



**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					
01/02/2019	13:55	Cloudy	Middle	4.0	18.60	18.60	18.65	7.46	7.46	7.48	31.96	31.96	31.96	104.7	104.6	104.7	8.09	8.07	8.07	2.70	2.69	2.69	3	3.00
	13:57		Middle	4.0	18.70	18.70		7.50	7.50		31.96	31.96		104.6	104.7		8.06	8.07		2.67	2.68		3	
04/02/2019	06:04	Foggy	Middle	3.0	19.90	19.90	19.90	8.34	8.34	8.34	30.67	30.67	30.67	91.7	92.0	91.1	6.98	6.99	6.93	3.49	3.96	3.66	3	2.50
	06:05		Middle	3.0	19.90	19.90		8.34	8.34		30.67	30.67		91.7	89.1		6.97	6.78		3.61	3.56		2	
08/02/2019	10:55	Fine	Middle	4.0	21.00	21.00	21.05	7.83	7.83	7.85	31.30	31.30	31.31	100.5	100.4	100.1	7.45	7.44	7.41	1.59	1.60	1.60	4	3.50
	10:57		Middle	4.0	21.10	21.10		7.86	7.86		31.31	31.31		100.0	99.5		7.40	7.36		1.60	1.61		3	
11/02/2019	10:10	Cloudy	Middle	4.0	19.10	19.10	19.10	7.84	7.84	7.85	32.25	32.25	32.25	98.3	98.7	98.8	7.51	7.56	7.55	1.90	1.93	1.86	3	3.00
	10:12		Middle	4.0	19.10	19.10		7.86	7.86		32.25	32.25		98.9	99.1		7.55	7.56		1.80	1.82		3	
13/02/2019	11:35	Fine	Middle	4.0	19.80	19.80	19.80	7.94	7.94	7.95	32.44	32.44	32.44	100.8	100.7	100.2	7.58	7.57	7.53	2.63	2.66	2.64	<2	<2
	11:37		Middle	4.0	19.80	19.80		7.95	7.95		32.43	32.43		99.4	99.9		7.47	7.51		2.61	2.65		<2	
15/02/2019	11:35	Fine	Middle	4.0	19.80	19.80	19.80	7.94	7.94	7.95	32.44	32.44	32.44	100.8	100.7	100.2	7.58	7.57	7.53	2.63	2.66	2.64	2	2.00
	11:37		Middle	4.0	19.80	19.80		7.95	7.95		32.43	32.43		99.4	99.9		7.47	7.51		2.61	2.65		<2	
18/02/2019	16:05	Cloudy	Middle	4.0	19.20	19.20	19.20	7.90	7.90	7.92	32.83	32.83	32.83	98.6	98.7	98.5	7.49	7.50	7.49	2.59	2.63	2.64	2	2.00
	16:07		Middle	4.0	19.20	19.20		7.93	7.93		32.83	32.83		98.5	98.2		7.48	7.47		2.67	2.66		2	
20/02/2019	14:05	Fine	Middle	4.0	21.70	21.70	21.80	8.00	8.00	8.04	32.59	32.59	32.59	96.2	96.3	96.0	6.96	6.97	6.95	1.78	1.79	1.79	3	3.00
	14:07		Middle	4.0	21.90	21.90		8.07	8.07		32.59	32.59		95.7	95.9		6.93	6.95		1.79	1.78		3	
22/02/2019	08:05	Fine	Middle	4.0	20.10	20.10	20.10	7.96	7.96	7.99	31.78	31.78	31.78	123.7	123.8	123.8	9.31	9.31	9.31	3.12	3.13	3.12	3	3.00
	08:07		Middle	4.0	20.10	20.10		8.01	8.01		31.78	31.78		123.9	123.7		9.32	9.30		3.14	3.09		3	
25/02/2019	10:00	Cloudy	Middle	4.0	19.80	19.80	19.80	7.38	7.38	7.38	31.11	31.11	31.11	114.9	114.2	113.6	8.74	8.68	8.64	4.26	4.25	4.25	3	3.50
	10:02		Middle	4.0	19.80	19.80		7.37	7.37		31.11	31.11		112.6	112.7		8.56	8.57		4.24	4.26		4	
27/02/2019	11:50	Fine	Middle	4.0	20.90	20.90	20.90	7.72	7.72	7.73	32.87	32.87	32.88	111.5	110.9	110.6	8.19	8.16	8.38	1.60	1.60	1.61	5	4.50
	11:52		Middle	4.0	20.90	20.90		7.73	7.73		32.88	32.88		110.1	109.8		8.09	9.07		1.60	1.63		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						
