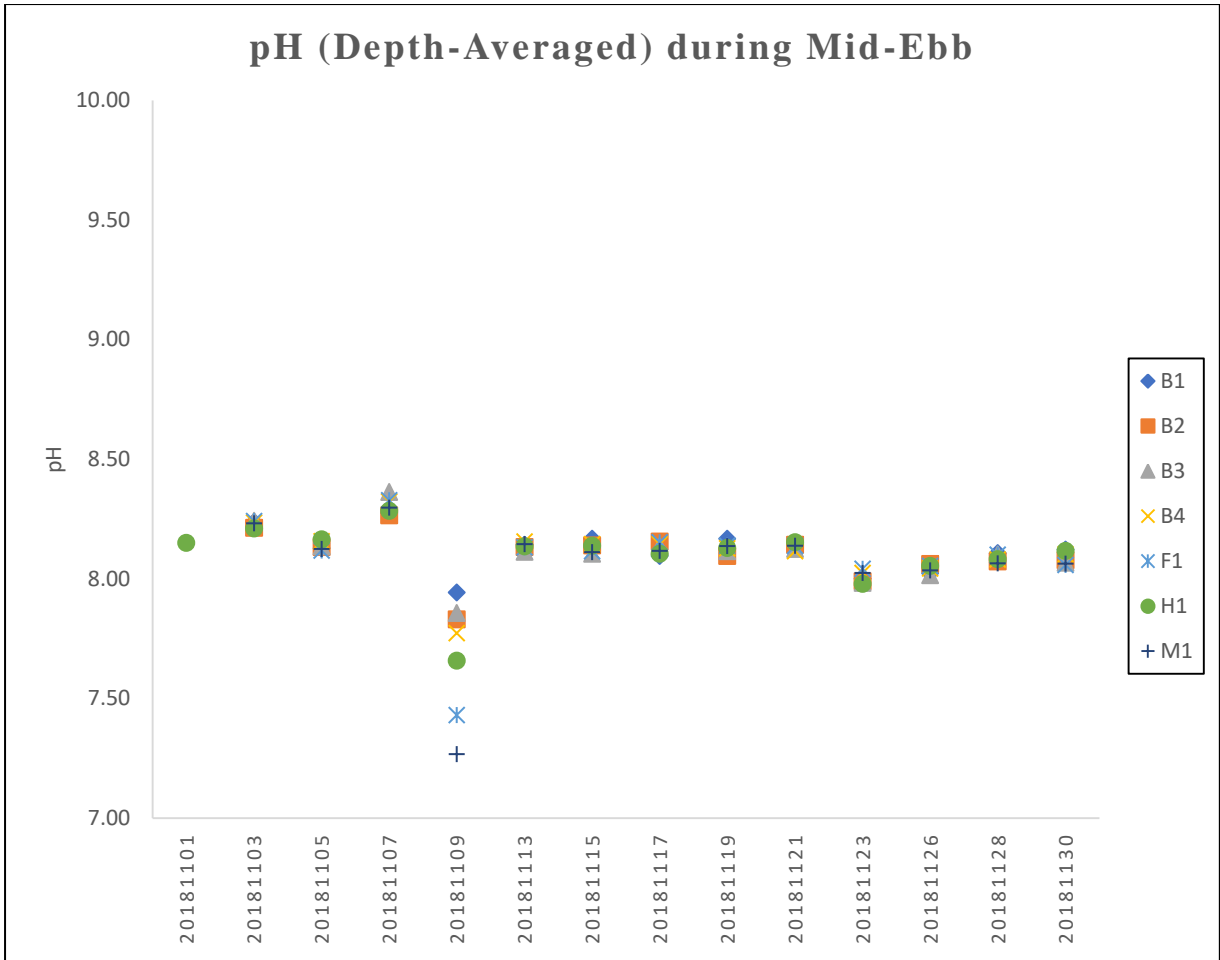


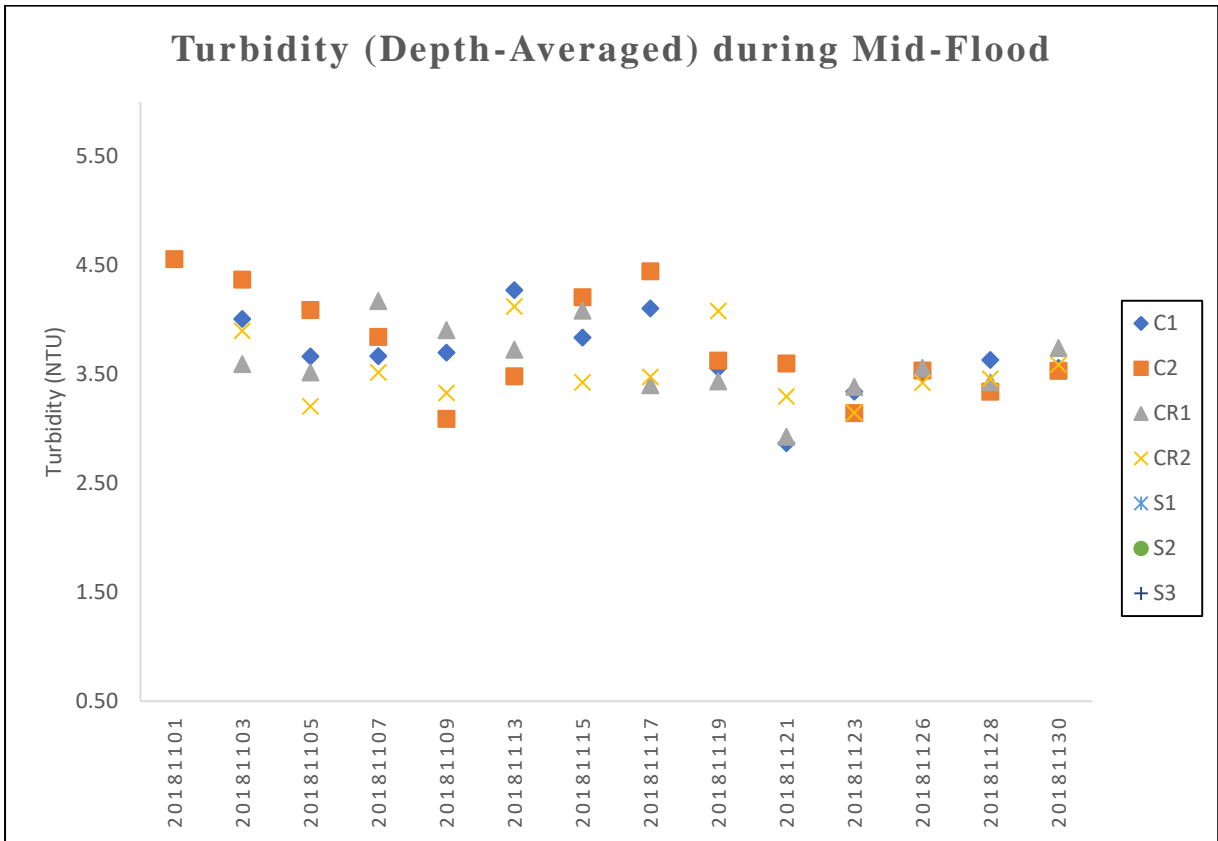
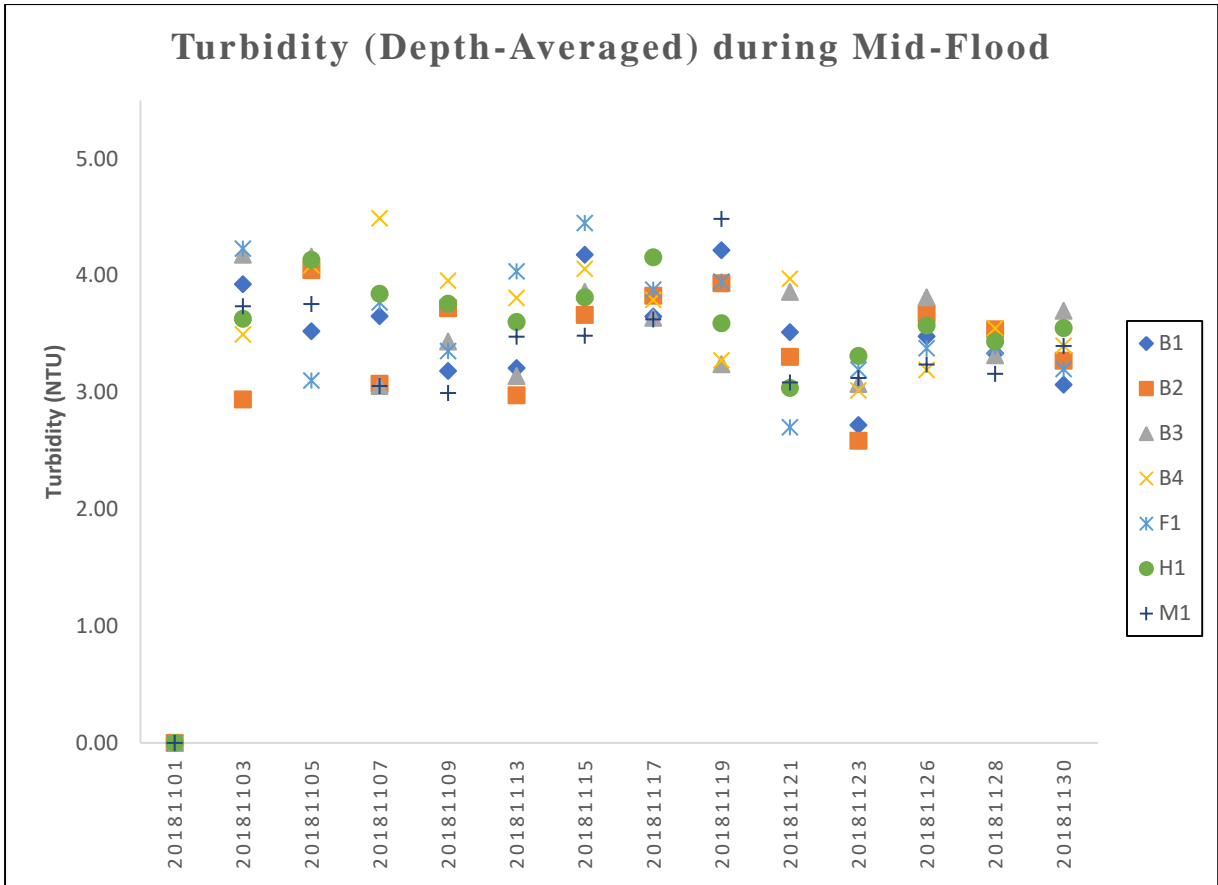
### pH (Depth-Averaged) during Mid-Flood



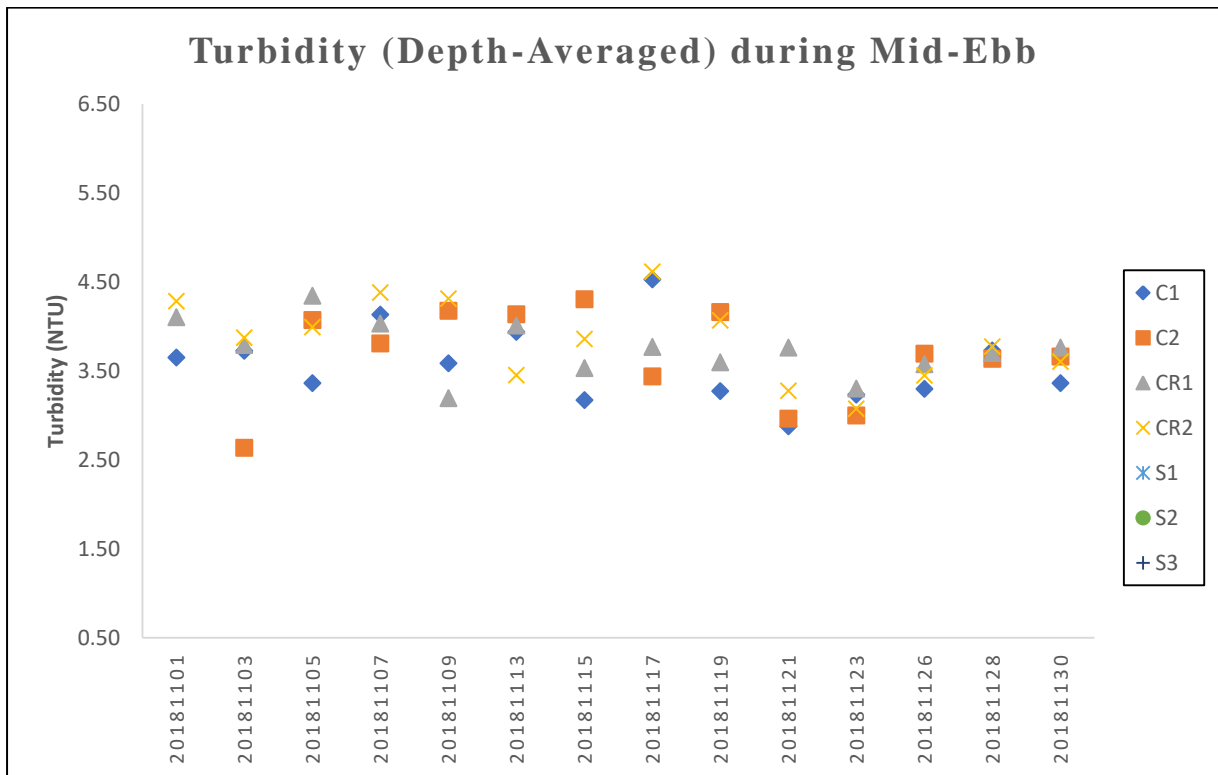
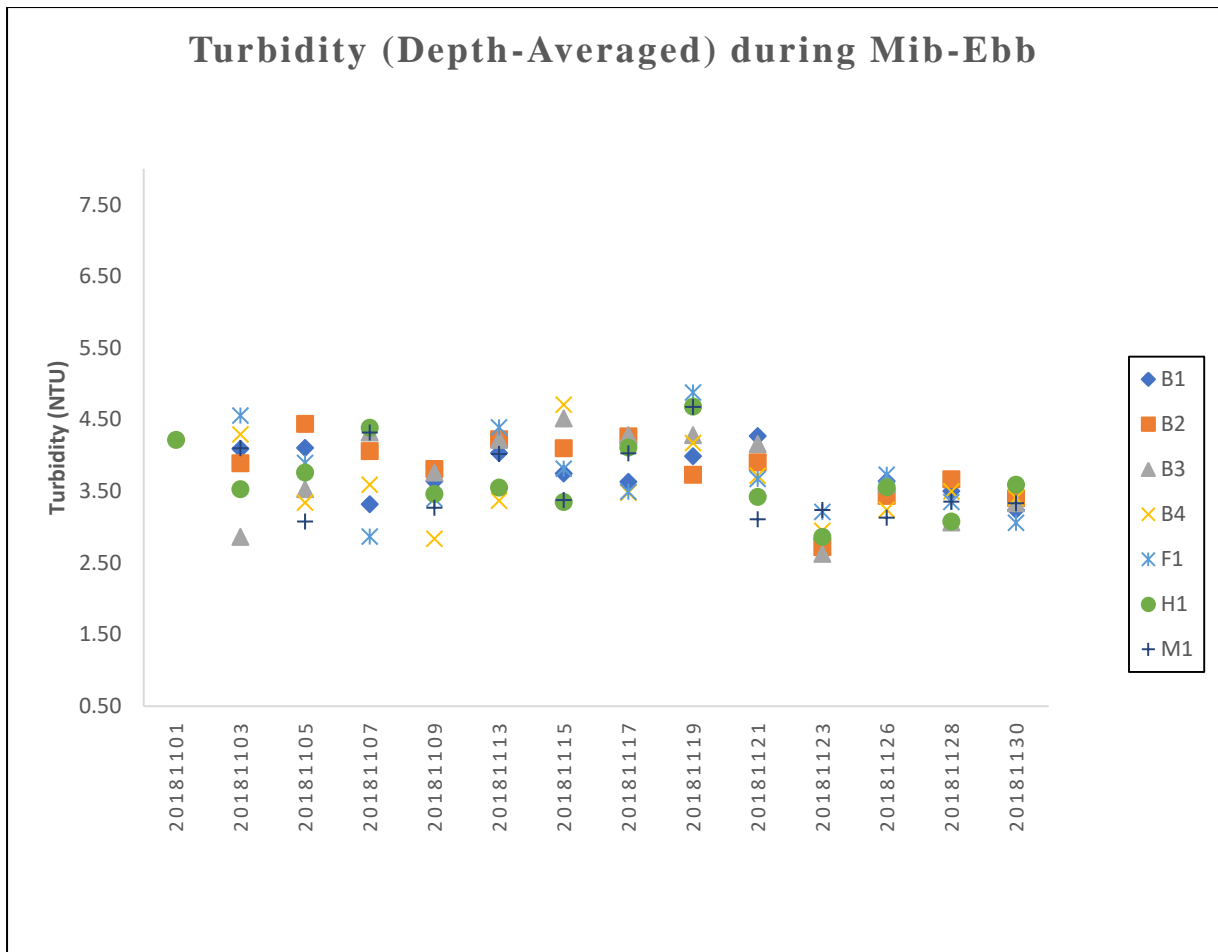
### pH (Depth-Averaged) during Mid-Flood



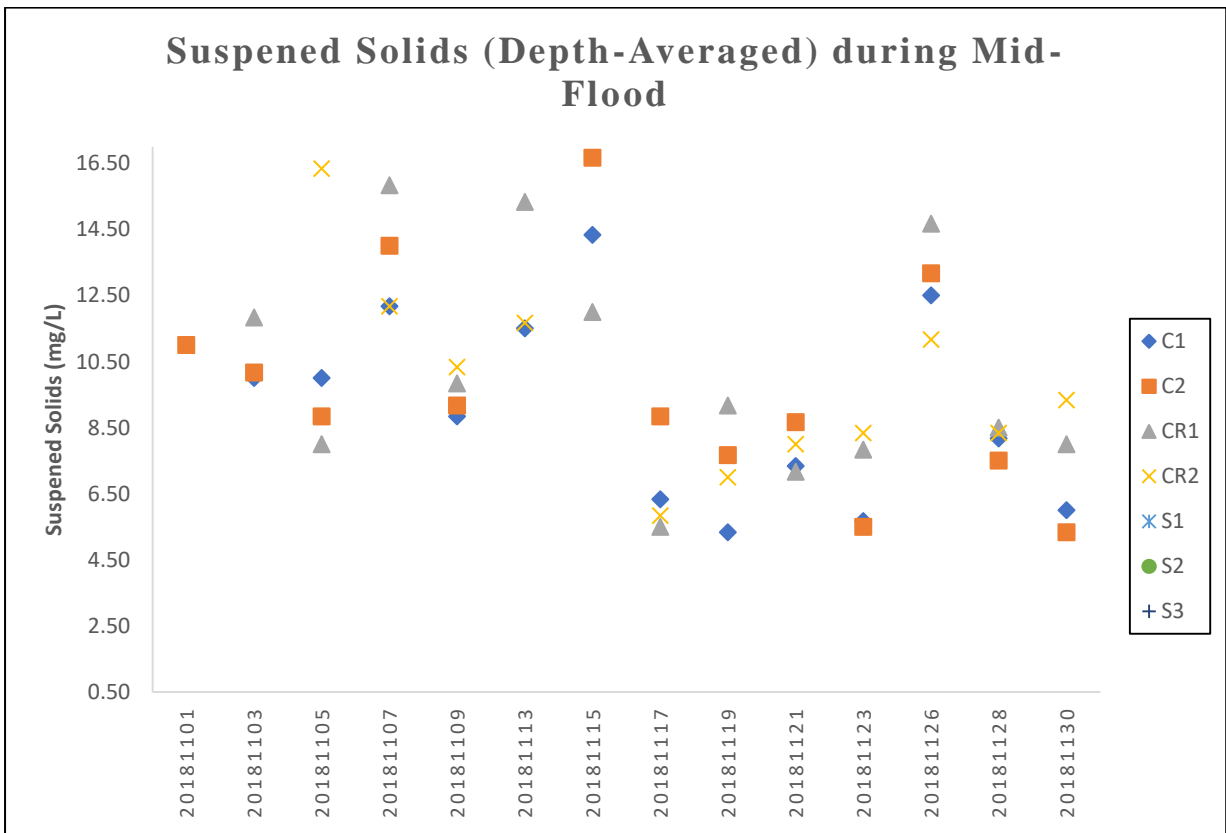
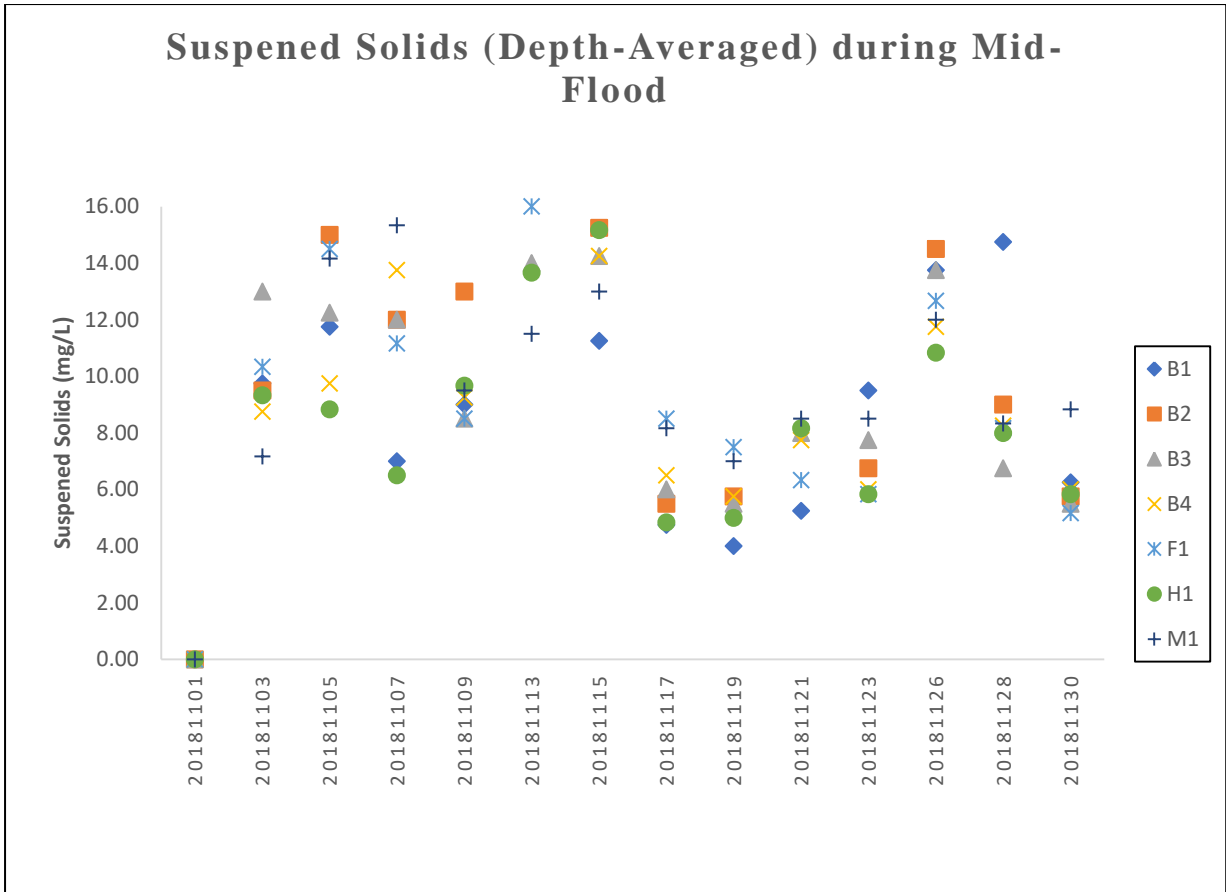




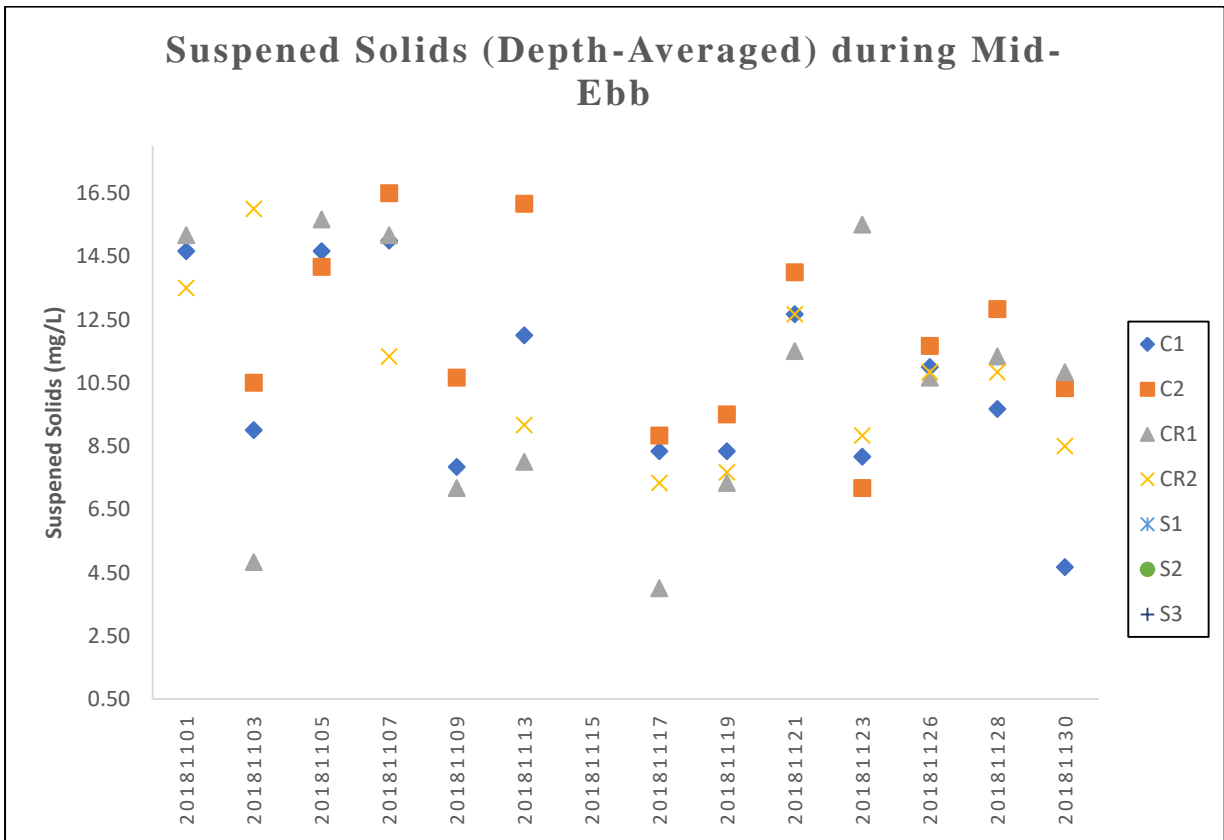
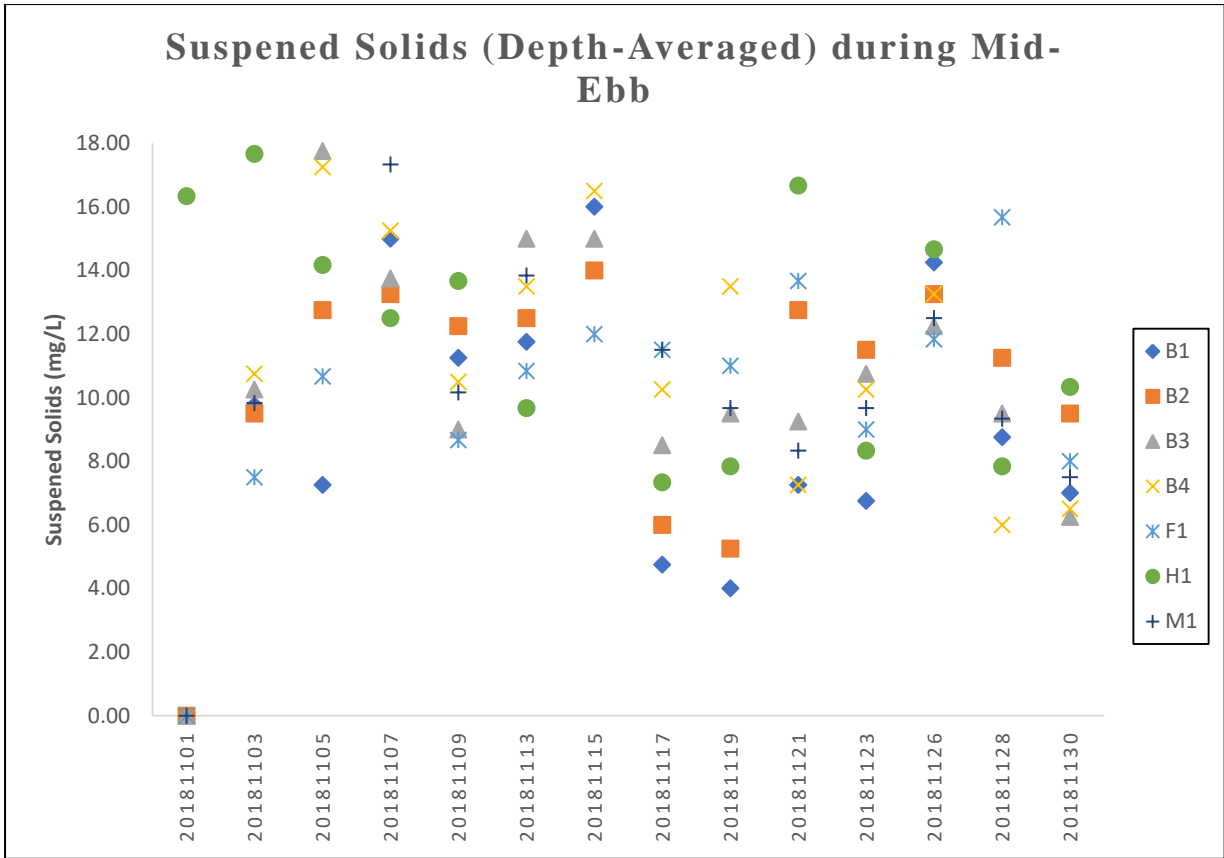
Note: The Action and Limit Level of turbidity can be referred to **Table 2.7** of the monthly EM & A report.



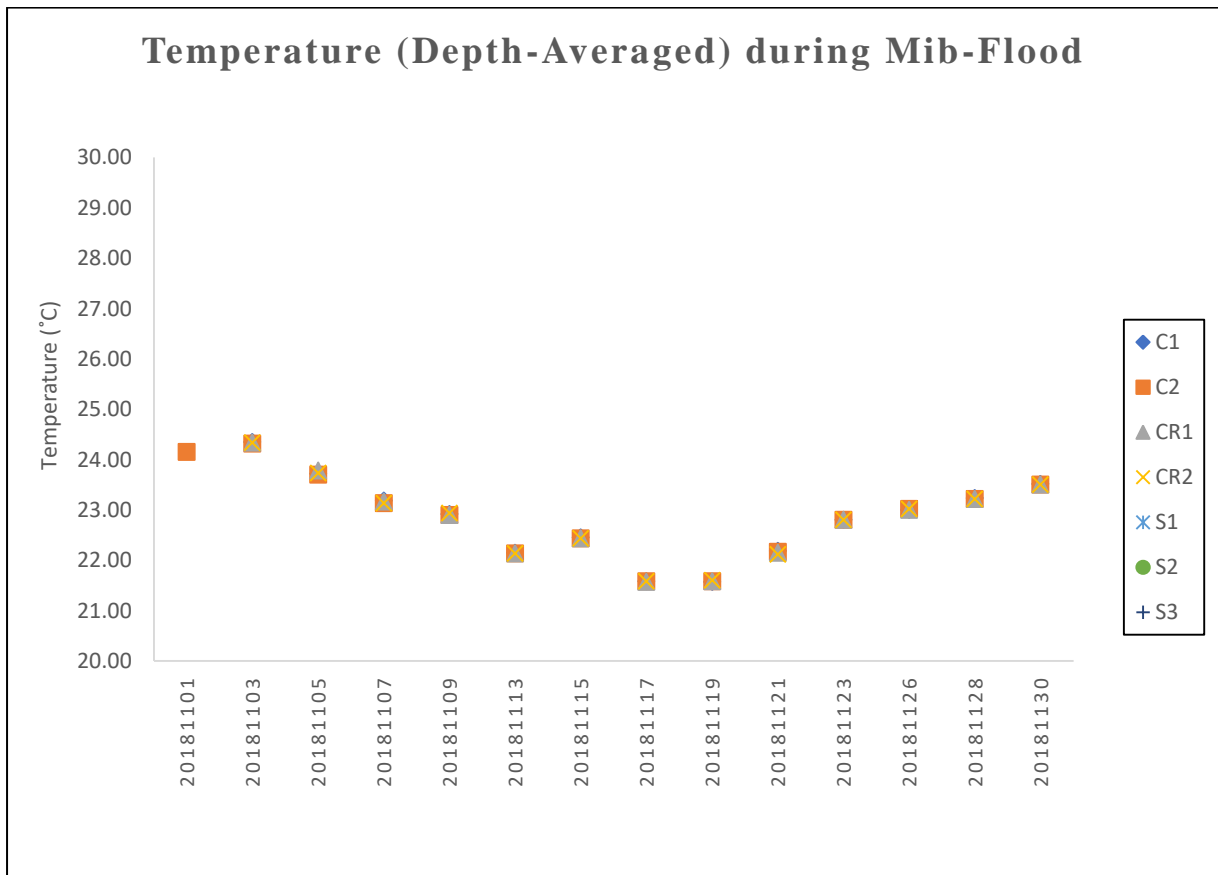
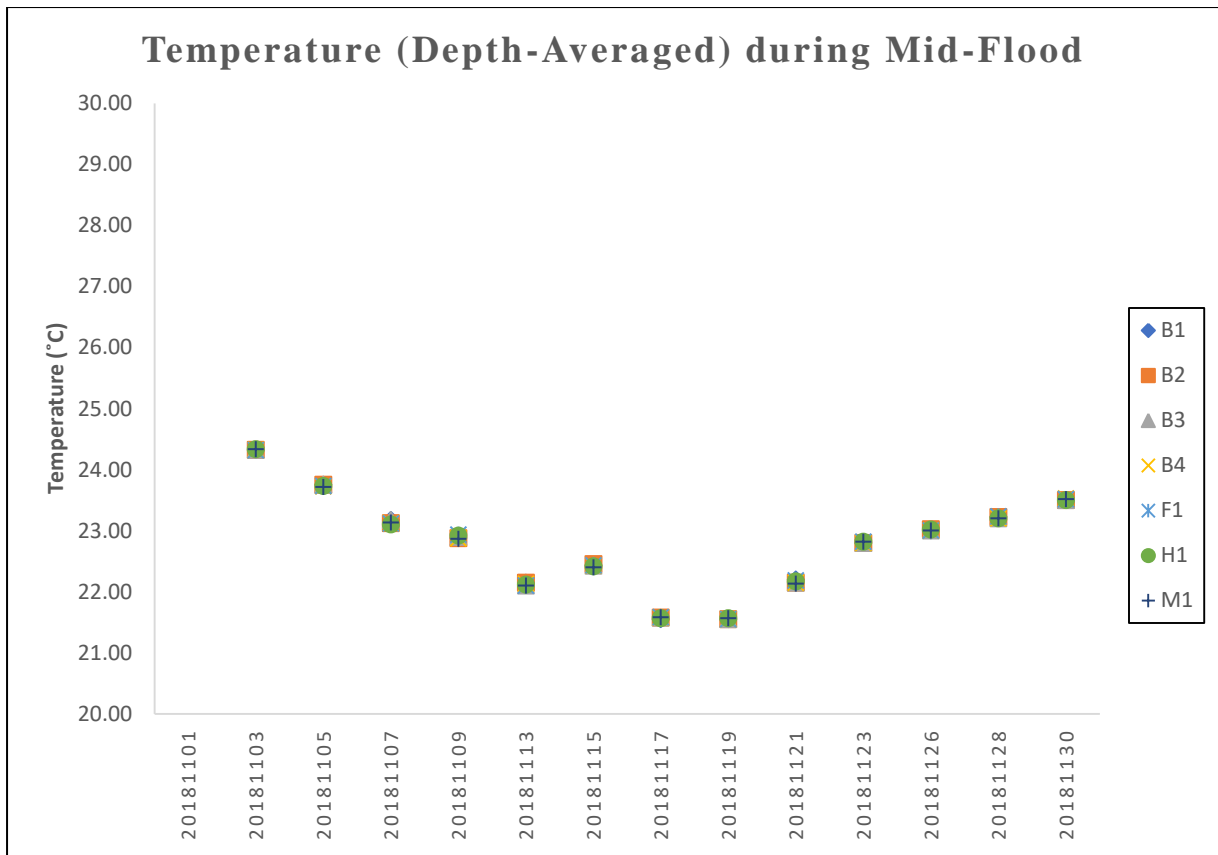
Note: The Action and Limit Level of turbidity can be referred to **Table 2.7** of the monthly EM & A report.



