



**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					
2/11/16	8:00	Fine	Middle	3.5	25.34	25.34	25.34	8.28	8.28	8.27	30.54	30.54	30.50	68.0	68.1	68.0	4.69	4.70	4.69	9.57	9.59	9.59	8	8.00
	8:02		Middle	3.5	25.33	25.33		8.26	8.26		30.46	30.46		68.0	68.0		4.69	4.69		9.60	9.61		8	
4/11/16	8:55	Fine	Middle	3.5	25.25	25.25	25.19	8.25	8.25	8.26	30.32	30.32	30.34	85.5	86.2	86.5	5.96	5.97	6.00	3.57	3.35	3.48	13	<u>14.00</u>
	8:57		Middle	3.5	25.13	25.13		8.26	8.26		30.35	30.35		86.9	87.4		6.03	6.04		3.45	3.56		15	
7/11/16	15:30	Fine	Middle	3.5	26.70	26.70	26.71	8.20	8.20	8.20	30.21	30.21	30.22	81.7	81.7	81.7	5.52	5.52	5.52	5.49	5.47	5.46	7	7.50
	15:32		Middle	3.5	26.72	26.72		8.19	8.19		30.22	30.22		81.7	81.8		5.52	5.53		5.47	5.39		8	
9/11/16	13:56	Cloudy	Middle	3.5	25.28	25.20	27.72	8.25	8.25	8.50	30.16	30.16	30.18	86.6	86.5	86.4	5.99	5.99	5.97	6.32	6.43	6.46	8	7.50
	13:58		Middle	3.5	30.19	30.19		8.74	8.74		30.20	30.20		86.3	86.2		5.98	5.91		6.50	6.58		7	
11/11/16	15:08	Fine	Middle	3.5	24.81	24.81	24.81	8.15	8.15	8.16	30.06	30.06	30.07	79.0	79.1	79.2	5.52	5.52	5.53	7.89	7.89	7.89	11	10.50
	15:10		Middle	3.5	24.80	24.80		8.16	8.16		30.07	30.07		79.2	79.5		5.53	5.56		7.89	7.90		10	
14/11/16	16:50	Fine	Middle	3.5	25.98	25.98	26.00	8.08	8.08	8.09	30.18	30.18	30.17	75.0	75.5	74.8	5.14	5.17	5.12	6.30	6.36	6.34	7	6.50
	16:52		Middle	3.5	26.01	26.01		8.10	8.10		30.16	30.16		74.5	74.1		5.10	5.07		6.35	6.33		6	
16/11/16	7:50	Fine	Middle	4.0	25.32	25.32	25.33	8.19	8.19	8.19	30.26	30.26	30.27	83.9	84.1	84.2	5.81	5.82	5.82	7.89	7.96	7.96	7	7.50
	7:52		Middle	4.0	25.33	25.33		8.18	8.18		30.27	30.27		84.3	84.3		5.83	5.83		7.98	7.99		8	
18/11/16	9:05	Cloudy	Middle	4.0	25.24	25.24	25.25	8.17	8.17	8.18	30.19	30.19	30.20	68.8	68.9	68.9	4.77	4.77	4.78	8.52	8.53	8.55	8	8.00
