



**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	
03/07/2018	08:25	Cloudy	Middle	4.0	27.30	27.30	27.35	8.10	8.10	8.10	28.08	28.08	28.08	86.2	86.8	86.8	5.83	5.87	5.87	2.47	2.47	2.47	4	3.50
	08:27		Middle	4.0	27.40	27.40		8.10	8.10		28.08	28.08		87.1	87.2		5.89	5.90		2.47	2.46		3	
05/07/2018	09:50	Fine	Middle	4.0	28.70	28.70	28.70	8.04	8.04	8.04	26.70	26.70	26.70	84.3	84.3	83.8	5.62	5.62	5.59	1.98	1.99	2.00	4	4.50
	09:52		Middle	4.0	28.70	28.70		8.04	8.04		26.70	26.70		83.3	83.4		5.55	5.56		2.01	2.00		5	
08/07/2018	23:34	Cloudy	Middle	3.0	32.30	32.30	32.30	8.13	8.13	8.13	27.03	27.03	27.03	78.5	78.3	78.2	4.78	4.77	4.77	1.22	1.53	1.51	7	7.00
	23:35		Middle	3.0	32.30	32.30		8.13	8.13		27.03	27.03		77.2	78.6		4.71	4.80		1.78	1.50		7	
10/07/2018	15:57	Fine	Middle	4.0	29.40	29.40	29.45	8.33	8.33	8.33	27.50	27.50	27.50	69.3	69.7	70.4	4.54	4.57	4.61	3.69	3.68	3.69	6	6.50
	15:59		Middle	4.0	29.50	29.50		8.33	8.33		27.50	27.50		71.0	71.5		4.65	4.68		3.68	3.70		7	
12/07/2018	17:47	Cloudy	Middle	3.0	27.70	27.70	27.70	7.73	7.76	7.76	29.91	29.91	29.91	77.5	75.9	76.3	5.16	5.06	5.09	2.67	2.33	2.45	7	9.00
	17:48		Middle	3.0	27.70	27.70		7.78	7.78		29.91	29.91		76.0	75.8		5.10	5.05		2.41	2.39		11	
14/07/2018	21:45	Cloudy	Middle	3.5	26.10	26.10	26.10	7.94	7.94	7.94	30.54	30.54	30.54	79.6	79.9	79.9	5.42	5.45	5.44	5.02	5.13	5.08	9	10.00
	21:46		Middle	3.5	26.10	26.10		7.94	7.94		30.54	30.54		80.2	79.8		5.46	5.44		5.10	5.08		11	
16/07/2018	09:02	Rainy	Middle	3.5	26.80	26.80	26.80	7.95	7.95	7.97	29.67	29.67	29.67	56.7	57.3	57.1	3.84	3.88	<u>3.86</u>	9.95	9.82	9.83	11	11.00
	09:04		Middle	3.5	26.80	26.80		7.98	7.98		29.67	29.67		57.1	57.2		3.86	3.87		9.77	9.76		11	
18/07/2018	-	Tropical Cyclone Warning Signal No. 3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
