



**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	Value	Average	Value	Average	
1/12/17	15:29	Fine	Middle	3.5	23.10	23.10	23.15	7.82	7.82	7.84	32.55	32.55	32.54	70.7	69.2	70.1	4.98	4.87	4.93	7.73	7.74	7.71	7	7.00
	15:31		Middle	3.5	23.20	23.20		7.86	7.86		32.53	32.53		71.1	69.3		5.00	4.87		7.68	7.68		7	
4/12/17	16:50	Fine	Middle	3.5	22.20	22.20	22.25	8.25	8.25	8.26	32.42	32.42	32.42	94.0	94.9	94.0	6.78	6.84	6.78	8.64	8.79	8.60	9	10.00
	16:52		Middle	3.5	22.30	22.30		8.26	8.26		32.42	32.42		94.4	92.8		6.80	6.69		8.46	8.49		11	
6/12/17	21:11	Cloudy	Middle	3.5	21.00	21.00	21.00	8.11	8.11	8.11	32.68	32.68	32.60	86.7	89.3	87.8	6.61	6.82	6.70	9.52	9.27	9.31	9	9.50
	21:12		Middle	3.5	21.00	21.00		8.11	8.11		32.36	32.68		87.1	88.0		6.65	6.72		9.23	9.21		10	
9/12/17	11:40	Fine	Middle	4.0	20.60	20.60	20.50	8.28	8.28	8.28	32.42	32.42	32.43	89.0	89.1	89.0	6.63	6.63	6.63	8.28	8.35	8.31	7	7.00
	11:42		Middle	4.0	20.40	20.40		8.28	8.28		32.43	32.43		88.9	89.1		6.62	6.63		8.30	8.31		7	
12/12/17	14:50	Fine	Middle	4.0	21.20	21.20	21.20	8.26	8.26	8.27	32.38	32.38	32.38	92.7	92.9	92.8	6.81	6.83	6.82	5.64	5.62	5.53	5	5.00
	14:52		Middle	4.0	21.20	21.20		8.27	8.27		32.37	32.37		93.0	92.4		6.84	6.79		5.53	5.34		5	
14/12/17	16:10	Fine	Middle	4.0	20.70	20.70	20.70	8.33	8.33	8.33	32.53	32.53	32.53	93.3	94.0	93.6	6.91	6.96	6.93	6.29	6.27	6.27	5	5.50
	16:12		Middle	4.0	20.70	20.70		8.33	8.33		32.53	32.53		93.3	93.6		6.91	6.93		6.27	6.26		6	
16/12/17	14:45	Fine	Middle	3.5	19.90	19.90	19.85	8.34	8.34	8.34	32.27	32.27	32.28	90.3	90.1	89.9	6.81	6.79	6.78	8.41	8.43	8.43	10	10.00
	14:47		Middle	3.5	19.80	19.80		8.34	8.34		32.28	32.28		90.0	89.1		6.79	6.73		8.43	8.45		10	
19/12/17	9:35	Fine	Middle	3.5	18.10	18.10	18.05	8.33	8.33	8.34	32.31	32.31	32.32	86.6	86.7	86.7	6.75	6.76	6.76	8.04	8.05	8.05	10	11.00