01/02/2019	13:50	Cloudy	Middle	3.5	18.90	18.90	18.90	7.29	7.29	7.35	31.89	31.89	31.89	111.7	111.5	110.8	8.58	8.57	8.51	2.72	2.75	2.72	3	3.00
	13:52		Middle	3.5	18.90	18.90		7.40	7.40		31.89	31.89		110.0	109.8		8.45	8.44		2.70	2.70		3	
04/02/2019	06:12	Foggy	Middle	2.5	19.90	19.90	19.90	8.38	8.38	8.38	30.44	30.44	30.44	88.7	87.3	88.6	6.75	6.64	6.74	4.43	4.24	4.31	3	3.00
	06:13		Middle	2.5	19.90	19.90		8.38	8.38		30.44	30.44		88.5	89.8		6.74	6.83		4.27	4.30		<2	
08/02/2019	10:50	Fine	Middle	3.5	21.50	21.50	21.55	7.77	7.77	7.78	30.93	30.93	30.93	105.5	105.1	104.1	7.75	7.74	7.65	2.29	2.32	2.32	4	3.50
	10:52		Middle	3.5	21.60	21.60		7.79	7.79		30.93	30.93		103.4	102.5		7.59	7.53		2.31	2.35		3	
11/02/2019	10:05	Cloudy	Middle	3.5	19.20	19.20	19.25	7.76	7.76	7.78	32.05	32.05	32.05	103.8	103.2	102.6	7.92	7.88	7.83	2.23	2.24	2.24	2	2.00
	10:07		Middle	3.5	19.30	19.30		7.79	7.79		32.05	32.05		101.7	101.6		7.75	7.76		2.24	2.23		2	
13/02/2019	11:30	Fine	Middle	4.0	20.20	20.20	20.25	7.92	7.92	7.92	31.45	31.45	31.46	101.1	100.8	100.4	7.60	7.58	7.54	2.80	2.80	2.81	2	2.50
	11:32		Middle	4.0	20.30	20.30		7.92	7.92		31.46	31.46		100.0	99.5		7.50	7.47		2.81	2.81		3	
15/02/2019	11:30	Fine	Middle	4.0	20.20	20.20	20.25	7.92	7.92	7.92	31.45	31.45	31.46	101.1	100.8	100.4	7.60	7.58	7.54	2.80	2.80	2.81	<2	<2
	11:32		Middle	4.0	20.30	20.30		7.92	7.92		31.46	31.46		100.0	99.5		7.50	7.47		2.81	2.81		<2	
18/02/2019	16:00	Cloudy	Middle	3.5	19.10	19.10	19.10	7.73	7.73	7.78	31.22	31.22	31.22	103.9	103.2	102.4	7.99	7.94	7.88	4.94	4.96	4.93	6	5.50
	16:02		Middle	3.5	19.10	19.10		7.83	7.83		31.22	31.22		101.5	101.1		7.81	7.78		4.90	4.92		5	
20/02/2019	14:00	Fine	Middle	3.5	22.50	22.50	22.55	7.85	7.85	7.88	32.57	32.57	32.58	102.3	102.4	101.2	7.33	7.33	7.24	1.81	1.87	1.85	2	2.00
	14:02		Middle	3.5	22.60	22.60		7.91	7.91		32.58	32.58		100.0	100.1		7.15	7.15		1.82	1.88		2	
22/02/2019	08:00	Fine	Middle	3.5	20.50	20.50	20.50	7.82	7.82	7.86	31.62	31.62	31.62	120.3	119.8	119.5	9.00	8.96	8.93	3.94	3.88	3.89	3	3.50
	08:02		Middle	3.5	20.50	20.50		7.89	7.89		31.61	31.61		119.4	118.4		8.92	8.85		3.86	3.88		4	
25/02/2019	10:05	Cloudy	Middle	3.5	19.50	19.50	19.50	7.43	7.43	7.45	31.52	31.52	31.53	111.6	111.9	111.4	8.47	8.50	8.46	2.48	2.43	2.43	3	2.50
	10:07		Middle	3.5	19.50	19.50		7.47	7.47		31.53	31.53		111.0	111.1		8.43	8.43		2.42	2.40		2	
27/02/2019	11:45	Fine	Middle	3.5	21.10	21.10	21.15	7.65	7.65	7.67	31.87	31.87	32.37	106.2	107.1	107.1	7.79	7.85	7.84	1.57	1.58	1.58	3	2.50
	11:47		Middle	3.5	21.20	21.20		7.69	7.69		32.87	32.87		107.4	107.5		7.85	7.86		1.59	1.59		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				