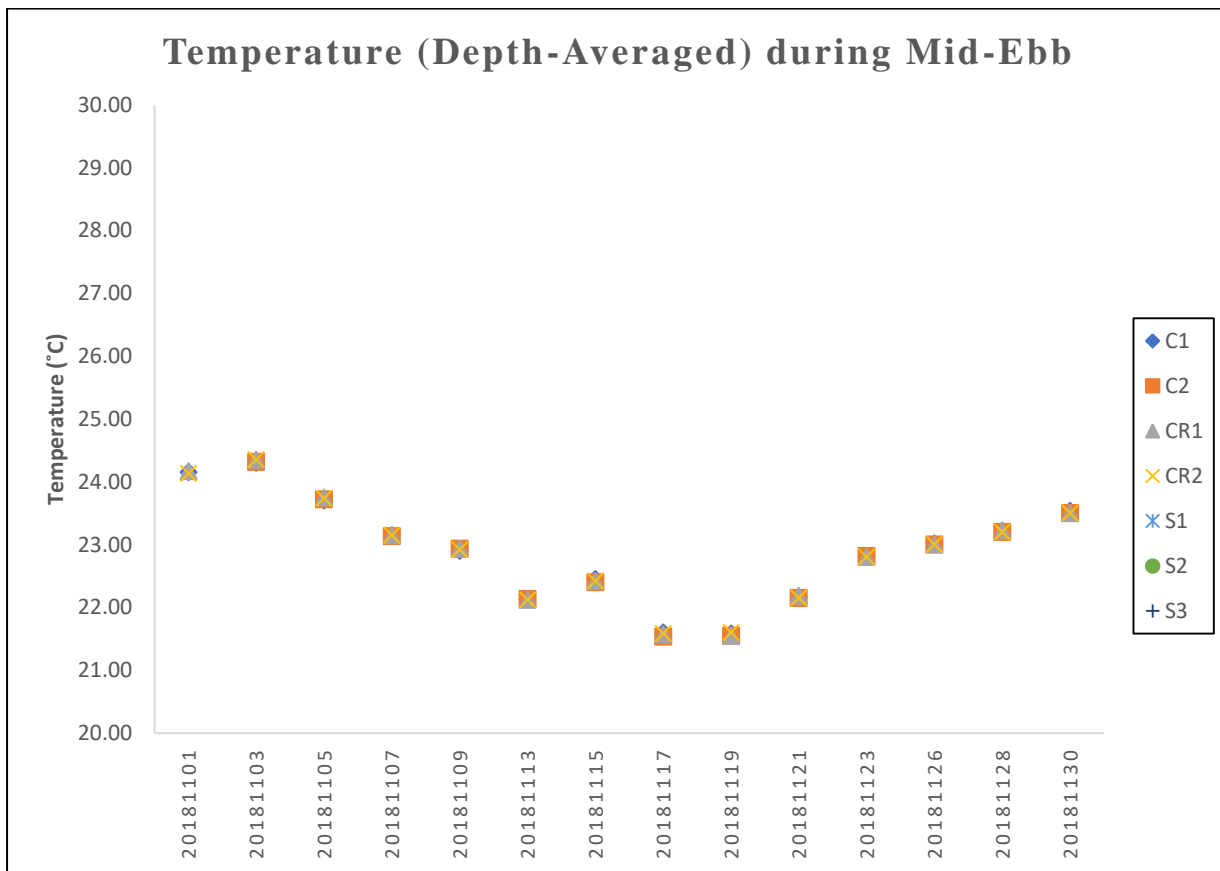
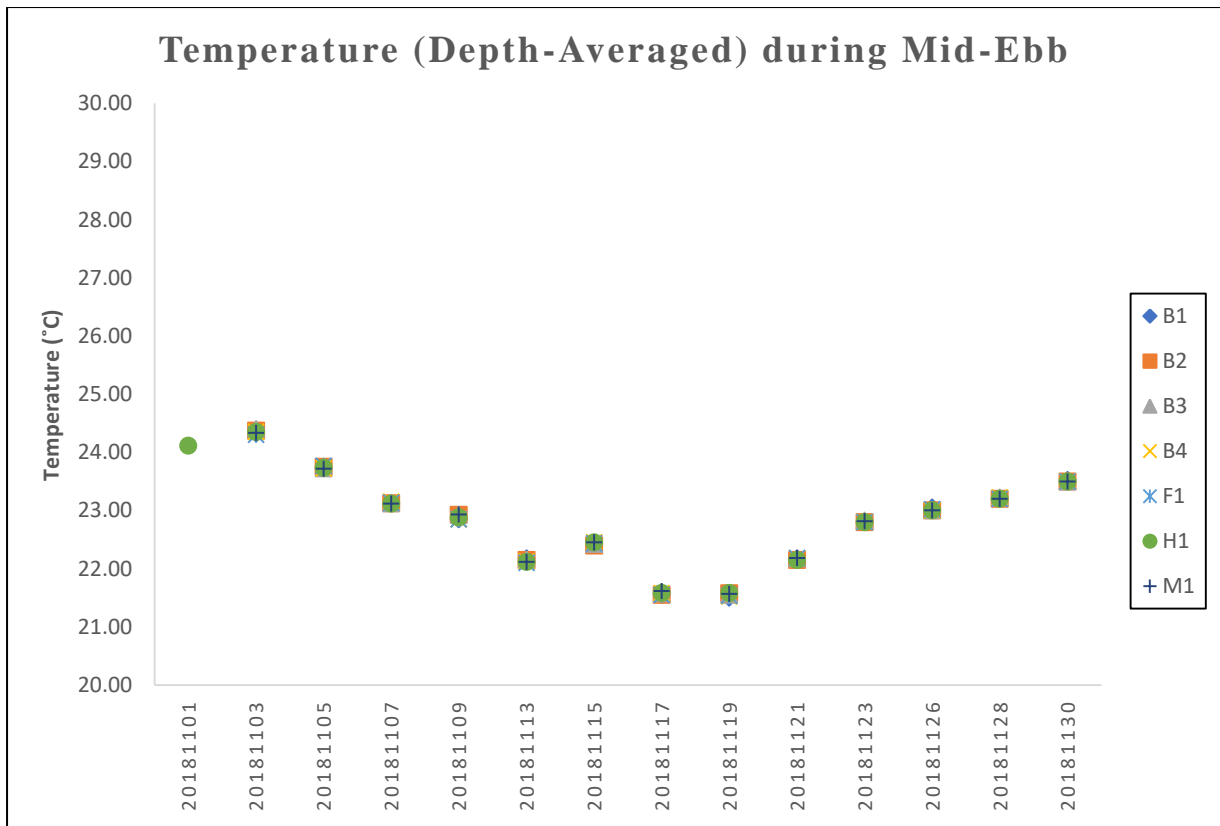
Note: The Action and Limit Level of suspended solids can be referred to **Table 2.7** of the monthly EM & A report.



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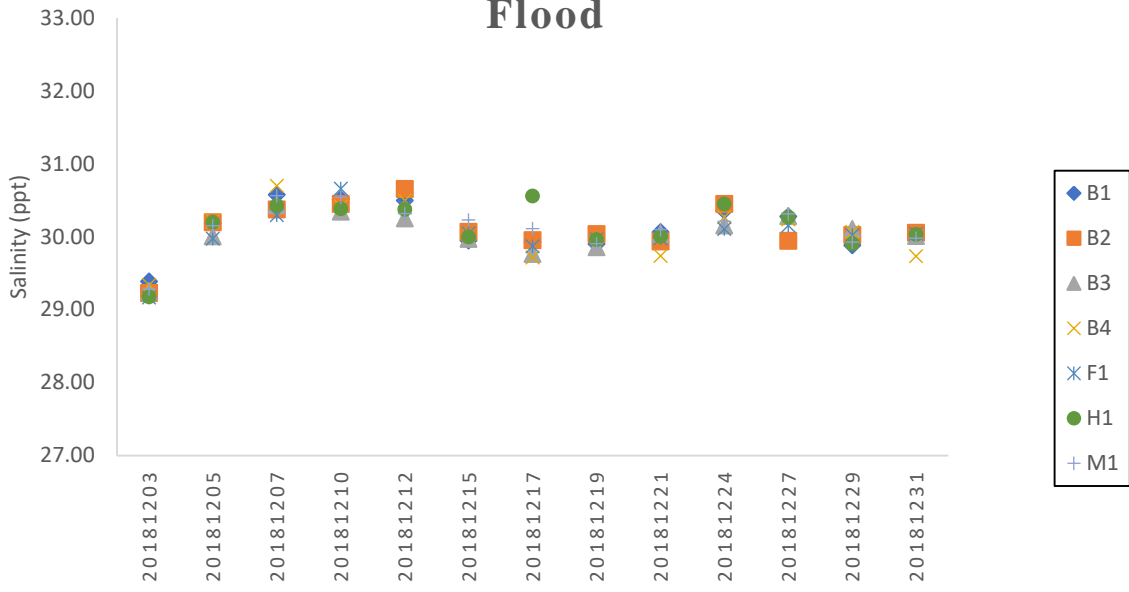
Note: The Action and Limit Level of temperature can be referred to **Table 2.7** of the monthly EM & A report.



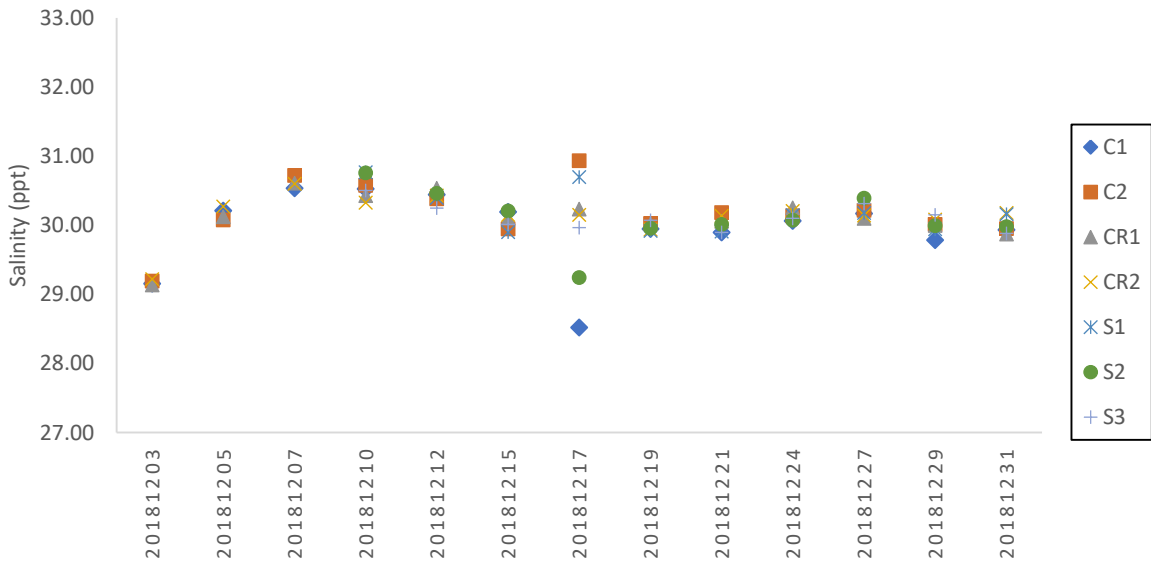
Note: The Action and Limit Level of temperature can be referred to **Table 2.7** of the monthly EM & A report.



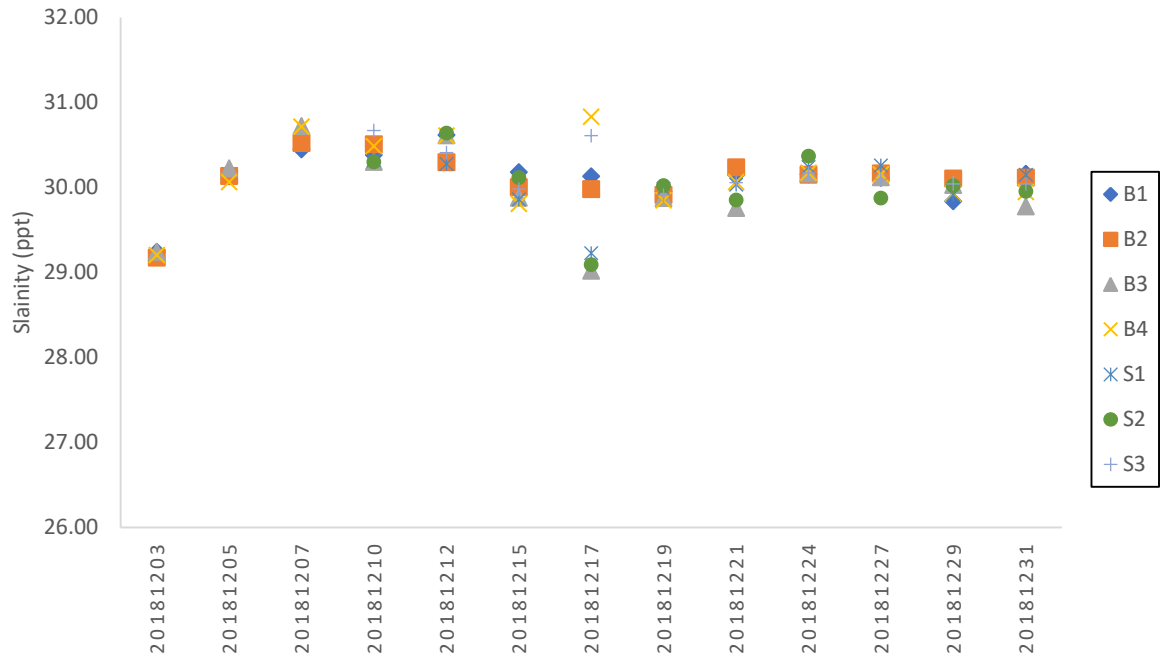
### Salinity (Depth-averaged) during Mid-Flood



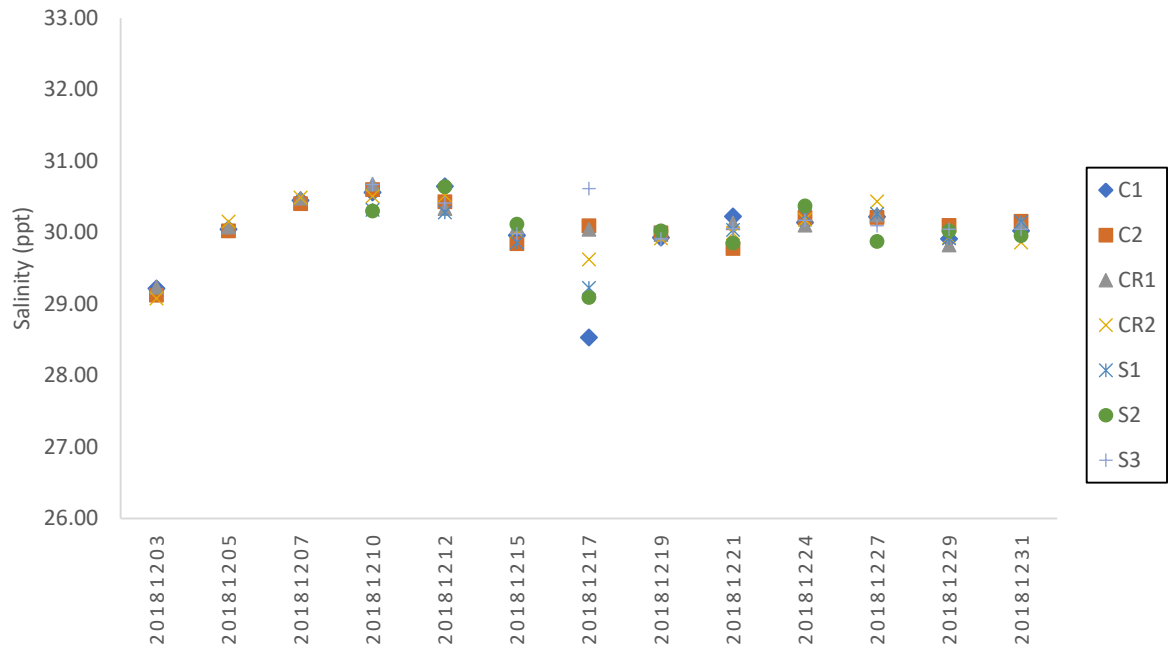
### Salinity (Depth-averaged) during Mid-Flood

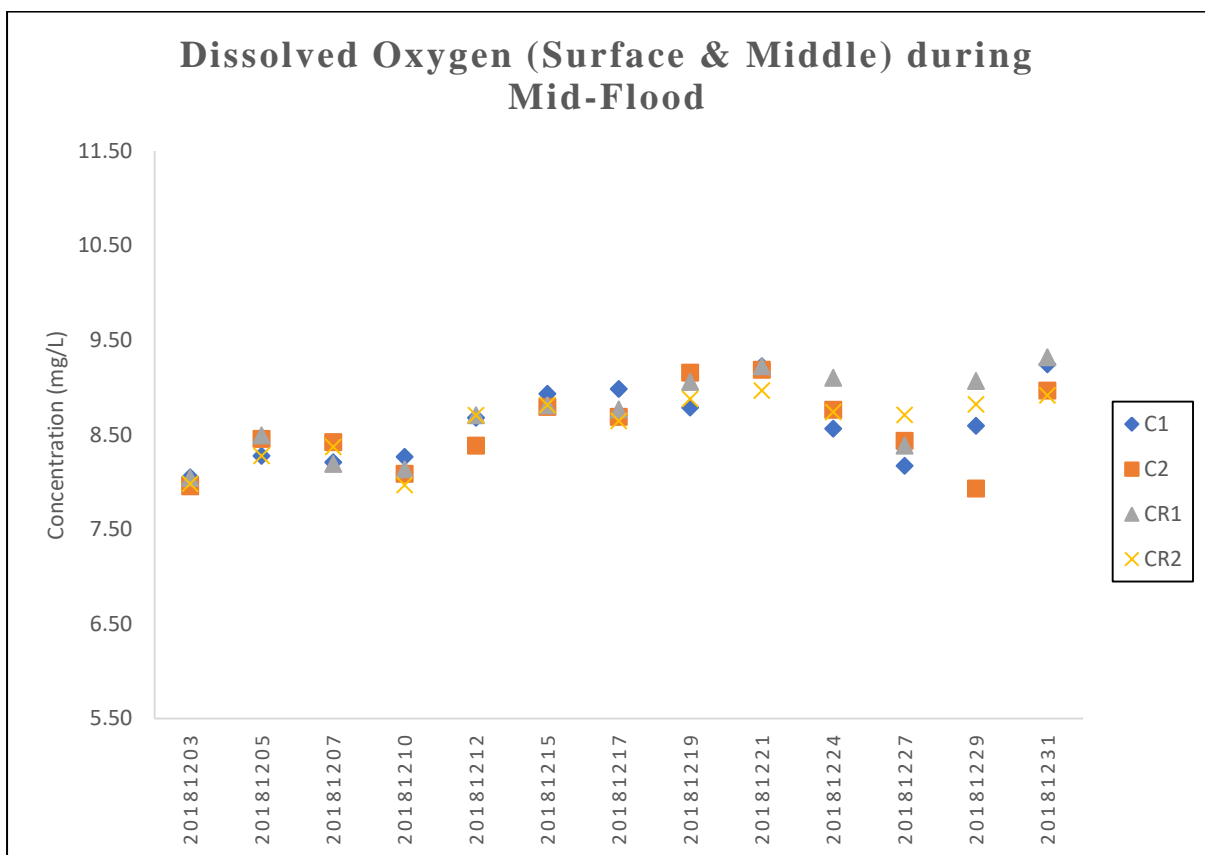
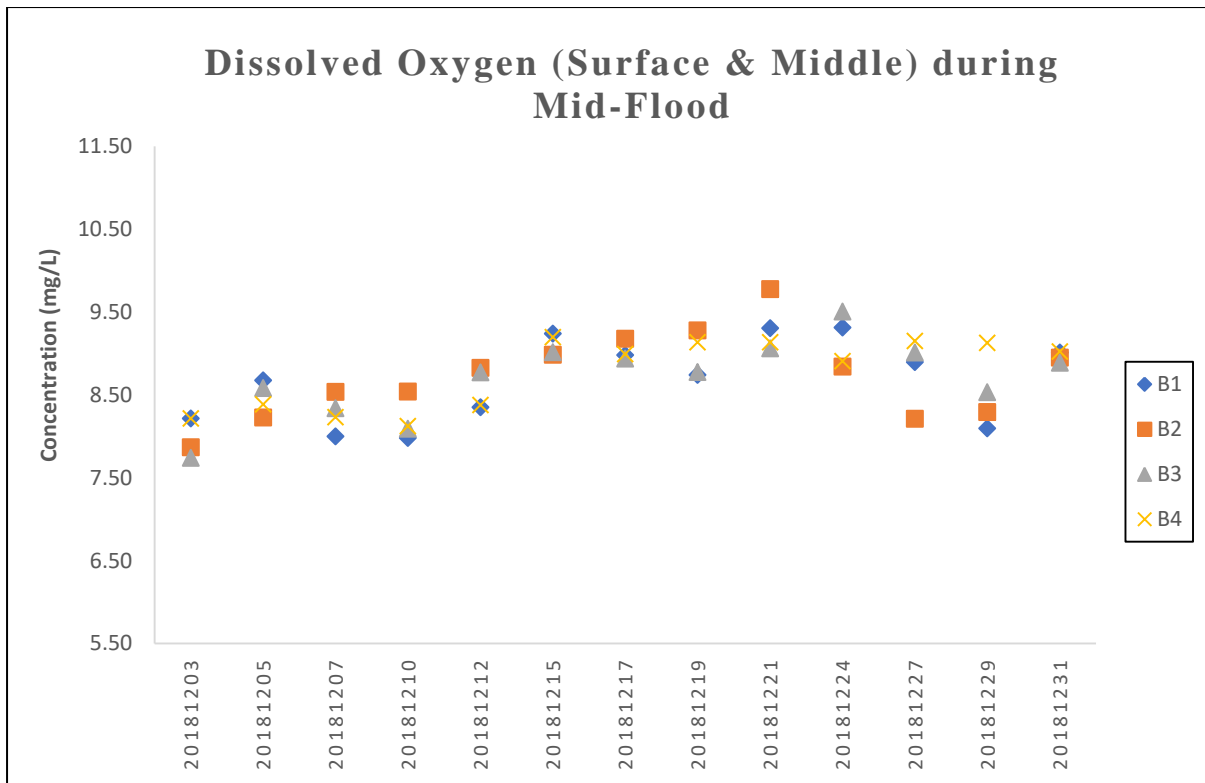


### Salinity (Depth-averaged) during Mid-Ebb

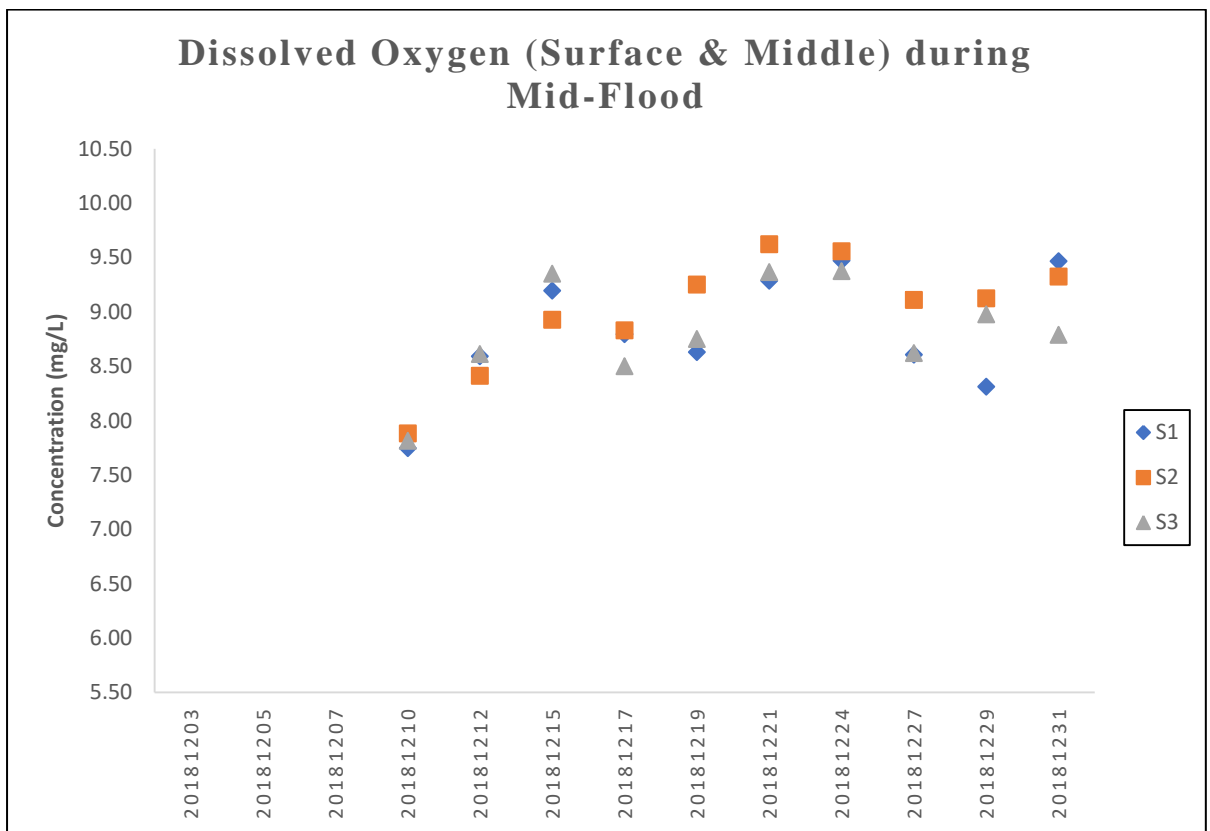
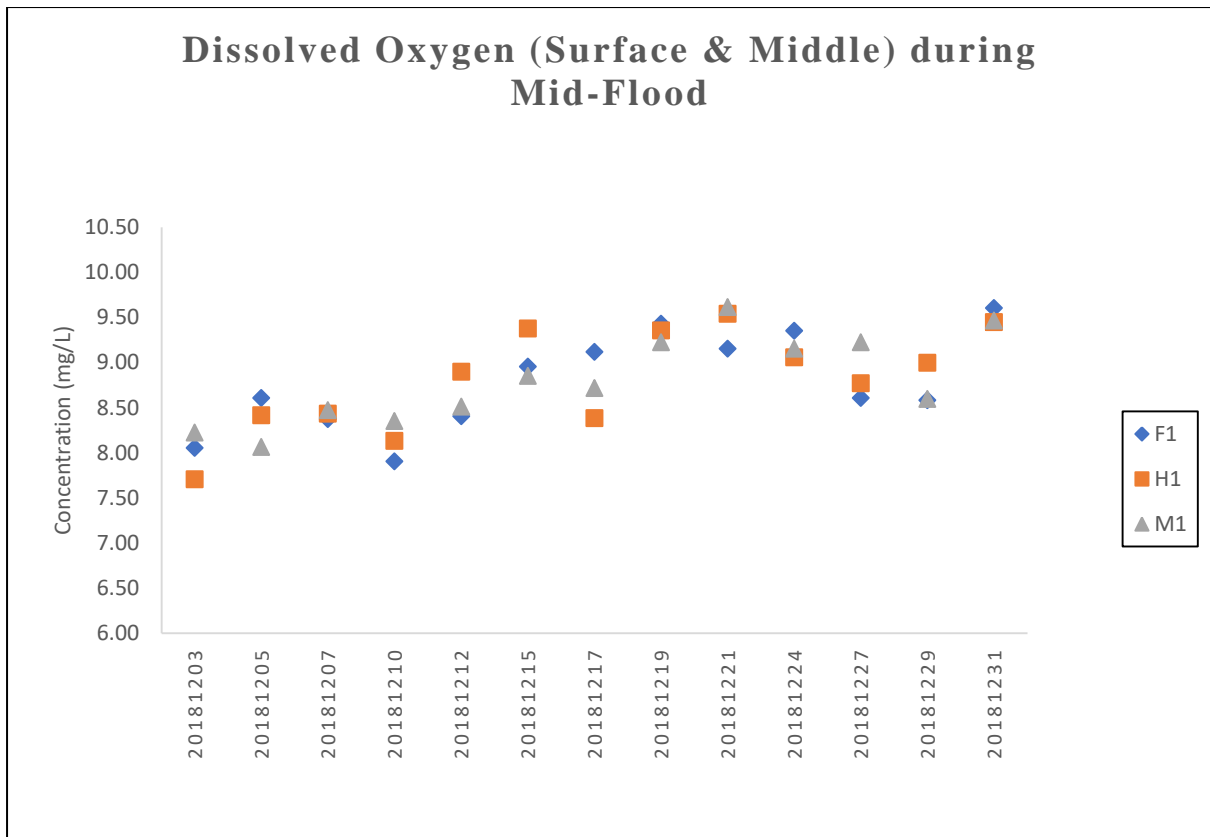


### Salinity (Depth-averaged) during Mid-Ebb

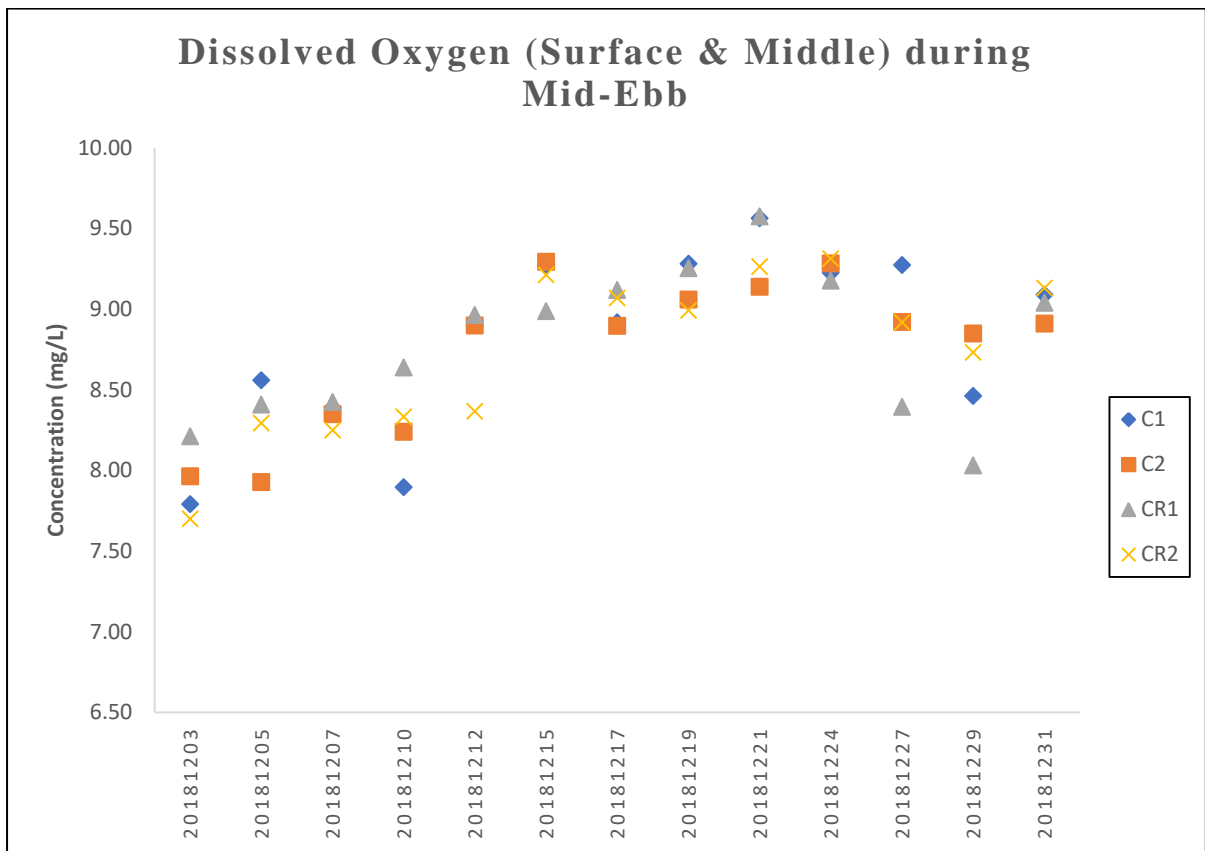
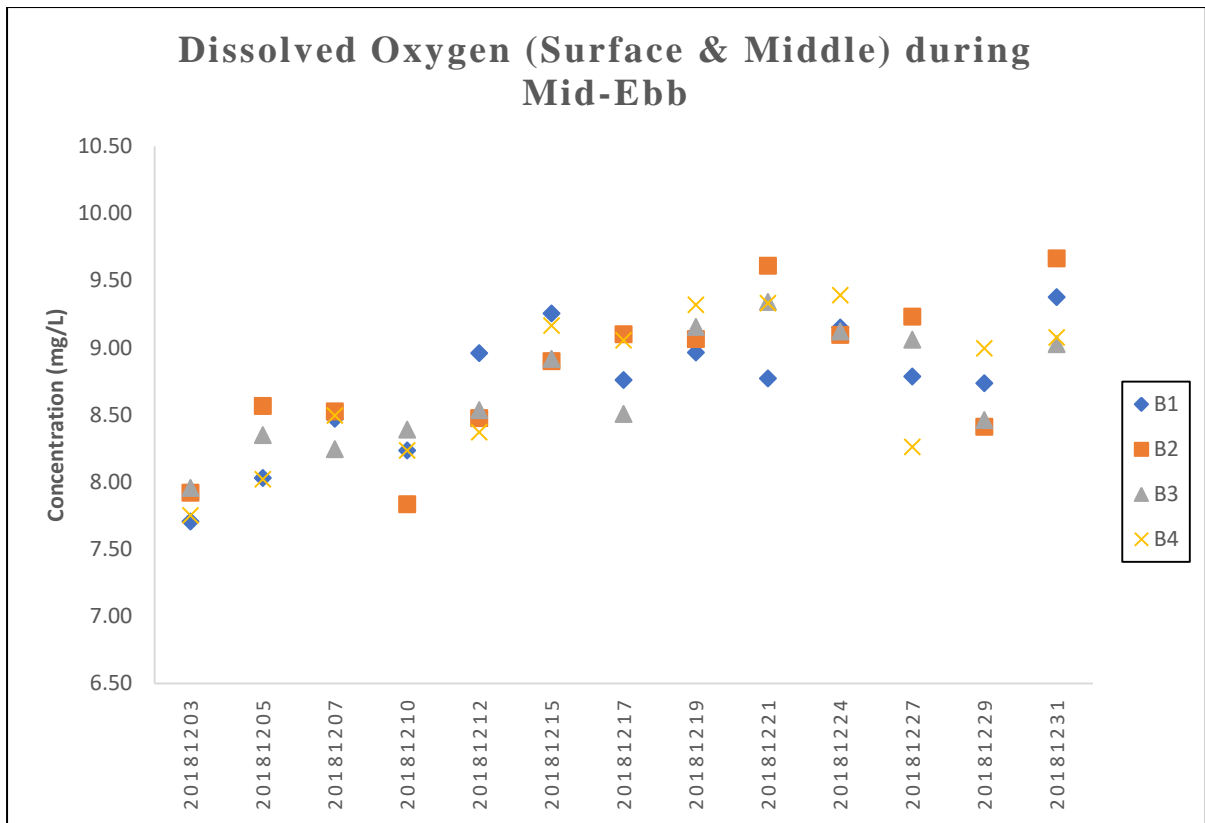




