



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH		Salinity		DO Saturation		DO		Turbidity		Suspended Solids							
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
02/01/2019	12:40	Cloudy	Middle	4.0	18.20	18.20	18.20	6.83	6.83	6.83	33.42	33.42	33.42	80.4	80.7	80.9	6.20	6.23	6.24	7.66	7.66	7.67	9	9.50
	12:42		Middle	4.0	18.20	18.20	18.20	6.83	6.83	6.83	33.42	33.42	33.42	81.2	81.2	80.9	6.27	6.27	6.24	7.66	7.68	7.67	10	
04/01/2019	14:25	Fine	Middle	4.0	19.50	19.50	19.50	7.66	7.66	7.67	33.65	33.65	33.65	92.3	92.3	92.2	6.94	6.95	6.94	5.70	5.80	5.78	5	4.50
	14:27		Middle	4.0	19.50	19.50	19.50	7.68	7.68	7.67	33.64	33.64	33.65	92.1	92.0	92.2	6.93	6.92	6.94	5.82	5.81	5.78	4	
07/01/2019	09:55	Cloudy	Middle	4.0	18.80	18.80	18.80	8.11	8.11	8.11	33.49	33.49	33.49	92.4	92.6	92.1	7.04	7.06	7.02	4.41	4.42	4.42	4	4.00
	09:57		Middle	4.0	18.80	18.80	18.80	8.11	8.11	8.11	33.49	33.49	33.49	91.6	91.9	92.1	6.99	7.00	7.02	4.42	4.43	4.42	4	
09/01/2019	09:05	Cloudy	Middle	4.0	18.80	18.80	18.80	8.02	8.02	8.03	33.33	33.33	33.33	90.4	90.5	90.3	6.90	6.91	6.90	5.59	5.58	5.57	4	4.00
	09:07		Middle	4.0	18.80	18.80	18.80	8.03	8.03	8.03	33.33	33.33	33.33	90.3	90.1	90.3	6.90	6.88	6.90	5.56	5.56	5.57	4	
11/01/2019	12:30	Cloudy	Middle	4.0	20.00	20.00	20.05	8.18	8.18	8.20	32.72	32.72	32.72	101.2	101.1	100.5	7.50	7.56	7.50	8.41	8.40	8.41	3	3.00
	12:32		Middle	4.0	20.10	20.10	20.05	8.21	8.21	8.20	32.72	32.72	32.72	99.8	99.9	100.5	7.46	7.46	7.50	8.40	8.42	8.41	3	
14/01/2019	12:25	Cloudy	Middle	4.0	19.20	19.20	19.20	8.62	8.62	8.62	32.25	32.25	32.25	94.3	94.4	93.9	7.19	7.20	7.16	1.80	1.80	1.81	3	3.00
	12:27		Middle	4.0	19.20	19.20	19.20	8.63	8.60	8.62	32.25	32.25	32.25	93.3	93.4	93.9	7.12	7.13	7.16	1.81	1.82	1.81	3	
16/01/2019	14:20	Cloudy	Middle	4.0	18.60	18.60	18.60	8.69	8.68	8.69	31.96	31.96	31.96	98.7	98.7	98.5	7.63	7.61	7.61	1.65	1.58	1.61	3	3.50