21/07/2018	02:40	Fine	Middle	3.5	29.00	29.00	29.00	7.95	7.95	7.95	30.35	30.35	30.35	80.5	78.3	79.8	5.26	5.10	5.21	2.33	2.35	2.25	3	4.00
	02:41		Middle	3.5	29.00	29.00		7.95	7.95		30.35	30.35		81.2	79.0		5.29	5.17		2.16	2.14		5	
24/07/2018	16:35	Cloudy	Middle	3.5	28.80	28.80	28.85	8.16	8.16	8.16	29.49	29.49	29.49	92.9	93.1	92.7	6.09	6.31	6.12	7.01	7.06	7.05	7	8.00
	16:37		Middle	3.5	28.90	28.90		8.16	8.16		29.49	29.49		92.2	92.6		6.02	6.06		7.06	7.07		9	
26/07/2018	21:11	Cloudy	Middle	3.5	29.70	29.70	29.70	7.96	7.96	7.96	28.94	28.94	28.94	74.3	77.3	75.1	4.74	4.94	4.78	1.28	1.27	1.23	6	6.50
	21:12		Middle	3.5	29.70	29.70		7.96	7.96		28.94	28.94		75.3	73.4		4.81	4.64		1.23	1.12		7	
28/07/2018	21:30	Fine	Middle	3.5	29.30	29.30	29.30	8.00	8.00	8.00	29.21	29.21	29.21	81.6	81.2	80.9	5.23	5.21	5.19	1.54	1.10	1.31	3	3.00
	21:31		Middle	3.5	29.30	29.30		8.00	8.00		29.21	29.21		80.7	80.0		5.17	5.13		1.34	1.24		3	
30/07/2018	07:22	Fine	Middle	3.0	28.80	28.80	28.80	8.05	8.05	8.05	28.42	28.42	28.42	76.9	79.1	78.8	5.06	5.21	5.17	1.23	1.19	1.19	2	3.00
	07:23		Middle	3.0	28.80	28.80		8.05	8.05		28.42	28.42		79.9	79.2		5.20	5.21		1.18	1.14		4	

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	Value	Average	Value	Average	Value	Average
03/07/2018	08:20	Cloudy	Middle	3.5	27.60	27.60	27.60	8.07	8.07	8.07	27.79	27.79	27.80	80.1	80.7	80.9	5.41	5.45	5.46	2.86	2.90	2.90	3	3.00
	08:22		Middle	3.5	27.60	27.60		8.07	8.07		27.80	27.80		81.4	81.4		5.49	5.49		2.91	2.92		3	
05/07/2018	09:45	Fine	Middle	3.5	28.70	28.70	28.75	8.05	8.05	8.05	26.26	26.26	26.27	83.2	83.9	84.2	5.57	5.61	5.63	2.76	2.70	2.54	4	4.00
	09:47		Middle	3.5	28.80	28.80		8.05	8.05		26.27	26.27		85.0	84.8		5.67	5.66		2.00	2.70		4	