	9:37		Middle	3.5	18.00	18.00		8.35	8.35		32.33	32.33		86.9	86.5		6.77	6.75		8.05	8.06		12	
21/12/17	9:35	Fine	Middle	4.0	17.90	17.90	17.85	8.34	8.34	8.35	32.25	32.25	32.26	93.4	93.5	93.9	7.31	7.32	7.35	9.68	9.50	9.55	4	4.00
	9:37		Middle	4.0	17.80	17.80		8.35	8.35		32.26	32.26		94.3	94.2		7.38	7.38		9.50	9.52		4	
23/12/17	11:55	Cloudy	Middle	4.0	18.90	18.90	18.95	8.28	8.28	8.29	32.81	32.81	32.81	97.6	97.8	97.5	7.46	7.47	7.45	8.67	8.72	8.63	10	9.00
	11:57		Middle	4.0	19.00	19.00		8.29	8.29		32.81	32.81		97.3	97.4		7.43	7.44		8.57	8.57		8	
26/12/17	9:31	Cloudy	Middle	3.0	18.80	18.80	18.78	8.09	8.09	8.09	32.61	32.61	32.61	84.7	84.5	84.3	6.52	6.50	6.48	4.13	4.86	4.35	8	8.50
	9:32		Middle	3.0	18.80	18.70		8.09	8.09		32.60	32.60		83.9	84.0		6.45	6.45		4.21	4.19		9	
28/12/17	14:38	Fine	Middle	3.5	19.20	19.20	19.25	8.14	8.14	8.15	32.10	32.10	32.10	85.2	87.6	86.4	6.51	6.67	6.59	7.66	7.58	7.59	2	2.00
	14:40		Middle	3.5	19.30	19.30		8.15	8.15		32.09	32.09		87.1	85.5		6.64	6.53		7.56	7.56		2	
30/12/17	15:30	Fine	Middle	3.5	19.60	19.60	19.60	32.02	32.02	32.02	8.12	8.12	8.12	97.6	98.1	97.5	7.39	7.42	7.37	7.89	7.86	7.80	5	6.00
	15:32		Middle	3.5	19.60	19.60		32.03	32.02		8.12	8.12		98.0	96.2		7.41	7.27		7.71	7.73		7	

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					
1/12/17	15:25	Fine	Middle	3.5	23.80	23.80	23.85	7.56	7.56	7.58	32.66	32.66	32.64	70.9	68.8	69.9	5.01	4.85	4.94	7.58	7.59	7.60	6	5.50
	15:27		Middle	3.5	23.90	23.90		7.59	7.59		32.62	32.62		70.5	69.3		4.98	4.90		7.60	7.62		5	
4/12/17	16:45	Fine	Middle	3.5	22.60	22.60	22.65	8.21	8.21	8.22	31.82	31.82	32.07	93.0	94.0	93.3	6.68	6.75	6.70	8.91	8.99	9.04	15	14.50
	16:47		Middle	3.5	22.70	22.70		8.23	8.23		31.82	32.82		93.3	93.0		6.70	6.68		9.12	9.13		14	
6/12/17	21:20	Cloudy	Middle	3.0	21.00	21.00	21.00	8.15	8.15	8.15	32.51	32.51	32.51	90.6	90.2	90.1	6.92	6.90	6.89	16.03	15.85	15.96	7	6.00
