



**Water Monitoring Result at M5B - Central Cooling Water Intake Group
Mid-Flood Tide**

Date	Time	Weather Condition	Sampling Depth m	Water Temperature °C			pH			Salinity ppt			DO Saturation %		DO mg/L		Turbidity NTU		Suspended Solids mg/L					
				Value	Average		Value	Average		Value	Average		Value	Average	Value	Average	Value	Average	Value	Average				
3/1/18	7:10	Fine	Middle	4.0	19.20	19.20	19.25	8.11	8.11	8.12	31.94	31.94	31.94	95.1	94.8	94.8	7.26	7.24	7.24	5.88	5.90	5.94	8	7.00
	7:12		Middle	4.0	19.30	19.30		8.13	8.13		31.94	31.94		94.7	94.5		7.23	7.21		5.99	6.00		6	
5/1/18	21:35	Cloudy	Middle	3.5	18.50	18.50	18.50	8.08	8.08	8.18	32.32	32.32	32.32	91.3	91.6	91.6	7.13	7.16	7.16	3.62	3.58	3.57	20	16.00
	21:36		Middle	3.5	18.50	18.50		8.28	8.28		32.32	32.32		91.8	91.6		7.17	7.16		3.56	3.50		12	
8/1/18	11:20	Cloudy	Middle	3.5	18.60	18.60	18.60	7.98	7.98	7.99	31.44	31.44	31.44	98.7	98.8	98.6	7.65	7.66	7.64	6.86	6.89	6.87	4	5.00
	11:22		Middle	3.5	18.60	18.60		7.99	7.99		31.44	31.44		98.5	98.5		7.63	7.63		6.87	6.84		6	
10/1/18	11:05	Fine	Middle	4.0	16.60	16.60	16.60	8.19	8.19	8.20	31.60	31.60	31.61	97.2	97.8	97.4	7.83	7.87	7.85	6.65	6.62	6.60	5	4.50
	11:07		Middle	4.0	16.60	16.60		8.20	8.20		31.61	31.61		97.5	97.2		7.86	7.83		6.57	6.55		4	
12/1/18	14:50	Fine	Middle	3.5	17.20	17.20	17.25	8.19	8.19	8.20	31.51	31.51	31.51	96.4	96.5	97.2	7.64	7.65	7.72	6.47	6.43	6.43	10	9.00
	14:52		Middle	3.5	17.30	17.30		8.20	8.20		31.51	31.51		97.9	97.8		7.79	7.78		6.42	6.41		8	
15/1/18	16:40	Fine	Middle	4.0	17.10	17.10	17.15	8.14	8.14	8.17	31.42	31.42	31.44	94.9	94.6	94.3	7.57	7.54	7.51	6.68	6.78	6.79	3	3.00
	16:42		Middle	4.0	17.20	17.20		8.19	8.19		31.46	31.46		94.8	92.8		7.55	7.39		6.83	6.88		3	