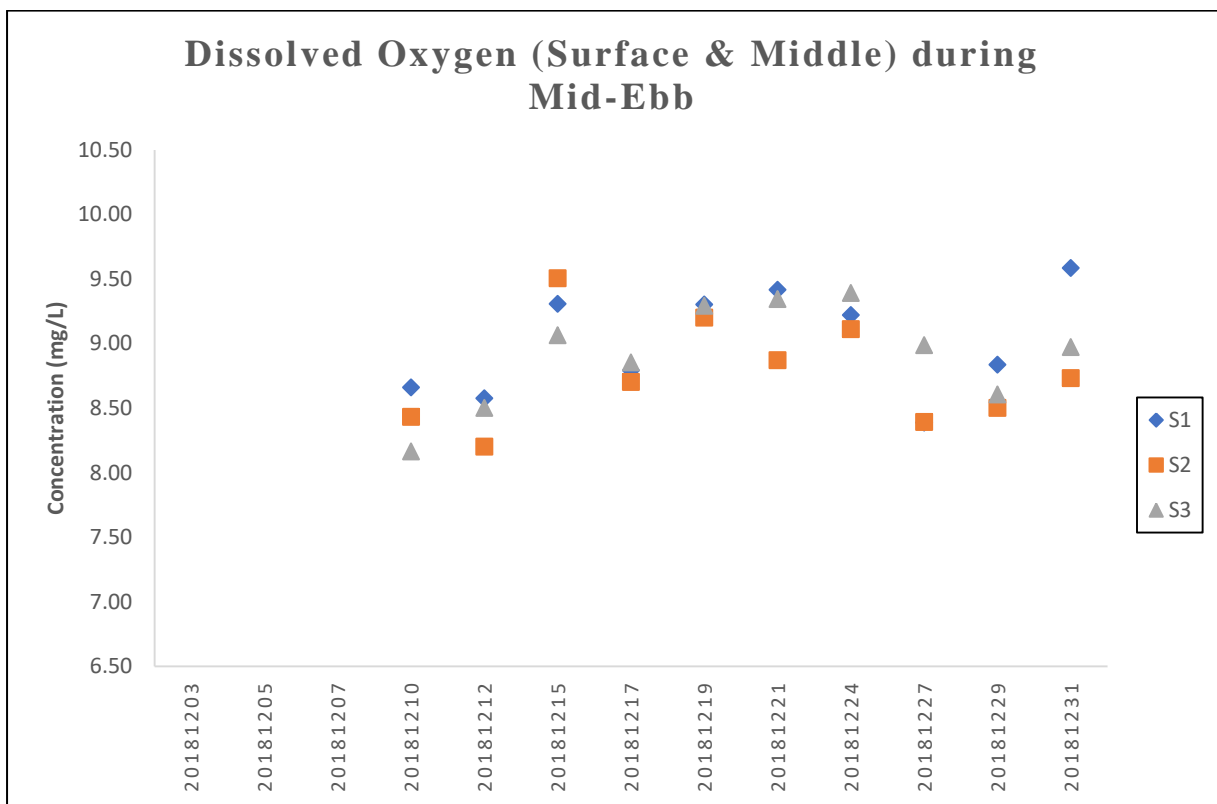
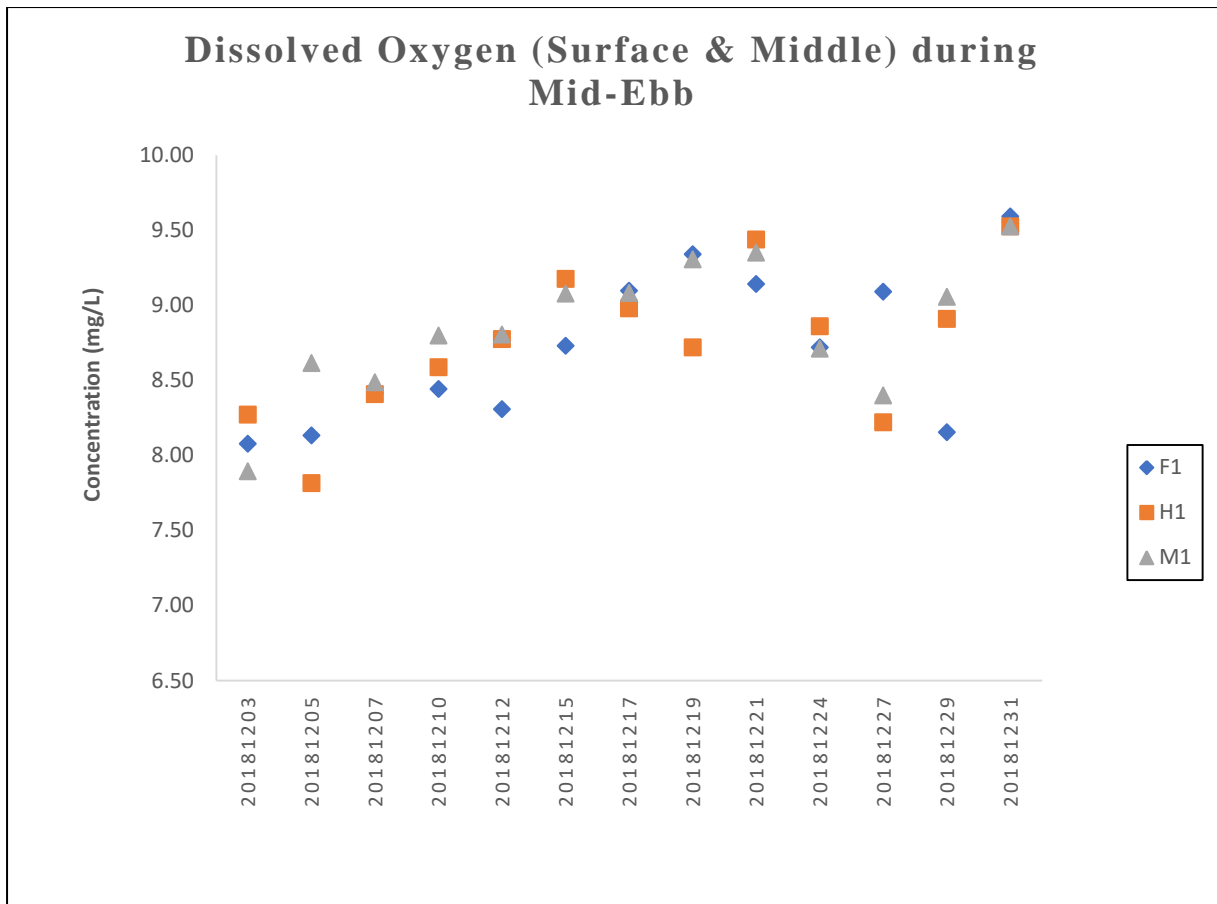
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



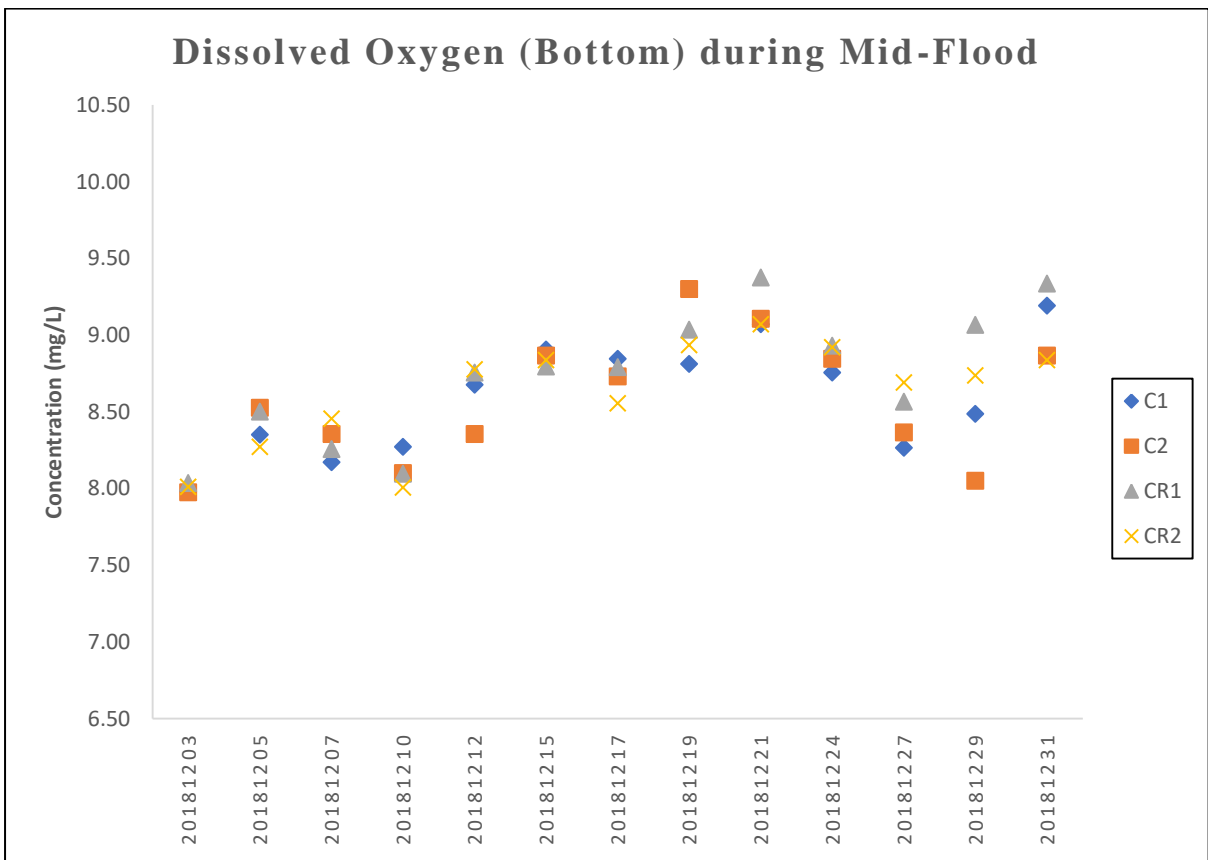
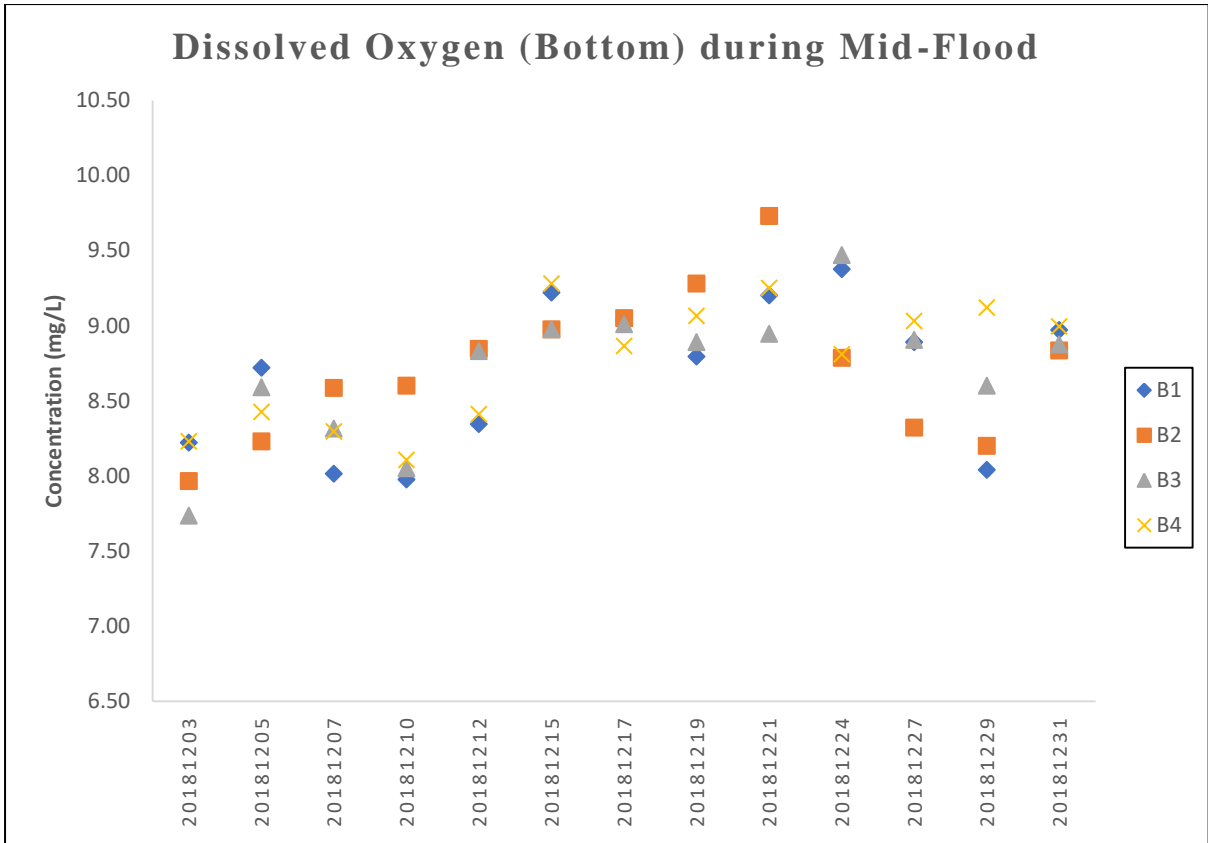
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



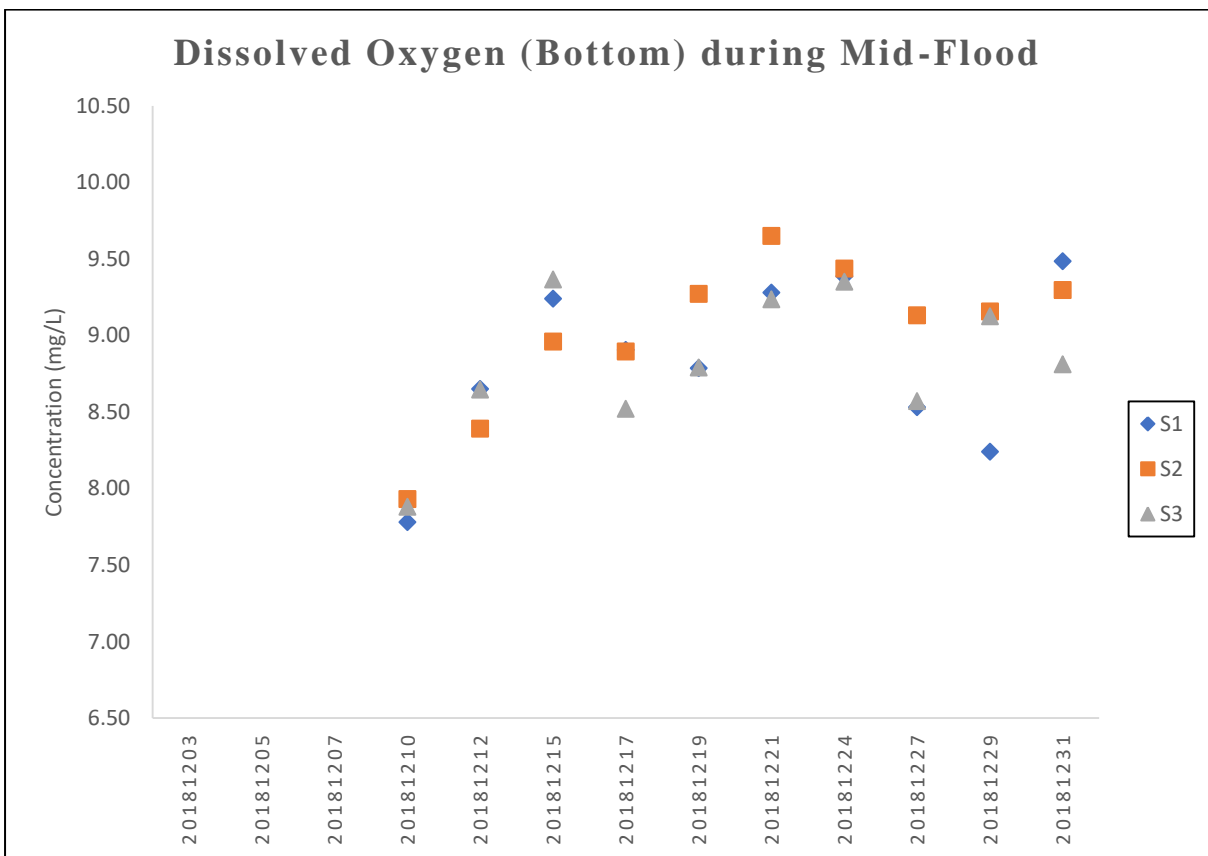
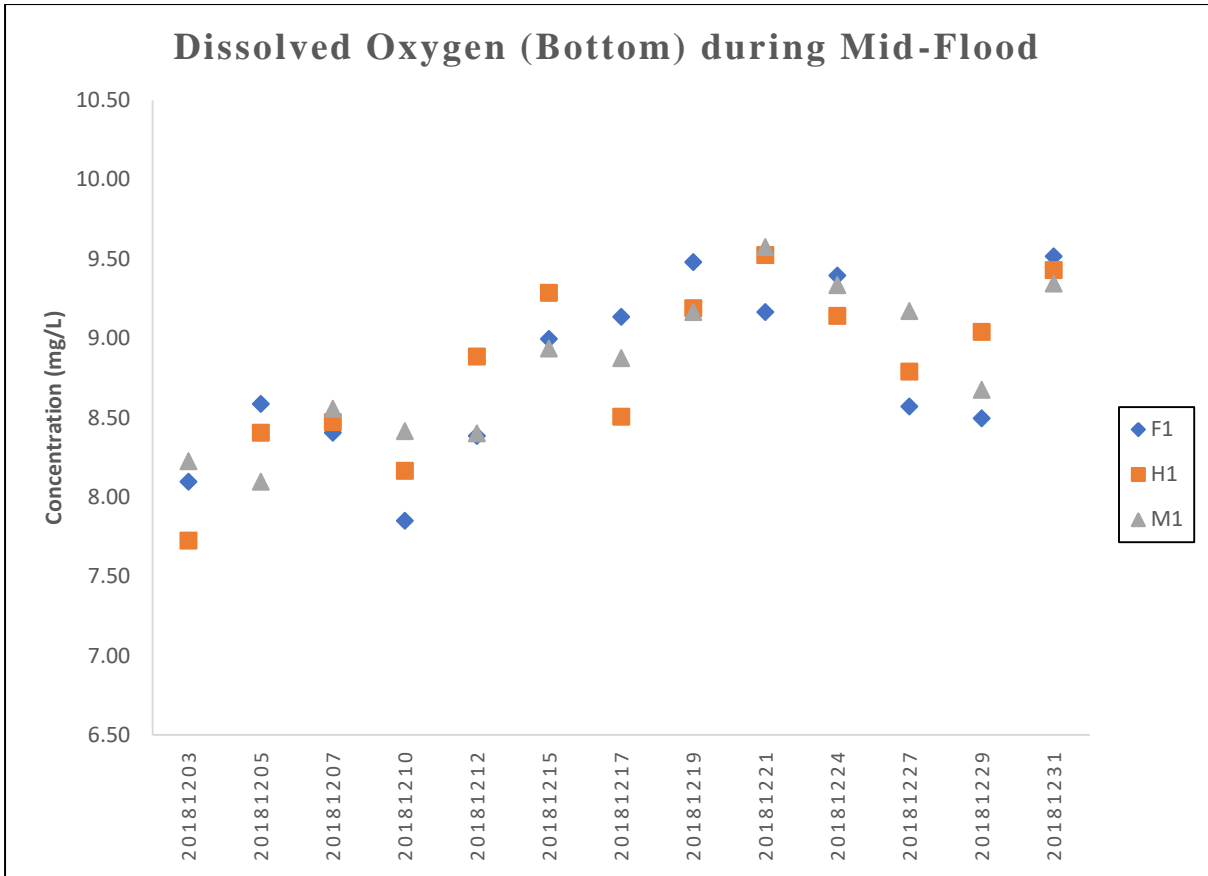
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



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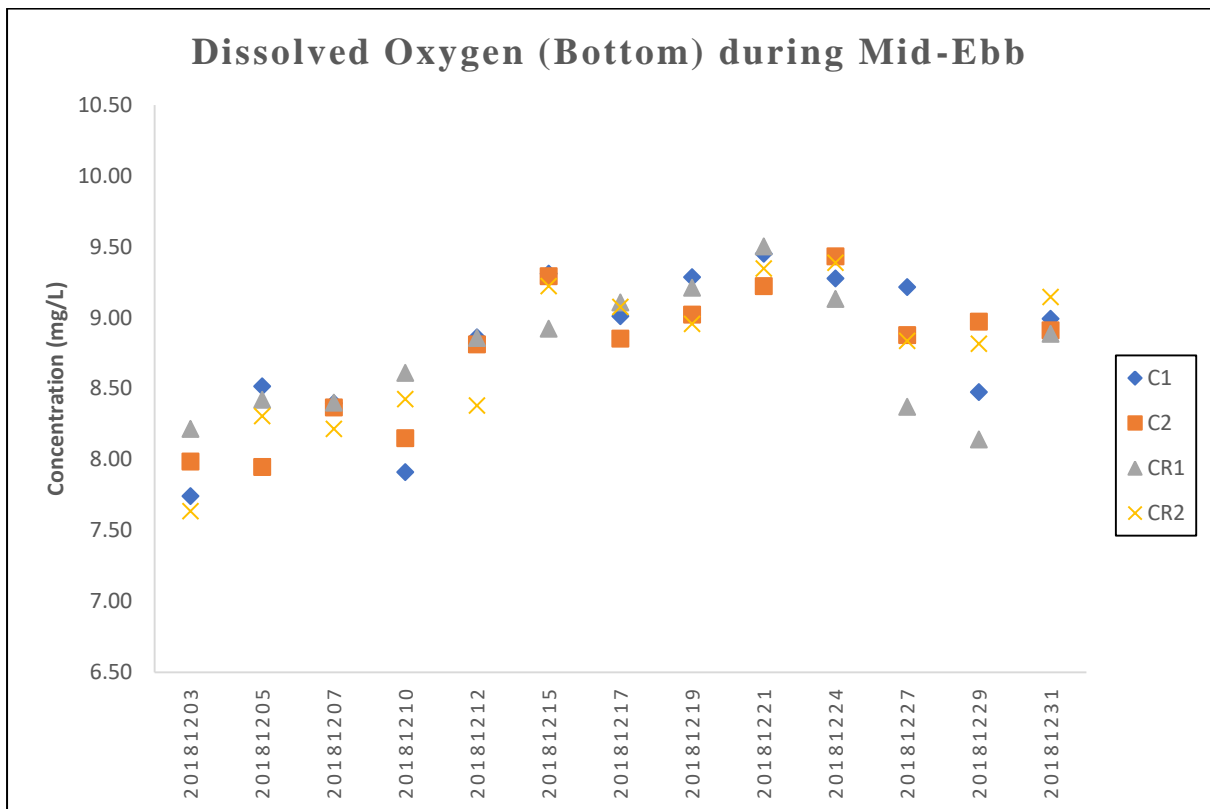
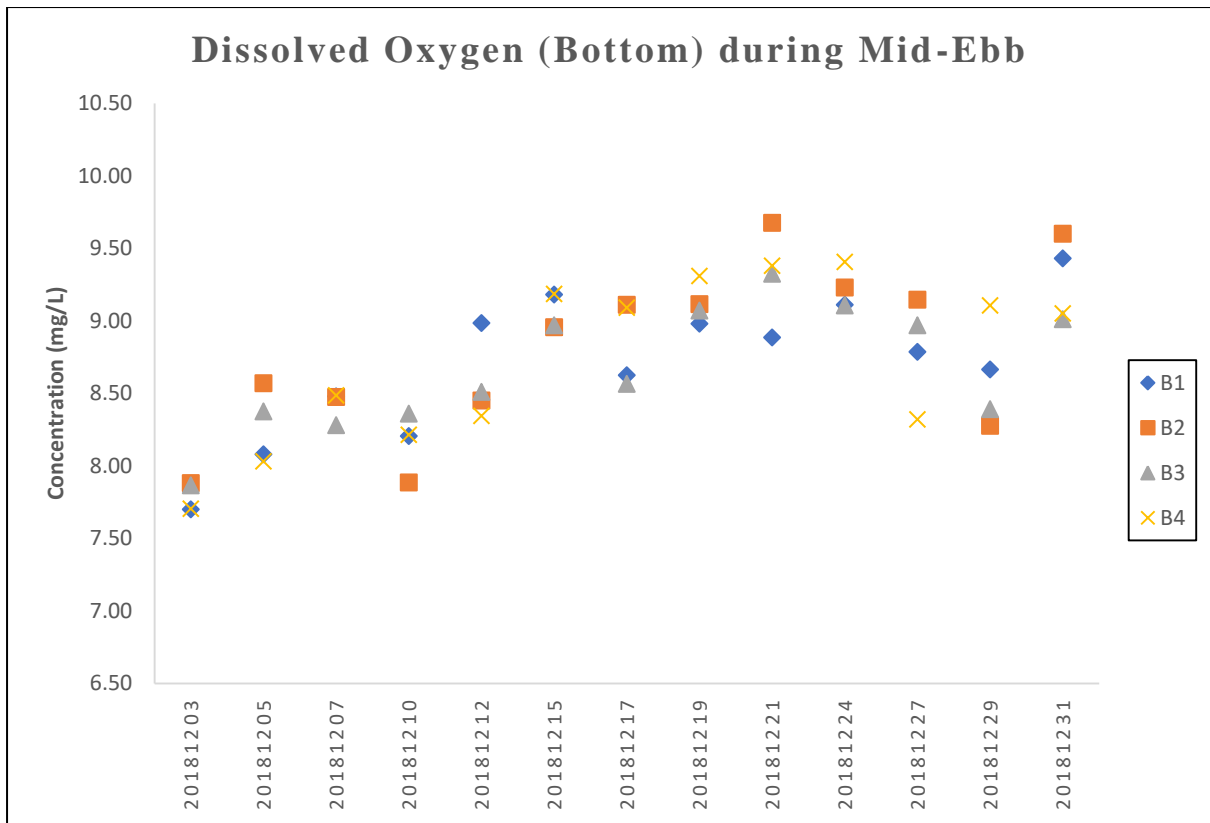


Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.

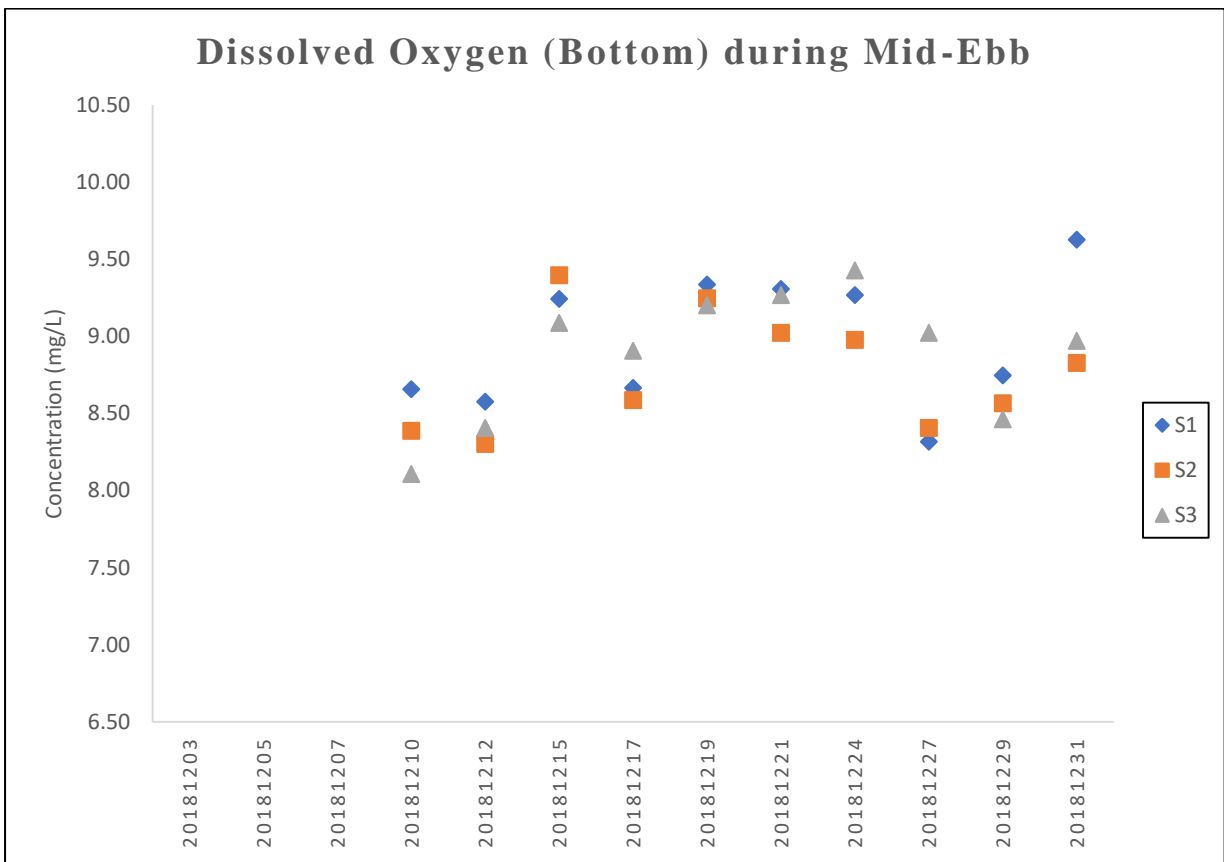
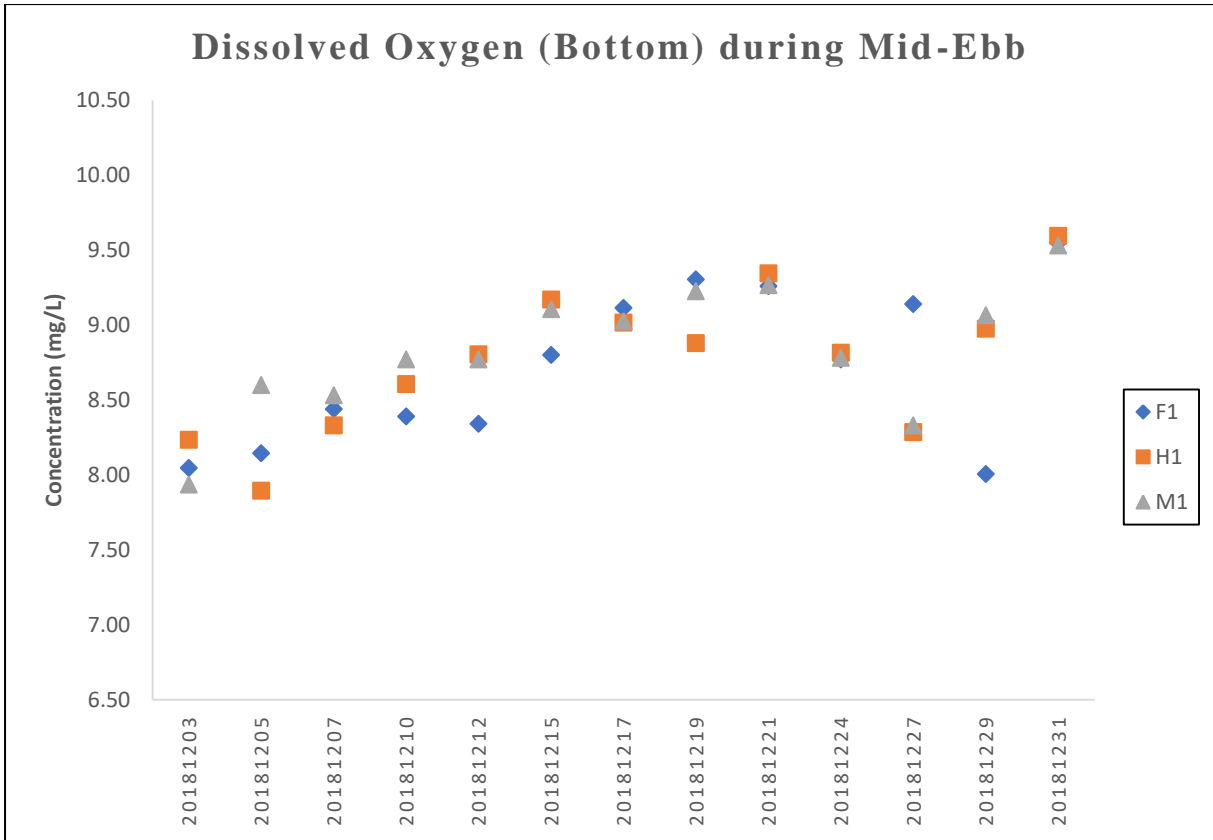


Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



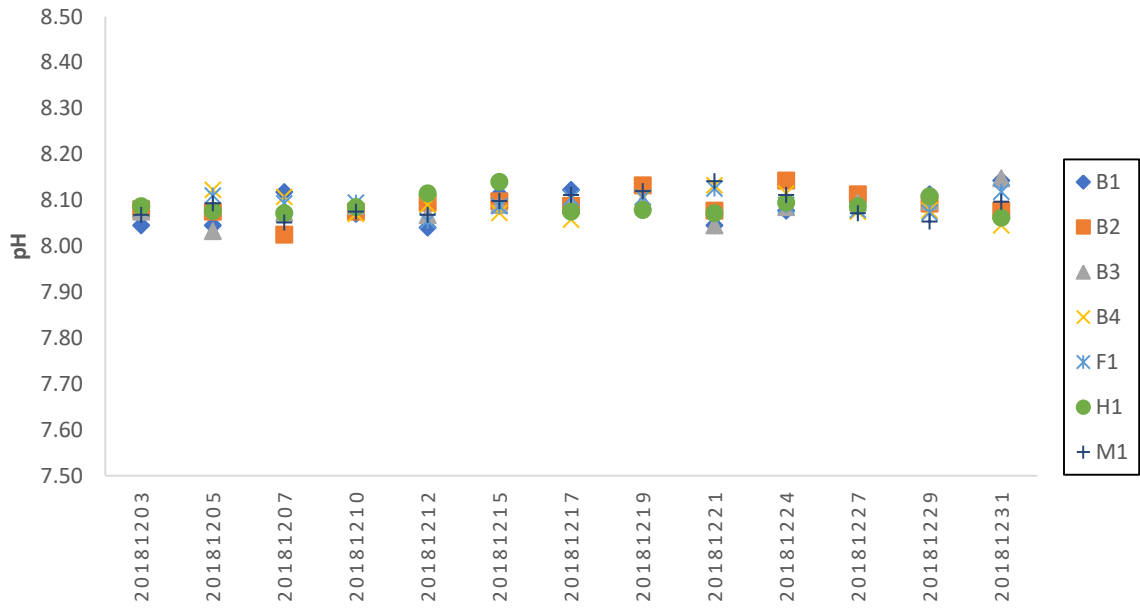


Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.