01/02/2019	22:25	Cloudy	Middle	3.5	18.10	18.10	18.10	8.42	8.42	8.42	31.05	31.05	31.05	97.5	95.8	95.1	7.65	7.49	7.46	3.33	3.31	3.17	4	4.00
	22:26		Middle	3.5	18.10	18.10		8.42	8.42		31.05	31.05		93.8	93.4		7.36	7.33		3.10	2.92		4	
04/02/2019	00:17	Cloudy	Middle	3.5	19.80	19.80	19.80	8.36	8.36	8.36	30.67	30.67	30.67	90.8	91.6	90.2	6.92	6.98	6.87	1.27	1.19	1.28	<2	<2
	00:18		Middle	3.5	19.80	19.80		8.36	8.36		30.67	30.67		89.7	88.7		6.83	6.75		1.41	1.25		<2	
08/02/2019	02:53	Misty	Middle	3.0	20.50	20.50	20.50	8.23	8.23	8.23	30.35	30.35	30.35	96.3	97.1	96.4	7.25	7.30	7.25	1.92	1.90	1.88	<2	<2
	02:54		Middle	3.0	20.50	20.50		8.23	8.23		30.35	30.35		96.7	95.5		7.28	7.18		1.86	1.83		<2	
11/02/2019	15:20	Cloudy	Middle	4.0	19.20	19.20	19.20	8.01	8.01	8.02	32.32	32.32	32.33	98.3	98.4	98.5	7.49	7.50	7.50	1.14	1.15	1.16	<2	<2
	15:22		Middle	4.0	19.20	19.20		8.02	8.02		32.33	32.33		98.9	98.2		7.54	7.48		1.16	1.17		<2	
13/02/2019	20:17	Fine	Middle	3.0	18.70	18.70	18.70	8.31	8.31	8.31	31.38	31.38	31.38	88.8	88.5	89.0	6.75	6.73	6.76	1.51	1.48	1.52	<2	<2
	20:18		Middle	3.0	18.70	18.70		8.31	8.31		31.38	31.38		89.4	89.1		6.80	6.77		1.47	1.63		<2	
15/02/2019	20:05	Fine	Middle	3.5	20.00	20.00	20.05	8.09	8.09	8.10	32.99	32.99	32.50	101.7	101.2	101.3	7.60	7.57	7.57	1.47	1.46	1.44	2	2.00
	20:07		Middle	3.5	20.10	20.10		8.11	8.11		32.00	32.00		101.2	101.0		7.56	7.55		1.44	1.40		<2	
18/02/2019	22:35	Cloudy	Middle	4.0	19.30	19.30	19.35	8.04	8.04	8.05	33.02	33.02	33.02	100.5	100.4	100.1	7.61	7.60	7.58	1.68	1.69	1.71	<2	<2
	22:37		Middle	4.0	19.40	19.40		8.05	8.05		33.02	33.02		99.9	99.7		7.56	7.55		1.72	1.74		<2	
20/02/2019	16:30	Cloudy	Middle	4.0	21.30	21.30	21.35	7.94	7.94	7.96	32.22	32.22	32.22	101.5	101.5	101.0	7.44	7.44	7.39	2.44	2.48	2.47	2	2.50
	16:32		Middle	4.0	21.40	21.40		7.97	7.97		32.22	32.22		100.3	100.5		7.34	7.35		2.48	2.47		3	
22/02/2019	15:20	Fine	Middle	3.5	21.60	21.60	21.60	8.07	8.07	8.08	32.07	32.07	32.07	121.6	122.3	121.8	8.90	8.94	8.90	3.38	3.38	3.38	4	3.50
	15:22		Middle	3.5	21.60	21.60		8.09	8.09		32.07	32.07		121.8	121.3		8.90	8.86		3.38	3.39		3	
25/02/2019	17:20	Cloudy	Middle	3.5	19.50	19.50	19.50	7.66	7.66	7.67	32.42	32.42	32.42	112.9	113.1	112.7	8.55	8.53	7.78	3.04	3.17	3.12	4	4.00
	17:22		Middle	3.5	19.50	19.50		7.67	7.67		32.42	32.42		112.4	112.2		8.52	8.50		3.17	3.11		4	
27/02/2019	20:52	Cloudy	Middle	3.5	20.50	20.50	20.50	8.23	8.23	8.23	31.71	31.71	31.71	90.6	90.8	90.7	6.77	6.78	6.77	2.70	2.49	2.56	4	3.50
	20:53		Middle	3.5	20.50	20.50		8.23	8.23		31.71	31.71		91.1	90.2		6.80	6.74		2.40	2.63		3	

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				