08/07/2018	23:41	Cloudy	Middle	2.5	32.20	32.20	32.20	7.82	7.82	7.82	25.45	25.45	25.45	35.7	36.9	36.4	2.20	2.26	2.23	2.53	2.50	2.58	8	7.00
	23:42		Middle	2.5	32.20	32.20		7.82	7.82		25.45	25.45		35.8	37.1		2.20	2.26		2.79	2.48		6	
10/07/2018	15:52	Fine	Middle	3.5	29.50	29.50	29.65	8.30	8.30	8.30	26.75	26.75	26.75	52.3	52.5	55.9	3.43	3.46	3.66	3.95	3.87	3.74	8	8.00
	15:54		Middle	3.5	29.80	29.80		8.30	8.30		26.74	26.74		59.3	59.4		3.87	3.87		3.57	3.57		8	
12/07/2018	18:00	Cloudy	Middle	3.0	27.80	27.80	27.78	7.59	7.59	7.58	26.99	26.99	26.99	58.0	58.8	59.6	3.92	3.98	4.03	2.14	1.97	2.06	9	8.50
	18:01		Middle	3.0	27.80	27.70		7.57	7.57		26.99	26.99		60.9	60.5		4.11	4.09		2.03	2.11		8	
14/07/2018	21:54	Cloudy	Middle	3.0	26.00	26.00	26.00	7.92	7.92	7.92	20.02	20.02	20.02	33.4	34.3	33.8	2.42	2.48	2.44	1.23	1.10	1.18	10	9.50
	21:55		Middle	3.0	26.00	26.00		7.92	7.92		20.02	20.02		33.6	33.7		2.43	2.44		1.20	1.17		9	
16/07/2018	08:58	Rainy	Middle	3.5	27.00	27.00	27.05	7.88	7.88	7.90	29.59	29.59	29.59	54.4	54.4	54.3	3.67	3.67	3.66	9.64	9.68	9.68	10	9.50
	09:00		Middle	3.5	27.10	27.10		7.91	7.91		29.59	29.58		54.2	54.0		3.66	3.64		9.69	9.69		9	
18/07/2018	-	Tropical Cyclone Warning Signal No. 3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
21/07/2018	02:47	Fine	Middle	3.0	29.00	29.00	29.00	7.75	7.75	7.75	26.67	26.67	26.67	32.5	33.0	33.0	2.16	2.21	2.20	1.39	1.45	1.43	3	3.00
	02:48		Middle	3.0	29.00	29.00		7.75	7.75		26.67	26.67		33.4	33.1		2.22	2.20		1.40	1.47		3	
24/07/2018	16:30	Cloudy	Middle	3.5	29.20	29.20	29.25	8.12	8.12	8.14	29.43	29.43	29.43	97.3	97.1	96.6	6.33	6.32	6.28	7.01	7.06	7.03	6	6.00
	16:32		Middle	3.5	29.30	29.30		8.15	8.15		29.43	29.43		96.1	95.8		6.25	6.22		7.00	7.03		6	
26/07/2018	21:19	Cloudy	Middle	3.0	29.60	29.60	29.60	7.57	7.57	7.57	24.81	24.81	24.81	44.2	44.6	43.9	2.87	2.92	2.87	1.14	1.28	1.23	8	8.00