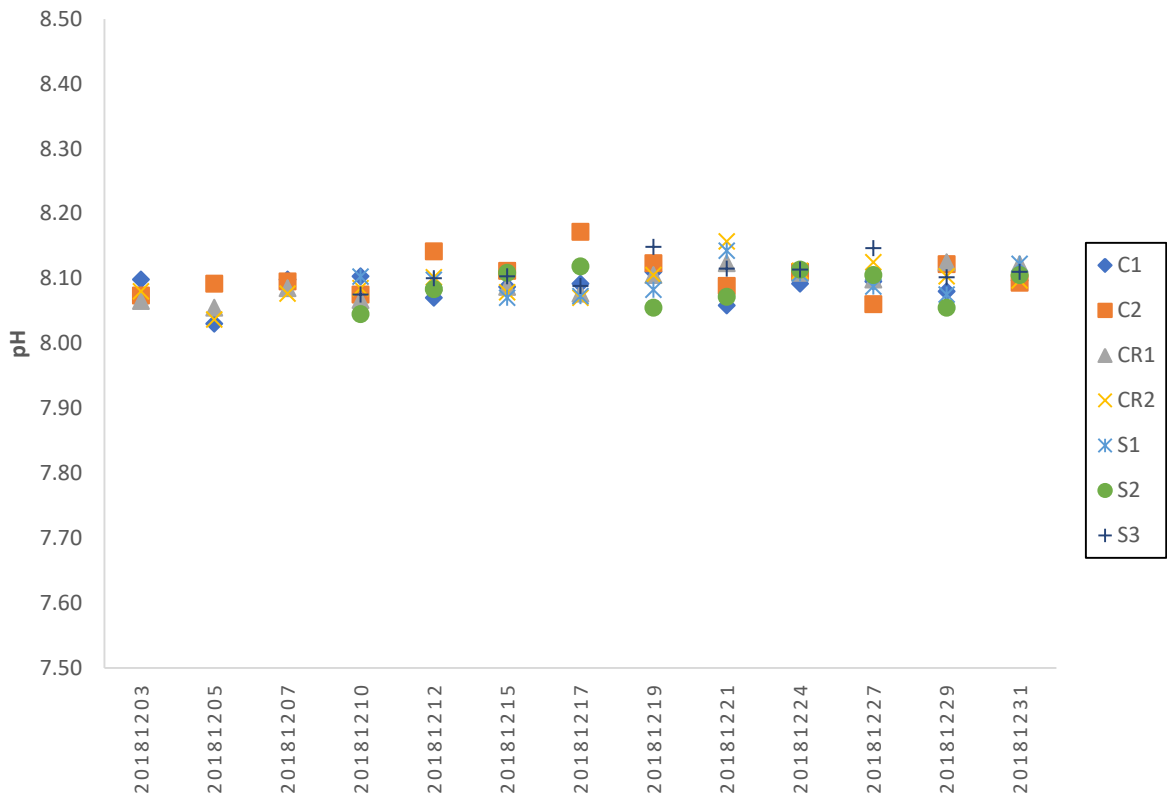


Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.

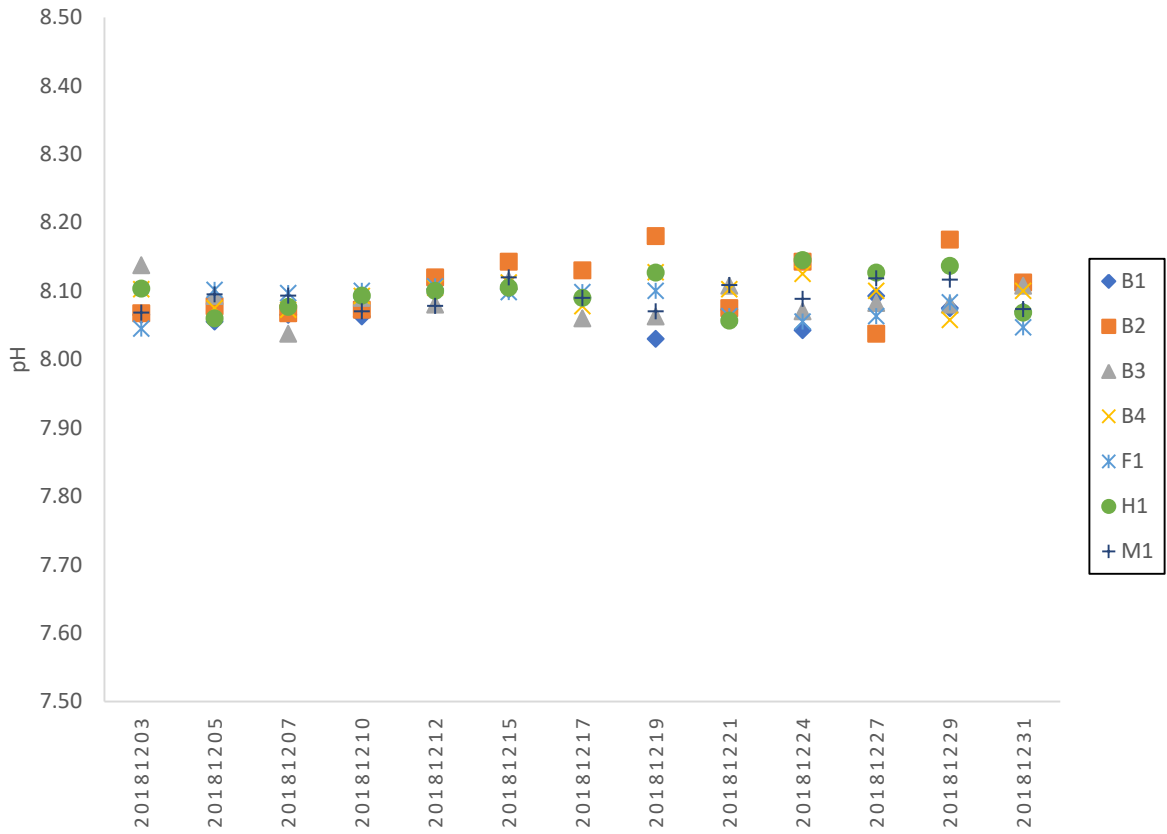
### pH (Depth-Averaged) during Mid-Flood



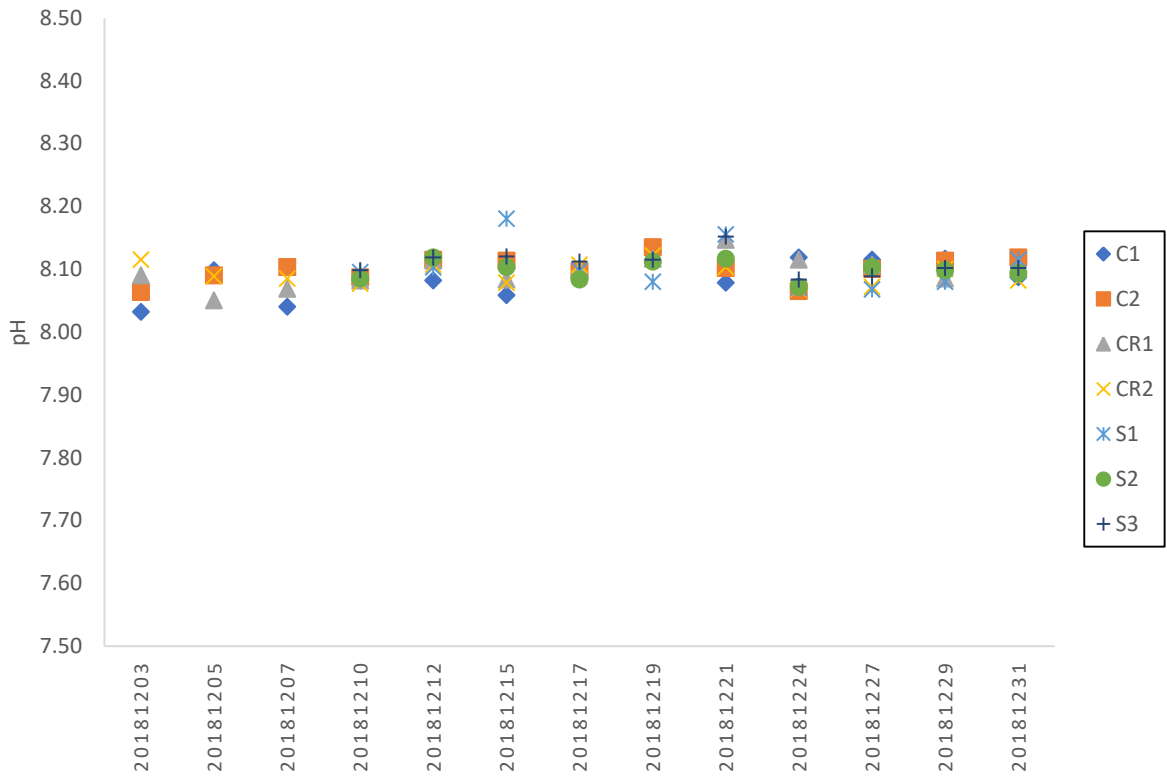
### pH (Depth-Averaged) during Mid-Flood

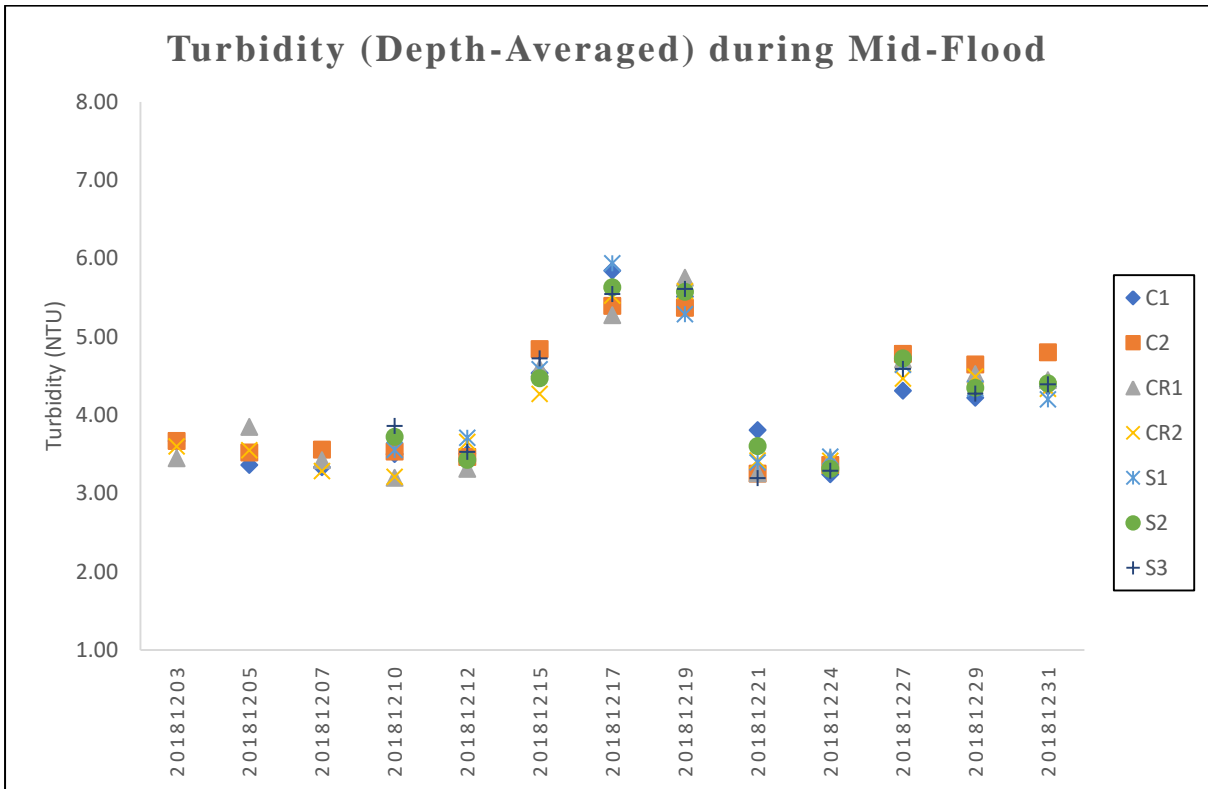
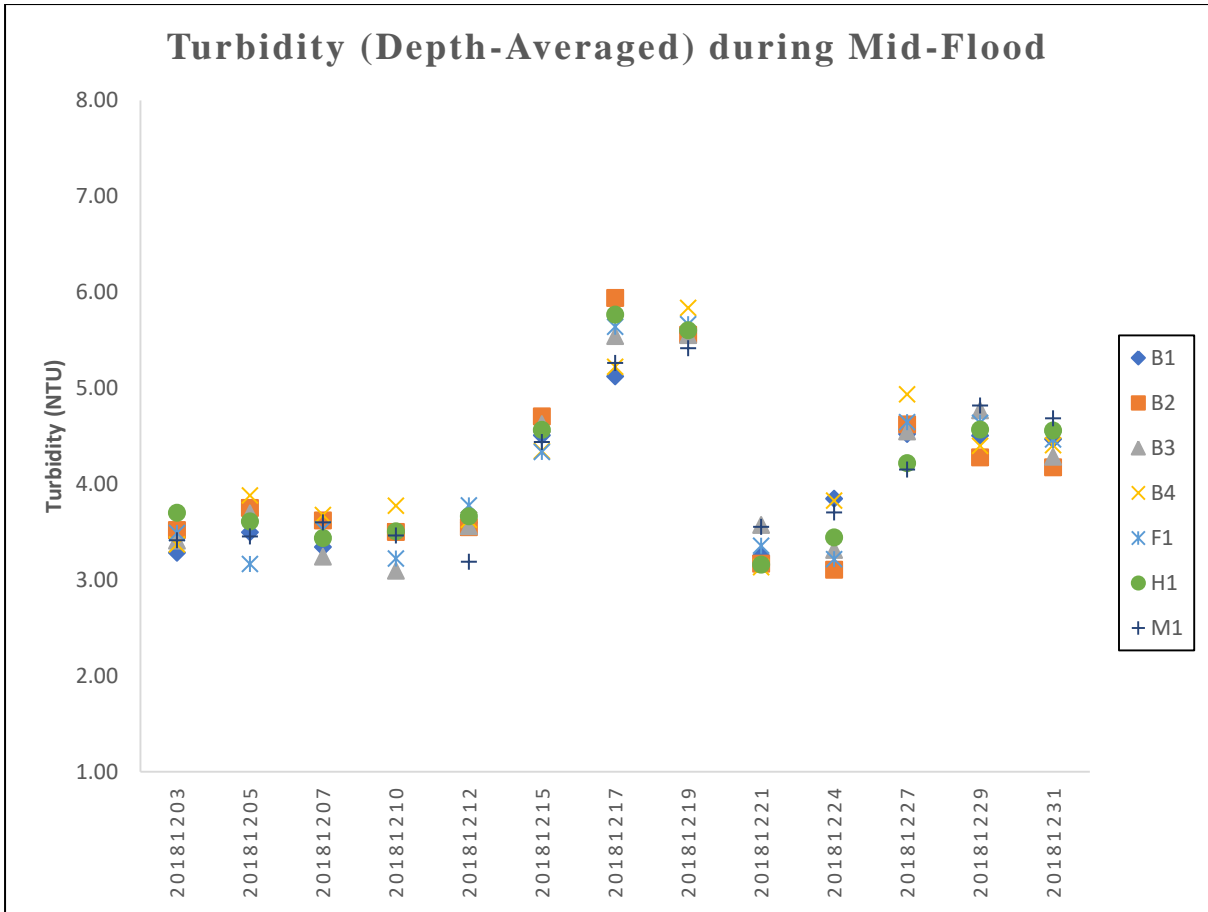


### pH (Depth-Averaged) during Mid-Ebb

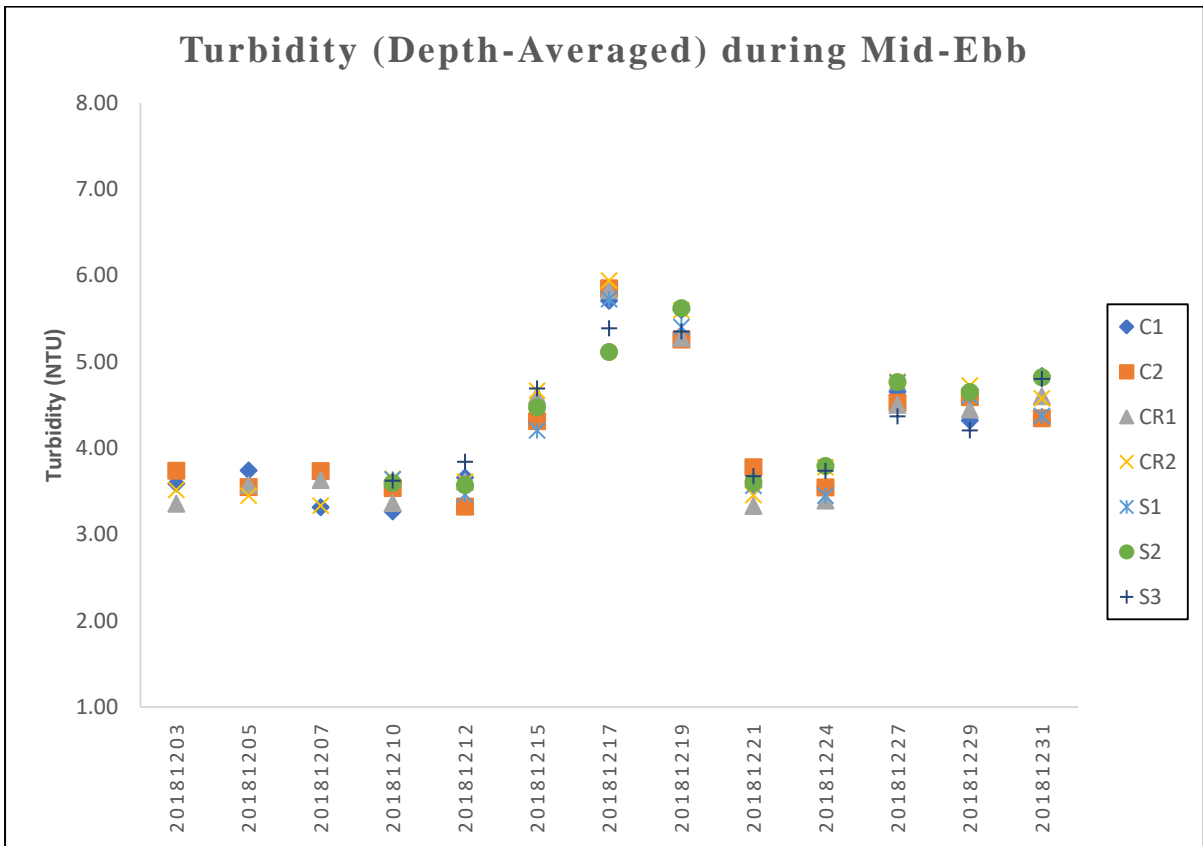
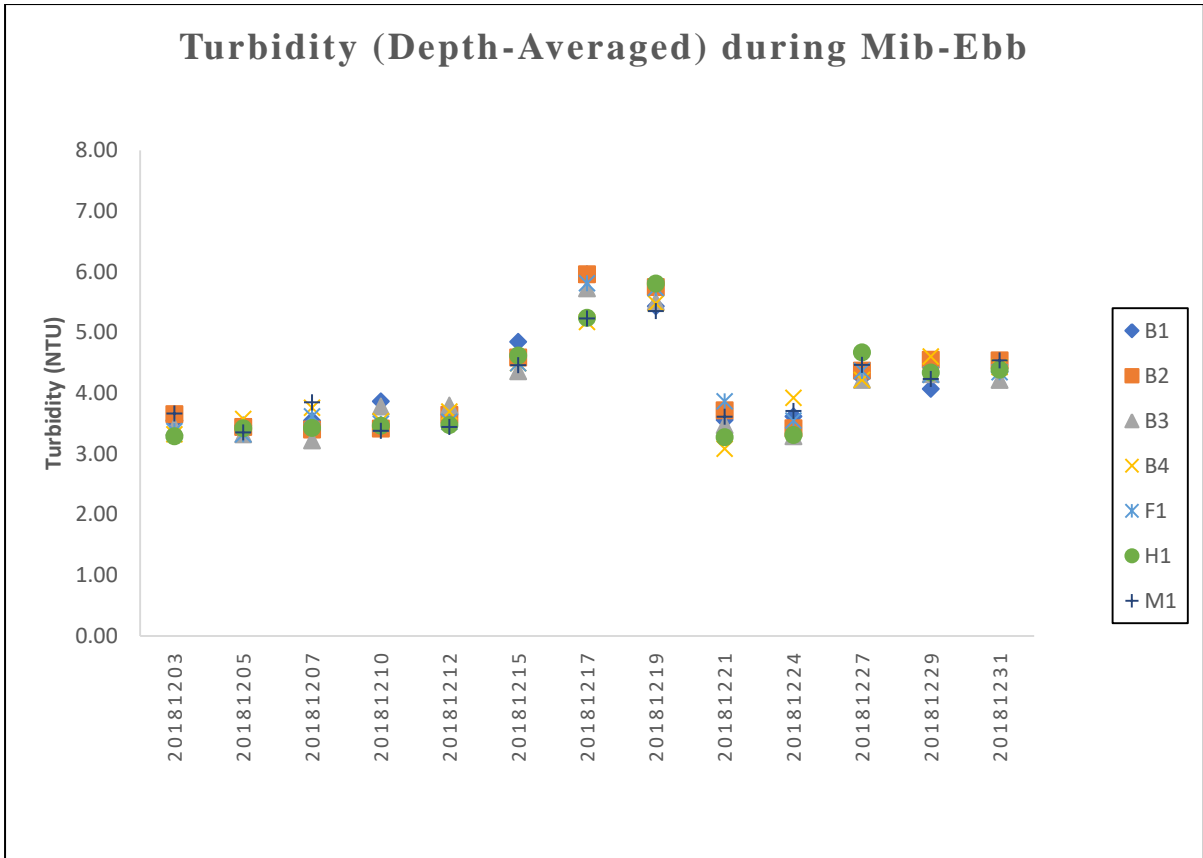


### pH (Depth-Averaged) during Mid-Ebb

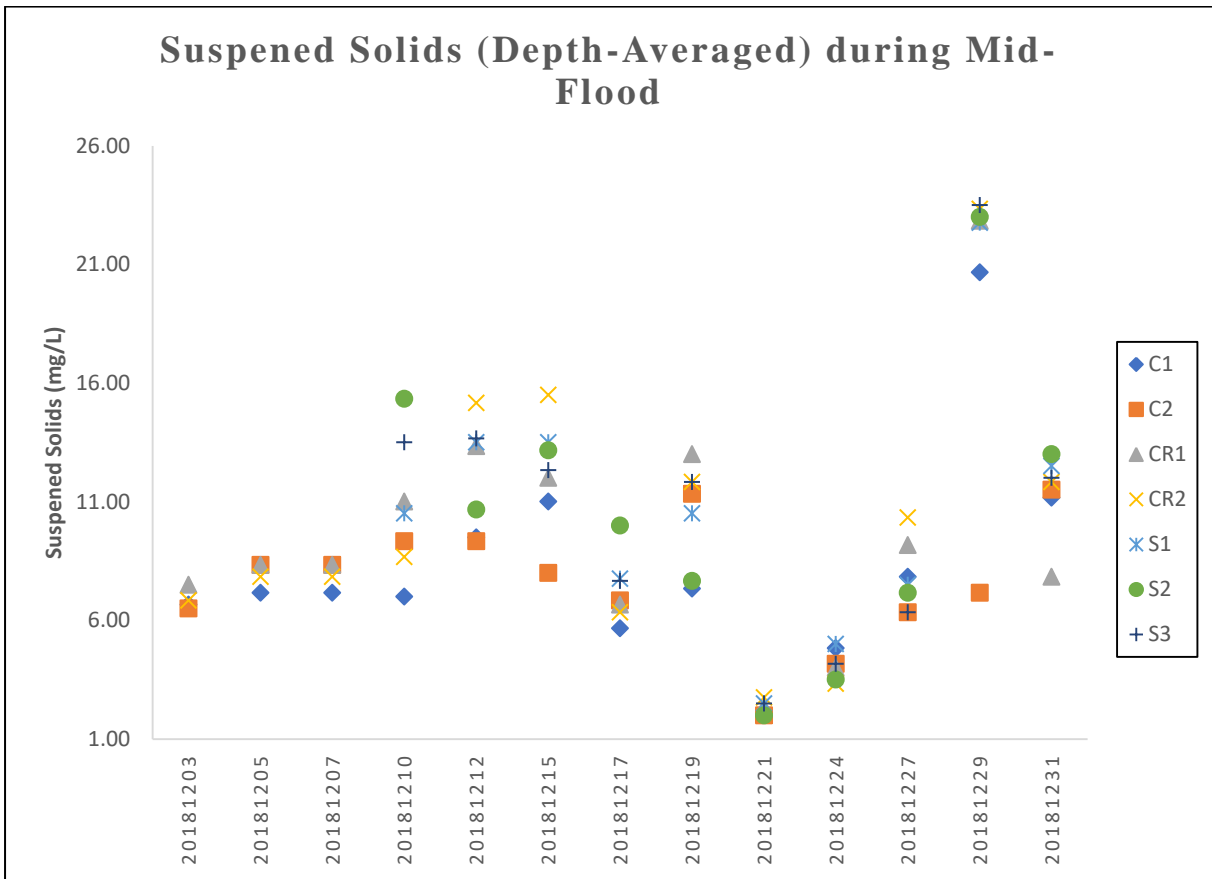
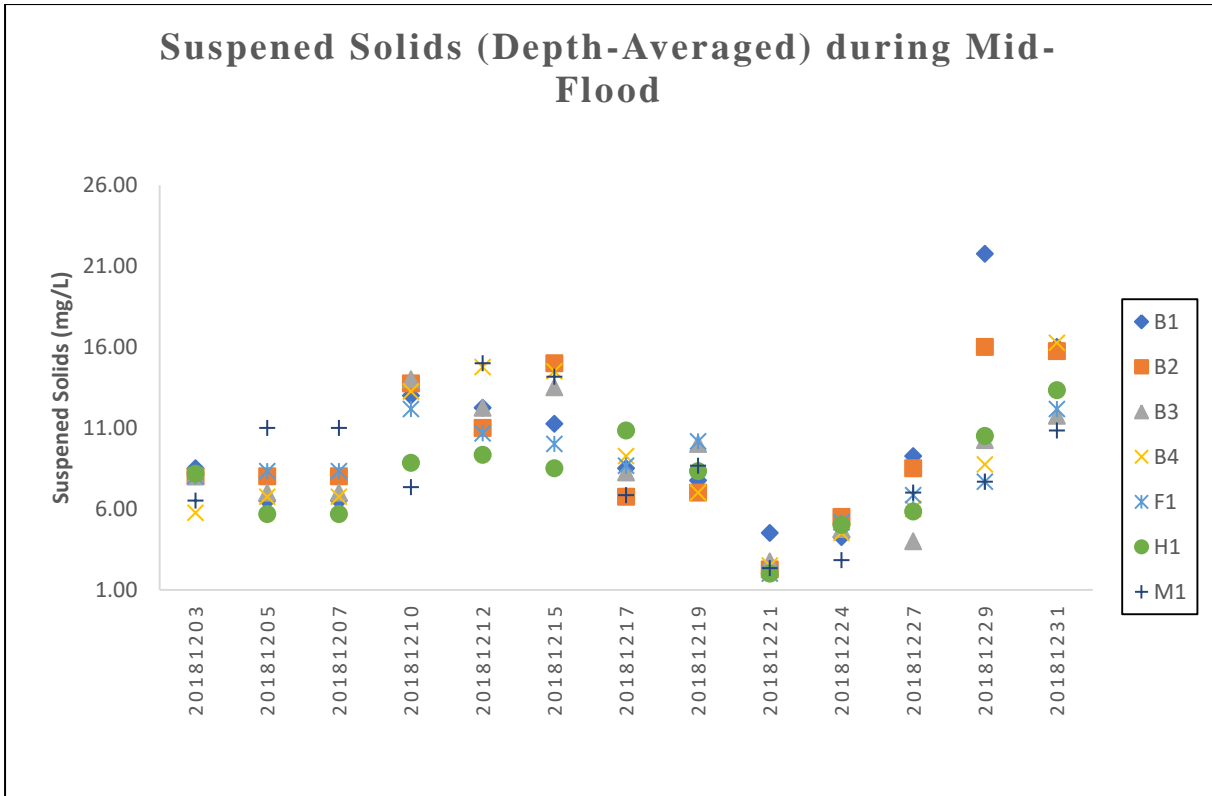




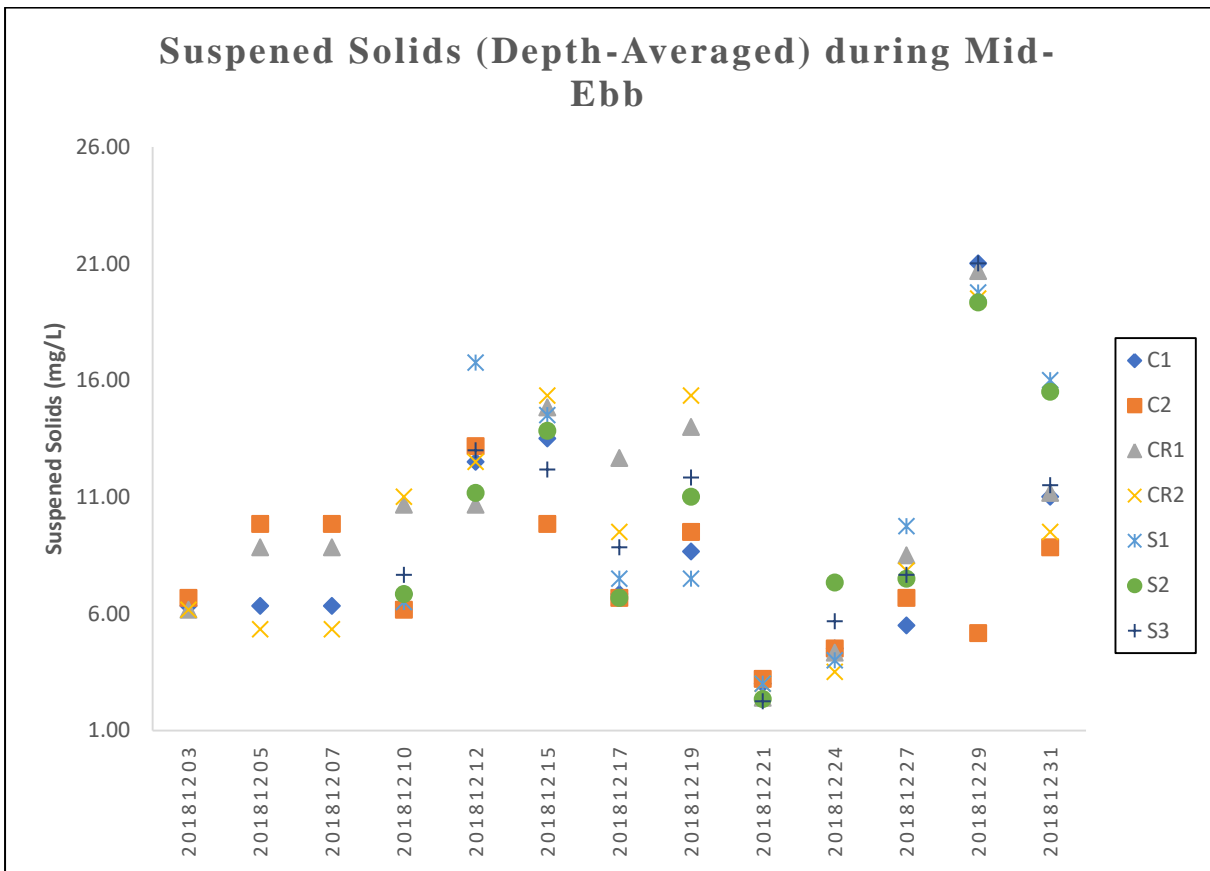
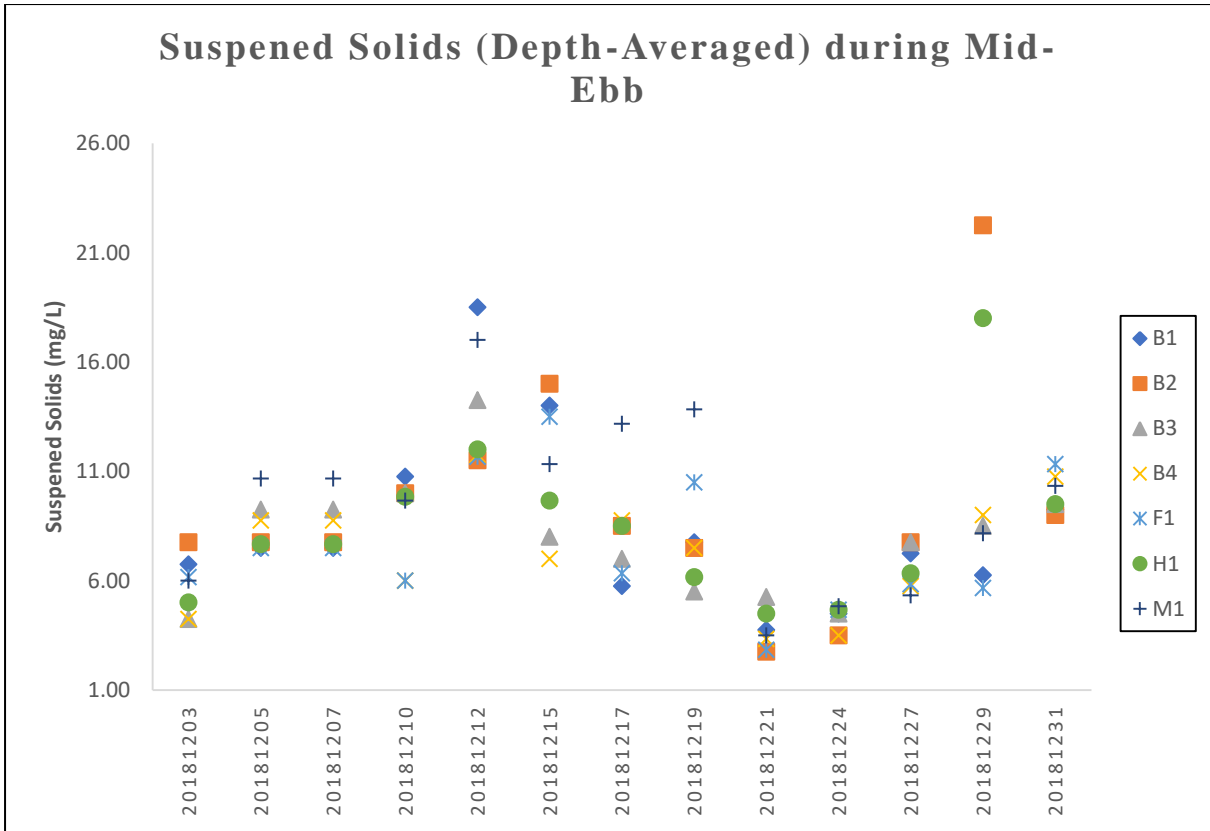
Note: The Action and Limit Level of turbidity can be referred to **Table 2.7** of the monthly EM & A report.