	9:07		Middle	4.0	25.26	25.26		8.18	8.18		30.20	30.20		68.9	69.0		4.78	4.78		8.55	8.61		8	
21/11/16	13:55	Fine	Middle	4.0	25.37	25.37	25.38	8.09	8.09	8.09	30.34	30.34	30.33	80.7	80.9	81.0	5.58	5.59	5.60	12.67	12.45	12.52	17	<u>17.50</u>
	13:57		Middle	4.0	25.38	25.38		8.09	8.09		30.32	30.32		81.1	81.1		5.60	5.61		12.47	12.48		18	
23/11/16	14:55	Cloudy	Middle	3.5	24.47	24.47	24.43	8.14	8.14	8.14	28.77	28.77	28.80	73.1	73.3	73.5	5.18	5.19	5.21	5.50	5.49	5.50	2	2.00
	14:57		Middle	3.5	24.38	24.38		8.14	8.14		28.83	28.83		73.7	73.9		5.22	5.24		5.49	5.52		2	
25/11/16	15:00	fine	Middle	3.5	24.14	24.14	24.16	8.22	8.22	8.22	30.07	30.07	30.07	74.7	74.9	75.0	5.28	5.30	5.30	4.44	4.44	4.43	8	7.50
	15:02		Middle	3.5	24.18	24.18		8.22	8.22		30.06	30.06		75.1	75.3		5.31	5.32		4.44	4.40		7	
28/11/16	15:00	Fine	Middle	3.5	22.90	22.90	22.90	8.23	8.23	8.23	31.07	31.07	31.07	95.6	95.4	95.3	6.87	6.86	6.85	6.46	6.43	6.41	12	12.00
	15:02		Middle	3.5	22.90	22.90		8.23	8.23		31.07	31.07		95.2	94.9		6.84	6.82		6.38	6.35		12	
30/11/16	17:20	Fine	Middle	4.0	22.60	22.60	22.55	8.22	8.22	8.22	31.13	31.13	31.13	94.2	93.8	92.6	6.81	6.78	6.69	3.32	3.32	3.32	15	<u>14.50</u>
	17:22		Middle	4.0	22.50	22.50		8.22	8.22		31.13	31.13		91.1	91.2		6.58	6.59		3.32	3.31		14	

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				
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
2/11/16	8:05	Fine	Middle	3.5	25.63	25.63	25.55	8.24	8.24	8.24	29.61	29.61	29.63	63.4	63.5	63.3	4.40	4.46	4.41	10.02	10.08	10.07	9	8.00
	8:07		Middle	3.5	25.47	25.47		8.23	8.23		29.64	29.64		63.3	63.0		4.39	4.37		10.09	10.10		7	
4/11/16	8:50	Fine	Middle	3.5	25.15	25.15	24.97	8.27	8.27	8.27	28.96	28.96	28.61	74.3	74.2	74.2	5.21	5.20	5.20	2.63	2.61	2.61	14	13.50