	21:20		Middle	3.0	29.60	29.60		7.57	7.57		24.81	24.81		42.8	44.1		2.80	2.89		1.31	1.20		8	
28/07/2018	21:39	Fine	Middle	3.0	29.20	29.20	29.20	7.69	7.69	7.69	24.67	24.67	24.67	54.9	54.9	62.3	3.62	3.68	3.63	1.21	1.18	1.18	4	4.00
	21:40		Middle	3.0	29.20	29.20		7.69	7.69		24.67	24.67		84.8	54.4		3.61	3.60		1.15	1.17		4	
30/07/2018	07:30	Fine	Middle	3.0	29.10	29.10	29.10	7.84	7.84	7.84	25.31	25.31	25.31	66.5	67.1	66.3	4.30	4.34	4.29	1.30	1.21	1.25	2	2.00
	07:31		Middle	3.0	29.10	29.10		7.84	7.84		25.31	25.31		66.0	65.7		4.27	4.25		1.26	1.23		2	

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



**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				
03/07/2018	15:35	Cloudy	Middle	4.0	28.20	28.20	28.20	8.07	8.07	8.07	26.77	26.77	26.77	75.9	76.3	76.8	5.11	5.13	5.16	2.86	2.84	2.85	4	4.50
	15:37		Middle	4.0	28.20	28.20		8.07	8.07		26.77	26.77		77.4	77.5		5.20	5.21		2.84	2.85		5	
05/07/2018	14:35	Cloudy	Middle	4.0	27.90	27.90	27.90	8.13	8.13	8.13	26.61	26.61	26.61	78.0	77.7	77.1	5.28	5.25	5.21	2.76	2.76	2.74	5	4.50
	14:37		Middle	4.0	27.90	27.90		8.13	8.13		26.61	26.61		76.3	76.2		5.16	5.15		2.73	2.72		4	
07/07/2018	18:54	Cloudy	Middle	3.0	32.20	32.20	32.20	8.12	8.10	8.12	27.02	27.02	27.02	77.5	78.8	77.7	4.75	4.81	4.75	1.09	1.18	1.14	6	4.50
	18:55		Middle	3.0	32.20	32.20		8.12	8.12		27.02	27.02		77.2	77.4		4.72	4.73		1.16	1.13		3	
10/07/2018	09:46	Cloudy	Middle	3.5	27.70	27.70	27.70	8.26	8.26	8.27	28.08	28.08	28.08	72.8	72.3	72.1	4.90	4.87	4.85	3.12	3.12	3.15	6	6.00
	09:48		Middle	3.5	27.70	27.70		8.27	8.27		28.07	28.07		71.9	71.2		4.83	4.79		3.16	3.18		6	
12/07/2018	11:35	Fine	Middle	4.0	27.70	27.70	27.75	8.15	8.15	8.15	29.40	29.40	29.40	80.2	80.0	79.0	5.35	5.32	5.26	4.63	4.62	4.62	5	4.50