17/1/18	17:30	Fine	Middle	4.0	18.10	18.10	18.20	8.13	8.13	8.14	31.57	31.57	31.57	92.7	92.9	92.9	7.24	7.25	7.25	7.19	7.14	7.15	4	5.00
	17:32		Middle	4.0	18.30	18.30		8.15	8.15		31.56	31.56		93.0	92.9		7.26	7.25		7.13	7.13		6	
19/1/18	18:39	Cloudy	Middle	3.5	18.10	18.10	18.10	8.06	8.06	8.06	32.05	32.05	32.05	83.8	84.4	83.4	6.19	6.23	6.16	2.02	2.11	2.11	6	4.00
	18:40		Middle	3.5	18.10	18.10		8.06	8.06		32.05	32.05		83.4	81.9		6.16	6.05		2.23	2.09		2	
23/1/18	9:30	Fine	Middle	4.0	17.90	17.90	17.95	8.24	8.24	8.25	31.19	31.19	31.19	92.9	92.8	92.6	7.30	7.29	7.26	7.22	7.17	7.17	5	5.50
	9:32		Middle	4.0	18.00	18.00		8.25	8.25		31.18	31.18		92.5	92.1		7.25	7.21		7.15	7.13		6	
25/1/18	12:35	Fine	Middle	4.0	17.80	17.80	17.85	8.34	8.34	8.35	31.70	31.70	31.70	94.4	94.4	94.2	7.41	7.41	7.40	2.21	2.28	2.40	8	7.50
	12:37		Middle	4.0	17.90	17.90		8.36	8.36		31.70	31.70		94.3	93.8		7.40	7.36		2.50	2.59		7	
27/1/18	14:25	Cloudy	Middle	4.0	16.80	16.80	16.85	8.37	8.37	8.36	30.25	30.25	30.25	90.2	89.8	90.0	7.28	7.26	7.27	5.41	5.42	5.36	4	4.00
	14:27		Middle	4.0	16.90	16.90		8.35	8.35		30.25	30.25		90.1	89.8		7.28	7.25		5.34	5.27		4	
29/1/18	14:05	Cloudy	Middle	4.0	15.80	15.80	15.65	8.33	8.33	8.35	31.62	31.62	31.63	90.1	90.5	90.3	7.40	7.44	7.42	2.50	2.51	2.46	10	9.00
	14:07		Middle	4.0	15.50	15.50		8.36	8.36		31.63	31.63		90.0	90.4		7.39	7.43		2.40	2.44		8	

Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.



**Water Monitoring Result at Culvert J - Reference Station
Mid-Flood Tide**

Date	Time	Weather Condition	Sampling Depth m	Water Temperature °C			pH			Salinity ppt			DO Saturation %		DO mg/L		Turbidity NTU		Suspended Solids mg/L					
				Value	Average		Value	Average		Value	Average		Value	Average	Value	Average	Value	Average	Value	Average				