	14:22		Middle	4.0	18.60	18.60	18.60	8.69	8.69	8.69	31.96	31.96	31.96	98.3	98.2	98.5	7.60	7.59	7.61	1.57	1.62	1.61	4	
18/01/2019	15:45	Cloudy	Middle	4.0	19.00	19.00	19.00	7.61	7.61	7.62	31.25	31.25	31.25	94.8	95.2	95.1	7.26	7.30	7.29	0.68	0.68	0.68	3	3.50
	15:47		Middle	4.0	19.00	19.00	19.00	7.61	7.63	7.62	31.25	31.25	31.25	95.2	95.1	95.1	7.29	7.29	7.29	0.68	0.68	0.68	4	
21/01/2019	04:31	Cloudy	Middle	3.0	17.80	17.80	17.80	7.81	7.81	7.81	31.99	31.99	31.99	87.8	83.6	84.8	6.49	6.56	6.55	3.51	3.34	3.30	10	9.50
	04:32		Middle	3.0	17.80	17.80	17.80	7.81	7.81	7.81	31.99	31.99	31.99	84.2	83.7	84.8	6.60	6.56	6.55	3.21	3.13	3.30	9	
23/01/2019	08:20	Fine	Middle	4.0	16.90	16.90	16.90	8.16	8.16	8.18	31.22	31.22	31.22	95.9	96.1	96.1	7.70	7.72	7.72	2.75	2.75	2.75	6	5.50
	08:22		Middle	4.0	16.90	16.90	16.90	8.19	8.19	8.18	31.22	31.22	31.22	96.3	96.2	96.1	7.73	7.72	7.72	2.75	2.74	2.75	5	
25/01/2019	16:05	Fine	Middle	4.0	19.70	19.70	19.75	8.14	8.14	8.15	30.98	30.98	30.98	97.8	97.9	98.1	7.44	7.45	7.46	2.44	2.43	2.43	9	9.00
	16:07		Middle	4.0	19.80	19.80	19.75	8.15	8.15	8.15	30.98	30.98	30.98	98.2	98.3	98.1	7.48	7.48	7.46	2.42	2.42	2.43	9	
28/01/2019	14:25	Fine	Middle	4.0	18.60	18.60	18.60	8.27	8.27	8.28	31.09	31.09	31.09	103.2	103.4	103.3	8.02	8.04	7.99	3.74	3.75	3.75	7	7.50
	14:27		Middle	4.0	18.60	18.60	18.60	8.28	8.28	8.28	31.09	31.09	31.09	103.0	103.7	103.3	8.00	7.89	7.99	3.76	3.76	3.75	8	
30/01/2019	14:05	Fine	Middle	4.0	18.90	18.90	18.95	8.26	8.26	8.27	31.01	31.01	31.01	107.6	107.5	107.4	8.31	8.29	8.29	2.13	2.13	2.14	4	4.00
	14:07		Middle	4.0	19.00	19.00	18.95	8.28	8.28	8.27	31.01	31.01	31.01	107.4	107.2	107.4	8.28	8.27	8.29	2.14	2.17	2.14	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		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
02/01/2019	12:35	Cloudy	Middle	3.5	18.30	18.30	18.25	6.82	6.82	6.83	33.68	33.68	33.68	78.1	78.2	78.8	6.01	6.05	6.08	4.24	4.25	4.27	4	4.00