	8:52		Middle	3.5	24.79	24.79		8.26	8.26		28.26	28.26		74.0	74.1		5.20	5.20		2.61	2.60		13	
7/11/16	15:25	Fine	Middle	3.0	26.90	26.90	26.95	8.22	8.22	8.22	30.07	30.07	30.04	76.7	77.7	77.6	5.17	5.24	5.23	5.86	5.90	5.89	7	6.50
	15:27		Middle	3.0	27.00	27.00		8.21	8.21		30.01	30.01		77.9	78.0		5.25	5.25		5.90	5.91		6	
9/11/16	13:52	Cloudy	Middle	3.5	24.98	24.98	24.93	8.28	8.28	8.27	27.92	27.92	28.37	73.1	73.7	73.8	5.16	5.19	5.20	6.93	6.92	6.92	7	7.00
	13:54		Middle	3.5	24.87	24.87		8.26	8.26		28.82	28.82		74.1	74.4		5.20	5.23		6.92	6.92		7	
11/11/16	15:04	Fine	Middle	3.5	24.59	24.59	24.55	8.12	8.12	8.13	29.89	29.89	29.91	75.4	75.4	75.5	5.30	5.30	5.30	6.10	6.10	6.11	8	7.50
	15:06		Middle	3.5	24.50	24.50		8.14	8.14		29.92	29.92		75.5	75.6		5.30	5.31		6.11	6.12		7	
14/11/16	16:46	Fine	Middle	3.5	26.09	26.09	26.17	8.08	8.08	8.09	28.44	28.44	28.42	76.4	76.1	76.0	5.27	5.25	5.24	3.99	4.03	4.01	7	7.00
	16:48		Middle	3.5	26.25	26.25		8.09	8.09		28.40	28.40		75.8	75.5		5.23	5.21		4.01	4.02		7	
16/11/16	7:45	Fine	Middle	3.5	25.28	25.28	25.78	8.22	8.22	8.22	28.70	28.70	28.70	75.8	75.6	75.5	5.29	5.29	5.28	7.82	7.71	7.71	7	6.50
	7:47		Middle	3.5	26.27	26.27		8.21	8.21		28.70	28.70		75.4	75.2		5.27	5.25		7.60	7.69		6	
18/11/16	9:00	Cloudy	Middle	3.5	25.17	25.17	25.15	8.21	8.21	8.21	28.67	28.67	28.69	64.4	63.8	63.9	4.51	4.47	4.47	2.77	2.75	2.73	8	9.00
	9:02		Middle	3.5	25.12	25.12		8.20	8.20		28.70	28.70		63.7	63.5		4.46	4.45		2.73	2.66		10	
21/11/16	13:50	Fine	Middle	3.5	25.36	25.36	25.36	8.08	8.08	8.09	30.39	30.39	30.39	72.5	72.7	72.9	5.01	5.02	5.03	8.63	8.61	8.62	8	8.00
	13:52		Middle	3.5	25.35	25.35		8.09	8.09		30.38	30.38		73.0	73.2		5.04	5.06		8.62	8.60		8	
23/11/16	14:50	Cloudy	Middle	3.5	23.91	23.91	23.91	8.18	8.18	8.18	26.29	26.29	26.30	72.9	72.8	72.7	5.29	5.27	5.27	8.65	8.67	8.67	6	6.00