3/1/18	7:05	Fine	Middle	4.0	18.80	18.80	18.85	8.14	8.14	8.14	31.54	31.54	31.54	93.3	93.5	93.3	7.20	7.21	7.20	7.00	7.06	7.04	6	5.00
	7:07		Middle	4.0	18.90	18.90		8.14	8.14		31.53	31.53		93.3	93.2		7.19	7.18		7.05	7.03		4	
5/1/18	21:45	Cloudy	Middle	3.0	18.70	18.70	18.70	8.07	8.07	8.07	30.58	30.58	30.58	60.4	60.8	60.6	4.79	4.83	4.81	5.18	5.06	5.06	6	6.00
	21:46		Middle	3.0	18.70	18.70		8.07	8.07		30.58	30.58		60.5	60.7		4.80	4.81		5.01	5.00		6	
8/1/18	11:15	Cloudy	Middle	3.5	19.00	19.00	19.00	7.82	7.82	7.88	28.45	28.45	28.45	89.6	89.7	89.5	7.01	7.02	7.01	13.81	13.89	13.82	10	10.00
	11:17		Middle	3.5	19.00	19.00		7.94	7.94		28.44	28.44		89.4	89.4		7.00	7.00		13.79	13.79		10	
10/1/18	11:00	Fine	Middle	3.5	16.50	16.50	16.50	8.16	8.16	8.17	31.28	31.28	31.29	96.9	97.1	96.6	7.83	7.85	7.82	6.75	6.72	6.71	4	3.50
	11:02		Middle	3.5	16.50	16.50		8.18	8.18		31.29	31.29		96.5	96.0		7.80	7.78		6.70	6.67		3	
12/1/18	14:45	Fine	Middle	3.0	17.20	17.20	17.25	8.16	8.16	8.16	30.15	30.15	30.15	94.5	94.8	94.7	7.57	7.60	7.59	9.25	9.30	9.29	8	7.50
	14:47		Middle	3.0	17.30	17.30		8.16	8.16		30.15	30.15		94.9	94.5		7.60	7.57		9.30	9.30		7	
15/1/18	16:35	Fine	Middle	3.5	17.60	17.60	17.70	8.11	8.10	8.11	28.96	28.96	28.96	90.5	90.2	90.2	7.25	7.22	7.22	12.53	12.50	12.47	4	5.00
	16:37		Middle	3.5	17.80	17.80		8.11	8.11		28.95	28.95		90.2	90.0		7.22	7.20		12.44	12.39		6	
17/1/18	17:35	Fine	Middle	3.5	19.00	19.00	19.10	8.07	8.07	8.09	30.57	30.57	30.57	91.5	90.8	90.8	7.06	7.00	7.00	8.40	8.39	8.36	6	7.00
	17:37		Middle	3.5	19.20	19.20		8.10	8.10		30.57	30.57		90.5	90.4		6.98	6.97		8.31	8.35		8	
19/1/18	18:48	Cloudy	Middle	3.0	18.30	18.30	18.30	8.00	8.00	8.00	29.91	29.91	29.91	48.3	47.8	47.6	3.60	3.56	3.55	6.23	6.11	6.12	4	5.00
	18:49		Middle	3.0	18.30	18.30		8.00	8.00		29.91	29.91		47.2	47.0		3.52	3.51		6.09	6.03		6	