	12:37		Middle	3.5	18.20	18.20		6.83	6.83		33.68	33.68		79.4	79.6		6.12	6.13		4.29	4.30		4	
04/01/2019	14:20	Fine	Middle	3.5	19.90	19.90	19.90	7.64	7.64	7.65	31.55	31.55	31.55	88.3	88.4	87.4	6.67	6.68	6.60	7.15	7.14	7.17	4	4.50
	14:22		Middle	3.5	19.90	19.90		7.66	7.66		31.55	31.55		87.0	85.9		6.57	6.49		7.17	7.21		5	
07/01/2019	09:50	Cloudy	Middle	3.5	18.90	18.90	18.90	8.09	8.09	8.10	33.22	33.22	32.73	92.1	92.6	92.3	7.03	7.07	7.05	4.43	4.43	4.43	4	3.50
	09:52		Middle	3.5	18.90	18.90		8.10	8.10		32.23	32.23		92.2	92.2		7.04	7.04		4.43	4.41		3	
09/01/2019	09:00	Cloudy	Middle	3.5	18.70	18.70	18.70	7.89	7.89	7.91	33.23	33.23	33.24	95.8	96.1	94.7	7.33	7.36	7.25	5.75	5.72	5.73	4	4.50
	09:02		Middle	3.5	18.70	18.70		7.93	7.93		33.25	33.25		93.2	93.5		7.13	7.17		5.72	5.74		5	
11/01/2019	12:25	Cloudy	Middle	4.0	20.00	20.00	20.05	8.26	8.26	8.27	31.32	31.32	31.32	97.7	99.2	98.7	7.38	7.49	7.46	8.66	8.67	8.67	4	3.50
	12:27		Middle	4.0	20.10	20.10		8.27	8.27		31.31	31.31		99.0	99.0		7.48	7.48		8.68	8.68		3	
14/01/2019	12:20	Cloudy	Middle	3.5	19.20	19.20	19.25	8.59	8.59	8.60	31.95	31.95	31.95	95.5	94.7	94.3	7.30	7.23	7.20	1.96	1.97	1.97	4	4.00
	12:22		Middle	3.5	19.30	19.30		8.60	8.60		31.95	31.95		93.5	93.3		7.13	7.12		1.97	1.96		4	
16/01/2019	14:15	Cloudy	Middle	4.0	18.70	18.70	18.75	8.67	8.67	8.68	31.92	31.92	31.92	101.9	101.6	100.6	7.85	7.87	7.76	1.27	1.27	1.26	6	5.50
	14:17		Middle	4.0	18.80	18.80		8.68	8.68		31.92	31.92		99.5	99.2		7.68	7.64		1.24	1.24		5	
18/01/2019	15:40	Cloudy	Middle	4.0	18.20	18.20	18.30	7.89	7.89	7.89	31.69	31.69	31.69	107.4	108.0	106.9	8.35	8.38	8.32	1.49	1.49	1.49	5	4.50
	15:42		Middle	4.0	18.40	18.40		7.88	7.88		31.68	31.68		106.0	106.1		8.26	8.27		1.48	1.49		4	
21/01/2019	04:39	Cloudy	Middle	2.5	17.80	17.80	17.85	7.82	7.82	7.82	31.49	31.49	31.49	82.4	82.8	82.6	6.47	6.50	6.47	3.99	3.66	3.84	4	4.50