	21:21		Middle	3.0	21.00	21.00		8.15	8.15		32.51	32.51		89.9	89.8		6.87	6.86		15.91	16.05		5	
9/12/17	11:30	Fine	Middle	3.5	20.50	20.50	20.45	8.27	8.27	8.27	31.29	31.29	31.29	82.0	81.6	81.9	6.15	6.12	6.14	10.80	10.88	10.90	8	8.00
	11:35		Middle	3.5	20.40	20.40		8.26	8.26		31.29	31.29		81.9	81.9		6.14	6.14		10.90	11.03		8	
12/12/17	14:45	Fine	Middle	3.5	21.40	21.40	21.45	8.21	8.21	8.21	30.52	30.52	30.52	80.4	79.9	80.4	5.94	5.91	5.94	8.96	8.93	8.96	5	6.00
	14:47		Middle	3.5	21.50	21.50		8.21	8.21		30.52	30.52		80.5	80.7		5.95	5.96		8.94	8.99		7	
14/12/17	16:05	Fine	Middle	3.5	22.70	22.70	21.85	8.26	8.26	8.29	32.38	32.38	32.39	92.4	92.4	92.0	6.82	6.82	6.79	6.02	6.05	6.11	4	4.00
	16:07		Middle	3.5	21.00	21.00		8.32	8.32		32.40	32.40		90.9	92.1		6.71	6.79		6.17	6.21		4	
16/12/17	14:50	Fine	Middle	3.5	19.70	19.70	19.70	8.34	8.34	8.35	32.34	32.34	32.34	87.6	88.0	87.5	6.62	6.65	5.11	7.83	7.87	7.89	7	6.50
	14:52		Middle	3.5	19.70	19.70		8.35	8.35		32.34	32.34		87.0	87.3		6.58	0.60		7.92	7.92		6	
19/12/17	9:31	Fine	Middle	3.5	18.00	18.00	17.85	8.28	8.28	8.29	30.12	30.12	30.13	80.9	81.3	81.1	6.42	6.45	6.43	12.13	12.07	12.10	8	9.00
	9:33		Middle	3.5	17.70	17.70		8.30	8.30		30.14	30.14		81.0	81.0		6.43	6.43		12.08	12.11		10	
21/12/17	9:30	Fine	Middle	3.5	17.70	17.70	17.65	8.33	8.33	8.33	30.81	30.81	30.82	88.9	89.5	89.2	7.04	7.10	7.07	10.09	10.08	10.08	4	4.50
	9:32		Middle	3.5	17.60	17.60		8.32	8.32		30.82	30.82		89.3	89.2		7.08	7.07		10.08	10.08		5	
23/12/17	11:50	Cloudy	Middle	4.0	19.30	19.30	19.35	8.27	8.27	8.28	31.67	31.67	31.67	90.8	90.8	90.7	6.93	6.93	6.92	8.94	8.91	8.94	7	7.50
	11:52		Middle	4.0	19.40	19.40		8.28	8.28		31.67	31.67		90.7	90.6		6.92	6.91		8.92	8.99		8	
26/12/17	9:37	Cloudy	Middle	3.0	18.90	18.90	18.90	8.06	8.06	8.06	31.41	31.41	31.41	81.6	81.9	81.8	6.92	6.95	6.94	7.76	7.98	7.91	11	11.00