23/1/18	9:25	Fine	Middle	3.5	18.00	18.00	18.05	8.19	8.19	8.21	30.41	30.41	30.41	93.7	94.0	93.4	7.38	7.40	7.35	7.86	7.88	7.85	10	11.00
	9:27		Middle	3.5	18.10	18.10		8.22	8.22		30.41	30.41		93.2	92.6		7.34	7.29		7.78	7.86		12	
25/1/18	12:30	Fine	Middle	3.5	18.10	18.10	18.20	8.28	8.28	8.29	30.16	30.16	30.16	92.5	93.0	92.4	7.28	7.32	7.27	5.40	5.50	5.54	9	8.00
	12:32		Middle	3.5	18.30	18.30		8.29	8.29		30.15	30.15		92.2	91.8		7.25	7.22		5.63	5.63		7	
27/1/18	14:20	Cloudy	Middle	4.0	17.10	17.10	17.10	8.39	8.39	8.39	31.86	31.86	31.86	96.2	96.3	95.8	7.66	7.67	7.63	1.56	1.54	1.54	6	5.50
	14:22		Middle	4.0	17.10	17.10		8.39	8.39		31.86	31.86		95.6	95.1		7.61	7.57		1.53	1.52		5	
29/1/18	14:00	Cloudy	Middle	3.5	15.50	15.50	15.40	8.28	8.28	8.29	29.71	29.71	29.71	84.8	85.0	84.6	7.07	7.09	7.06	7.62	7.61	7.60	9	8.50
	14:02		Middle	3.5	15.30	15.30		8.29	8.29		29.71	29.71		84.4	84.1		7.04	7.04		7.59	7.57		8	



**Water Monitoring Result at M5B - Central Colling Water Intake Group
Mid-Ebb Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C			-			ppt			%		mg/L		NTU		mg/L				
					Value	Average		Value	Average		Value	Average		Value	Average		Value	Average	Value	Average	Value	Average	Value	Average
4/1/18	2:25	Cloudy	Middle	3.0	18.60	18.60	18.60	8.12	8.12	8.12	32.49	32.49	32.49	89.1	89.9	90.6	6.86	6.93	6.98	4.36	4.48	4.36	4	5.00
	2:26		Middle	3.0	18.60	18.60		8.12	8.10		8.12	32.49		32.49	32.49		91.4	91.9		90.6	7.04		7.08	
6/1/18	0:15	Cloudy	Middle	3.5	18.10	18.10	18.10	8.12	8.12	8.12	32.34	32.34	32.34	90.1	90.6	90.4	7.04	7.08	7.07	6.37	6.41	6.42	5	4.00
	0:16		Middle	3.5	18.10	18.10		8.12	8.12		8.12	32.34		32.34	32.34		90.0	91.0		90.4	7.03		7.11	
8/1/18	4:52	Cloudy	Middle	3.5	18.40	18.40	18.40	7.97	7.97	7.97	31.17	31.17	31.17	90.5	91.2	90.8	7.06	7.12	7.09	3.09	3.15	3.13	4	4.50