	04:40		Middle	2.5	17.90	17.90		7.82	7.82		31.49	31.49		83.5	81.7		6.48	6.41		3.83	3.86		5	
23/01/2019	08:15	Fine	Middle	4.0	16.90	16.90	16.90	8.05	8.05	8.07	31.04	31.04	31.04	96.4	96.0	96.2	7.73	7.70	7.72	3.08	3.11	3.11	5	4.50
	08:17		Middle	4.0	16.90	16.90		8.09	8.09		31.04	31.04		96.1	96.2		7.72	7.72		3.12	3.11		4	
25/01/2019	16:00	Fine	Middle	3.5	19.80	19.80	19.80	8.11	8.11	8.12	30.79	30.79	30.79	97.3	98.2	98.1	7.39	7.45	7.44	2.83	2.82	2.85	12	10.00
	16:02		Middle	3.5	19.80	19.80		8.13	8.13		30.78	30.78		98.4	98.5		7.46	7.46		2.88	2.88		8	
28/01/2019	14:20	Fine	Middle	4.0	19.00	19.00	19.05	8.22	8.22	8.23	30.78	30.78	30.77	103.3	103.2	102.9	7.94	7.93	7.92	2.84	2.91	2.99	6	5.50
	14:22		Middle	4.0	19.10	19.10		8.24	8.24		30.76	30.76		102.7	102.5		7.92	7.90		3.11	3.09		5	
30/01/2019	14:00	Fine	Middle	4.0	19.50	19.50	19.55	8.17	8.17	8.19	30.82	30.82	30.82	107.0	107.0	106.7	8.19	8.19	8.16	2.51	2.68	2.54	4	3.50
	14:02		Middle	4.0	19.60	19.60		8.21	8.21		30.82	30.82		106.2	106.4		8.12	8.13		2.51	2.45		3	

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
02/01/2019	23:45	Cloudy	Middle	3.0	17.60	17.60	17.60	8.48	8.51	8.50	29.83	29.83	29.83	85.3	86.2	85.2	6.82	6.89	6.82	5.32	5.23	5.23	5	5.00
	23:46		Middle	3.0	17.60	17.60		8.51	8.51		29.83	29.83		85.1	84.3		6.81	6.74		5.20	5.17		5	
04/01/2019	01:19	Cloudy	Middle	3.0	19.30	19.30	19.30	8.57	8.57	8.57	32.19	32.19	32.19	87.6	88.3	88.0	6.66	6.72	6.69	5.18	5.21	5.14	2	2.50
	01:20		Middle	3.0	19.30	19.30		8.57	8.57		32.19	32.19		88.1	87.9		6.70	6.68		5.01	5.16		3	
07/01/2019	01:32	Cloudy	Middle	3.0	18.20	18.20	18.20	8.63	8.63	8.63	32.86	32.86	32.86	84.0	86.4	86.1	6.51	6.70	6.67	4.83	4.81	4.92	4	3.50
	01:33		Middle	3.0	18.20	18.20		8.63	8.63		32.86	32.86		87.5	86.3		6.78	6.69		5.07	4.98		3	