	11:37		Middle	4.0	27.80	27.80		8.15	8.15		29.40	29.40		78.1	77.5		5.20	5.15		4.61	4.62		4	
14/07/2018	11:25	Cloudy	Middle	4.0	27.00	27.00	27.05	8.10	8.10	8.11	30.82	30.82	30.83	86.9	87.2	87.2	5.81	5.83	5.83	6.02	6.00	6.00	7	7.50
	11:27		Middle	4.0	27.10	27.10		8.12	8.12		30.84	30.84		87.2	87.3		5.83	5.83		6.00	5.99		8	
16/07/2018	14:10	Fine	Middle	4.0	27.40	27.40	27.45	8.13	8.13	8.13	29.93	29.93	29.93	88.2	87.5	87.7	5.90	5.85	5.86	7.40	7.30	7.34	5	6.00
	14:12		Middle	4.0	27.50	27.50		8.13	8.13		29.93	29.93		87.4	87.7		5.84	5.86		7.32	7.33		7	
18/07/2018	15:35	Cloudy	Middle	4.0	27.40	27.40	27.40	7.89	7.89	7.90	30.40	30.40	30.40	92.4	93.0	92.8	6.12	6.20	6.17	6.23	6.23	6.24	8	8.50
	15:37		Middle	4.0	27.40	27.40		7.91	7.91		30.39	30.39		92.8	92.8		6.19	6.16		6.24	6.25		9	
20/07/2018	18:11	Fine	Middle	3.5	28.30	28.30	28.35	8.06	8.06	8.07	31.10	31.10	31.09	57.9	57.4	58.2	3.79	3.76	<u>3.81</u>	4.69	4.60	4.61	4	4.50
	18:13		Middle	3.5	28.40	28.40		8.07	8.07		31.08	31.08		58.3	59.2		3.82	3.87		4.57	4.57		5	
24/07/2018	10:10	Cloudy	Middle	4.0	28.80	28.80	28.80	8.01	8.01	8.02	30.11	30.11	30.11	92.7	93.1	92.9	6.05	6.08	6.06	5.68	5.60	5.62	7	6.50
	10:12		Middle	4.0	28.80	28.80		8.02	8.02		30.11	30.11		93.0	92.7		6.07	6.05		5.60	5.60		6	
26/07/2018	10:30	Fine	Middle	4.0	29.50	29.50	29.50	8.01	8.01	8.02	29.29	29.29	29.29	91.1	90.8	90.9	5.91	5.89	5.90	4.06	4.08	4.11	6	7.00
	10:32		Middle	4.0	29.50	29.50		8.02	8.02		29.28	29.28		91.0	90.7		5.90	5.89		4.17	4.14		8	
28/07/2018	11:45	Fine	Middle	4.0	29.40	29.40	29.45	8.03	8.03	8.04	29.42	29.42	29.42	82.8	83.3	83.8	5.38	5.41	5.44	2.56	2.56	2.56	4	4.00
	11:47		Middle	4.0	29.50	29.50		8.04	8.04		29.42	29.42		84.4	84.6		5.48	5.49		2.56	2.57		4	
30/07/2018	11:30	Fine	Middle	4.0	29.70	29.70	29.75	8.06	8.06	8.07	29.32	29.32	29.32	92.0	92.7	92.2	5.95	5.99	5.96	2.70	2.70	2.70	<2	2.00