	4:53		Middle	3.5	18.40	18.40		7.97	7.97		7.97	31.17		31.17	31.17		91.2	90.3		90.8	7.12		7.05	
10/1/18	18:03	Cloudy	Middle	3.5	15.20	15.20	15.20	7.94	7.94	7.94	31.88	31.88	31.88	88.8	89.7	89.8	7.33	7.41	7.42	2.64	2.61	2.65	4	3.50
	18:04		Middle	3.5	15.20	15.20		7.94	7.94		7.94	31.88		31.88	31.88		90.4	90.2		89.8	7.47		7.45	
12/1/18	19:30	Fine	Middle	3.5	15.40	15.40	15.40	7.94	7.94	7.94	31.97	31.97	31.97	95.9	95.0	94.6	7.89	7.82	7.79	2.77	2.74	2.74	3	3.00
	19:31		Middle	3.5	15.40	15.40		7.94	7.94		7.94	31.97		31.97	31.97		94.4	93.2		94.6	7.77		7.66	
15/1/18	23:52	Fine	Middle	3.5	16.30	16.30	16.30	7.95	7.95	7.96	32.10	32.10	32.10	93.9	93.1	93.8	7.59	7.53	7.58	2.36	2.38	2.40	2	2.00
	23:53		Middle	3.5	16.30	16.30		7.96	7.96		7.96	32.10		32.10	32.10		94.3	93.9		93.8	7.62		7.59	
18/1/18	1:10	Fine	Middle	3.5	17.10	17.10	17.10	8.11	8.11	8.11	32.06	32.06	32.06	83.8	83.2	83.5	6.66	6.61	6.64	2.12	2.14	2.16	2	2.00
	1:11		Middle	3.5	17.10	17.10		8.11	8.11		8.11	32.06		32.06	32.06		83.5	83.6		83.5	6.64		6.64	
20/1/18	0:14	Cloudy	Middle	3.0	18.30	18.30	18.30	8.07	8.07	8.07	32.01	32.01	32.01	84.0	85.1	83.9	6.20	6.27	6.19	2.36	2.40	2.43	5	4.00
	0:15		Middle	3.0	18.30	18.30		8.07	8.07		8.07	32.01		32.01	32.01		83.6	83.0		83.9	6.16		6.14	
23/1/18	3:17	Cloudy	Middle	3.5	18.20	18.20	18.20	8.14	8.15	8.15	31.61	31.61	31.61	83.6	83.7	83.6	6.52	6.53	6.52	4.76	4.72	4.41	7	5.50
	3:18		Middle	3.5	18.20	18.20		8.15	8.15		8.15	31.61		31.61	31.61		84.6	82.6		83.6	6.59		6.44	
25/1/18	3:17	Cloudy	Middle	3.5	16.90	16.90	16.90	8.27	8.27	8.27	32.17	32.17	32.17	88.6	89.3	88.7	7.05	7.11	7.06	1.80	2.01	1.99	6	5.50
	3:18		Middle	3.5	16.90	16.90		8.27	8.27		8.27	32.17		32.17	32.17		88.8	88.1		88.7	7.06		7.01	