	14:52		Middle	3.5	23.90	23.90		8.18	8.18		26.30	26.30		72.5	72.6		5.26	5.27		8.67	8.67		6	
25/11/16	14:56	fine	Middle	3.5	24.13	24.13	24.15	8.23	8.23	8.23	30.19	30.19	30.17	73.6	73.6	73.6	5.20	5.20	5.20	5.92	6.00	6.00	6	5.50
	14:58		Middle	3.5	24.17	24.17		8.22	8.22		30.15	30.15		73.5	73.5		5.19	5.19		6.01	6.07		5	
28/11/16	14:56	Fine	Middle	3.5	22.80	22.80	22.80	8.20	8.20	8.21	30.62	30.62	30.62	100.4	100.3	100.2	7.25	7.24	7.23	5.94	5.88	5.87	4	5.00
	14:58		Middle	3.5	22.80	22.80		8.21	8.21		30.62	30.62		100.1	99.9		7.23	7.21		5.79	5.86		6	
30/11/16	17:15	Fine	Middle	3.5	22.60	22.60	22.60	8.20	8.20	8.20	30.96	30.96	30.96	87.2	87.3	87.0	6.30	6.31	6.29	3.50	3.38	3.47	14	14.50
	17:17		Middle	3.5	22.60	22.60		8.20	8.20		30.96	30.96		87.0	86.5		6.29	6.25		3.51	3.48		15	



**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				
2/11/16	13:45	Fine	Middle	3.5	26.05	26.05	26.05	8.23	8.23	8.24	30.30	30.30	30.31	87.4	87.7	87.8	5.97	5.99	6.00	7.02	7.00	7.00	4	4.50
	13:47		Middle	3.5	26.05	26.05		8.24	8.24		30.31	30.31		87.9	88.2		6.00	6.03		7.00	6.98		5	
4/11/16	5:00	Fine	Middle	3.5	23.60	23.60	23.50	8.09	8.09	8.09	28.66	28.66	28.66	77.9	79.9	78.8	5.63	5.77	5.70	5.40	5.36	5.37	4	4.00
	5:01		Middle	3.5	23.40	23.40		8.09	8.09		28.66	28.66		78.5	79.0		5.67	5.71		5.38	5.34		<2	
7/11/16	5:15	Cloudy	Middle	3.5	25.20	25.20	25.20	8.02	8.02	8.03	31.11	31.11	31.12	74.4	74.2	74.1	5.13	5.12	5.11	4.29	4.30	4.30	4	4.00
	5:16		Middle	3.5	25.20	25.20		8.03	8.03		31.12	31.12		74.6	73.0		5.15	5.04		4.31	4.30		4	
9/11/16	5:00	Cloudy	Middle	3.5	23.00	23.00	23.00	7.98	7.98	7.98	30.38	30.38	30.38	74.0	75.5	75.1	5.33	5.44	5.41	4.53	4.53	4.55	4	5.00
	5:01		Middle	3.5	23.00	23.00		7.98	7.98		30.38	30.38		76.0	74.9		5.46	5.39		4.55	4.57		6	