	11:32		Middle	4.0	29.80	29.80		8.07	8.07		29.31	29.31		91.9	92.1		5.94	5.94		2.70	2.71		2	

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



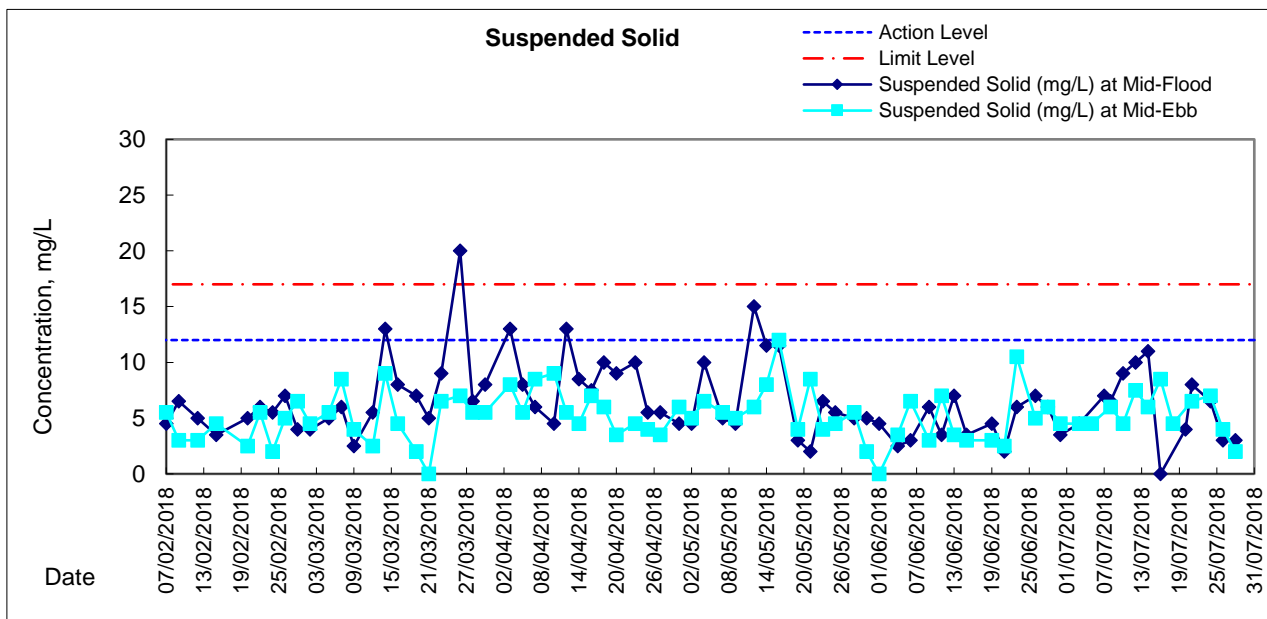
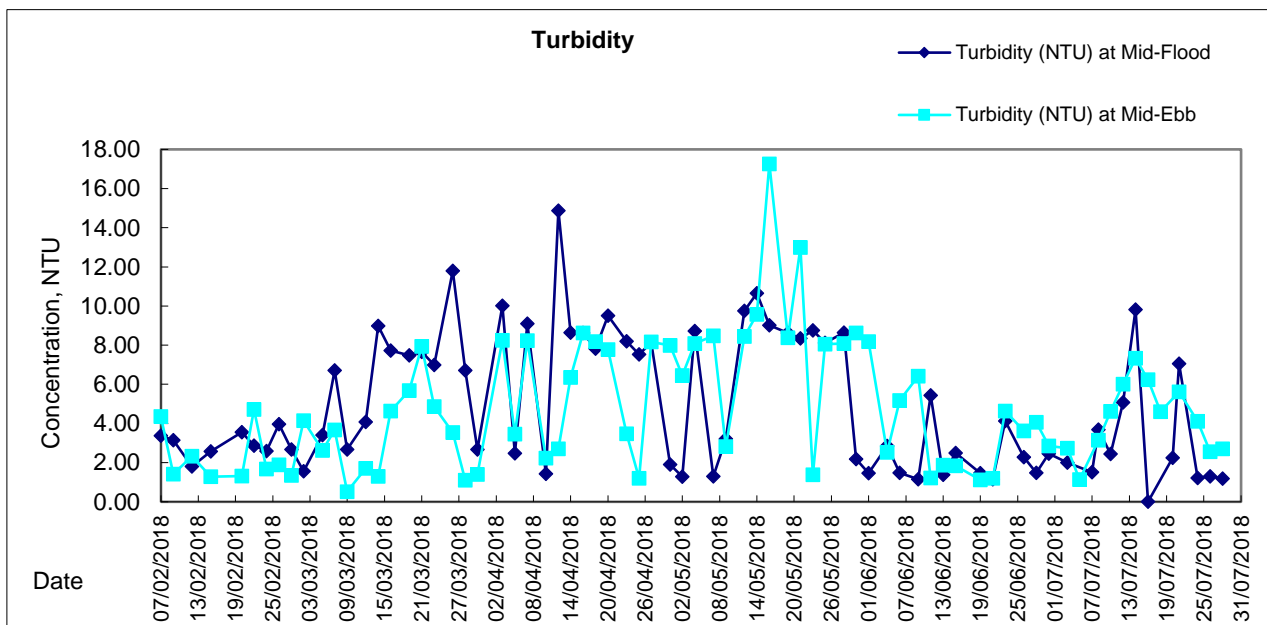
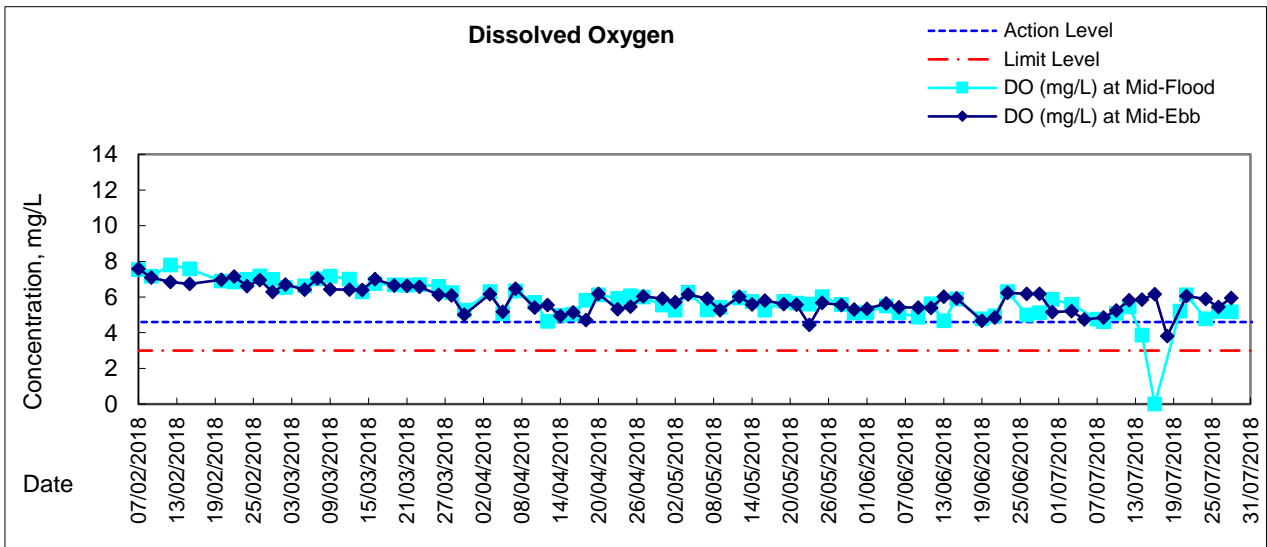
**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

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				
03/07/2018	15:30	Cloudy	Middle	4	28.30	28.30	28.30	8.01	8.01	8.01	26.75	26.75	26.75	69.9	69.9	70.0	4.69	4.69	4.70	2.85	2.85	2.84	4	4.50
	15:32		Middle	4	28.30	28.30		8.01	8.01		26.75	26.75		70.0	70.3		4.70	4.71		2.84	2.82		5	
05/07/2018	14:30	Cloudy	Middle	4	28.10	28.10	28.20	8.12	8.12	8.12	26.67	26.67	26.67	81.6	81.5	81.7	5.48	5.48	5.50	3.02	3.00	2.99	6	5.50
	14:32		Middle	4	28.30	28.30		8.12	8.12		26.66	26.66		81.9	81.8		5.56	5.49		2.99	2.96		5	
07/07/2018	19:02	Cloudy	Middle	3	32.10	32.10	32.10	7.80	7.79	7.79	25.39	25.39	25.39	40.3	41.4	41.5	2.49	2.55	2.56	1.69	1.65	1.77	6	5.00
	19:03		Middle	3	32.10	32.10		7.79	7.79		25.39	25.39		41.3	43.1		2.55	2.66		1.84	1.91		4	
10/07/2018	09:50	Cloudy	Middle	4	27.70	27.70	27.70	8.28	8.28	8.28	28.06	28.06	28.07	66.6	66.4	66.1	4.49	4.46	4.45	2.34	2.38	2.38	5	5.00
	09:52		Middle	4	27.70	27.70		8.28	8.28		28.07	28.07		65.9	65.6		4.43	4.42		2.40	2.41		5	
12/07/2018	11:30	Fine	Middle	4	28.30	28.30	28.40	8.09	8.09	8.09	28.62	28.62	28.62	77.8	77.6	77.6	5.14	5.13	5.13	4.53	4.55	4.53	2	2.00
	11:32		Middle	4	28.50	28.50		8.09	8.09		28.62	28.62		77.5	77.6		5.13	5.13		4.51	4.52		2	
14/07/2018	11:30	Cloudy	Middle	4	26.80	26.80	26.85	8.13	8.13	8.13	30.44	30.44	30.44	84.4	84.2	84.4	5.68	5.66	5.68	6.22	6.23	6.22	9	9.00
	11:32		Middle	4	26.90	26.90		8.13	8.13		30.44	30.44		84.1	84.9		5.65	5.71		6.20	6.24		9	