27/1/18	19:25	Cloudy	Middle	3.5	17.70	17.00	17.18	8.31	8.31	8.31	32.29	32.29	32.29	85.3	85.5	85.1	7.36	7.38	7.33	1.75	1.47	1.54	6	5.00
	19:26		Middle	3.5	17.00	17.00		8.31	8.31		8.31	32.29		32.29	32.29		85.0	84.4		85.1	7.33		7.23	
29/1/18	20:50	Cloudy	Middle	3.5	14.80	18.80	15.80	8.31	8.31	8.31	32.25	32.25	32.25	85.9	87.7	86.6	7.21	7.36	7.27	1.04	1.18	1.11	4	3.50
	20:52		Middle	3.5	14.80	14.80		8.31	8.31		8.31	32.25		32.25	32.25		86.7	86.2		86.6	7.28		7.24	

Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

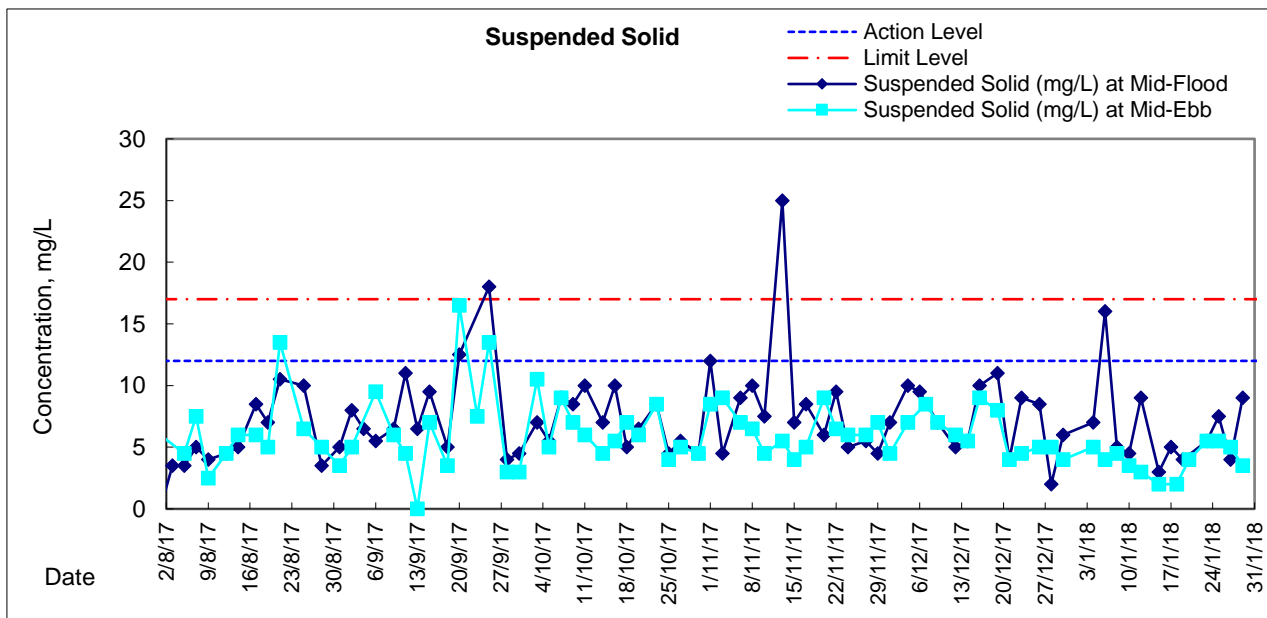
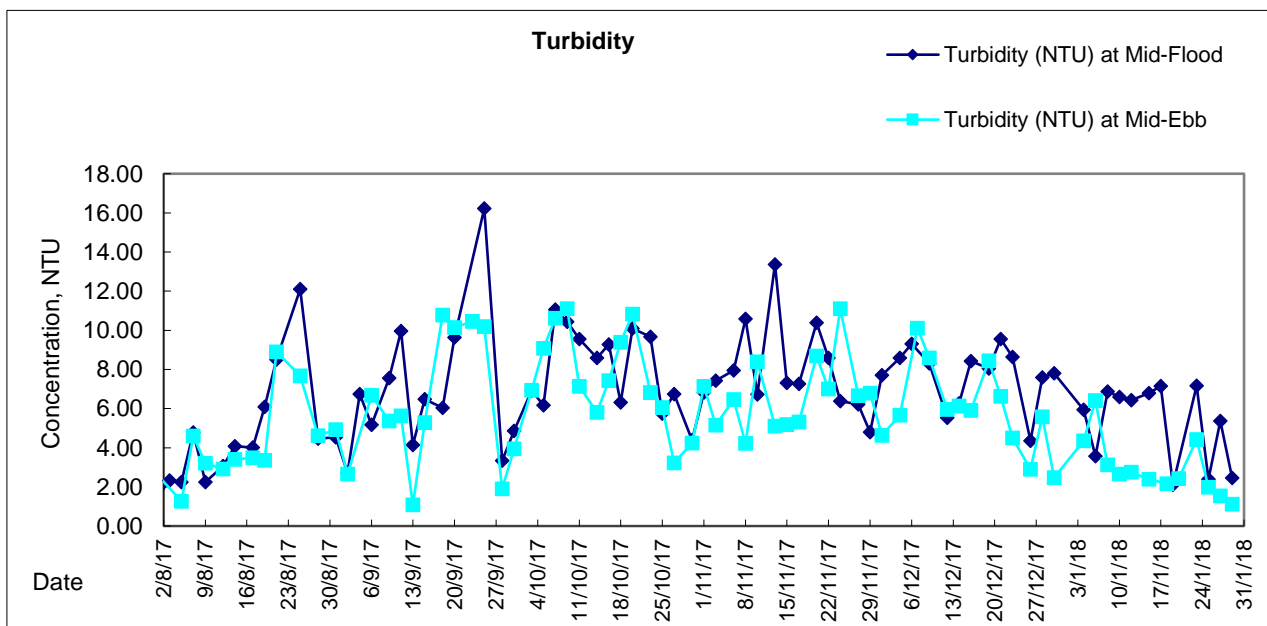
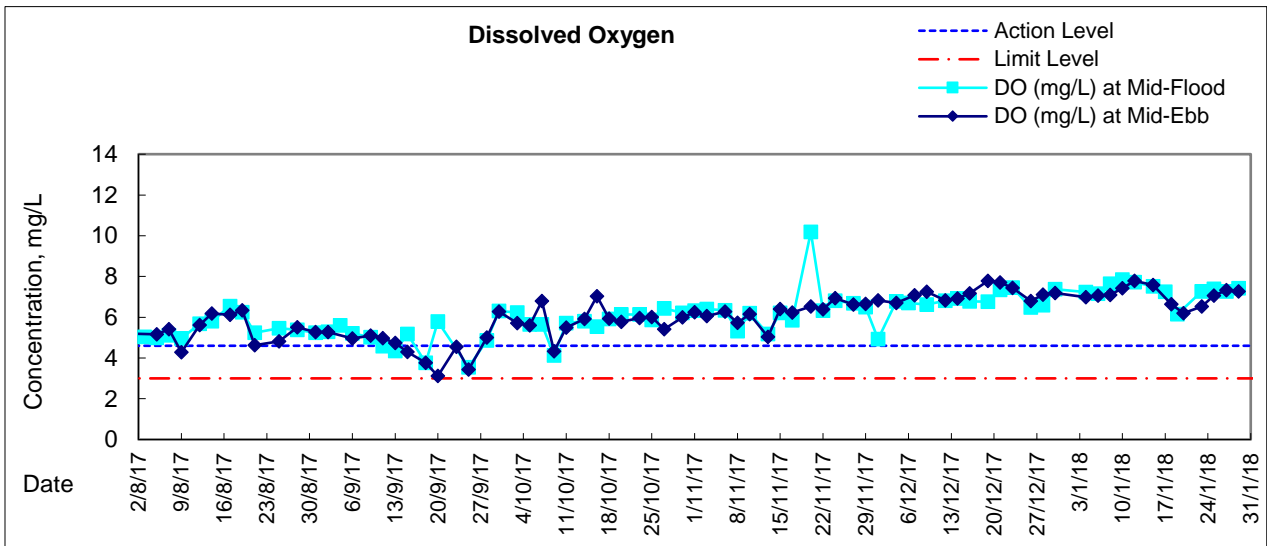


**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
4/1/18	2:33	Cloudy	Middle	3	18.60	18.60	18.60	8.12	8.12	8.12	29.93	29.93	29.93	75.5	75.3	76.3	5.91	5.84	5.96	9.85	9.87	9.78	11	9.50
	2:34		Middle	3	18.60	18.60		8.12	8.12		29.93	29.93		77.2	77.3		6.04	6.05		9.77	9.62		8	
6/1/18	0:23	Cloudy	Middle	3	18.00	18.00	18.00	8.00	8.00	8.00	30.51	30.51	30.51	62.5	62.6	62.9	4.95	4.96	4.98	6.60	6.43	6.39	5	4.00
	0:24		Middle	3	18.00	18.00		7.99	7.99		30.51	30.51		63.2	63.2		5.01	5.01		6.31	6.23		3	
8/1/18	5:15	Cloudy	Middle	3	18.70	18.70	18.70	8.01	8.01	8.01	27.26	27.26	27.26	85.9	85.6	85.6	6.82	6.80	6.79	5.60	5.51	5.42	6	5.50
	5:16		Middle	3	18.70	18.70		8.01	8.01		27.26	27.26		85.7	85.0		6.81	6.74		5.32	5.25		5	
10/1/18	18:15	Cloudy	Middle	3	15.50	15.50	15.50	7.86	7.86	7.86	28.92	28.92	28.92	82.9	83.2	83.7	6.95	6.97	7.02	8.75	8.69	8.65	6	6.00
	18:16		Middle	3	15.50	15.50		7.86	7.86		28.92	28.92		84.2	84.6		7.06	7.10		8.61	8.54		6	
12/1/18	19:35	Fine	Middle	3	15.90	15.90	15.90	7.86	7.86	7.86	28.95	28.95	28.95	83.8	84.1	84.1	6.95	6.97	6.97	9.36	9.43	9.40	4	3.50
	19:36		Middle	3	15.90	15.90		7.86	7.86		28.95	28.95		84.4	83.9		7.00	6.96		9.41	9.39		3	