11/11/16	9:20	Fine	Middle	3.5	23.99	23.99	23.99	8.21	8.21	8.22	29.93	29.93	30.07	91.2	91.8	92.1	6.48	6.50	6.53	7.43	7.41	7.42	8	7.00
	9:22		Middle	3.5	23.98	23.98		8.23	8.23		30.20	30.20		92.5	92.8		6.55	6.58		7.42	7.40		6	
14/11/16	10:44	Fine	Middle	3.5	25.70	25.70	25.71	8.24	8.24	8.24	30.70	30.70	30.45	92.5	93.1	93.5	6.36	6.41	6.45	4.72	4.69	4.73	4	4.50
	10:46		Middle	3.5	25.72	25.72		8.23	8.23		30.20	30.20		94.1	94.1		6.47	6.57		4.75	4.75		5	
16/11/16	13:45	Fine	Middle	3.5	25.64	25.64	25.64	8.17	8.17	8.17	30.47	30.47	30.47	96.8	96.8	96.8	6.66	6.66	6.66	4.11	4.11	4.12	3	3.00
	13:47		Middle	3.5	25.64	25.64		8.17	8.17		30.47	30.47		96.9	96.8		6.66	6.66		4.12	4.12		3	
18/11/16	5:06	Cloudy	Middle	3.0	24.90	24.90	24.85	7.84	7.84	7.85	30.99	30.99	30.99	75.0	75.1	75.2	5.21	5.22	5.22	4.63	4.60	4.64	5	4.50
	5:07		Middle	3.0	24.80	24.80		7.85	7.85		30.99	30.99		75.2	75.3		5.23	5.23		4.65	4.67		4	
21/11/16	5:00	Cloudy	Middle	3.5	24.80	24.80	24.80	8.02	8.02	8.02	31.17	31.17	31.18	81.3	82.0	81.5	5.65	5.70	5.66	4.45	4.39	4.39	5	4.00
	5:01		Middle	3.5	24.80	24.80		8.02	8.02		31.18	31.18		81.6	81.0		5.66	5.63		4.36	4.34		3	
23/11/16	8:15	Cloudy	Middle	3.5	24.33	24.33	24.30	8.16	8.16	8.17	29.57	29.57	29.58	79.5	79.5	79.6	5.62	5.62	5.63	4.76	4.76	4.76	3	2.50
	8:17		Middle	3.5	24.27	24.27		8.17	8.17		29.59	29.59		79.6	79.6		5.63	5.63		4.76	4.77		2	
25/11/16	8:55	Fine	Middle	3.5	23.46	23.46	23.39	8.21	8.21	8.22	29.94	29.94	29.97	74.4	74.8	73.9	5.33	5.36	5.38	6.27	6.19	6.21	9	8.00
	8:57		Middle	3.5	23.31	23.31		8.23	8.23		29.99	29.99		73.1	73.4		5.38	5.46		6.18	6.19		7	
28/11/16	10:40	Fine	Middle	4.0	22.80	22.80	22.80	8.22	8.22	8.22	31.02	31.02	31.03	100.3	100.3	100.3	7.21	7.21	7.21	6.44	6.44	6.45	2	3.00
	10:42		Middle	4.0	22.80	22.80		8.22	8.22		31.03	31.03		100.2	100.4		7.21	7.22		6.45	6.48		4	