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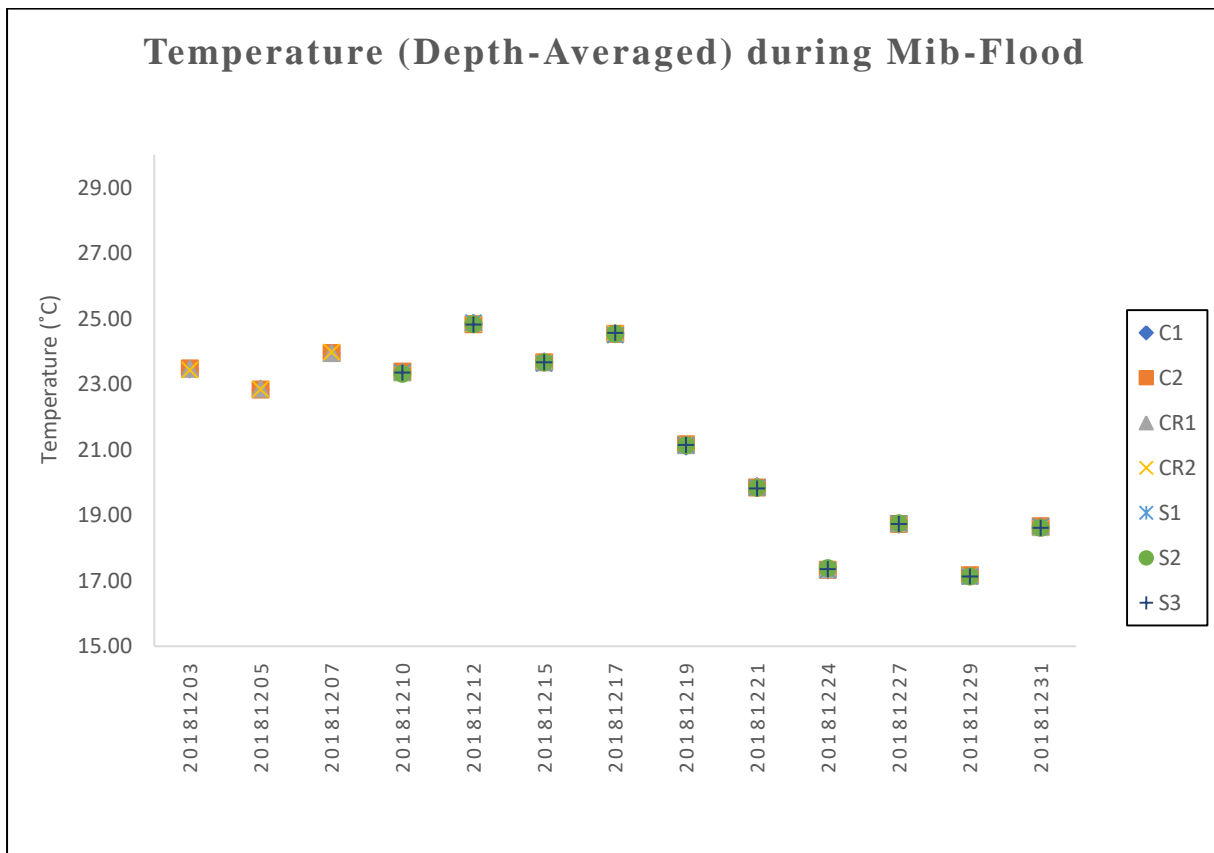
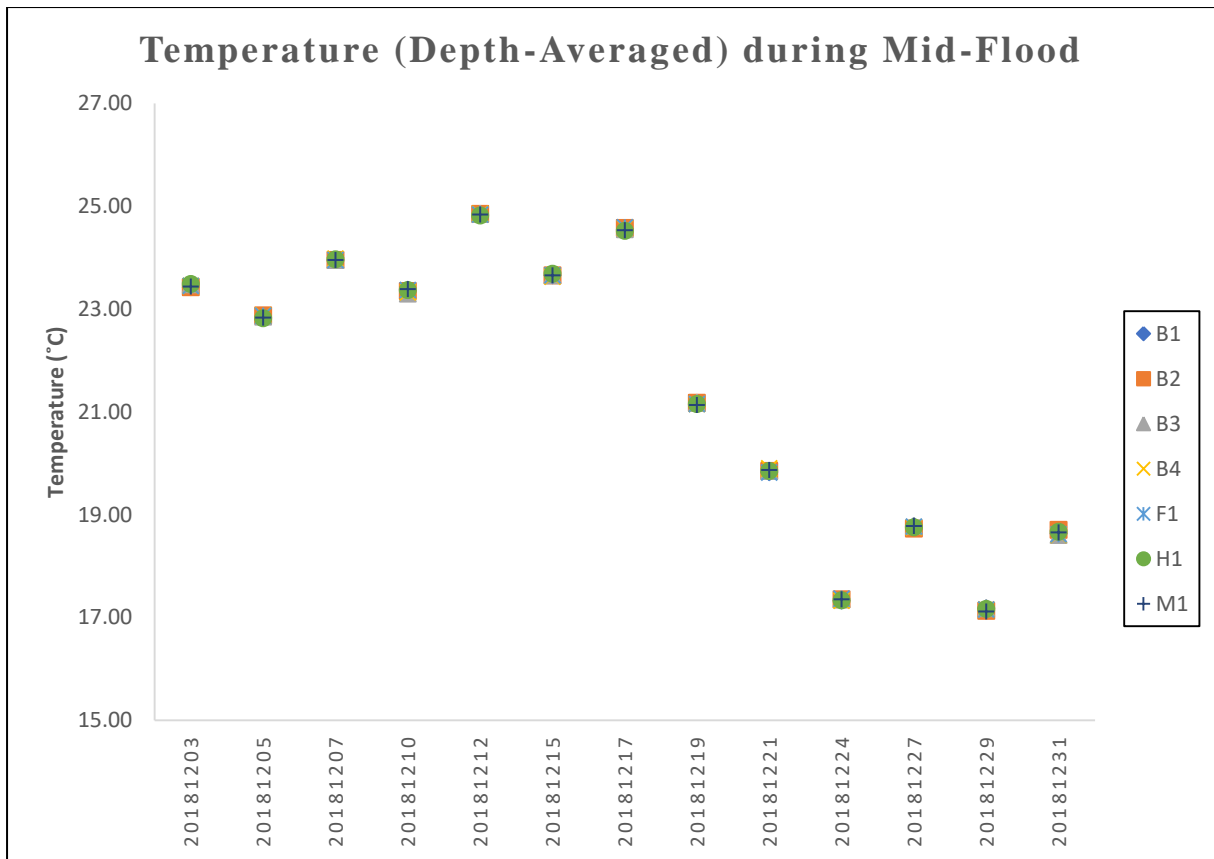


Note: The Action and Limit Level of suspended solids can be referred to **Table 2.7** of the monthly EM & A report.

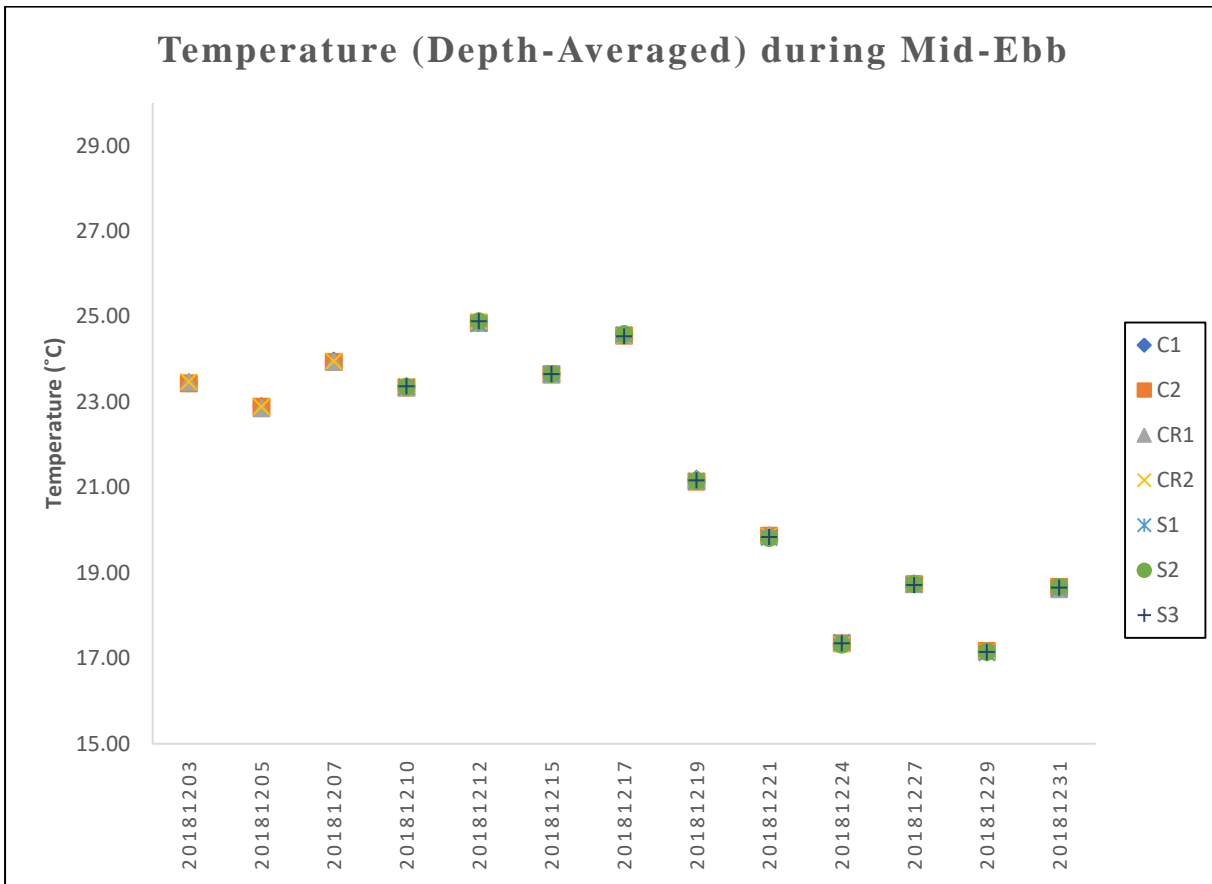
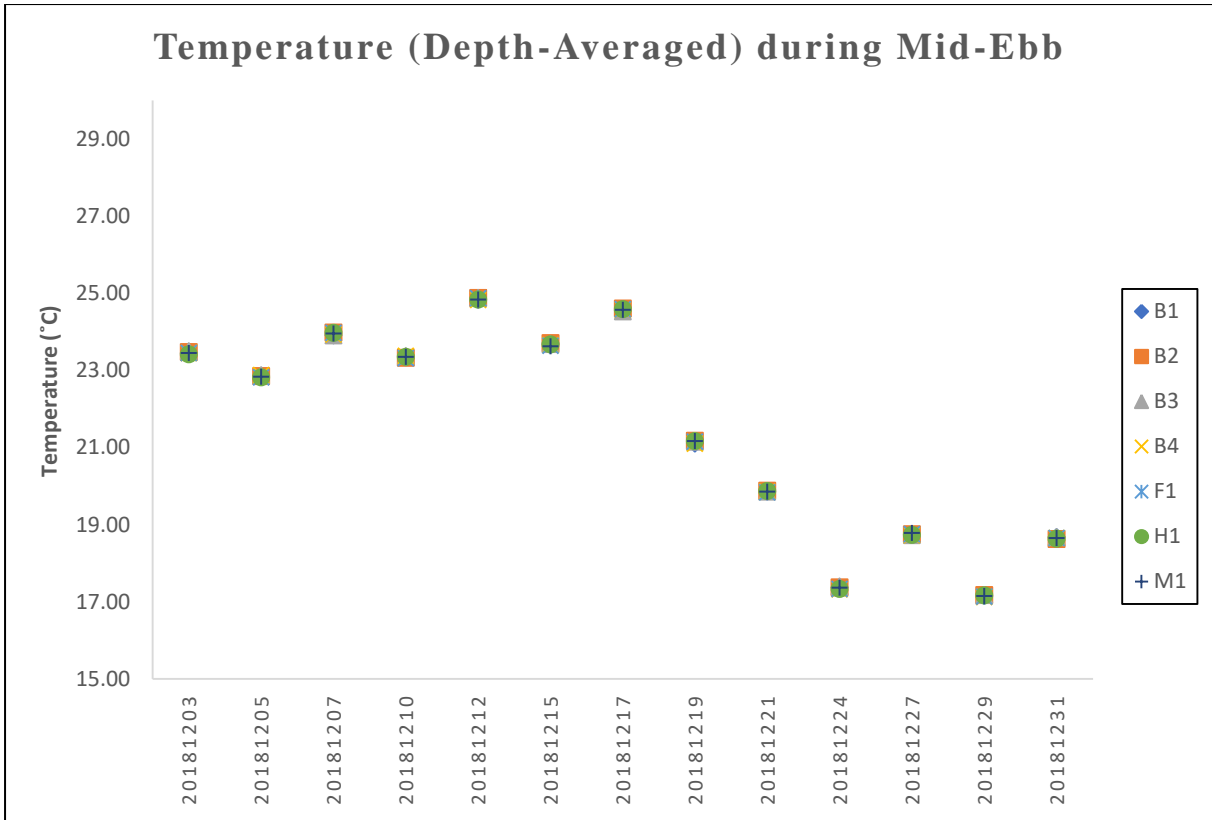


Note: The Action and Limit Level of suspended solids can be referred to **Table 2.7** of the monthly EM & A report.

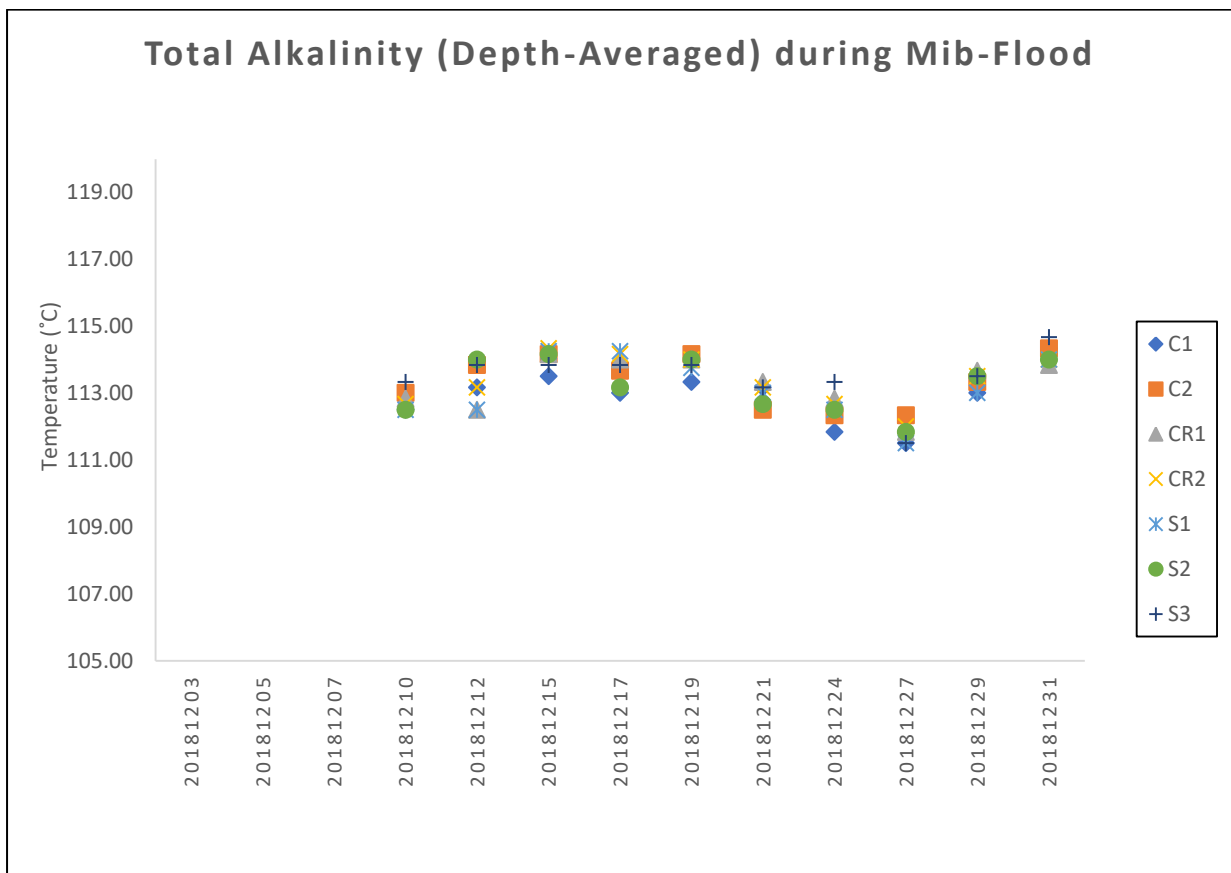
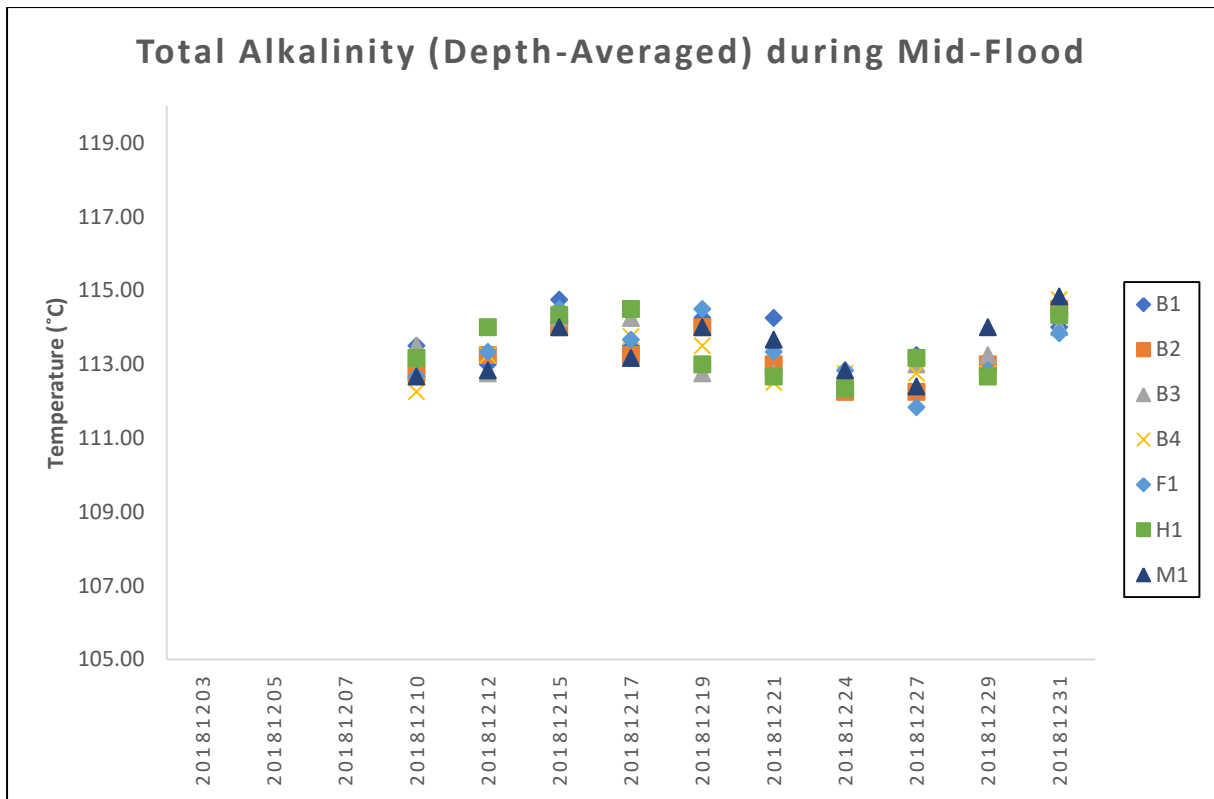




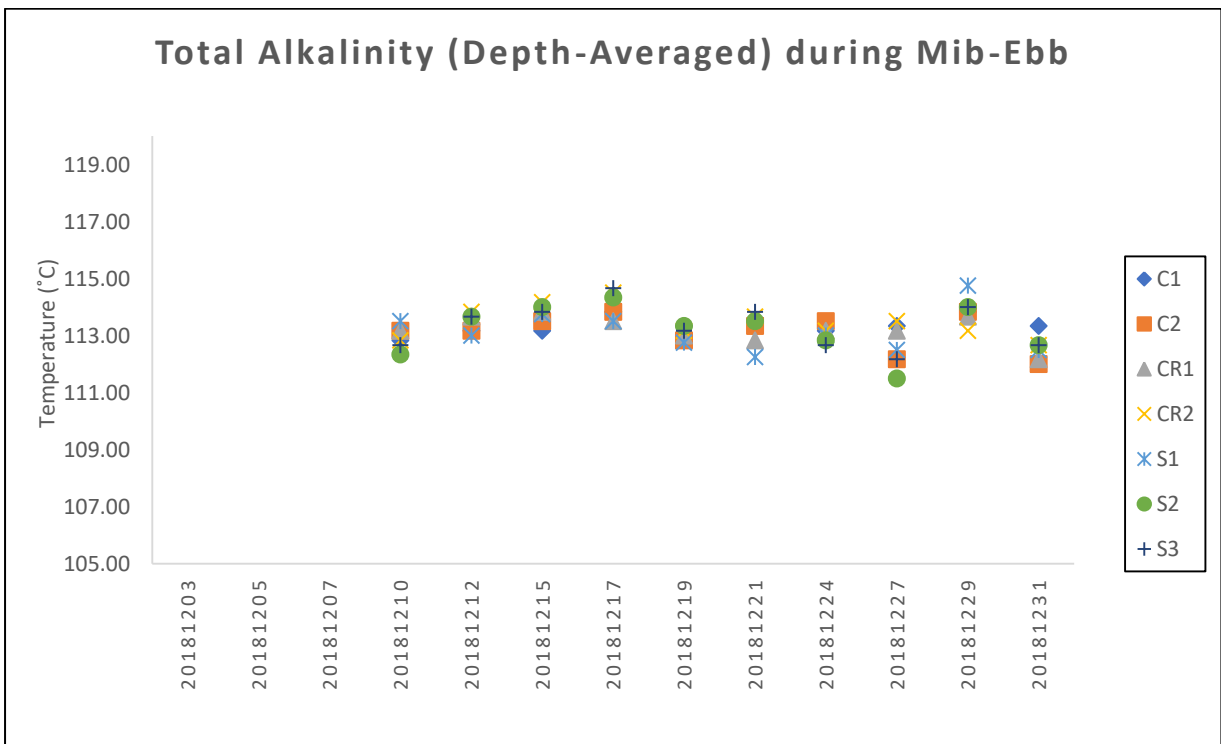
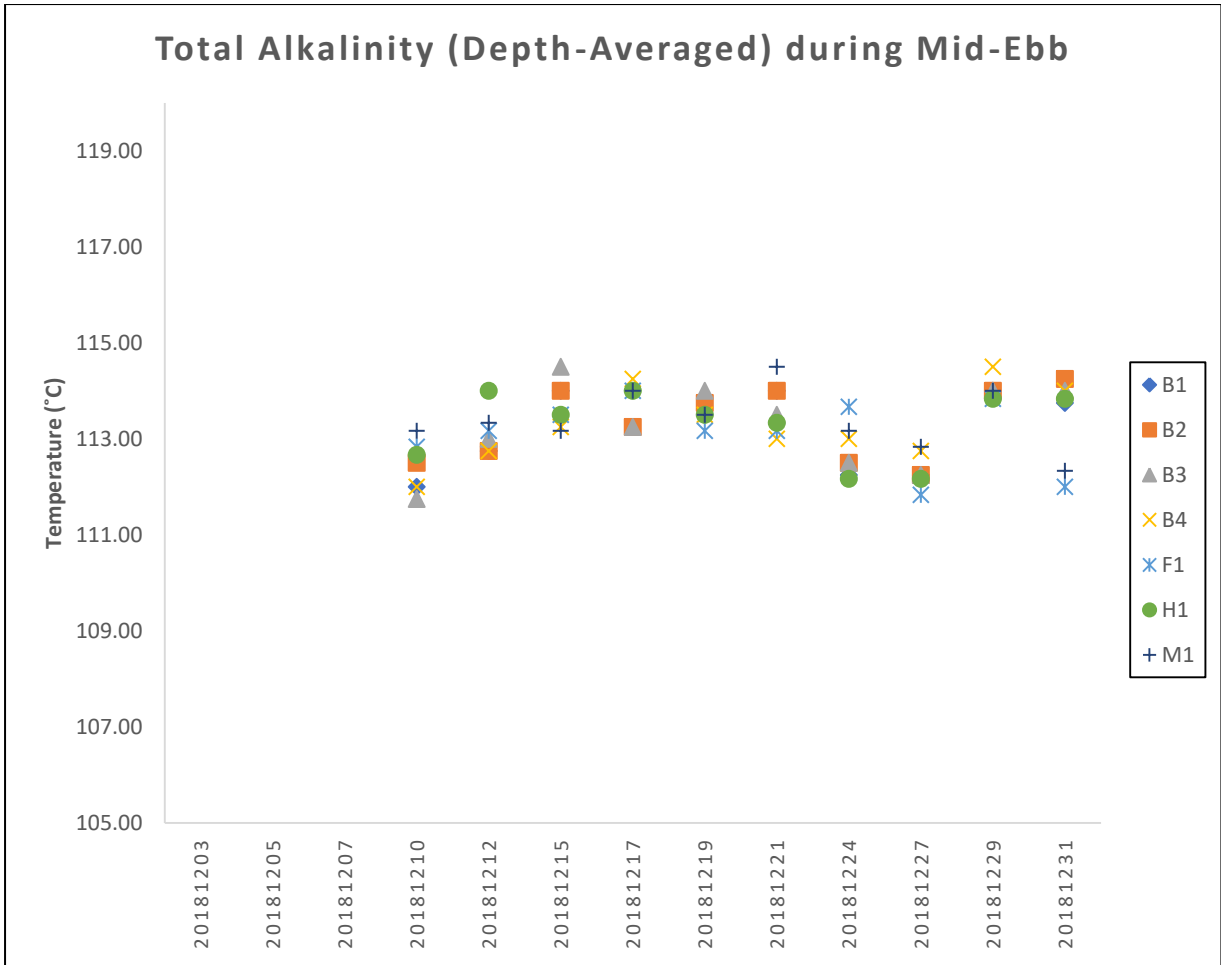
Note: The Action and Limit Level of temperature can be referred to **Table 2.7** of the monthly EM & A report.



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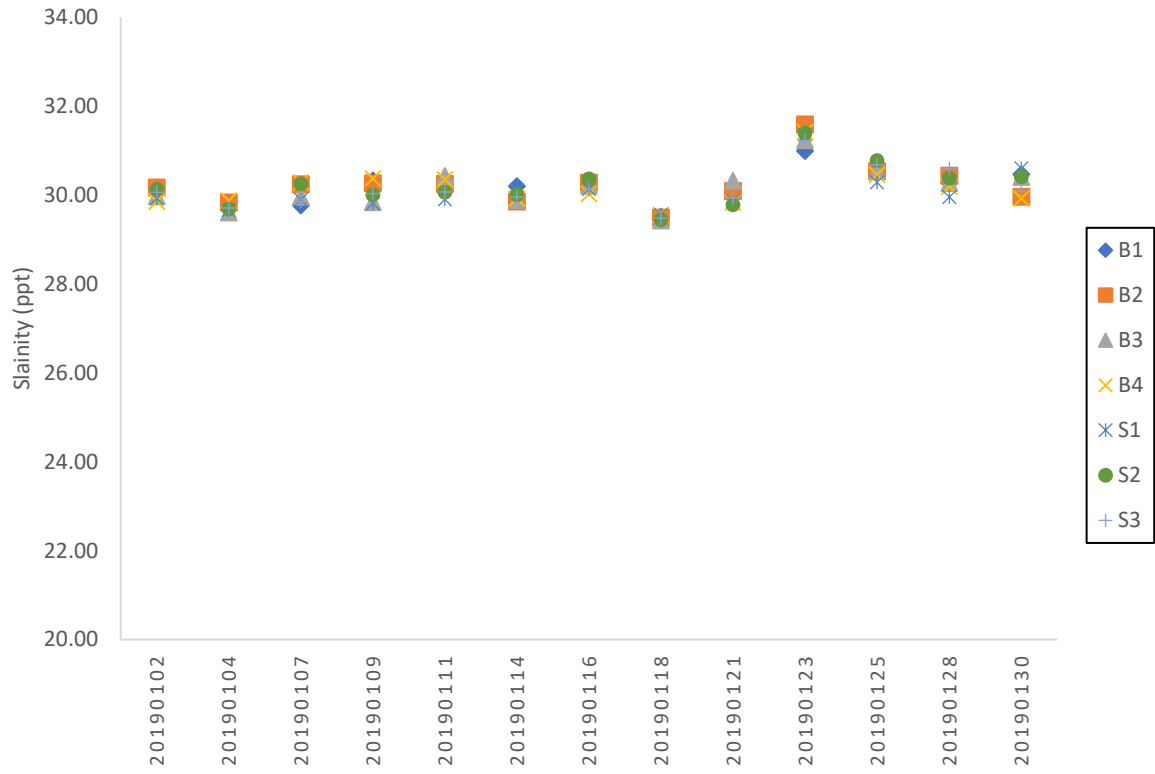
Note: The Action and Limit Level of total alkalinity can be referred to **Table 2.7** of the monthly EM & A report.



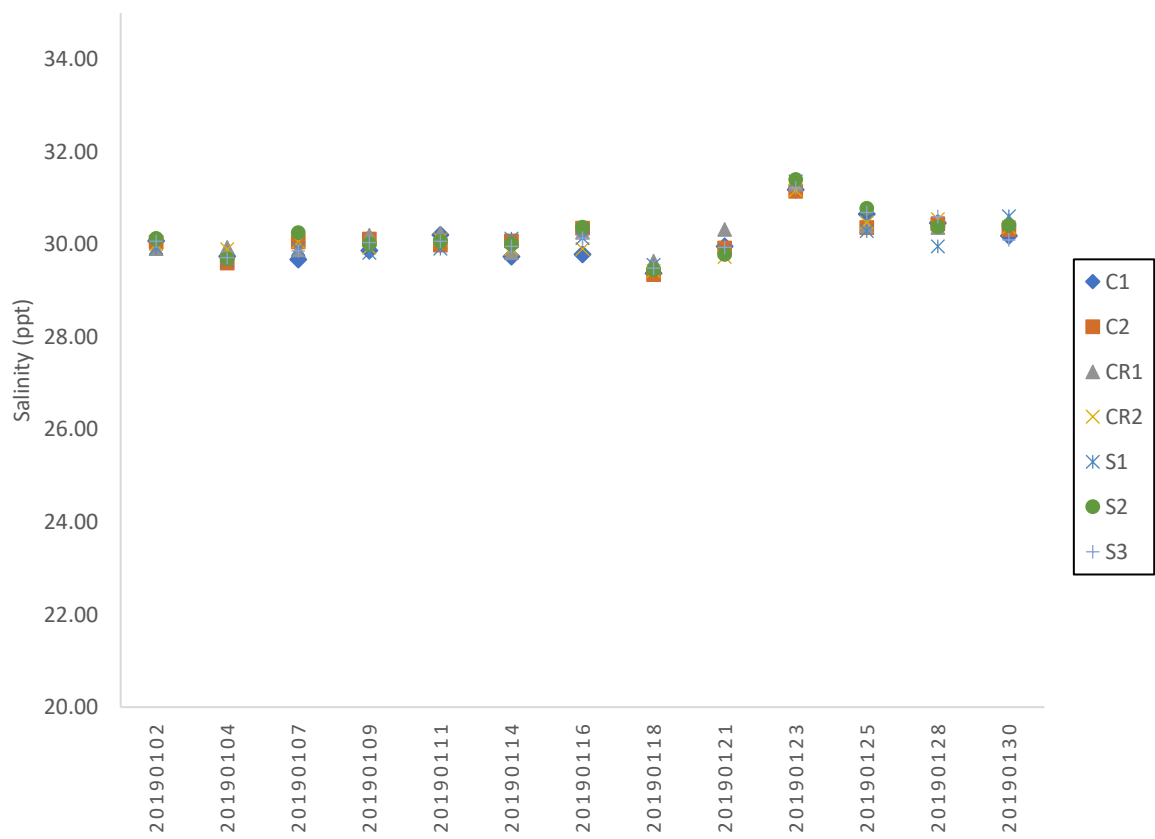
Note: The Action and Limit Level of total alkalinity can be referred to **Table 2.7** of the monthly EM & A report.