01/02/2019	22:32	Cloudy	Middle	3	18.10	18.10	18.10	8.45	8.45	8.45	31.03	31.03	31.03	97.1	95.8	94.8	7.61	7.51	7.43	3.30	3.94	3.64	2	2.00
	22:33		Middle	3	18.10	18.10		8.45	8.45	8.45	31.03	31.03		93.7	92.6		7.35	7.26		3.76	3.57		<2	
04/02/2019	00:24	Cloudy	Middle	3	19.80	19.80	19.80	8.38	8.38	8.38	30.46	30.46	30.46	87.2	88.6	89.0	6.65	6.75	6.78	2.19	2.30	2.14	3	3.00
	00:25		Middle	3	19.80	19.80		8.38	8.38	8.38	30.46	30.46		88.8	91.2		6.77	6.95		2.02	2.06		<2	
08/02/2019	03:01	Misty	Middle	3	20.40	20.40	20.40	8.25	8.25	8.25	30.32	30.32	30.32	94.0	94.5	93.5	7.09	7.13	7.05	1.20	1.56	1.44	3	2.50
	03:02		Middle	3	20.40	20.40		8.25	8.25	8.25	30.32	30.32		93.1	92.2		7.02	6.95		1.53	1.45		2	
11/02/2019	15:15	Cloudy	Middle	4	19.30	19.30	19.35	7.99	7.99	8.00	32.09	32.09	32.09	97.5	97.6	97.4	7.44	7.44	7.43	1.37	1.37	1.38	<2	2.00
	15:17		Middle	4	19.40	19.40		8.00	8.00	8.00	32.09	32.09		97.2	97.3		7.42	7.42		1.38	1.38		2	
13/02/2019	20:24	Fine	Middle	3	18.80	18.80	18.80	8.36	8.36	8.36	31.02	31.02	31.02	82.0	82.7	83.2	6.23	6.29	6.33	1.54	1.56	1.47	<2	<2
	20:25		Middle	3	18.80	18.80		8.36	8.36	8.36	31.02	31.02		83.9	84.1		6.38	6.40		1.37	1.42		<2	
15/02/2019	20:00	Fine	Middle	4	20.60	20.60	20.65	8.00	8.00	8.02	32.17	32.17	32.18	101.4	101.7	101.8	7.61	7.63	7.60	1.70	1.71	1.66	2	2.00
	20:02		Middle	4	20.70	20.70		8.03	8.03	8.02	32.18	32.18		101.8	102.4		7.55	7.60		1.61	1.60		<2	
18/02/2019	22:30	Cloudy	Middle	4	19.50	19.50	19.50	7.99	7.99	7.99	32.87	32.87	32.87	106.3	106.0	105.0	8.04	8.00	7.93	1.91	1.91	1.92	<2	<2
	22:32		Middle	4	19.50	19.50		7.99	7.99	7.99	32.87	32.87		103.9	103.7		7.85	7.84		1.92	1.93		<2	
20/02/2019	16:25	Cloudy	Middle	4	22.10	22.10	22.20	7.92	7.92	7.92	32.28	32.23	32.26	104.8	105.3	104.4	7.56	7.59	7.52	3.60	3.60	3.60	2	2.50
	16:27		Middle	4	22.30	22.30		7.92	7.92	7.92	32.27	32.27		103.8	103.8		7.47	7.47		3.60	3.61		3	
22/02/2019	15:15	Fine	Middle	4	22.10	22.10	22.15	7.90	7.90	7.93	31.95	31.95	31.95	128.1	128.3	126.9	9.27	9.29	9.18	31.38	31.38	31.37	2	2.50
	15:17		Middle	4	22.20	22.20		7.95	7.95	7.93	31.95	31.95		125.7	125.3		9.09	9.06		9.18	31.37		31.36	
25/02/2019	17:15	Cloudy	Middle	4	19.70	19.70	19.70	7.60	7.60	7.61	31.68	31.68	31.68	118.1	117.5	116.5	8.95	8.90	8.82	2.60	2.62	2.64	3	3.50
	17:17		Middle	4	19.70	19.70		7.62	7.62	7.61	31.68	31.68		114.7	115.5		8.69	8.75		8.82	2.67		2.68	
27/02/2019	20:31	Cloudy	Middle	3	20.40	20.40	20.45	8.36	8.36	8.36	30.41	30.41	30.41	90.0	90.2	90.2	6.78	6.79	6.80	4.30	4.38	4.40	5	4.50
	20:32		Middle	3	20.50	20.50		8.36	8.36	8.36	30.42	30.41		90.4	90.3		6.81	6.80		6.80	4.49		4.42	

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