1/12/16	2:30	Cloudy	Middle	3.0	20.70	20.70	20.70	8.13	8.13	8.13	30.20	30.20	30.21	82.5	82.4	82.0	6.20	6.17	6.15	5.03	5.06	5.02	5	5.50
	2:31		Middle	3.0	20.70	20.70		8.13	8.13		30.21	30.21		81.3	81.6		6.11	6.13		5.00	4.98		6	

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

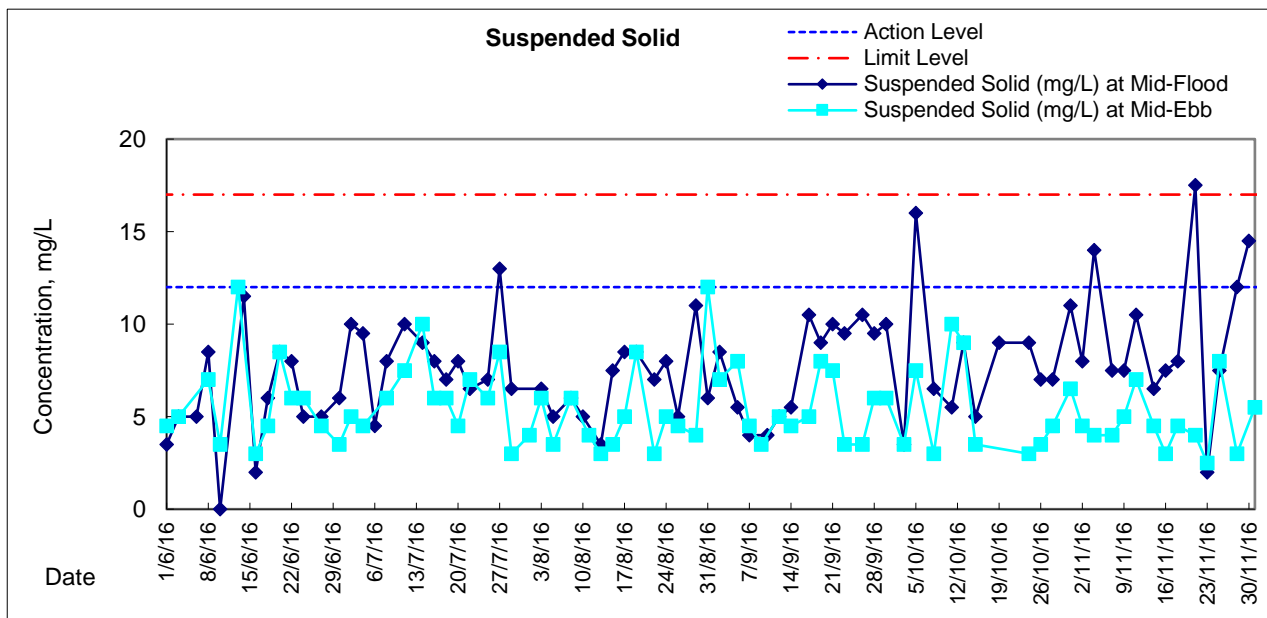
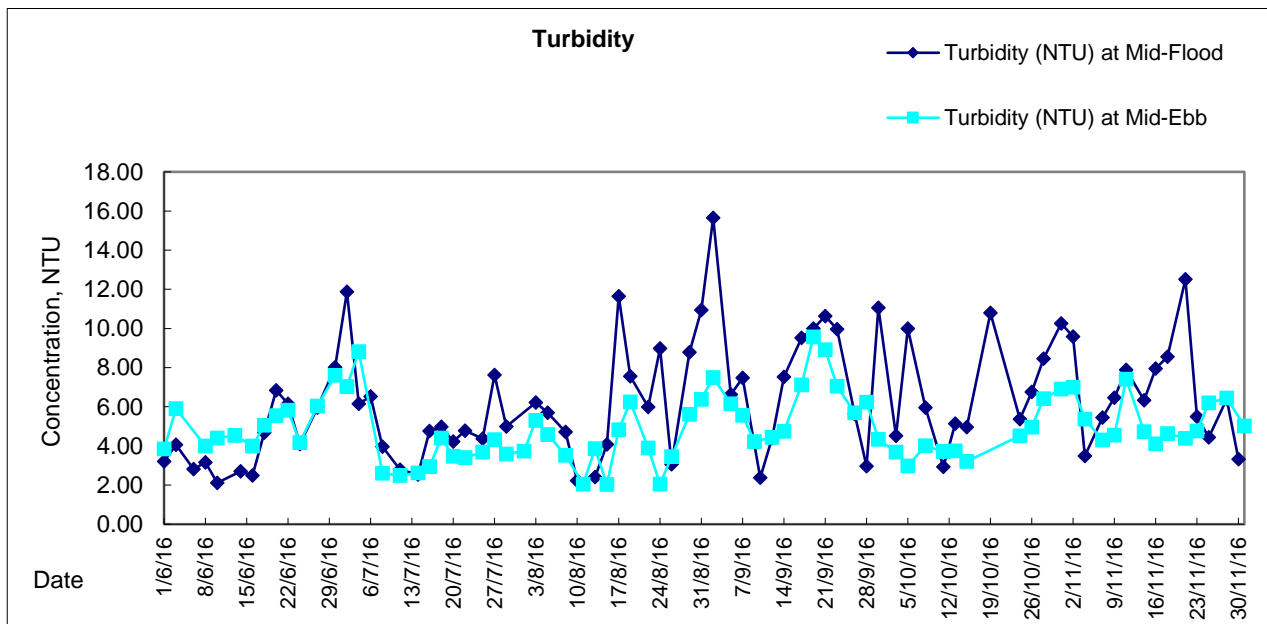
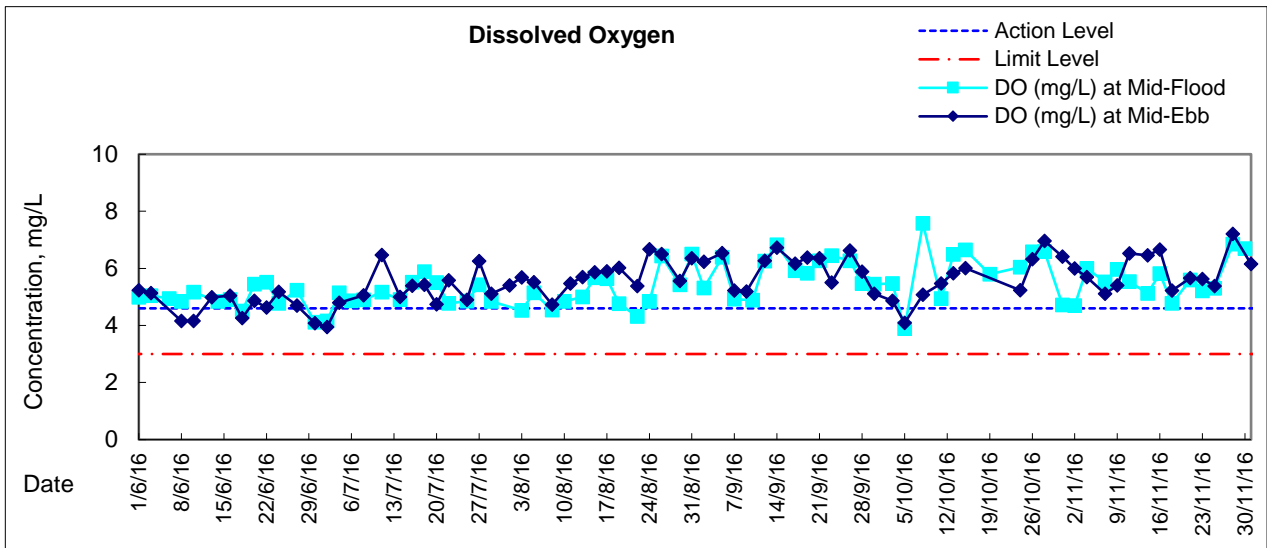


**Water Monitoring Result at Culvert J - Reference Station  
Mid-Ebb Tide**

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				
2/11/16	13:40	Fine	Middle	4	26.01	26.01	26.02	8.23	8.23	8.23	29.72	29.72	29.72	71.3	71.6	71.9	4.89	4.91	4.93	8.34	8.38	8.38	4	4.00
	13:42		Middle	4	26.02	26.02		8.23	8.23		29.71	29.71		71.9	72.7		4.93	4.99		8.39	8.39		4	
4/11/16	5:15	Fine	Middle	3	24.20	24.20	24.15	8.13	8.13	8.10	24.24	24.24	24.24	63.8	64.7	63.7	4.66	4.76	4.67	11.78	11.73	11.70	6	8.50
	5:16		Middle	3	24.10	24.10		8.07	8.07		24.24	24.24		63.5	62.9		4.65	4.60		11.64	11.66		11	
7/11/16	5:30	Cloudy	Middle	3	25.30	25.30	25.30	8.09	8.09	8.09	27.41	27.41	27.41	64.4	64.8	64.3	4.54	4.57	4.54	6.83	6.95	6.95	8	6.50
	5:31		Middle	3	25.30	25.30		8.09	8.09		27.41	27.41		64.1	64.0		4.52	4.52		6.99	7.02		5	
9/11/16	5:08	Cloudy	Middle	3	23.40	23.40	23.40	8.02	8.02	8.01	28.08	28.08	28.08	62.0	62.1	62.0	4.49	4.50	4.49	6.10	6.14	6.16	6	5.50
	5:09		Middle	3	23.40	23.40		8.00	8.00		28.08	28.08		62.3	61.5		4.52	4.46		6.23	6.17		5	
11/11/16	9:15	Fine	Middle	4	23.48	23.48	23.32	8.25	8.25	8.25	27.93	27.93	28.04	78.7	78.7	78.7	5.71	5.72	5.72	8.67	8.44	8.41	8	7.00
	9:17		Middle	4	23.16	23.16		8.24	8.24		28.15	28.15		78.7	78.8		5.72	5.73		8.27	8.25		6	
14/11/16	10:40	Fine	Middle	4	25.70	25.70	25.71	8.25	8.25	8.25	30.09	30.09	30.09	65.8	67.5	69.2	4.52	4.65	4.72	5.65	5.65	5.61	5	4.50