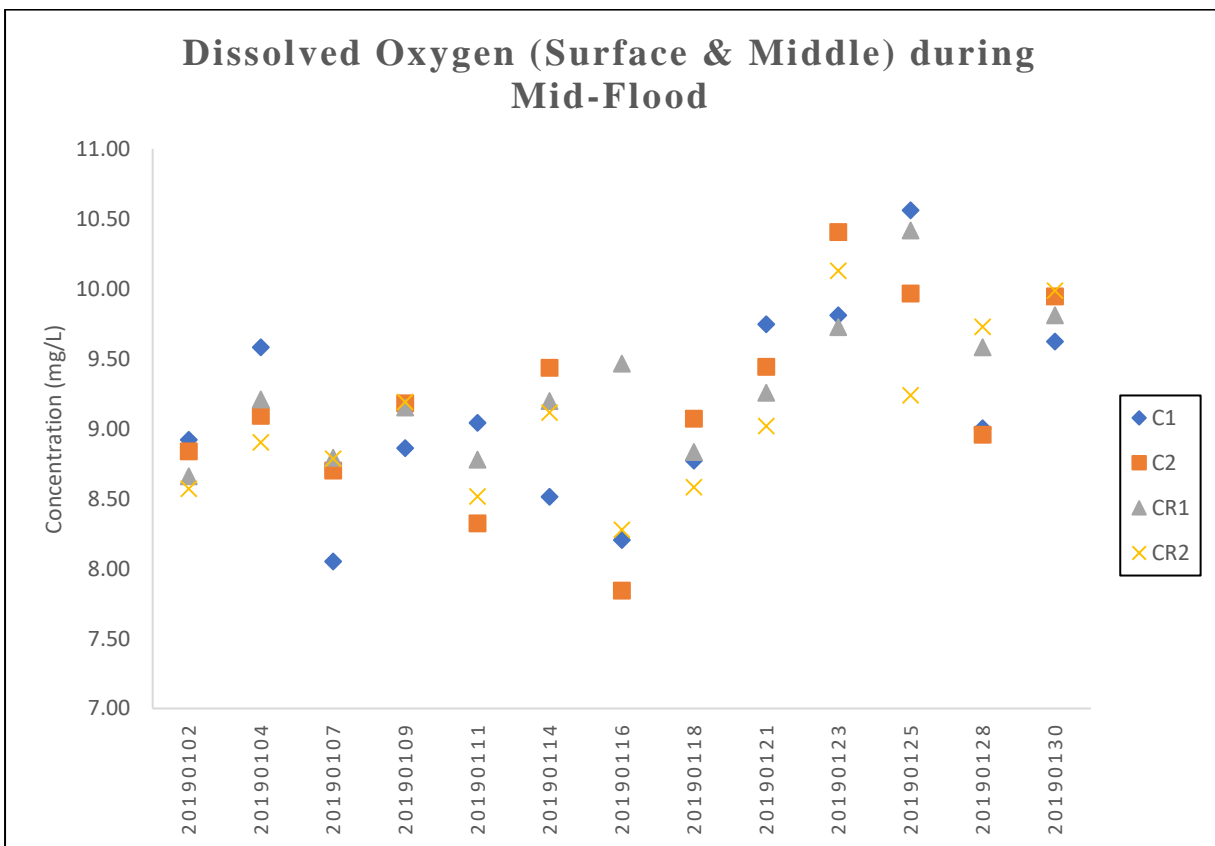
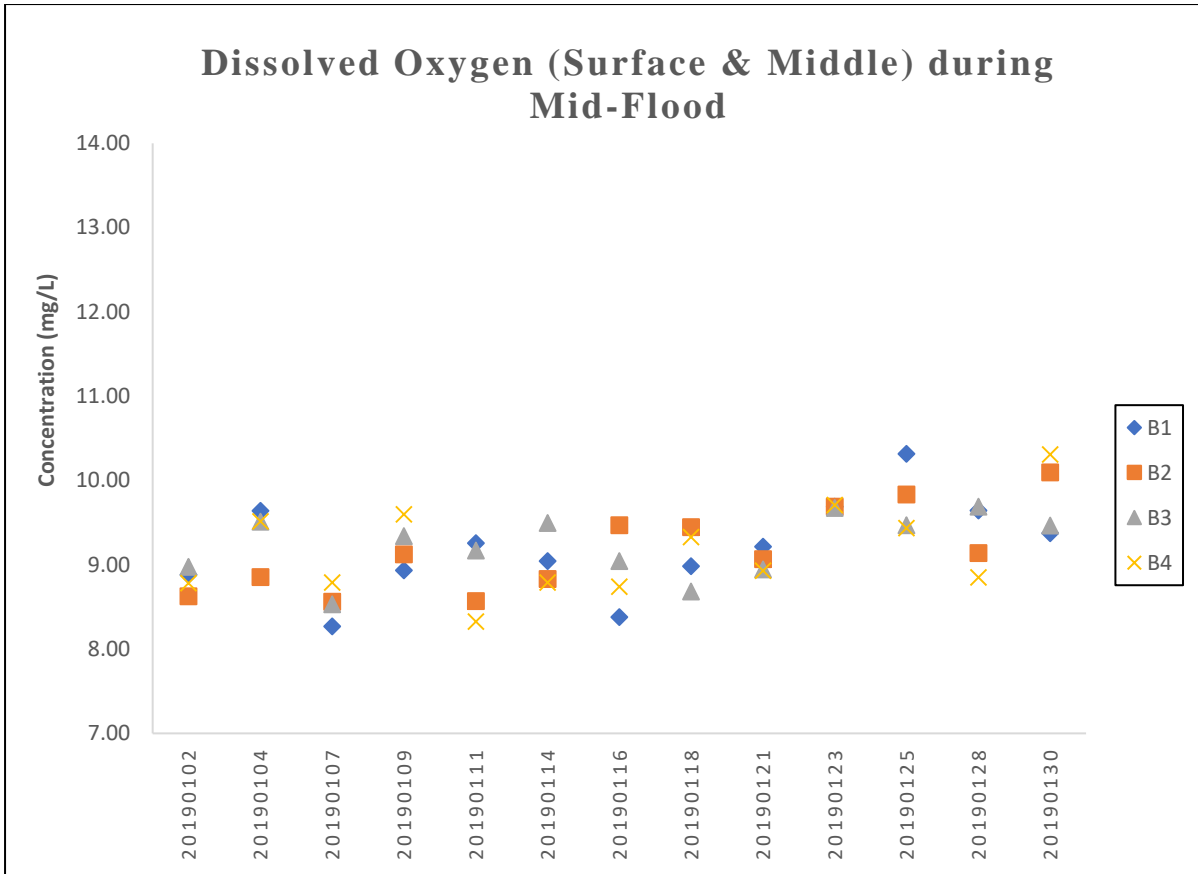


### Salinity (Depth-averaged) during Mid-Ebb

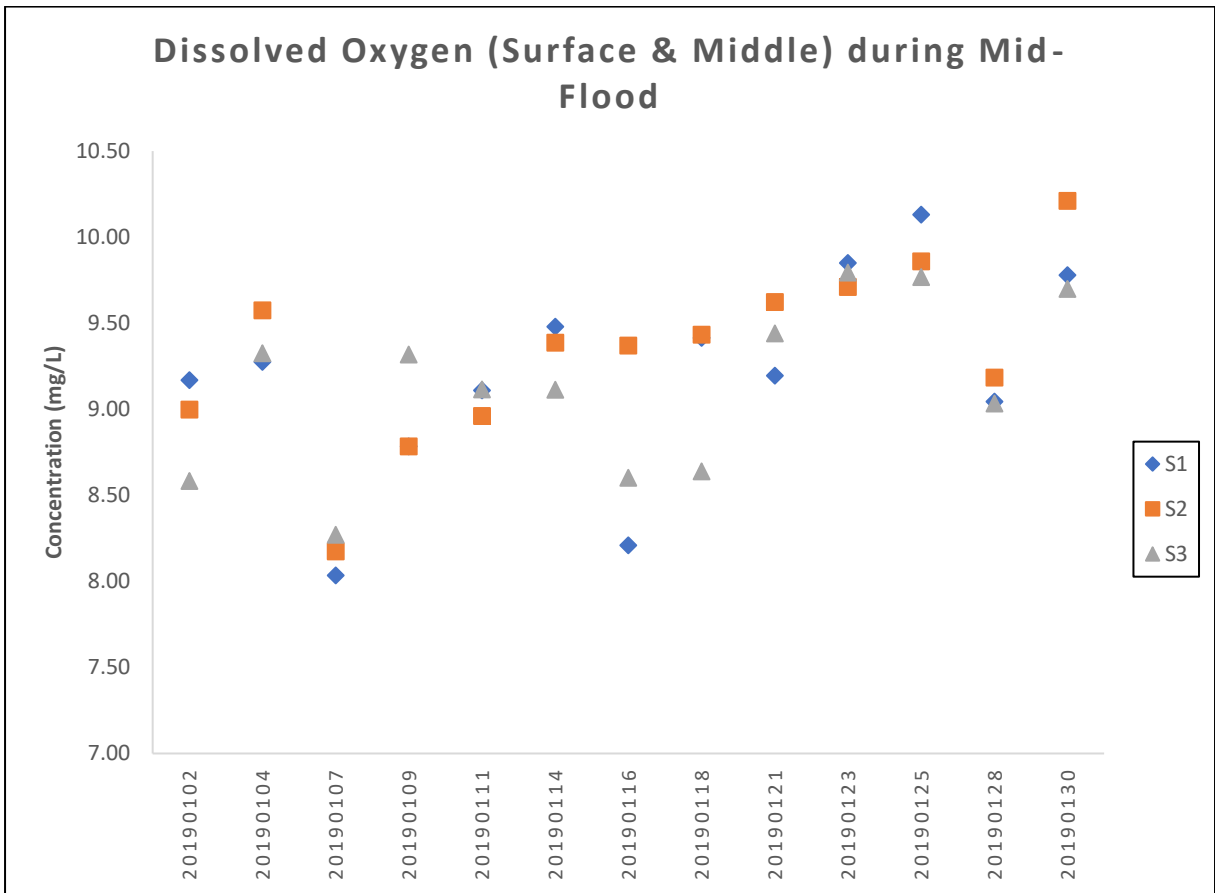
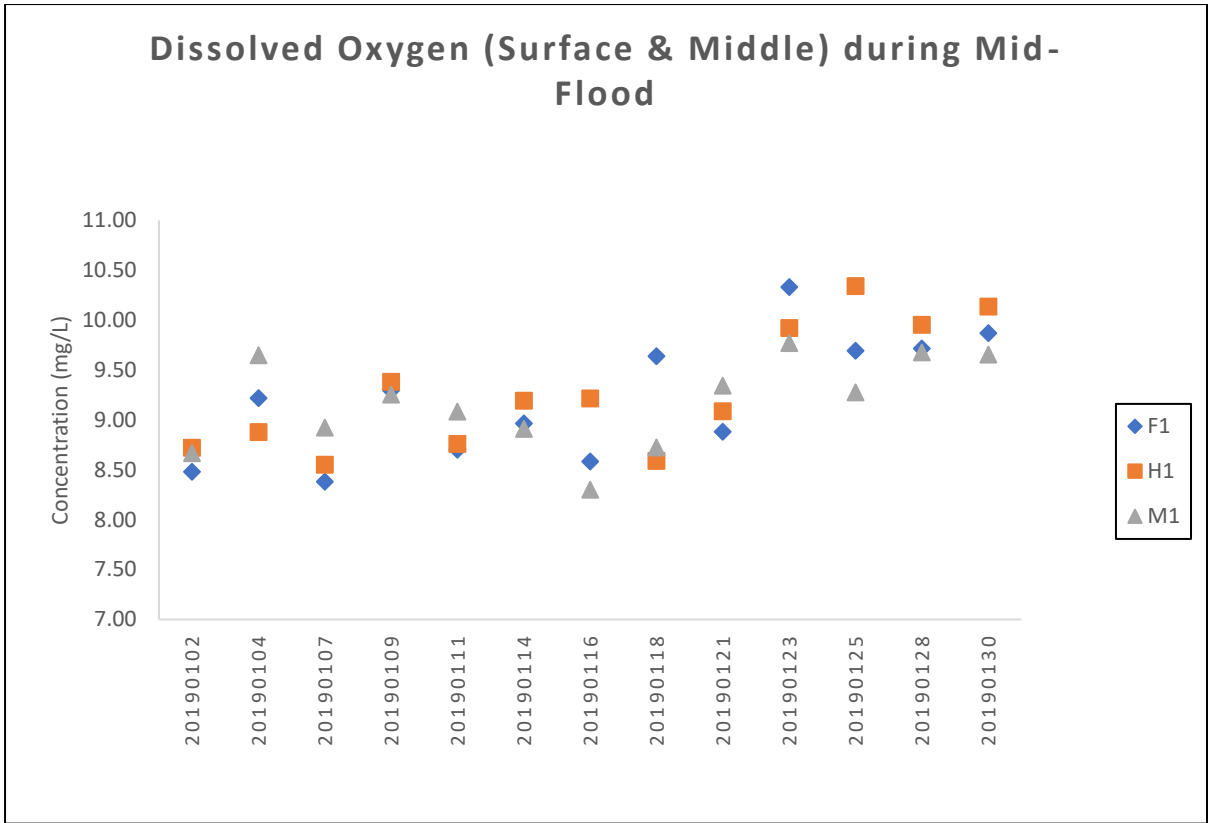


### Salinity (Depth-averaged) during Mid-Ebb



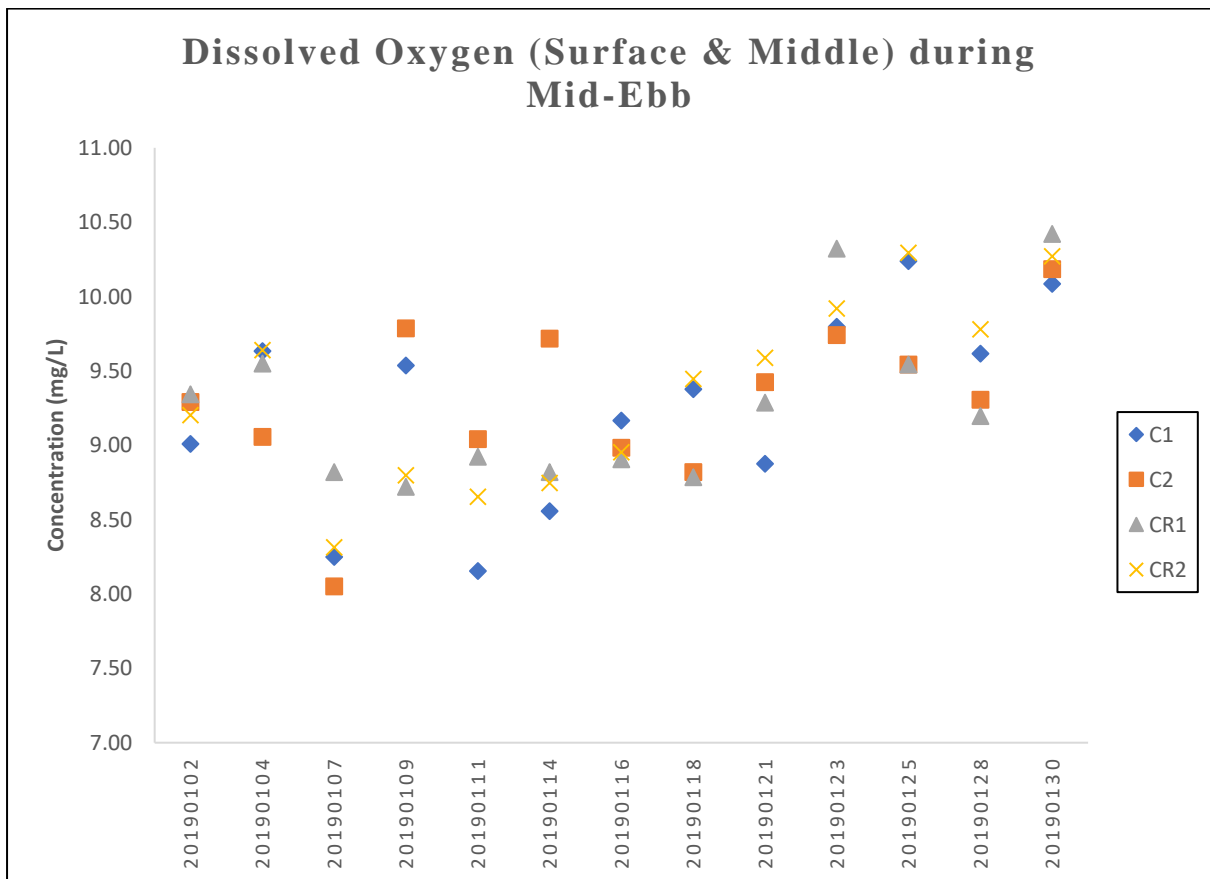
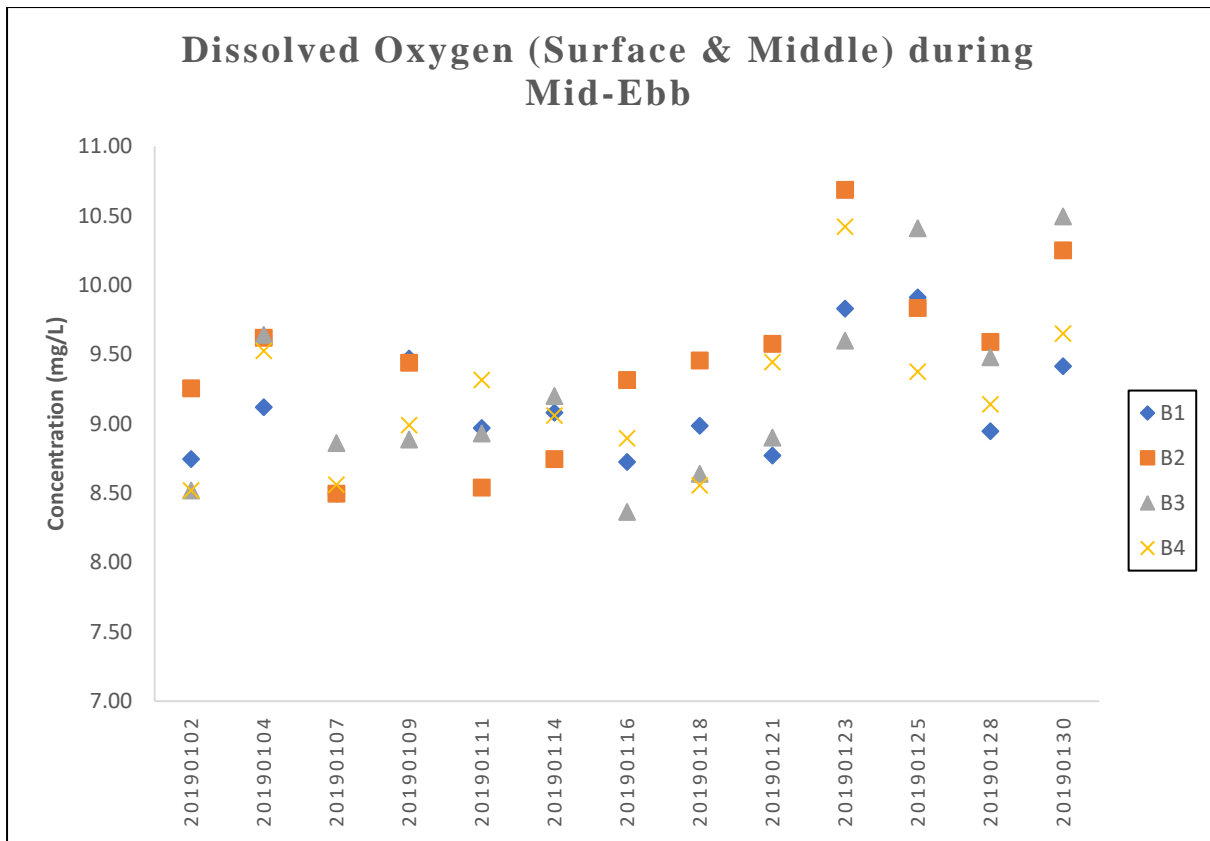


Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.

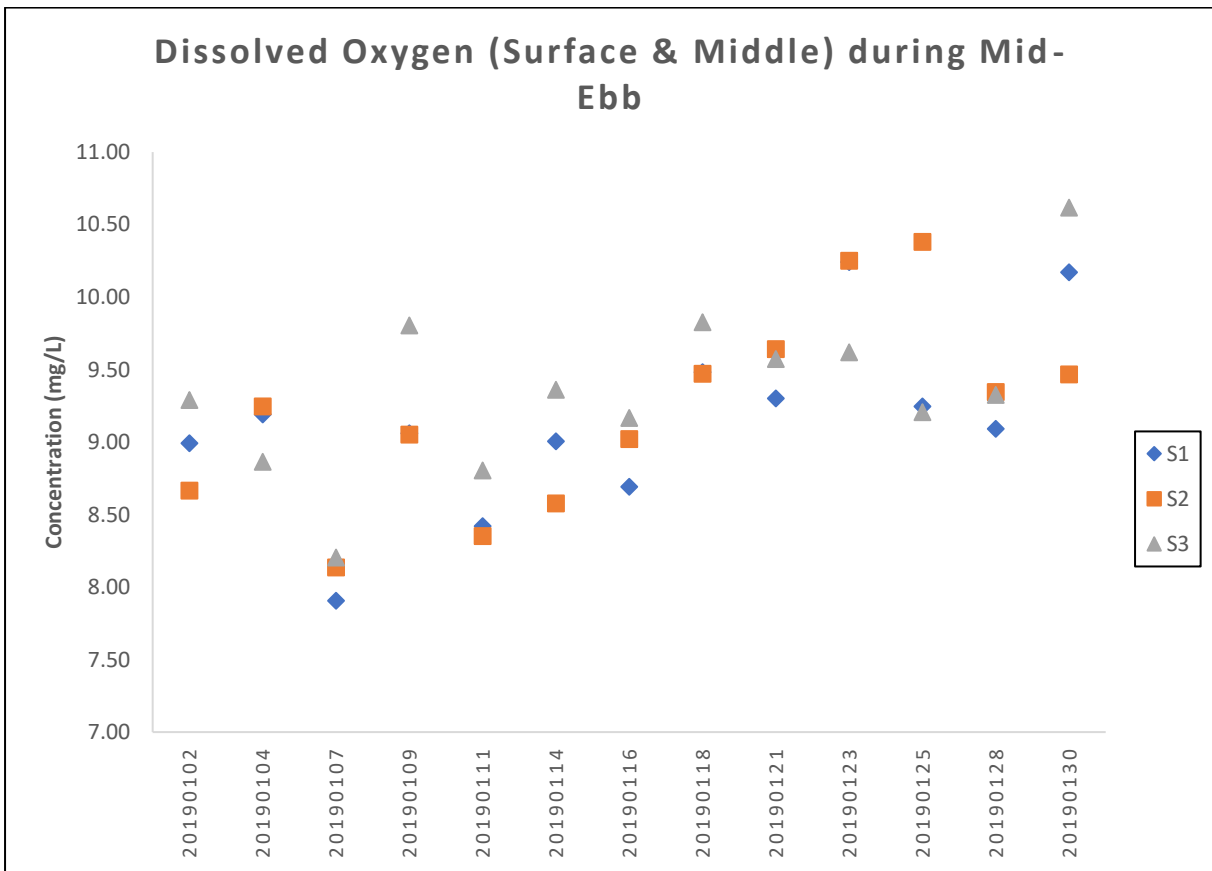
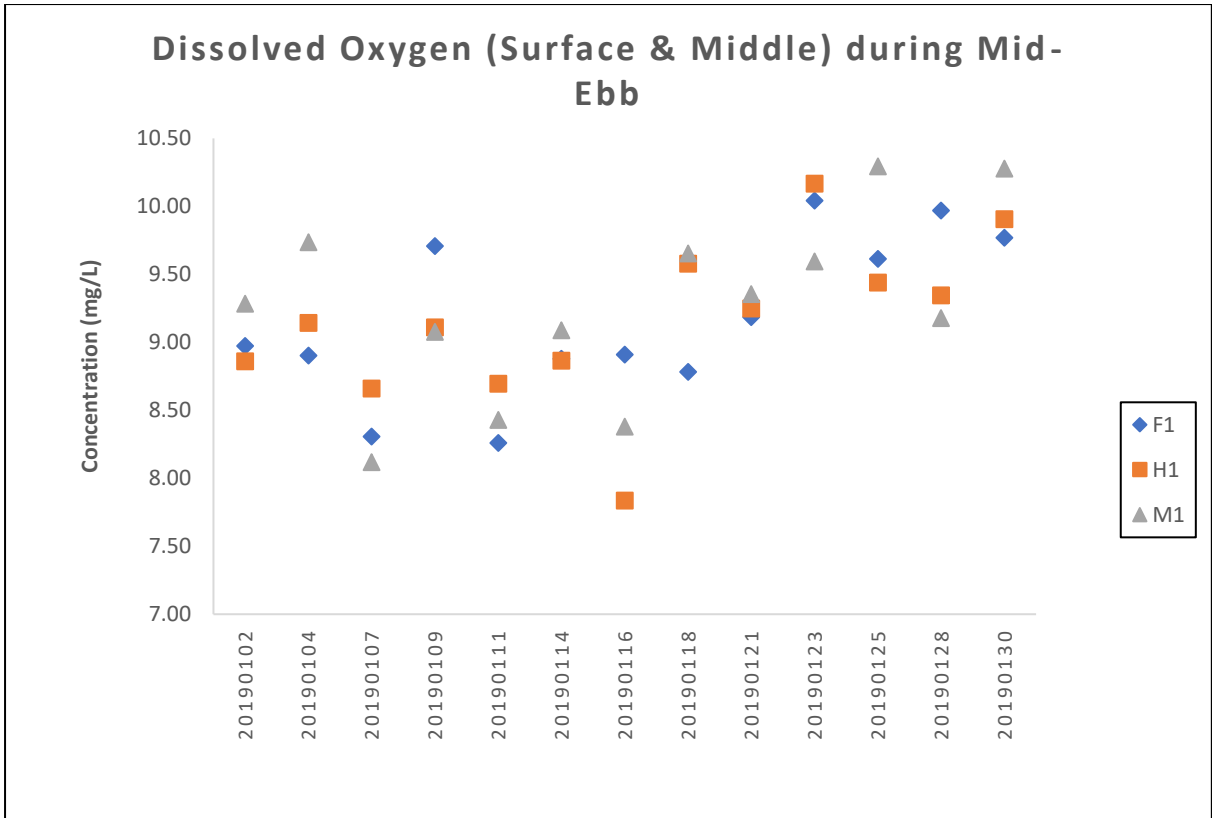


Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.

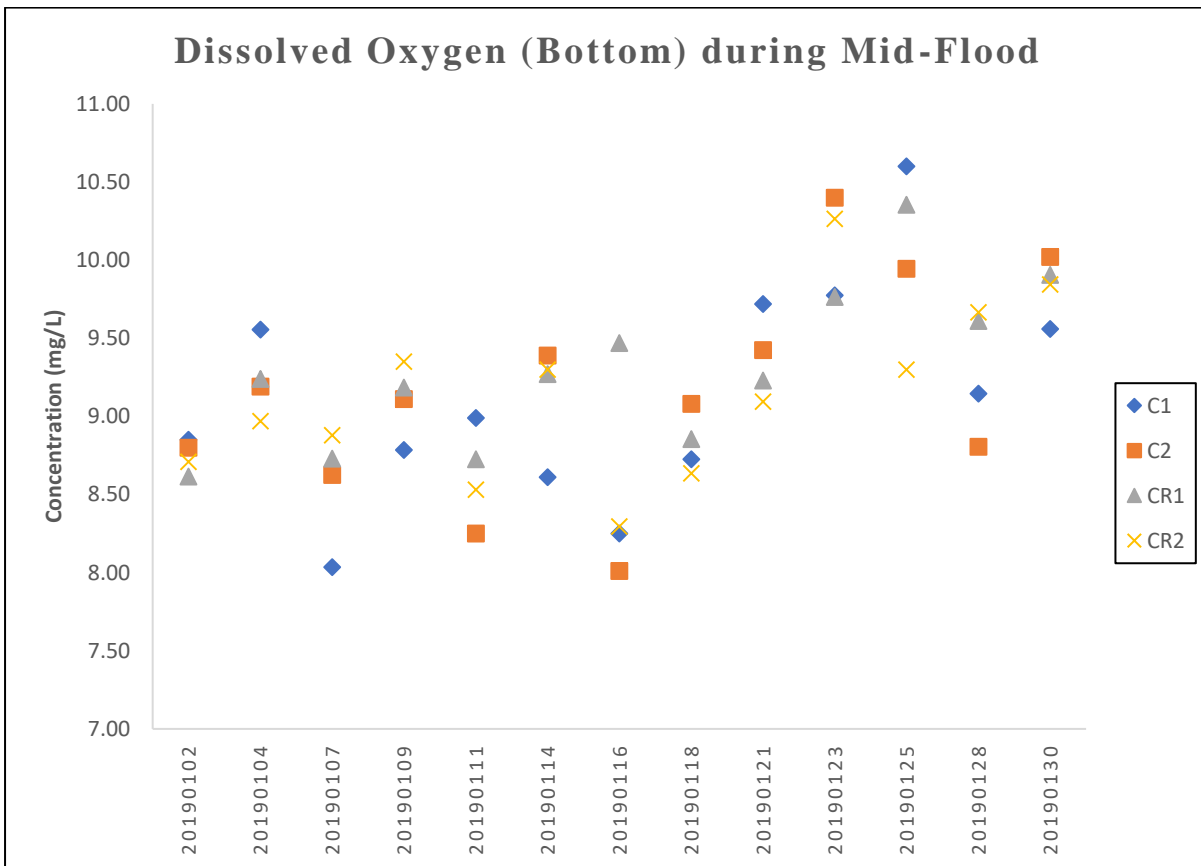
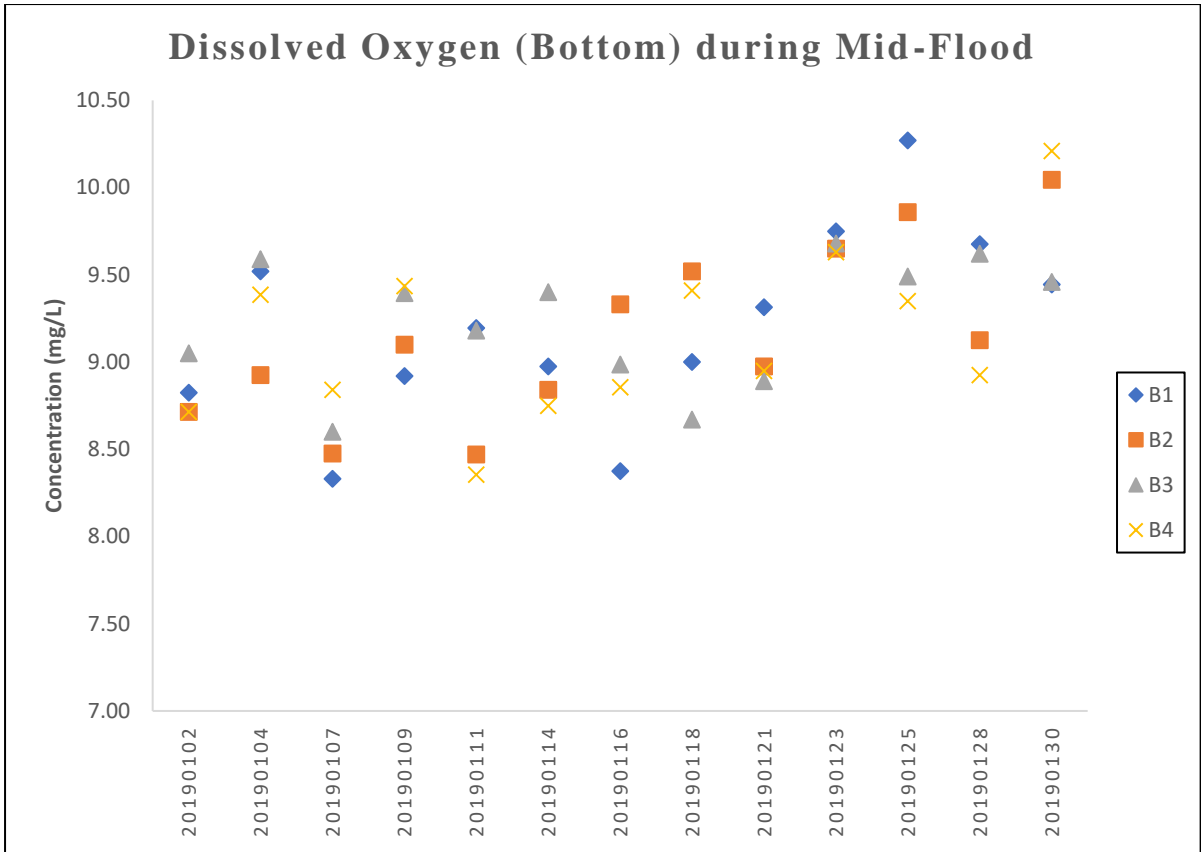




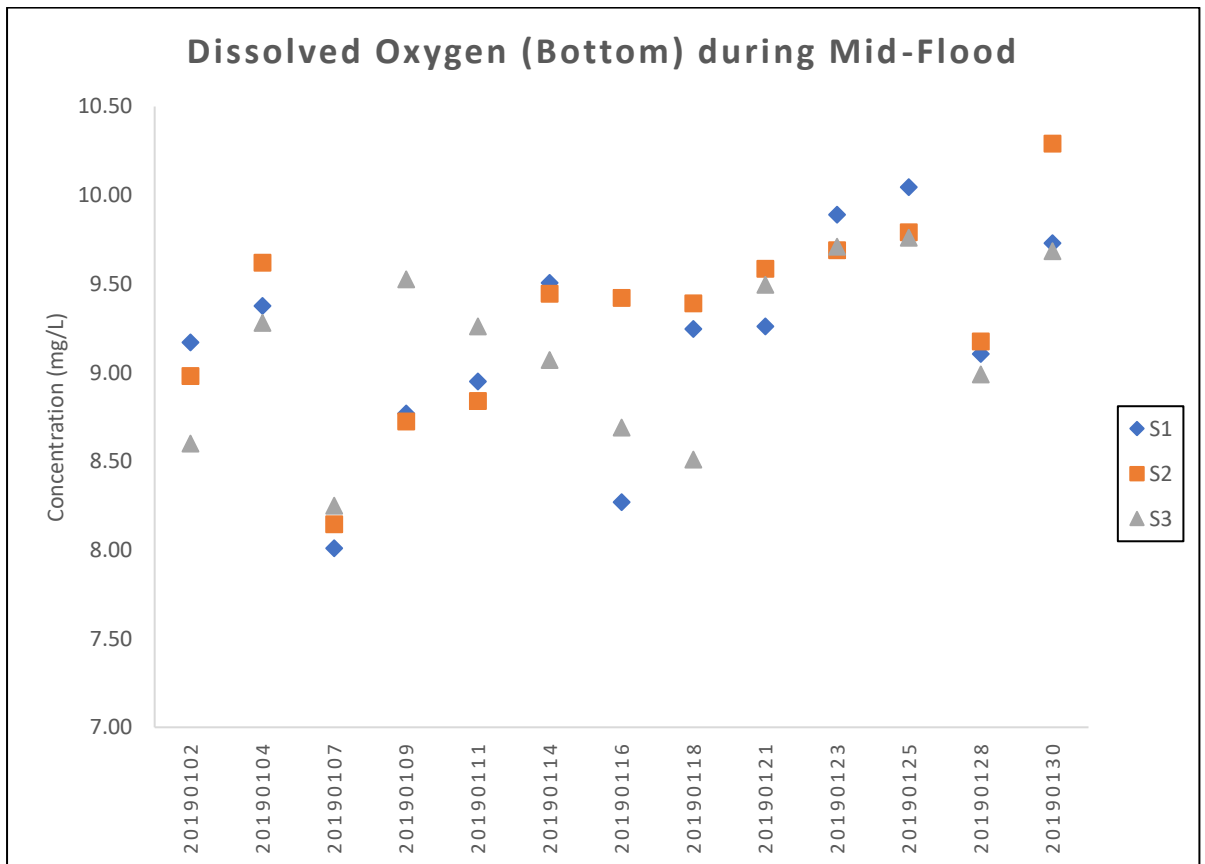
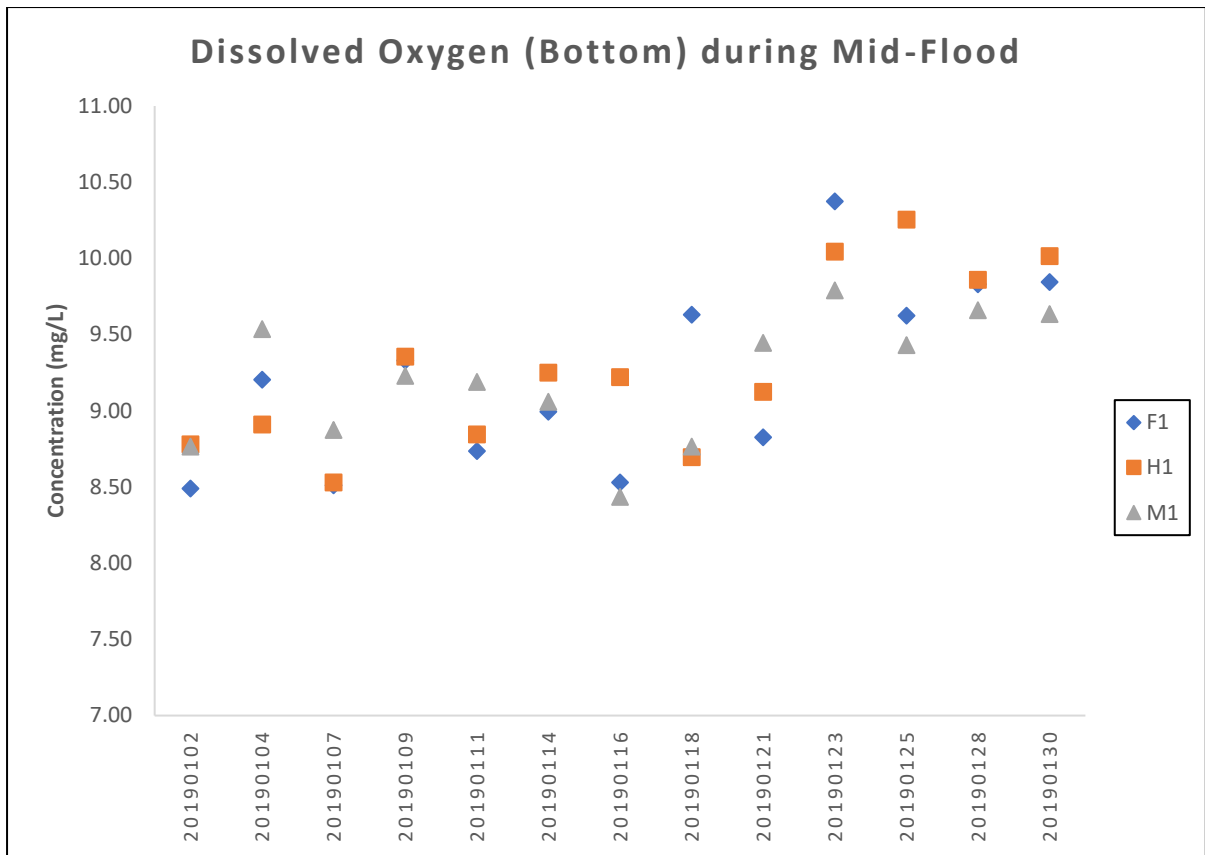
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