15/1/18	23:58	Fine	Middle	3	16.40	16.40	16.40	8.08	8.08	8.08	29.44	29.44	29.44	72.1	73.5	73.4	5.90	6.02	6.01	6.15	6.19	6.19	5	4.50
	23:59		Middle	3	16.40	16.40		8.08	8.08		29.44	29.44		73.9	74.0		6.05	6.06		6.12	6.31		4	
18/1/18	1:18	Fine	Middle	3	17.20	17.20	17.20	7.80	7.80	7.80	23.42	23.42	18.42	76.7	77.3	77.5	6.26	6.27	6.29	9.83	9.79	9.76	5	6.00
	1:19		Middle	3	17.20	17.20		7.80	7.80		23.42	3.42		77.9	78.1		6.31	6.33		9.76	9.64		7	
20/1/18	0:23	Cloudy	Middle	3	18.60	18.60	18.60	8.01	8.01	8.01	29.80	29.80	29.80	45.4	45.9	45.6	3.37	3.40	3.39	7.01	7.06	7.04	6	6.00
	0:24		Middle	3	18.60	18.60		8.01	8.01		29.80	29.80		45.7	45.5		3.39	3.38		7.09	6.98		6	
23/1/18	3:24	Cloudy	Middle	3	18.20	18.20	18.20	7.94	7.94	7.94	27.86	27.86	27.86	77.5	77.7	77.9	6.17	6.18	6.21	9.83	9.05	9.18	8	7.50
	3:25		Middle	3	18.20	18.20		7.94	7.94		27.86	27.86		78.4	78.1		6.25	6.22		8.97	8.86		7	
25/1/18	3:24	Cloudy	Middle	3	17.20	17.20	17.20	7.98	7.98	7.98	26.57	26.57	26.57	73.6	72.8	72.9	6.03	5.97	5.97	8.11	7.98	8.03	8	7.50
	3:25		Middle	3	17.20	17.20		7.98	7.98		26.57	26.57		72.9	72.3		5.97	5.92		8.21	7.82		7	
27/1/18	19:31	Cloudy	Middle	3	16.90	16.90	16.90	7.87	7.87	7.87	30.36	30.36	30.36	71.6	72.4	71.8	6.26	6.33	6.28	1.69	1.78	1.55	36	21.50
	19:32		Middle	3	16.90	16.90		7.87	7.87		30.36	30.36		71.9	71.4		6.29	6.24		1.24	1.47		7	
29/1/18	21:00	Cloudy	Middle	3	14.70	14.70	14.70	8.18	8.18	8.18	29.91	29.91	29.91	75.8	76.9	77.4	6.41	6.51	6.55	7.25	7.10	7.47	4	4.00
	21:01		Middle	3	14.70	14.70		8.18	8.18		29.91	29.91		78.8	78.1		6.67	6.61		7.62	7.89		4	



Graphic Presentation of Water Quality Result of M5B - Central Cooling Water Intake Groups





Graphic Presentation of Water Quality Result of Culvert J - Reference Station