09/01/2019	02:51	Cloudy	Middle	3.5	18.40	18.40	18.40	8.50	8.50	8.50	32.55	32.55	32.55	88.0	89.5	89.2	6.68	6.80	6.78	4.35	4.27	4.21	2	3.00
	02:52		Middle	3.5	18.40	18.40		8.50	8.50		32.55	32.55		89.9	89.5		6.83	6.80		4.07	4.14		4	
11/01/2019	03:40	Cloudy	Middle	3.5	18.70	18.70	18.70	8.68	8.68	8.68	32.42	32.42	32.42	93.1	93.2	93.4	7.17	7.18	7.19	5.25	5.22	5.17	4	3.00
	03:41		Middle	3.5	18.70	18.70		8.68	8.68		32.42	32.42		93.8	93.4		7.22	7.19		5.14	5.08		2	
14/01/2019	02:32	Cloudy	Middle	3.5	18.70	18.70	18.70	8.55	8.55	8.55	32.29	32.29	32.29	92.2	93.3	92.2	7.09	7.18	7.09	1.23	1.14	1.14	3	3.00
	02:33		Middle	3.5	18.70	18.70		8.55	8.55		32.29	32.29		91.7	91.4		7.06	7.04		1.11	1.07		3	
16/01/2019	21:24	Cloudy	Middle	3.5	17.80	17.80	17.80	8.64	8.64	8.64	31.11	31.11	31.11	90.1	89.4	89.6	7.10	7.04	7.06	2.24	2.11	2.12	4	4.00
	21:25		Middle	3.5	17.80	17.80		8.64	8.64		31.11	31.11		89.6	89.3		7.06	7.04		2.04	2.08		4	
18/01/2019	21:18	Cloudy	Middle	3.5	18.80	18.80	18.80	7.79	7.79	7.79	32.17	32.17	32.17	85.5	87.2	86.9	6.45	6.56	6.55	1.77	1.60	1.61	5	4.50
	21:19		Middle	3.5	18.80	18.80		7.79	7.79		32.17	32.17		87.3	87.6		6.59	6.61		1.56	1.50		4	
21/01/2019	00:27	Cloudy	Middle	3.5	17.80	17.80	17.80	7.79	7.79	7.79	31.95	31.95	31.95	82.5	84.4	83.6	6.47	6.62	6.56	1.87	1.91	1.81	4	3.50
	00:28		Middle	3.5	17.80	17.80		7.79	7.79		31.95	31.95		83.8	83.5		6.58	6.55		1.83	1.63		3	
23/01/2019	02:23	Cloudy	Middle	3.5	16.00	16.00	16.00	8.13	8.13	8.13	30.05	30.05	30.05	86.8	88.8	88.3	7.13	7.30	7.26	2.48	2.51	2.52	2	2.00
	02:24		Middle	3.5	16.00	16.00		8.13	8.13		30.05	30.05		89.0	88.5		7.32	7.28		2.53	2.56		2	
25/01/2019	11:45	Fine	Middle	4.0	19.10	19.10	19.15	8.19	0.18	6.19	31.12	31.12	31.13	99.7	99.8	99.6	7.66	7.67	7.65	3.50	3.44	3.45	7	7.50
	11:47		Middle	4.0	19.20	19.20		8.19	8.19		31.13	31.13		99.4	99.3		7.64	7.63		3.41	3.46		8	