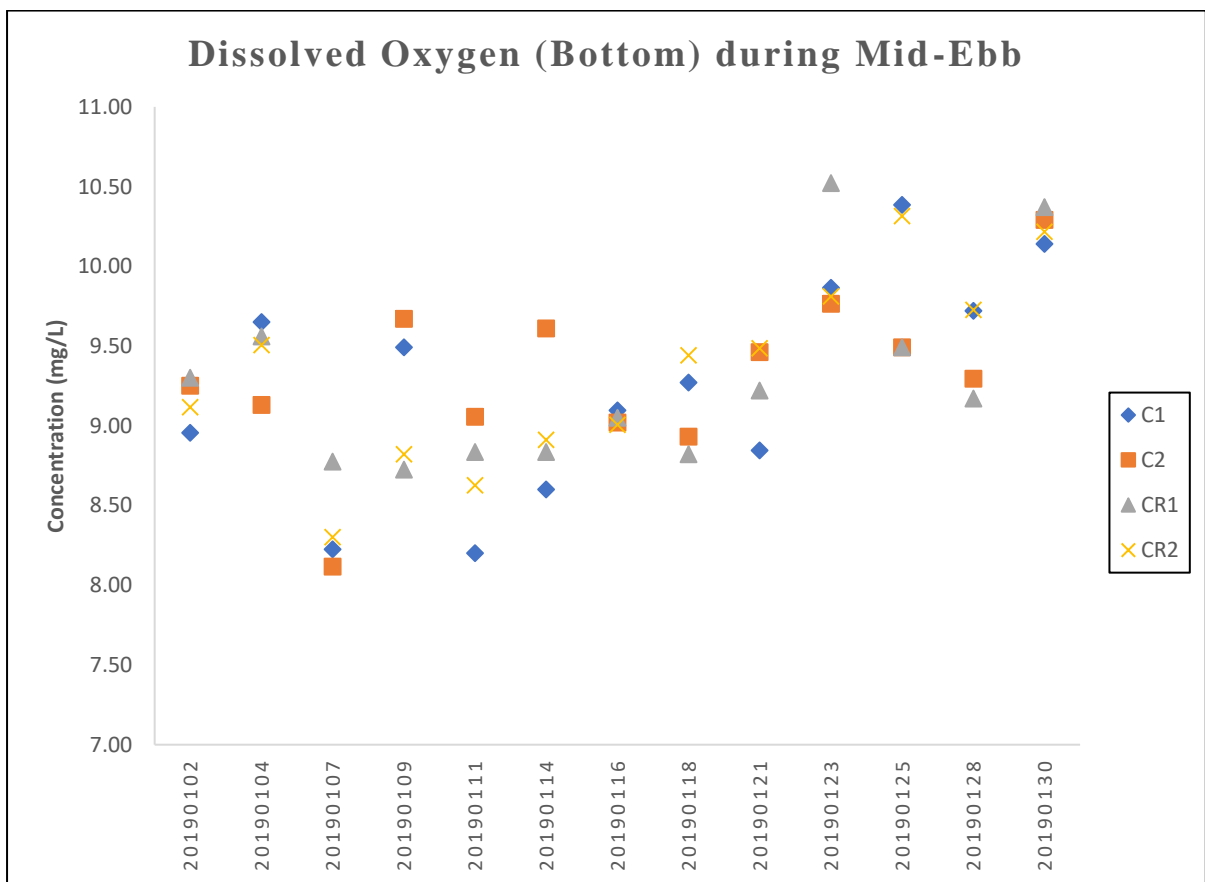
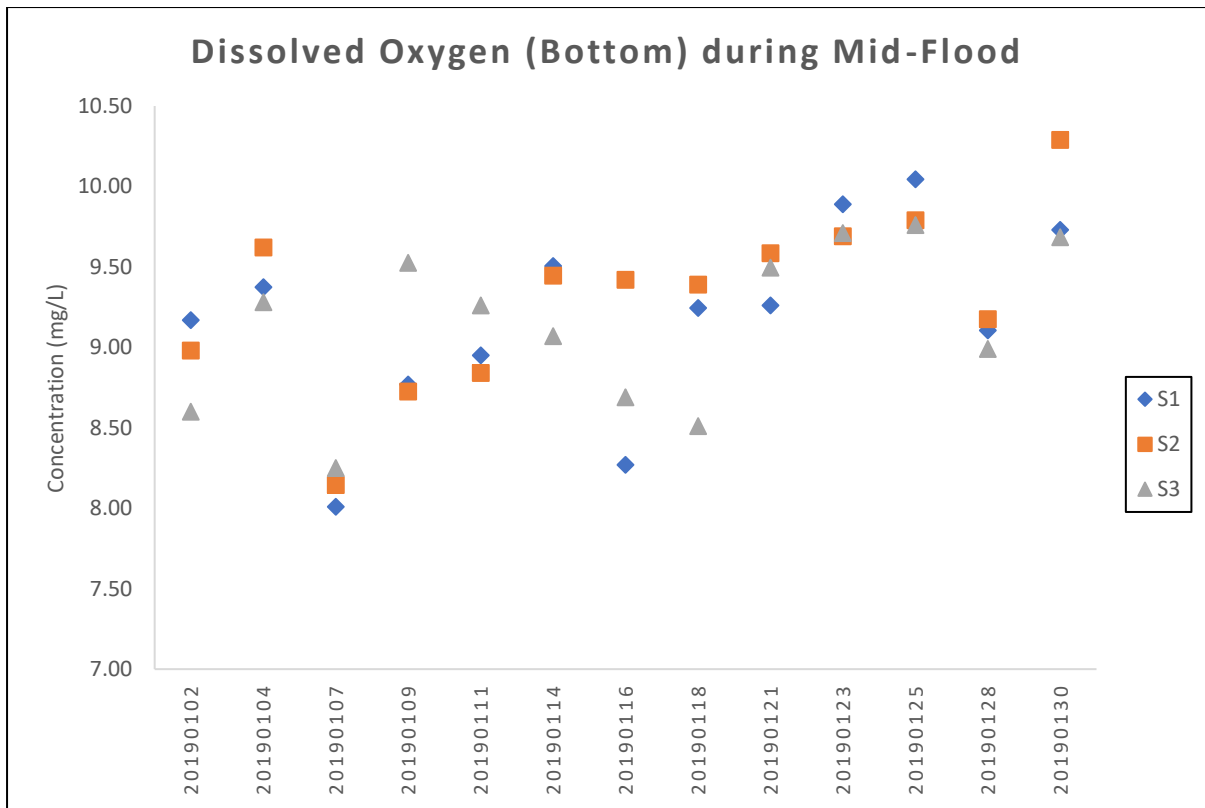
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



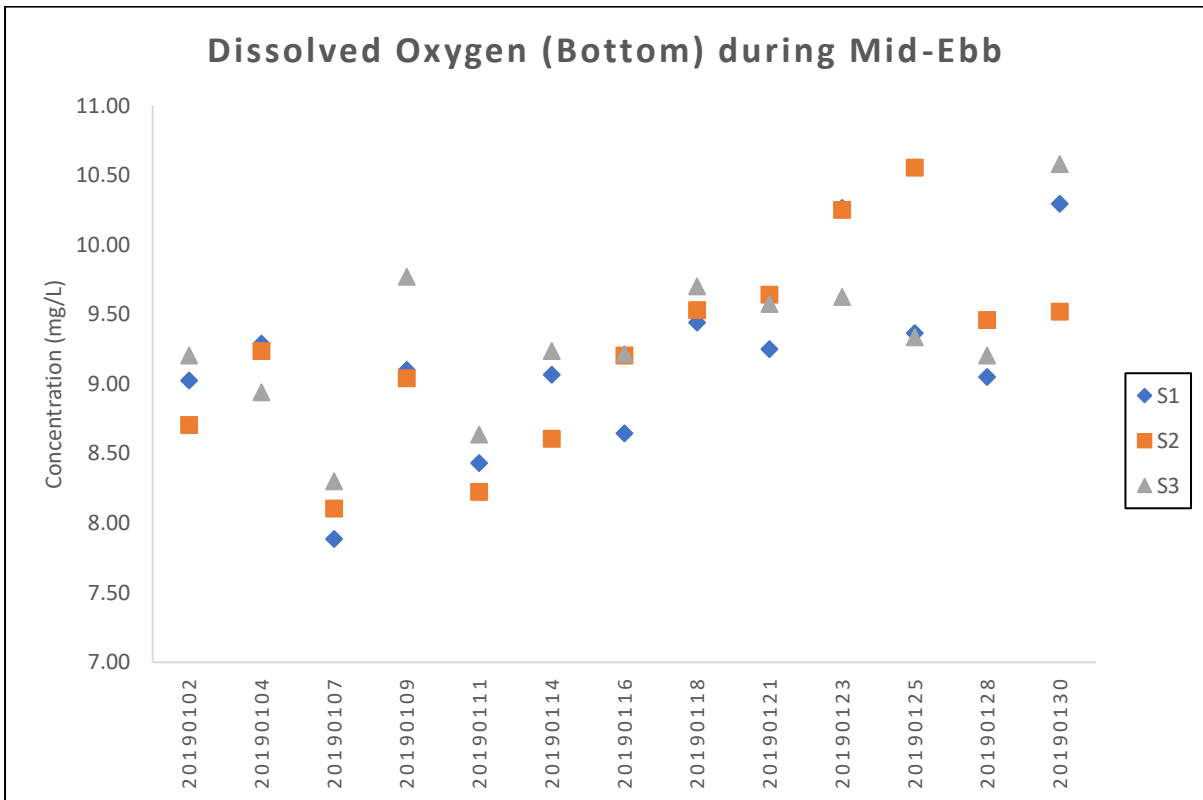
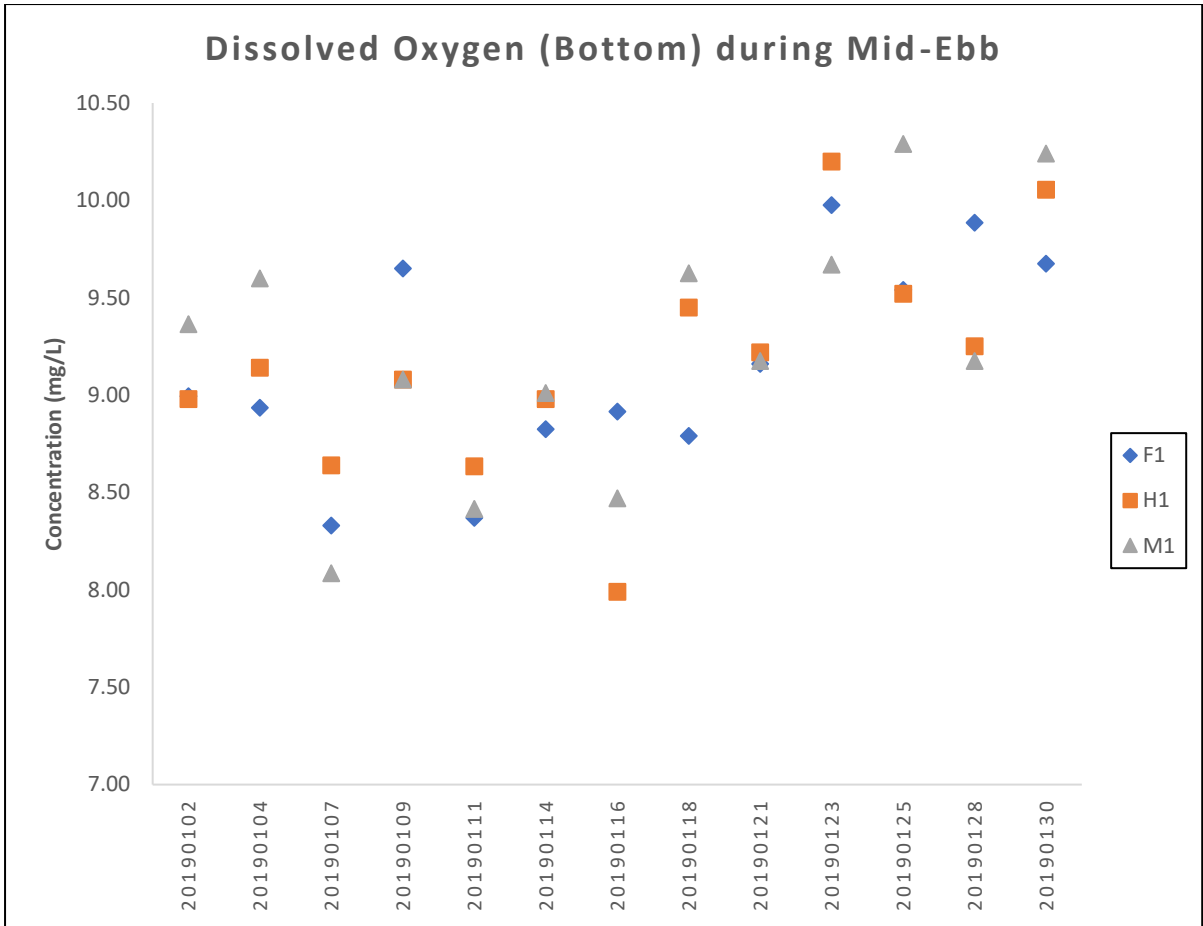
Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.



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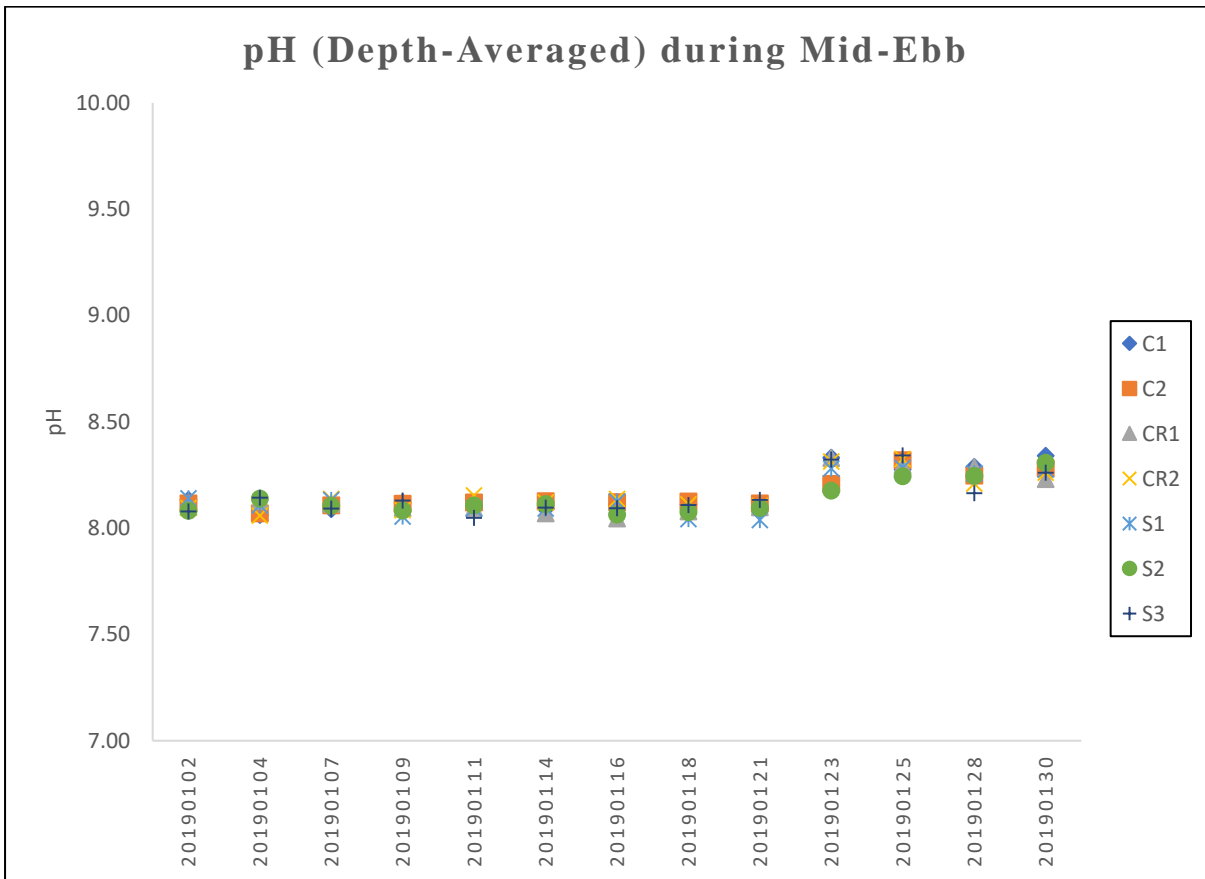
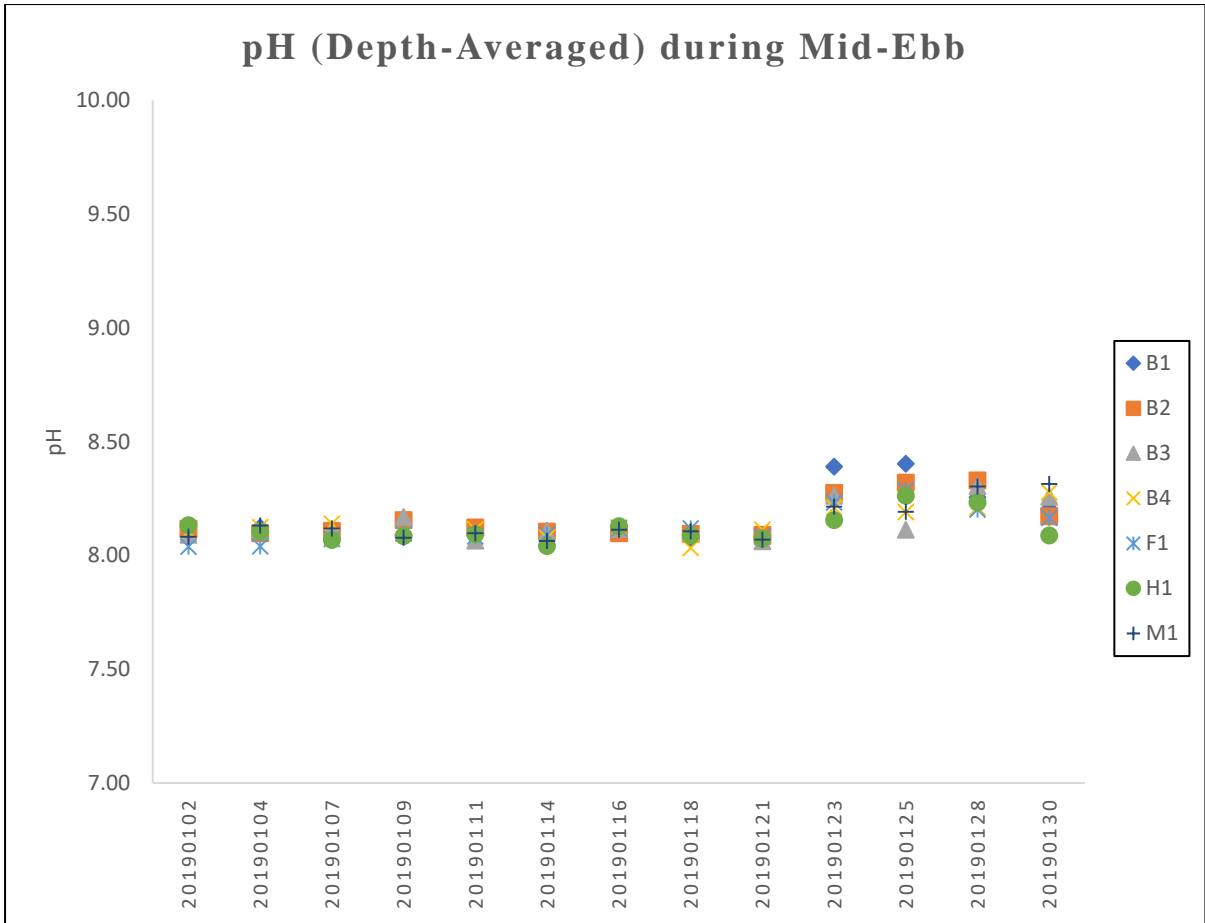


Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.

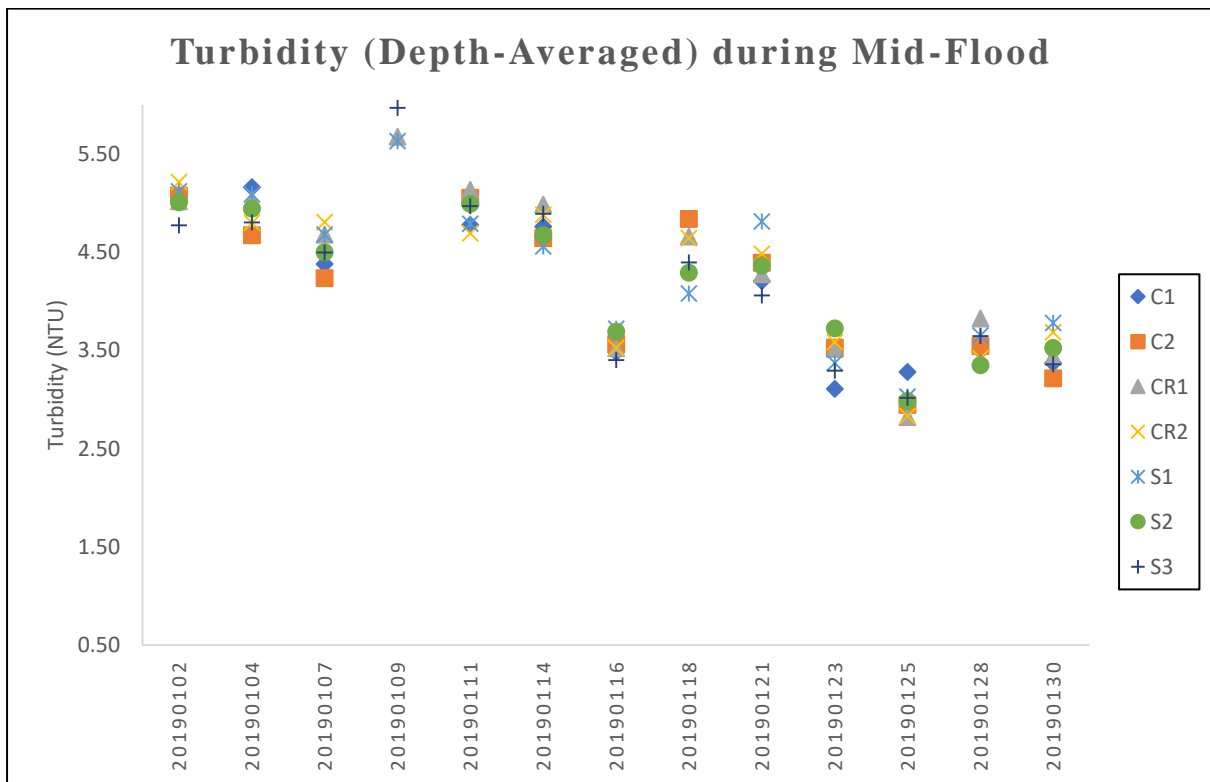
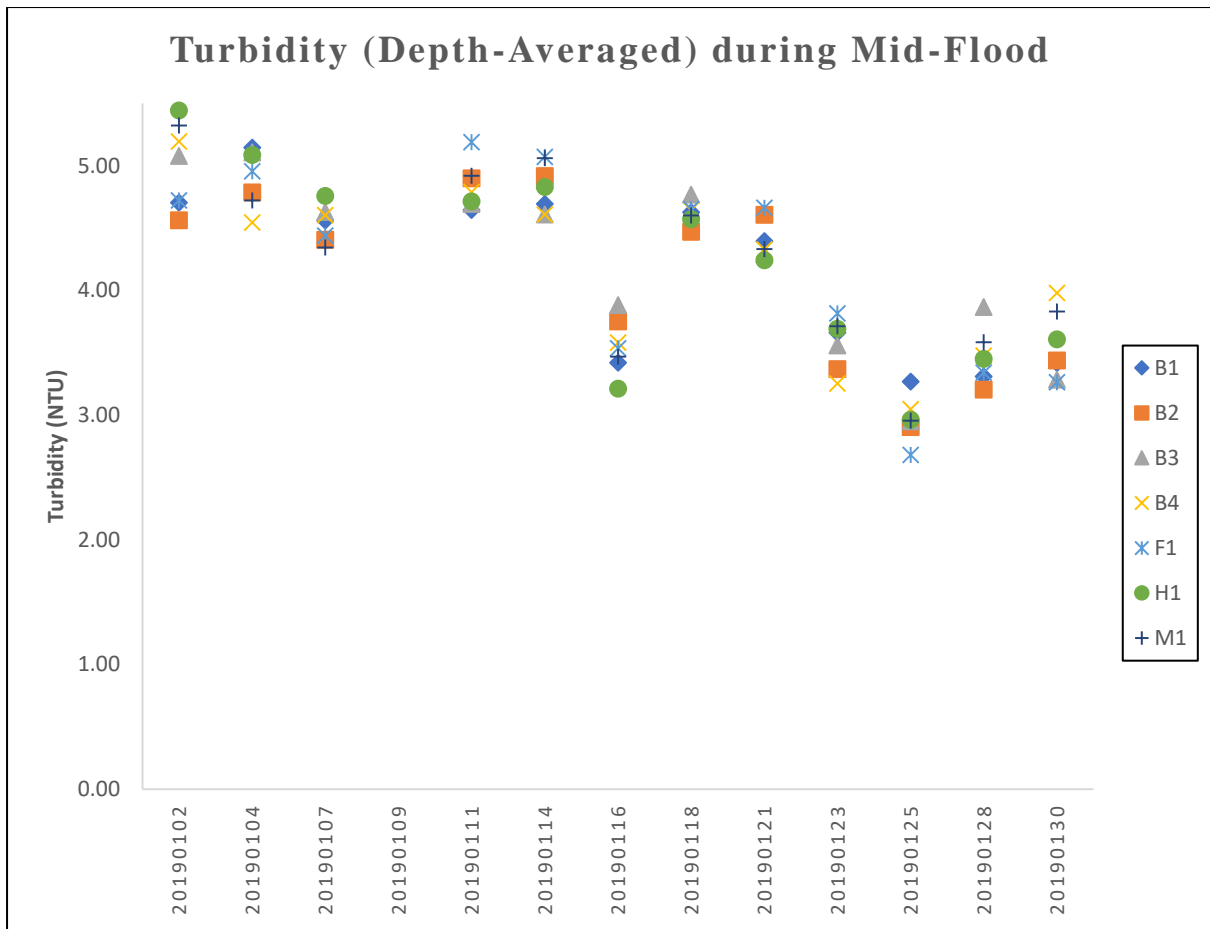


Note: The Action and Limit Level of dissolved oxygen can be referred to **Table 2.7** of the monthly EM & A report.

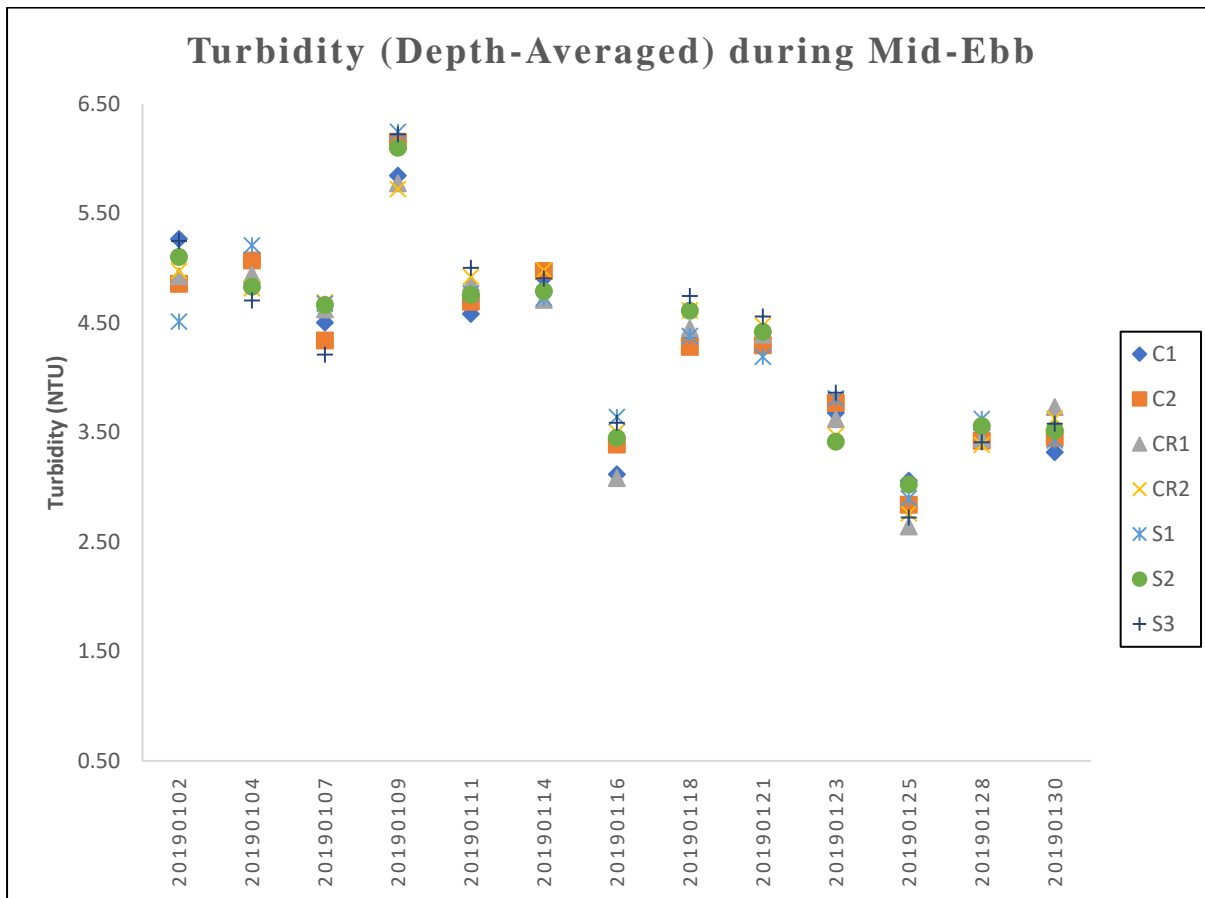
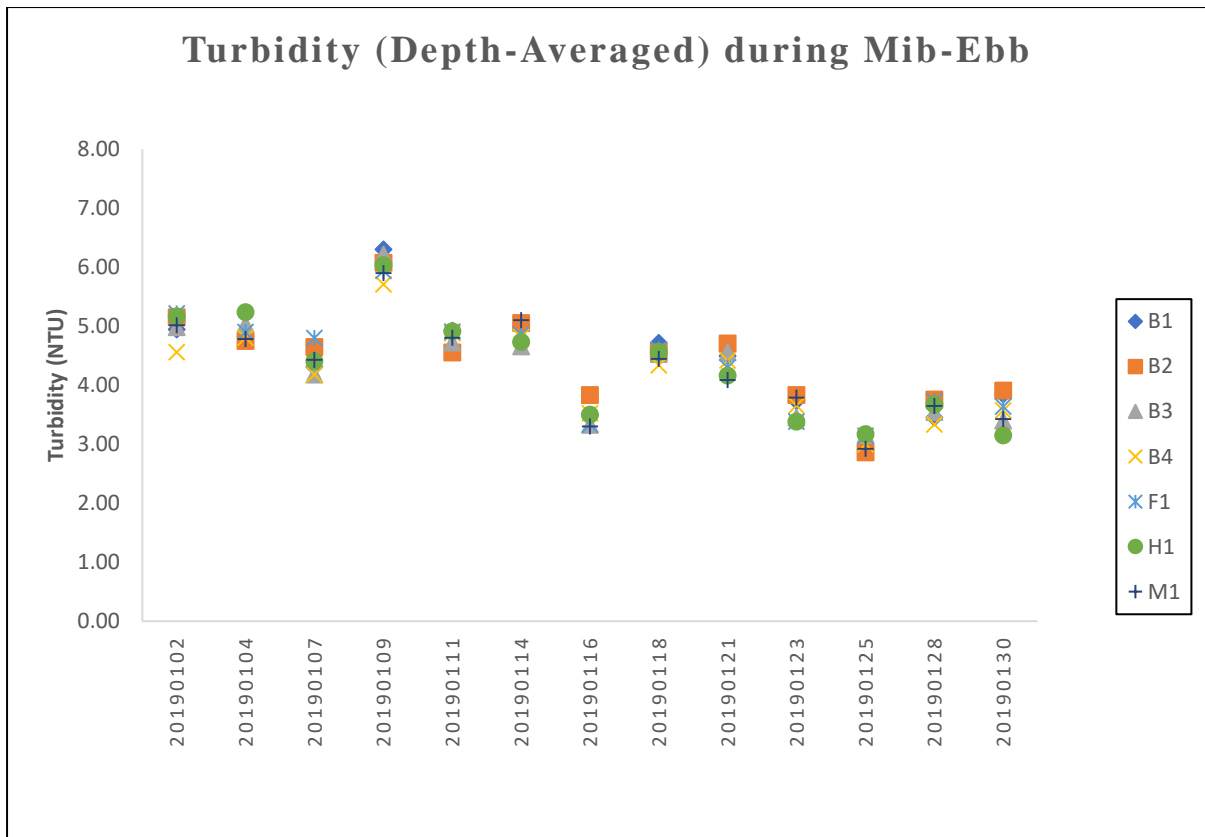




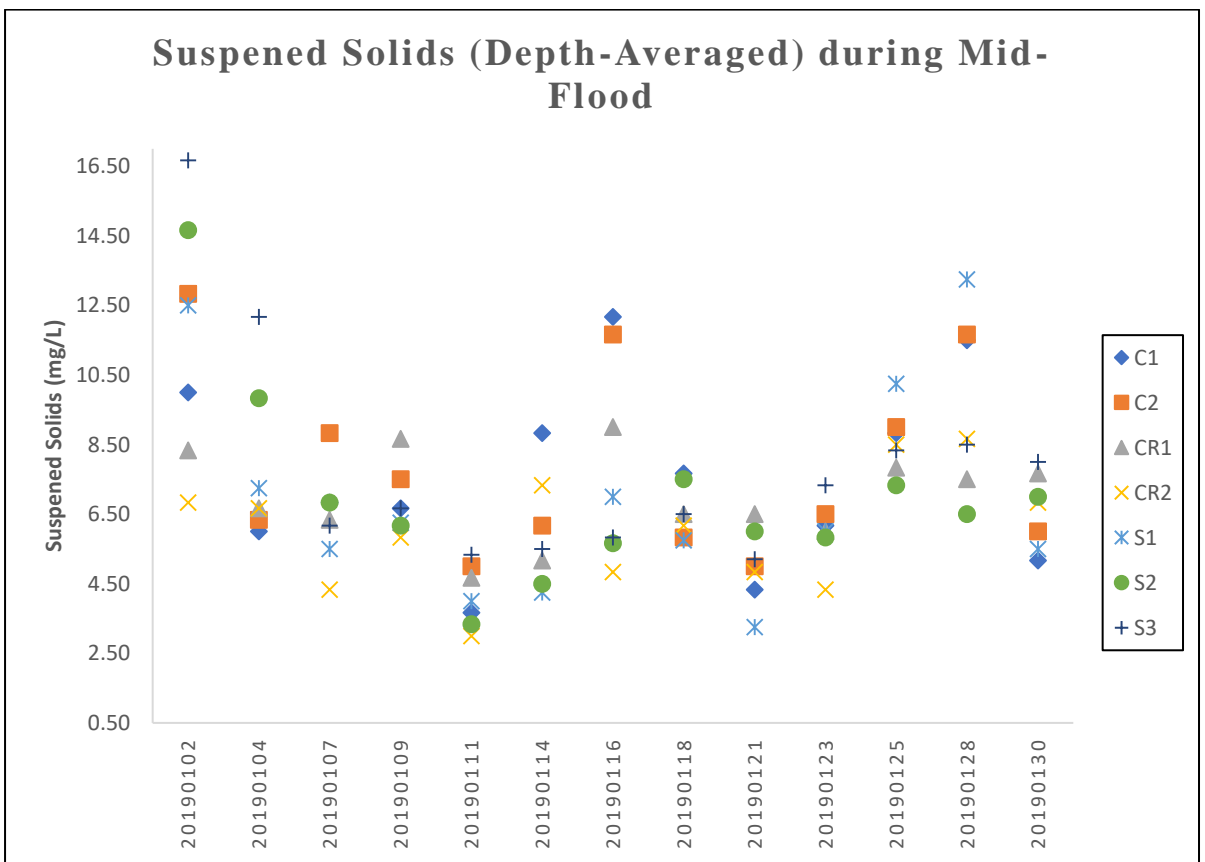
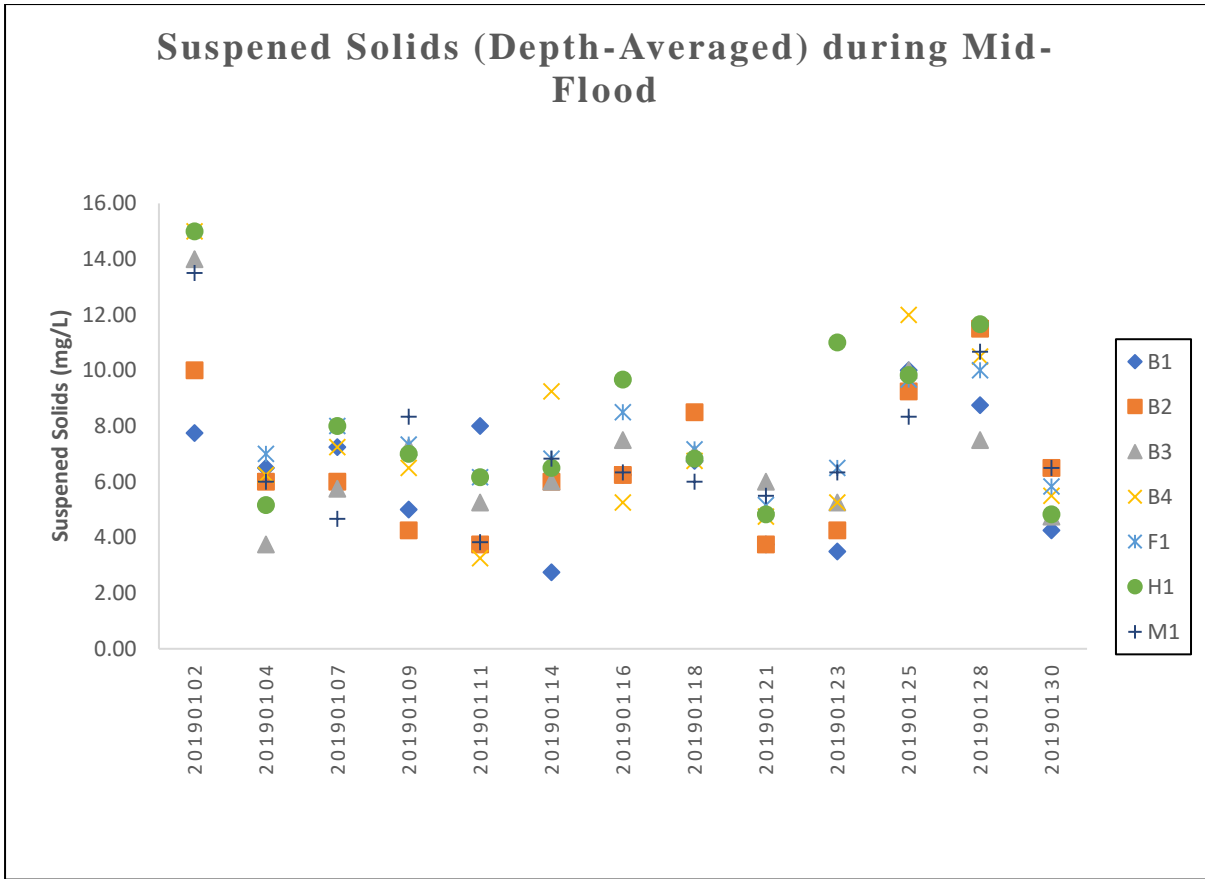