	9:38		Middle	3.0	18.90	18.90		8.06	8.06		31.41	31.41		81.8	81.7		6.94	6.93		7.89	7.99		11	
28/12/17	14:34	Fine	Middle	3.5	19.60	19.60	19.70	8.13	8.13	8.13	30.93	30.93	30.91	83.1	82.6	82.8	6.33	6.30	6.31	8.36	8.36	8.36	4	4.00
	14:36		Middle	3.5	19.80	19.80		8.12	8.12		30.88	30.88		82.8	82.6		6.31	6.29		8.36	8.36		4	
30/12/17	15:25	Fine	Middle	3.5	20.40	20.40	20.50	31.90	31.90	31.90	8.12	8.12	8.13	96.0	96.3	95.7	7.15	7.18	7.13	6.72	6.71	6.70	8	7.00
	15:27		Middle	3.5	20.60	20.60		31.89	31.89		8.13	8.13		95.2	95.3		7.09	7.10		6.69	6.66		6	



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

Date	Time	Weater 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				
1/12/17	10:00	Fine	Middle	3.5	22.50	22.50	22.55	8.27	8.27	8.28	32.62	32.62	32.63	95.4	96.0	95.4	6.83	6.84	6.83	4.63	4.63	4.64	4	4.50
	10:05		Middle	3.5	22.60	22.60		8.28	8.28		32.63	32.63		95.2	95.1		6.82	6.81		4.63	4.65		5	
4/12/17	11:50	Fine	Middle	3.5	22.50	22.50	22.50	8.27	8.27	8.28	32.44	32.44	32.44	94.3	93.8	93.5	6.77	6.73	6.71	5.85	5.75	5.66	6	7.00
	11:52		Middle	3.5	22.50	22.50		8.29	8.29		32.44	32.44		93.4	92.3		6.70	6.62		5.52	5.50		8	
7/12/17	23:37	Cloudy	Middle	3.5	20.00	20.00	20.00	8.29	8.29	8.29	33.03	33.03	33.03	92.0	92.7	92.8	7.01	7.10	7.08	10.02	10.04	10.11	9	8.50
	23:38		Middle	3.5	20.00	20.00		8.29	8.29		33.03	33.03		93.6	92.8		7.13	7.07		10.19	10.17		8	
9/12/17	5:05	Fine	Middle	3.0	18.30	18.30	18.30	8.11	8.11	8.11	29.76	29.76	29.76	91.9	91.3	92.0	7.22	7.20	7.24	8.47	8.59	8.59	7	7.00
	5:06		Middle	3.0	18.30	18.30		8.11	8.11		29.76	29.76		92.5	92.1		7.29	7.26		8.67	8.61		7	
12/12/17	10:20	Fine	Middle	3.5	20.70	20.70	20.70	8.29	8.29	8.29	32.49	32.49	32.49	92.3	91.9	92.1	6.84	6.81	6.82	6.05	6.00	5.96	6	6.00
	10:22		Middle	3.5	20.70	20.70		8.29	8.29		32.49	32.49		92.0	92.1		6.82	6.82		5.90	5.88		6	
14/12/17	9:35	Fine	Middle	3.5	20.60	20.60	20.70	8.34	8.34	8.35	32.59	32.59	32.59	93.2	93.6	93.2	6.92	6.95	6.92	6.15	6.15	6.14	6	5.50