28/01/2019	20:18	Cloudy	Middle	3.5	17.30	17.30	17.30	8.41	8.41	8.41	31.09	31.09	31.09	85.5	84.7	88.0	6.82	6.75	7.01	3.54	3.19	3.27	6	6.00
	20:19		Middle	3.5	17.30	17.30		8.41	8.41		31.09	31.09		89.7	91.9		7.14	7.32		3.14	3.21		6	
30/01/2019	22:37	Cloudy	Middle	3.0	18.90	18.90	18.90	8.28	8.28	8.28	31.05	31.05	31.05	87.9	91.6	90.4	6.43	6.69	6.61	1.65	1.62	1.67	4	3.00
	22:38		Middle	3.0	18.90	18.90		8.28	8.28		31.05	31.05		93.4	88.6		6.83	6.47		1.75	1.67		2	

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



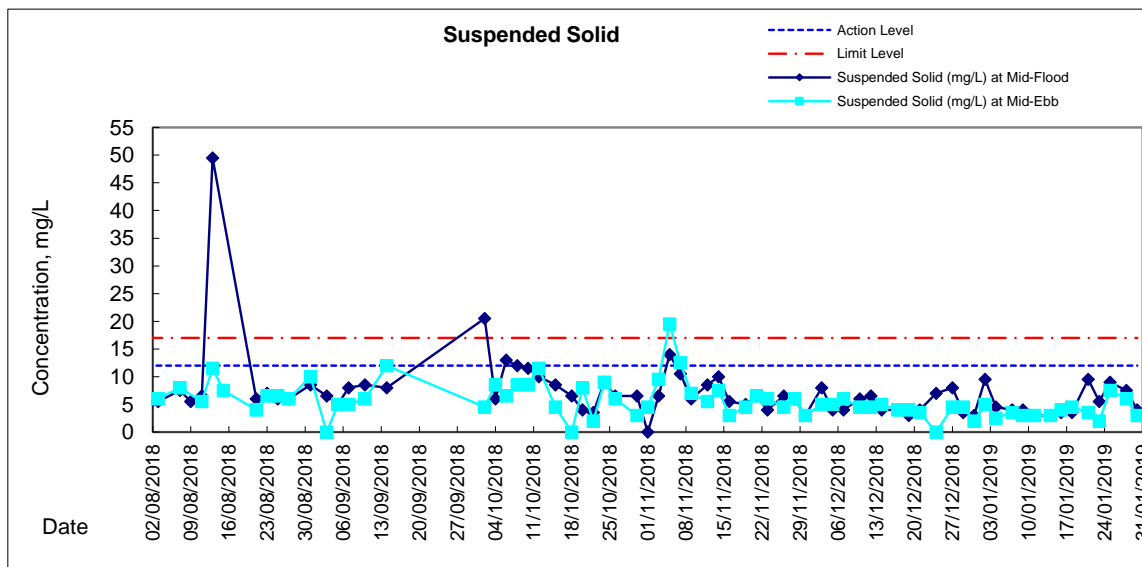
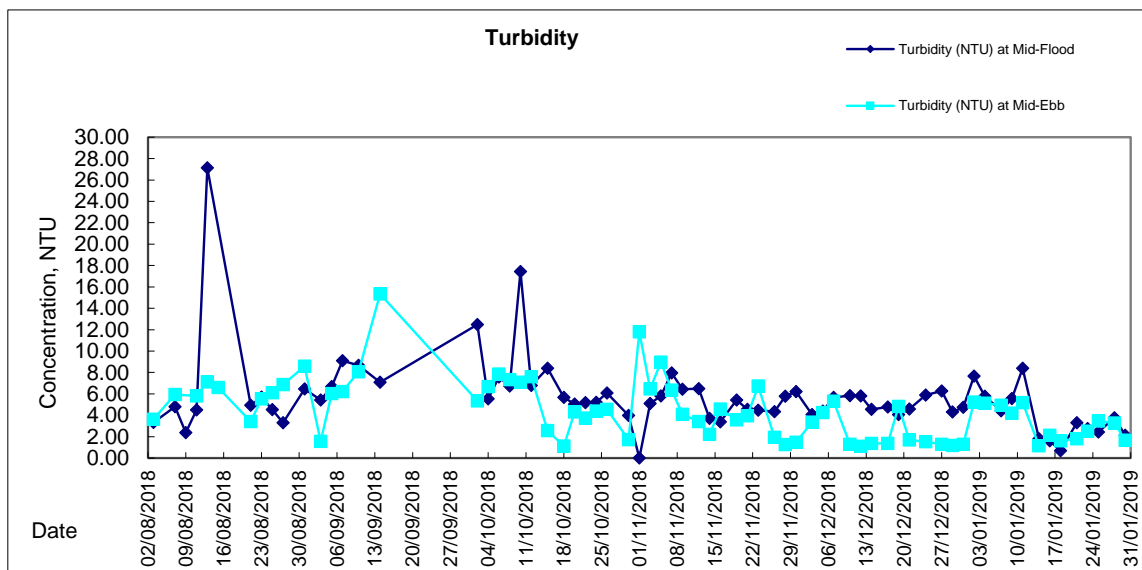
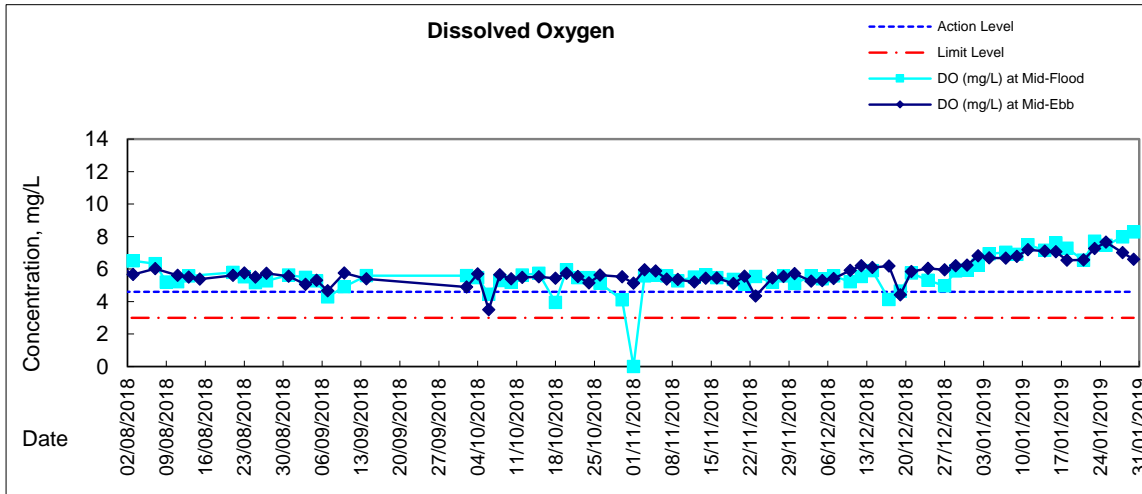
**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

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				
02/01/2019	23:54	Cloudy	Middle	3	17.50	17.50	17.50	8.57	8.57	8.57	32.82	32.82	32.82	85.9	86.5	86.4	6.75	6.78	6.78	4.38	4.30	4.28	4	4.00
	23:55		Middle	3	17.50	17.50		8.57	8.57		32.82	32.82		86.7	86.5		6.80	6.79		4.19	4.23		4	
04/01/2019	01:30	Cloudy	Middle	3	19.30	19.30	19.30	8.58	8.58	8.58	30.24	30.24	30.24	81.0	81.6	81.4	6.24	6.29	6.28	7.28	7.24	7.20	3	3.50
	01:31		Middle	3	19.30	19.30		8.58	8.58		30.24	30.24		82.0	81.1		6.32	6.25		7.16	7.12		4	
07/01/2019	01:38	Cloudy	Middle	3	18.10	18.10	18.10	8.65	8.65	8.65	32.58	32.58	32.58	84.4	86.4	86.1	6.57	6.72	6.70	4.83	4.96	4.95	4	4.00
	01:39		Middle	3	18.10	18.10		8.65	8.65		32.58	32.58		87.0	86.7		6.77	6.75		4.99	5.02		4	
09/01/2019	03:00	Cloudy	Middle	3	18.20	18.20	18.20	8.54	8.54	8.54	31.23	31.23	31.23	87.8	88.9	88.4	6.79	6.88	6.83	4.13	4.23	4.17	3	3.00
	03:01		Middle	3	18.20	18.20		8.54	8.54		31.23	31.23		88.2	88.5		6.82	6.84		4.10	4.20		3	
11/01/2019	03:47	Cloudy	Middle	3	18.70	18.70	18.70	8.66	8.66	8.66	31.39	31.39	31.39	88.6	89.9	89.1	6.85	6.96	6.90	6.40	6.34	6.27	4	4.00
	03:48		Middle	3	18.70	18.70		8.66	8.66		31.38	31.38		89.7	88.3		6.94	6.83		6.15	6.19		4	