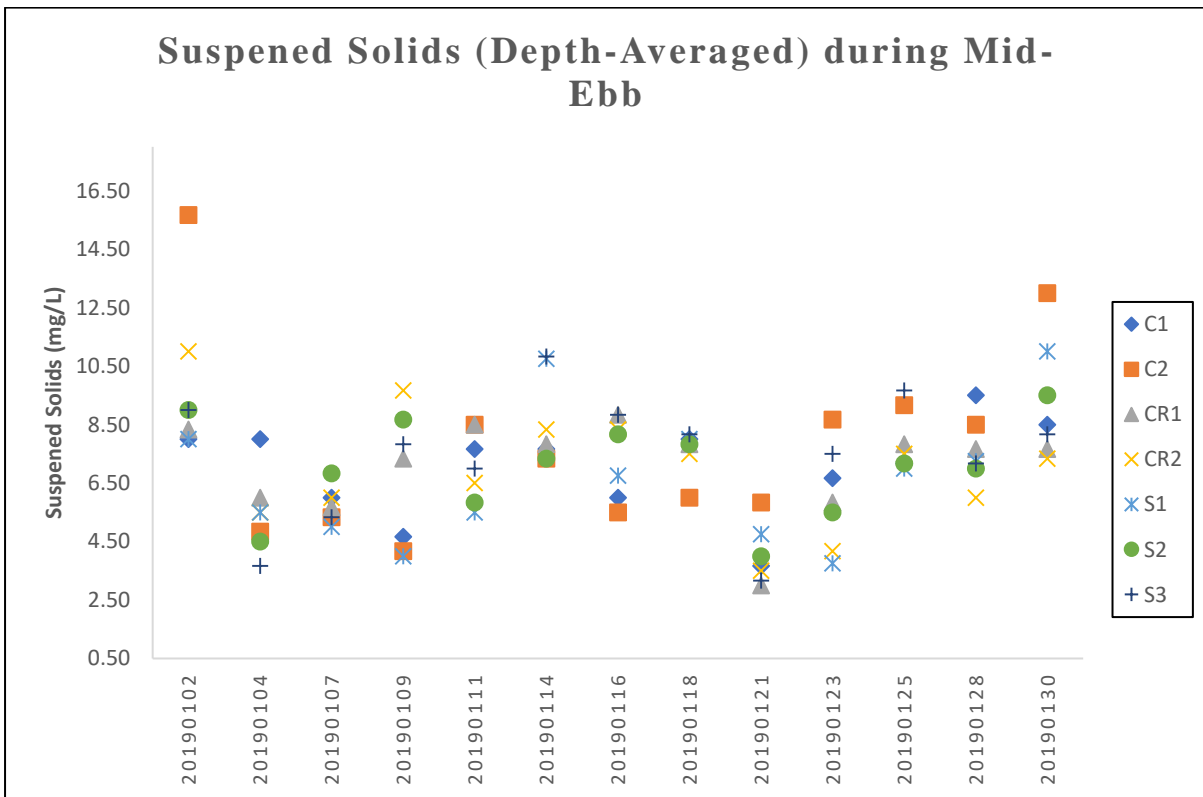
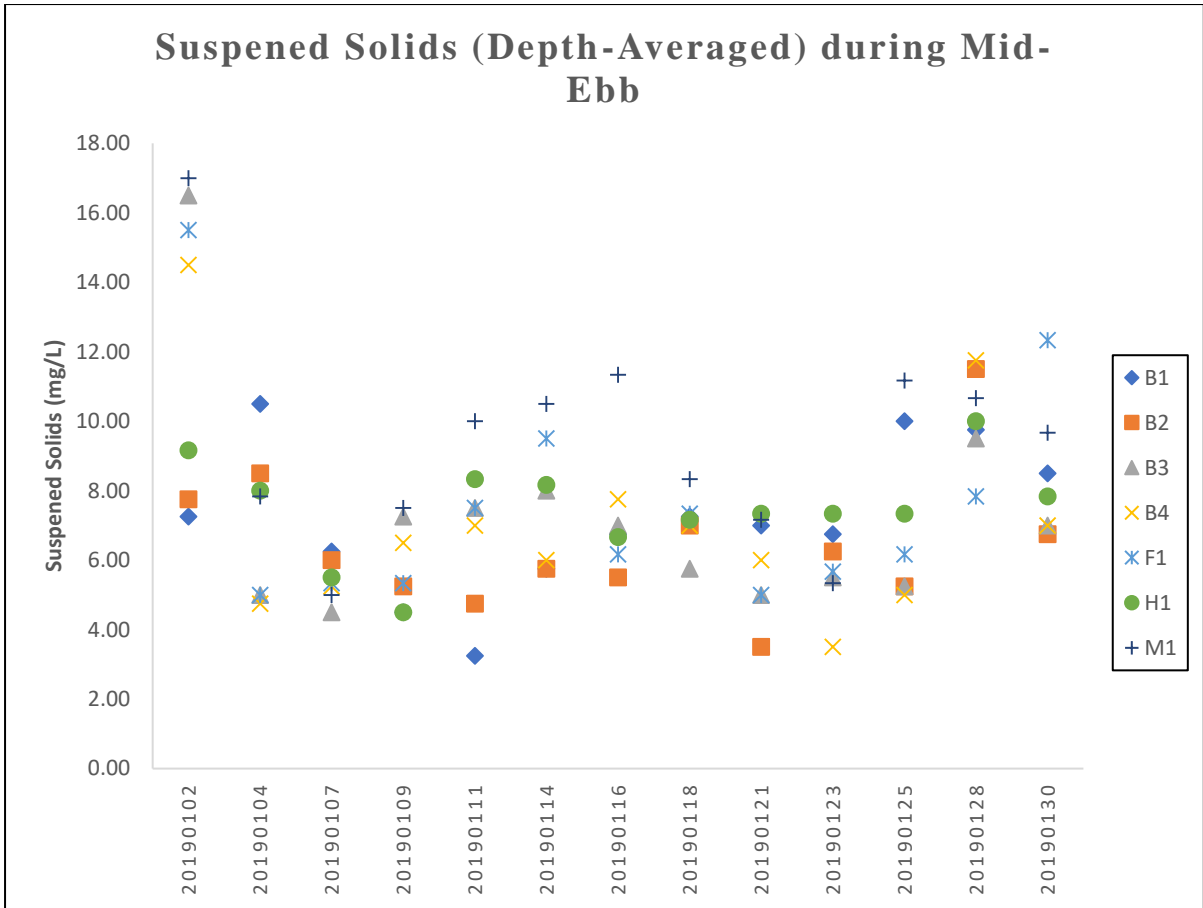
Note: The Action and Limit Level of turbidity can be referred to **Table 2.7** of the monthly EM & A report.



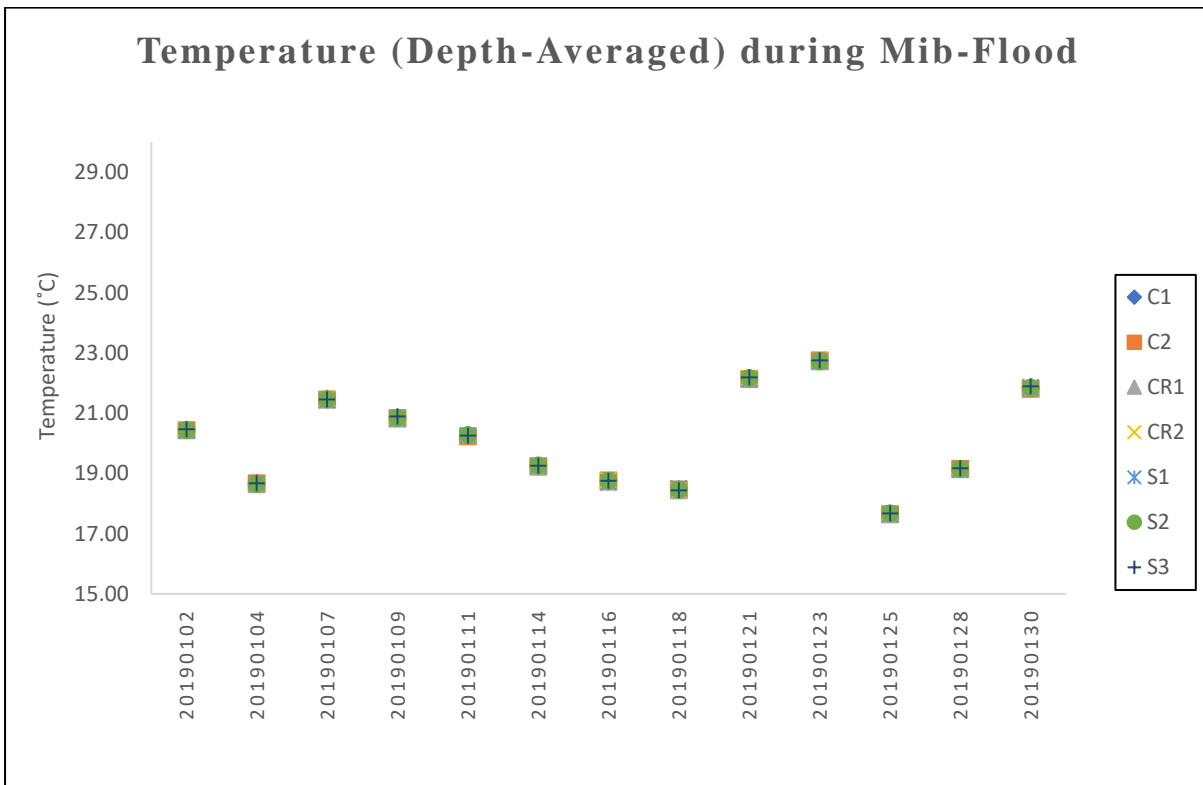
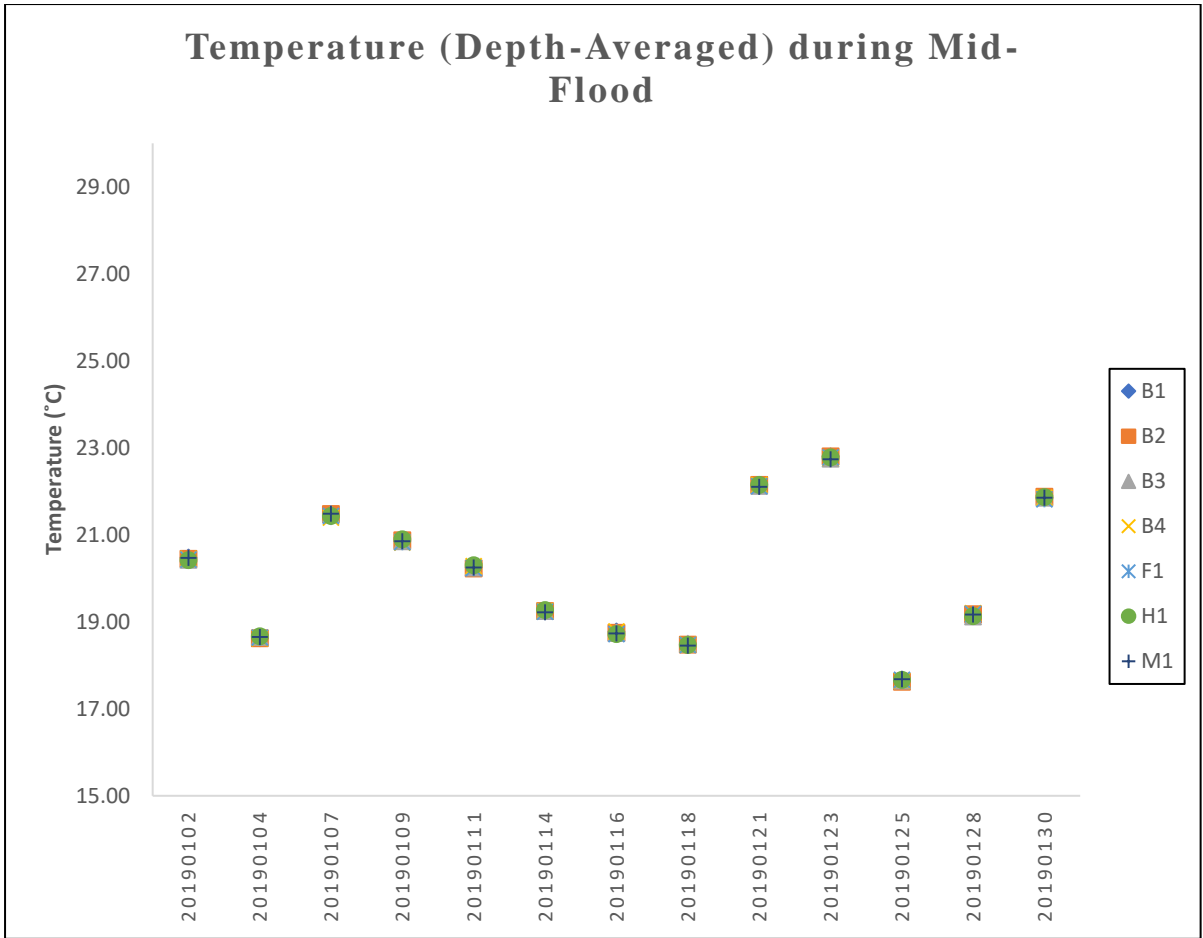
Note: The Action and Limit Level of turbidity can be referred to **Table 2.7** of the monthly EM & A report.



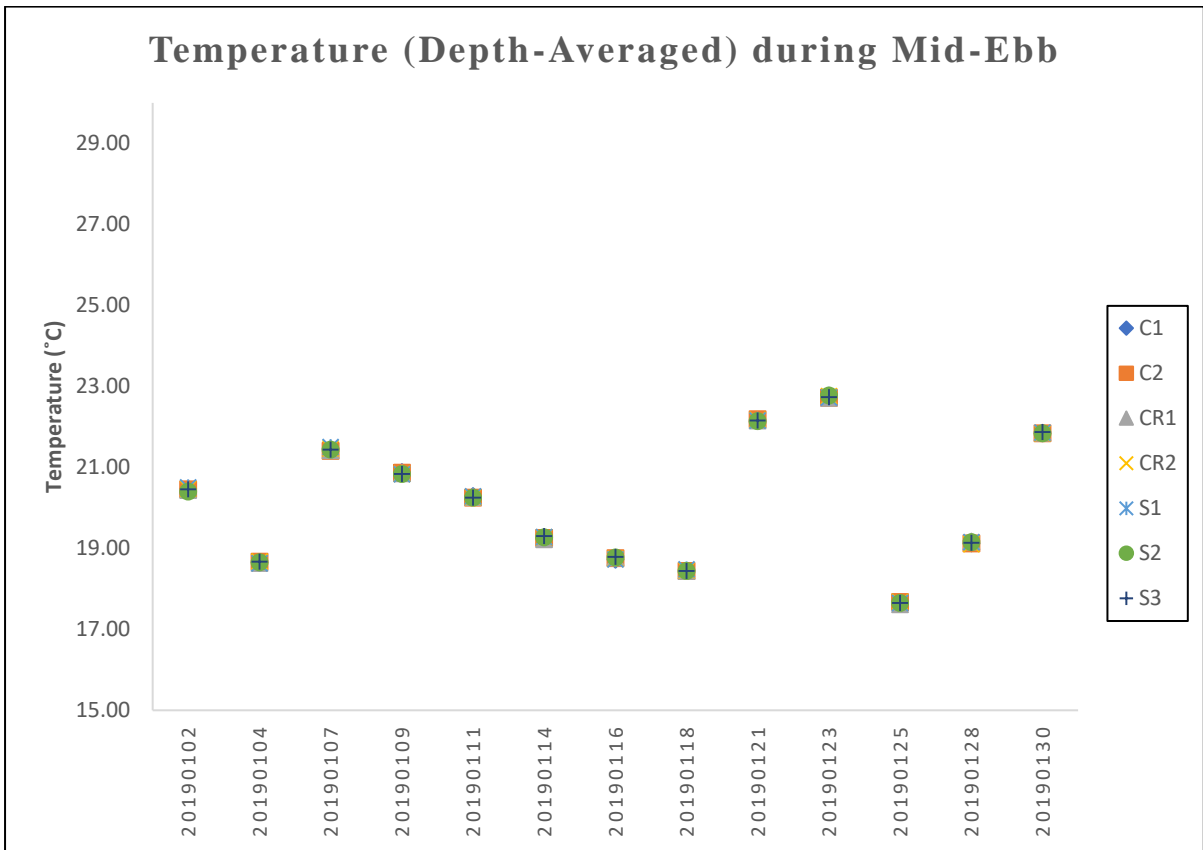
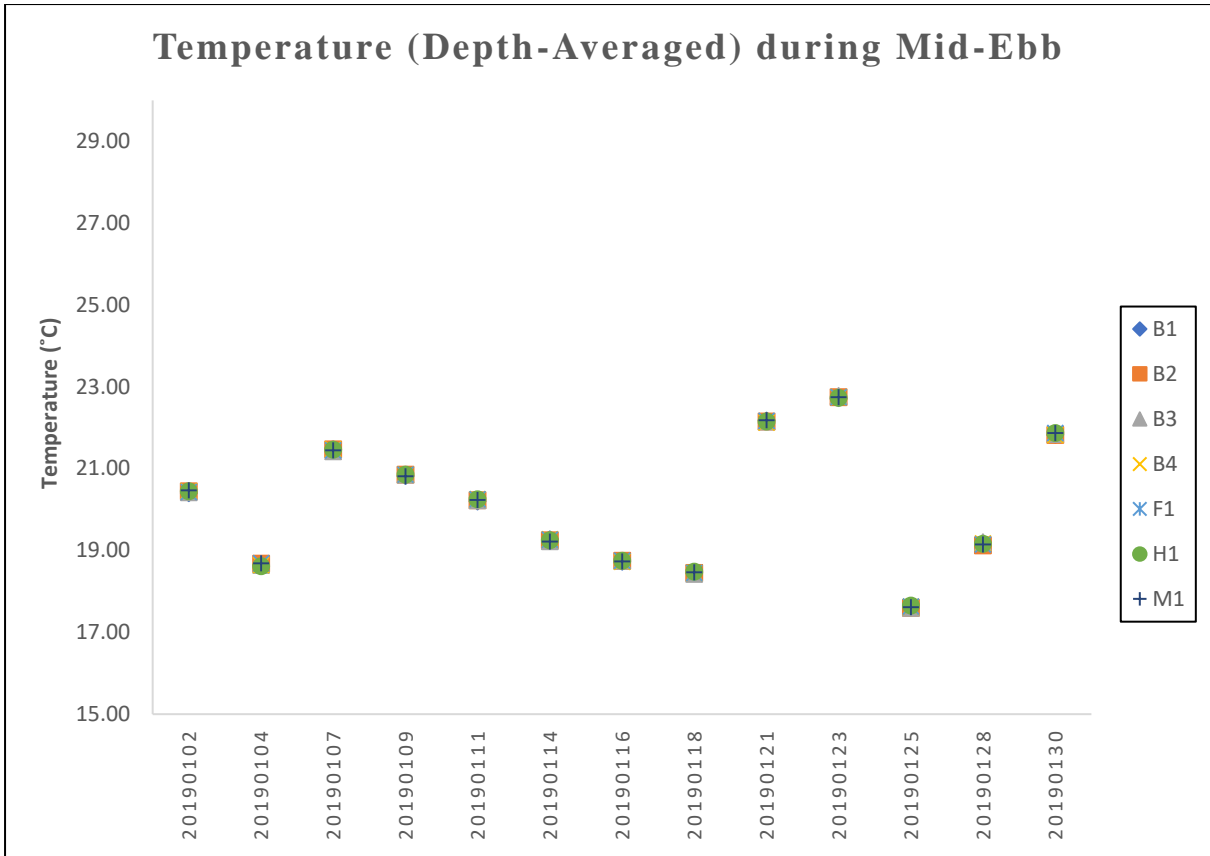
Note: The Action and Limit Level of suspended solids can be referred to **Table 2.7** of the monthly EM & A report.



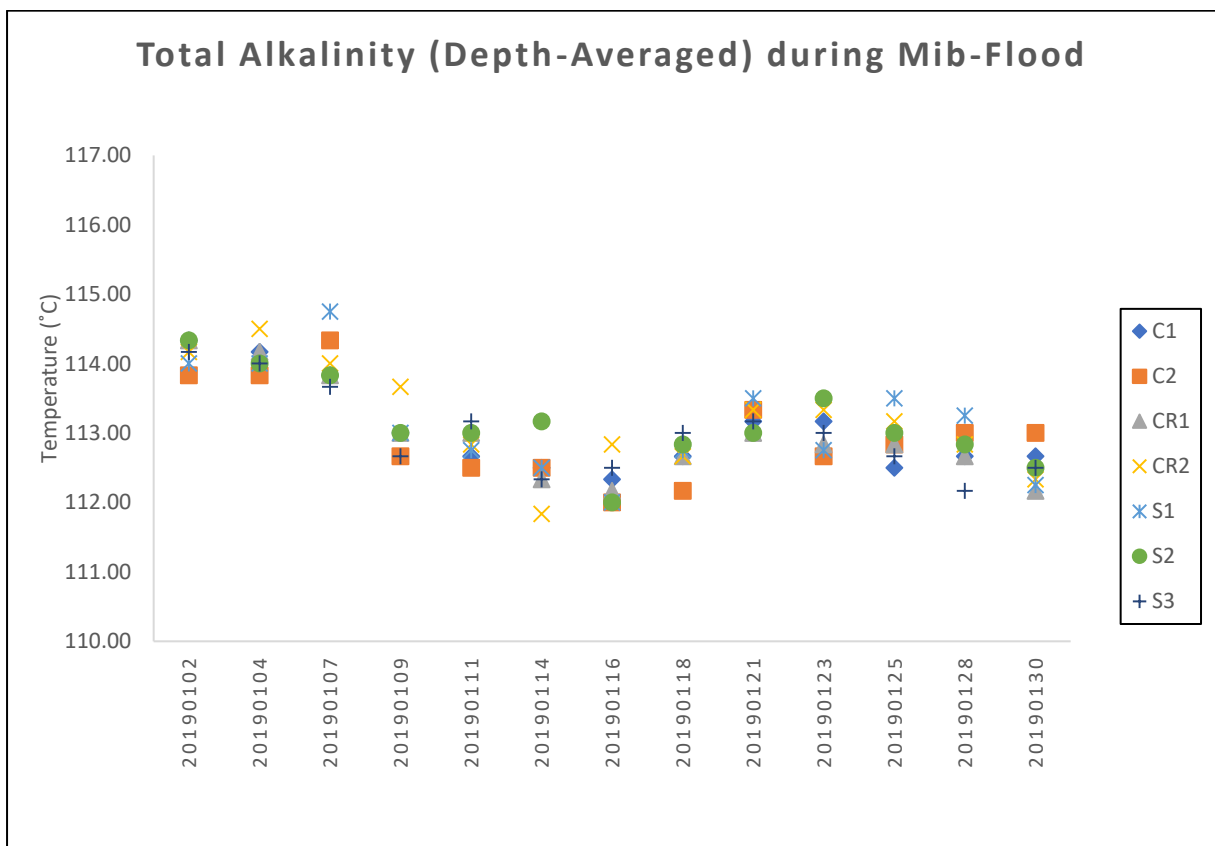
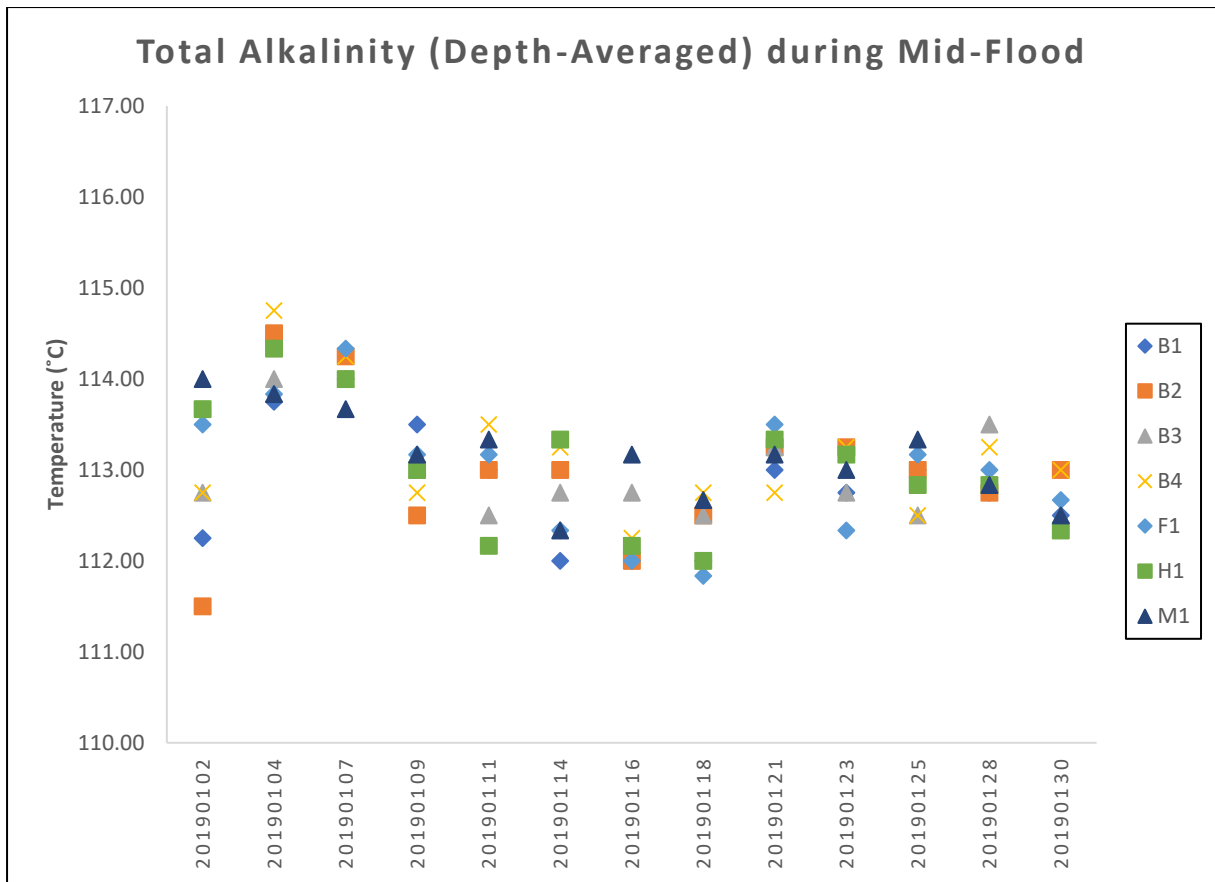
Note: The Action and Limit Level of suspended solids can be referred to **Table 2.7** of the monthly EM & A report.



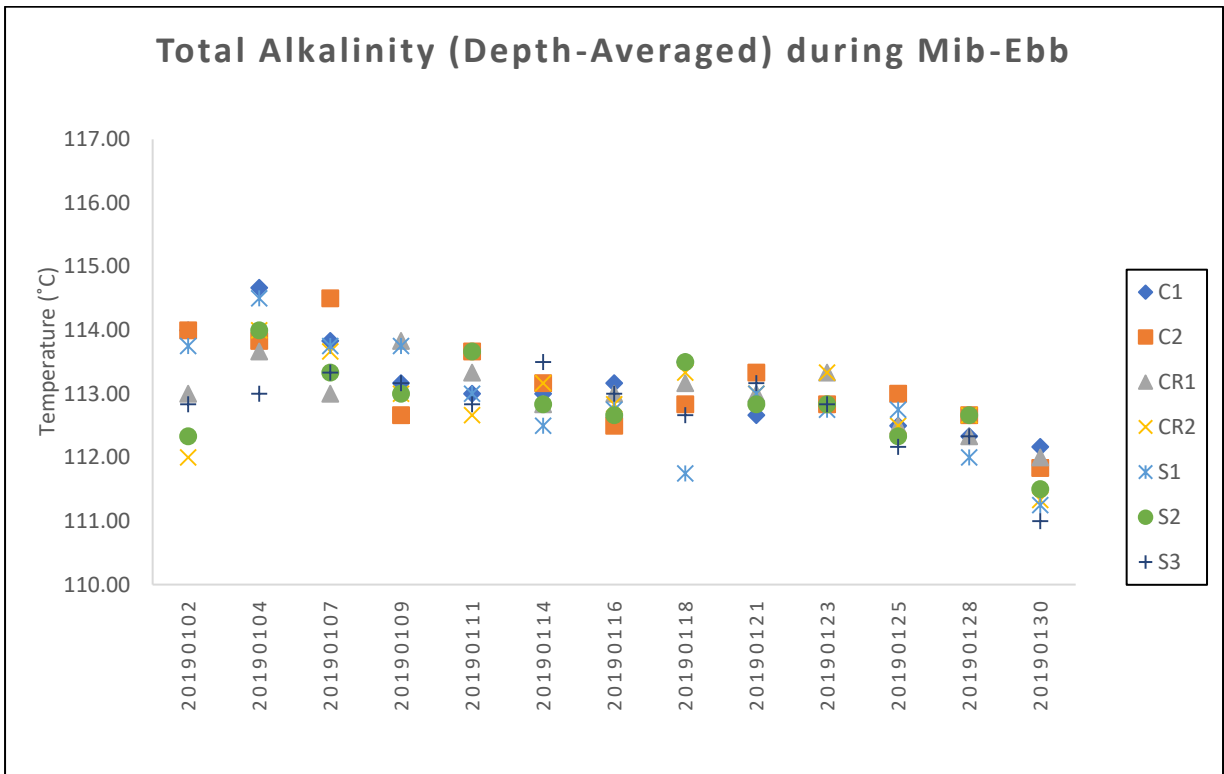
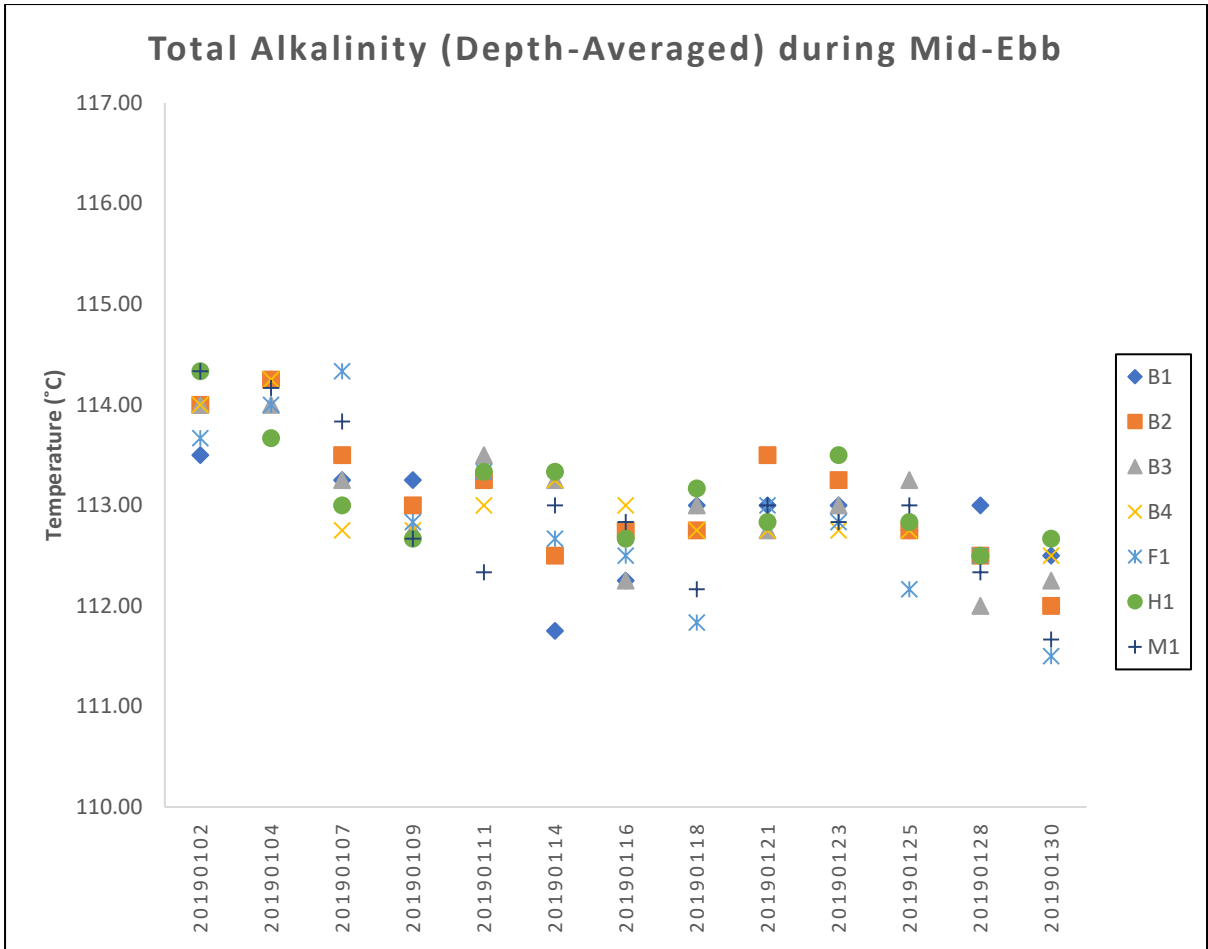
Note: The Action and Limit Level of temperature can be referred to **Table 2.7** of the monthly EM & A report.



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Note: The Action and Limit Level of total alkalinity can be referred to **Table 2.7** of the monthly EM & A report.



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