	10:42		Middle	4	25.71	25.71		8.24	8.24		30.08	30.08		70.6	73.0		4.86	4.86		5.60	5.53		4	
16/11/16	13:40	Fine	Middle	4	25.51	25.51	25.51	8.18	8.18	8.18	27.21	27.21	27.18	73.1	73.0	73.1	5.13	5.12	5.13	6.42	6.48	6.44	5	5.00
	13:42		Middle	4	25.51	25.51		8.18	8.18		27.15	27.15		73.1	73.3		5.13	5.14		6.44	6.40		5	
18/11/16	5:15	Cloudy	Middle	3	24.90	24.90	24.90	8.03	8.03	8.02	20.77	20.77	20.76	61.8	62.6	61.8	4.55	4.61	4.56	27.95	28.05	28.05	29	31.50
	5:16		Middle	3	24.90	24.90		8.00	8.00		20.75	20.75		61.6	61.3		4.54	4.52		28.19	28.02		34	
21/11/16	5:10	Cloudy	Middle	3	24.90	24.90	24.90	8.06	8.06	8.05	27.73	27.73	27.73	71.5	72.0	71.8	5.06	5.10	5.08	5.64	5.62	5.63	4	5.00
	5:11		Middle	3	24.90	24.90		8.04	8.04		27.73	27.73		72.0	71.8		5.10	5.07		5.61	5.66		6	
23/11/16	8:10	Cloudy	Middle	4	23.94	23.94	23.92	8.23	8.23	8.22	25.96	25.96	25.97	72.4	73.4	74.5	5.26	5.33	5.41	7.19	7.07	7.09	5	5.00
	8:12		Middle	4	23.90	23.90		8.21	8.21		25.98	25.98		75.4	76.7		5.48	5.58		7.05	7.03		5	
25/11/16	8:50	Fine	Middle	4	22.83	22.83	22.59	8.28	8.28	8.27	26.84	26.84	27.00	73.6	73.0	73.0	5.43	5.40	5.40	8.68	8.72	8.70	5	5.00
	8:52		Middle	4	22.34	22.35		8.26	8.26		27.16	27.16		72.8	72.7		5.39	5.39		8.71	8.68		5	
28/11/16	10:35	Fine	Middle	4	22.80	22.80	22.75	8.18	8.18	8.19	30.17	30.17	30.18	86.0	85.4	85.4	6.23	6.18	6.18	7.85	7.85	7.87	5	4.50
	10:37		Middle	4	22.70	22.70		8.19	8.19		30.18	30.18		85.6	84.5		6.20	6.12		7.89	7.89		4	
1/12/16	2:38	Cloudy	Middle	3	21.00	21.00	20.98	8.24	8.24	8.22	22.04	22.04	22.04	61.8	62.2	61.7	4.85	4.88	4.84	12.60	12.87	12.88	18	16.50
	2:39		Middle	3	20.90	21.00		8.20	8.20		22.03	22.03		61.6	61.3		4.83	4.81		13.07	12.96		15	



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





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