16/07/2018	14:05	Fine	Middle	4	27.60	27.60	27.65	8.11	8.11	8.12	29.94	29.94	29.94	85.9	96.1	88.4	5.72	5.74	5.73	6.03	6.02	6.02	6	6.50
	14:07		Middle	4	27.70	27.70		8.12	8.12		29.94	29.94		85.8	85.9		5.72	5.72		6.02	6.02		7	
18/07/2018	15:30	Cloudy	Middle	4	27.40	27.40	27.40	7.76	7.76	7.85	30.80	30.80	30.81	93.6	93.7	93.9	6.24	9.24	7.01	6.52	6.51	6.51	7	7.00
	15:32		Middle	4	27.40	27.40		7.93	7.93		30.81	30.81		94.2	93.9		6.28	6.26		6.51	6.51		7	
20/07/2018	18:07	Fine	Middle	4	28.40	28.40	28.45	8.03	8.03	8.04	31.00	31.00	31.00	60.5	60.2	60.3	3.95	3.93	3.93	4.66	4.66	4.67	<2	<2
	18:09		Middle	4	28.50	28.50		8.04	8.04		31.00	31.00		60.1	60.2		3.92	3.93		4.67	4.67		<2	
24/07/2018	10:05	Cloudy	Middle	4	29.00	29.00	29.10	7.95	7.95	7.96	30.12	30.12	30.12	95.0	94.2	94.2	6.17	6.12	6.12	5.89	5.91	5.93	5	5.00
	10:07		Middle	4	29.20	29.20		7.97	7.97		30.11	30.11		93.8	93.9		6.09	6.09		5.92	5.98		5	
26/07/2018	10:25	Fine	Middle	4	29.70	29.70	29.75	7.94	7.94	7.96	29.33	29.33	29.33	95.6	94.9	94.9	6.17	6.13	6.12	3.96	3.95	3.92	4	5.00
	10:28		Middle	4	29.80	29.80		7.98	7.98		29.33	29.33		94.5	94.4		6.10	6.09		3.87	3.88		6	
28/07/2018	11:40	Fine	Middle	4	29.90	29.90	29.85	8.00	8.00	8.00	27.98	27.98	28.08	90.7	90.6	89.3	5.90	5.89	5.79	3.57	3.56	3.57	3	3.50
	11:42		Middle	4	29.80	29.80		8.00	8.00		28.18	28.18		87.6	88.1		5.67	5.71		3.58	3.58		4	
30/07/2018	11:25	Fine	Middle	4	30.10	30.10	30.15	8.02	8.02	8.03	29.37	29.37	29.37	95.2	94.1	93.2	6.11	6.03	5.97	3.07	3.14	3.12	3	3.50
	11:27		Middle	4	30.20	30.20		8.03	8.03		29.37	29.37		91.4	91.9		5.86	5.88		3.16	3.10		4	

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



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





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