14/01/2019	02:41	Cloudy	Middle	3	18.70	18.70	18.70	8.58	8.58	8.58	32.00	32.00	32.00	90.6	91.8	91.3	6.98	7.08	7.04	2.27	2.15	2.17	3	3.00
	02:42		Middle	3	18.70	18.70		8.58	8.58		32.00	32.00		91.6	91.2		7.06	7.03		2.17	2.08		3	
16/01/2019	21:32	Cloudy	Middle	3	17.70	17.70	17.70	8.65	8.65	8.65	28.33	28.33	28.32	78.4	81.8	80.6	6.30	6.58	6.48	4.72	4.47	4.47	3	3.00
	21:33		Middle	3	17.70	17.70		8.65	8.65		28.33	28.30		81.4	80.7		6.54	6.49		4.34	4.36		3	
18/01/2019	21:27	Cloudy	Middle	3	18.90	18.90	18.90	7.77	7.77	7.77	31.33	31.33	31.33	89.0	88.5	88.4	6.74	6.71	6.70	1.88	1.91	1.92	2	2.50
	21:28		Middle	3	18.90	18.90		7.77	7.77		31.33	31.33		88.9	87.3		6.73	6.61		1.94	1.96		3	
21/01/2019	00:34	Cloudy	Middle	3	17.80	17.80	17.80	7.81	7.81	7.81	31.50	31.50	31.50	82.3	82.4	82.1	6.47	6.48	6.45	1.96	2.02	2.04	6	5.50
	00:35		Middle	3	17.80	17.80		7.81	7.81		31.50	31.50		82.3	81.3		6.47	6.39		2.06	2.11		5	
23/01/2019	02:31	Cloudy	Middle	3	16.20	16.20	16.20	8.15	8.15	8.15	29.80	29.80	29.80	82.6	83.8	83.8	6.77	6.87	6.87	3.53	3.57	3.59	3	3.00
	02:32		Middle	3	16.20	16.20		8.15	8.15		29.80	29.80		84.8	83.8		6.95	6.87		3.61	3.63		3	
25/01/2019	11:40	Fine	Middle	4	19.40	19.40	19.45	8.13	8.13	8.15	31.07	31.07	31.07	99.7	99.4	99.2	7.62	7.60	7.59	3.58	3.59	3.57	8	7.50
	11:42		Middle	4	19.50	19.50		8.16	8.16		31.07	31.07		99.0	98.6		7.58	7.54		3.56	3.56		7	
28/01/2019	20:23	Cloudy	Middle	3	17.40	17.40	17.40	8.38	8.38	8.38	30.23	30.23	30.23	87.1	86.2	87.0	6.96	6.89	6.95	2.62	2.40	2.50	6	6.50
	20:24		Middle	3	17.40	17.40		8.38	8.38		30.23	30.23		87.0	87.7		6.95	6.99		2.44	2.54		7	
30/01/2019	22:46	Cloudy	Middle	3	18.50	18.50	18.50	8.29	8.29	8.29	30.68	30.68	30.68	92.8	94.3	94.1	6.84	6.95	6.93	1.89	1.86	1.82	3	3.00
	22:47		Middle	3	18.50	18.50		8.29	8.29		30.68	30.68		95.3	93.9		7.02	6.92		1.78	1.73		3	

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