	9:37		Middle	3.5	20.80	20.80		8.35	8.35		32.59	32.59		93.4	92.6		6.93	6.87		6.13	6.12		5	
16/12/17	0:05	cloudy	Middle	3.5	17.10	17.10	17.10	8.08	8.08	8.08	32.07	32.07	32.07	90.3	89.4	90.2	7.18	7.11	7.17	6.03	6.00	5.90	6	9.00
	0:06		Middle	3.5	17.10	17.10		8.08	8.08		32.07	32.07		90.5	90.4		7.20	7.19		5.82	5.76		12	
19/12/17	3:45	Fine	Middle	3.0	16.30	16.30	16.30	7.80	7.80	7.80	29.15	29.15	29.15	94.6	94.9	94.2	7.80	7.83	7.78	8.39	8.44	8.44	8	8.00
	3:46		Middle	3.0	16.30	16.30		7.80	7.80		29.15	29.15		94.0	93.2		7.77	7.72		8.46	8.47		8	
21/12/17	2:35	Fine	Middle	3.0	14.90	14.90	14.90	8.09	8.09	8.09	27.07	27.07	27.07	89.9	90.7	89.9	7.70	7.77	7.70	6.78	6.60	6.63	3	4.00
	2:36		Middle	3.0	14.90	14.90		8.09	8.09		27.07	27.07		90.1	88.7		7.72	7.60		6.59	6.56		5	
23/12/17	4:35	Fine	Middle	3.0	18.10	18.10	18.10	7.98	7.98	7.98	32.33	32.33	32.33	93.8	95.9	95.3	7.32	7.48	7.43	4.68	4.59	4.51	4	4.50
	4:36		Middle	3.0	18.10	18.10		7.98	7.98		32.33	32.33		95.4	96.1		7.44	7.49		4.36	4.40		5	
26/12/17	7:15	Cloudy	Middle	3.0	18.60	18.60	18.60	8.01	8.01	8.03	32.79	32.79	32.79	88.5	87.8	88.4	6.81	6.75	6.80	2.95	2.93	2.91	5	5.00
	7:16		Middle	3.0	18.60	18.60		8.10	8.01		32.78	32.78		89.1	88.0		6.85	6.77		2.88	2.86		5	
28/12/17	9:25	Fine	Middle	3.5	18.60	18.60	18.60	8.13	8.13	8.14	32.10	32.11	32.12	92.0	91.4	92.1	7.11	7.06	7.12	5.66	5.65	5.58	5	5.00
	9:27		Middle	3.5	18.60	18.60		8.14	8.14		32.13	32.13		92.2	92.7		7.13	7.16		5.58	5.41		5	
30/12/17	21:14	Cloudy	Middle	3.5	19.90	19.90	19.90	8.24	8.24	8.24	32.58	32.58	32.58	92.0	92.8	92.2	7.17	7.24	7.19	2.51	2.48	2.48	4	4.00
	21:15		Middle	3.5	19.90	19.90		8.24	8.24		32.58	32.58		92.8	91.0		7.24	7.10		2.46	2.45		4	

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

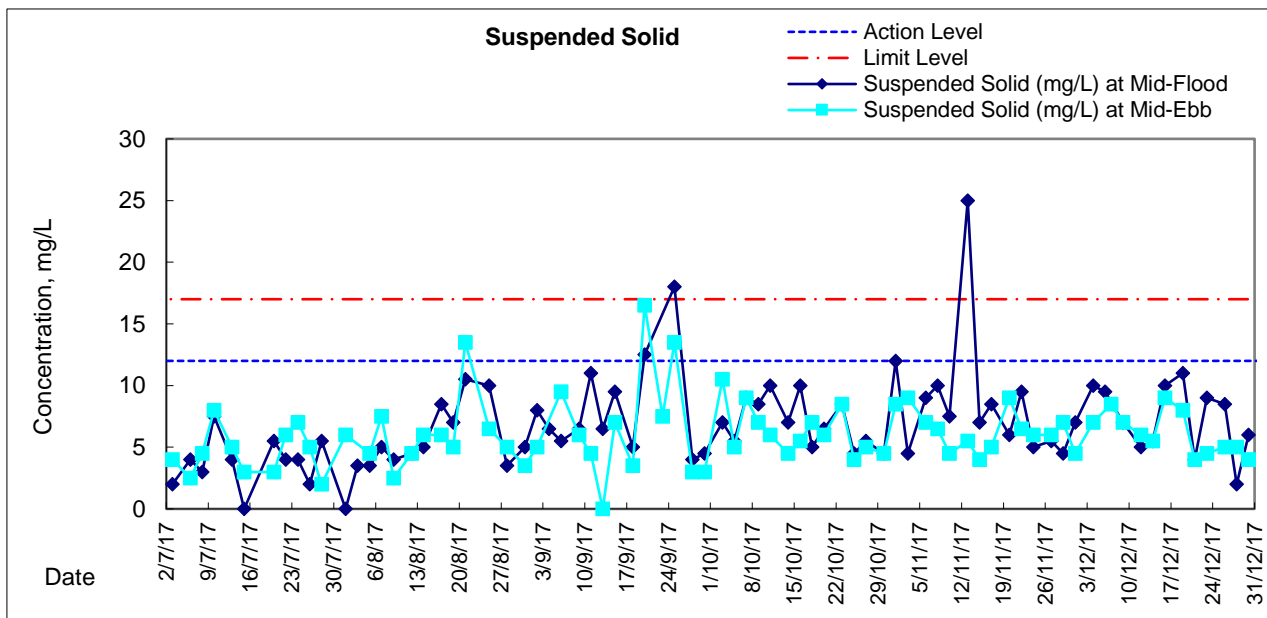
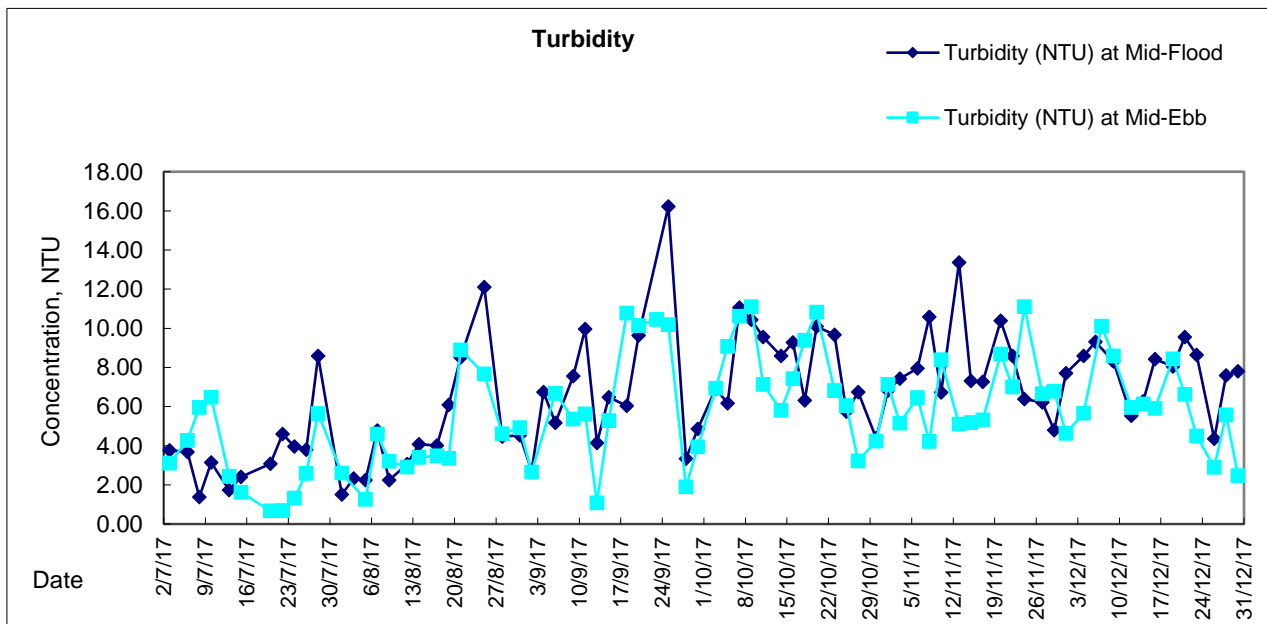
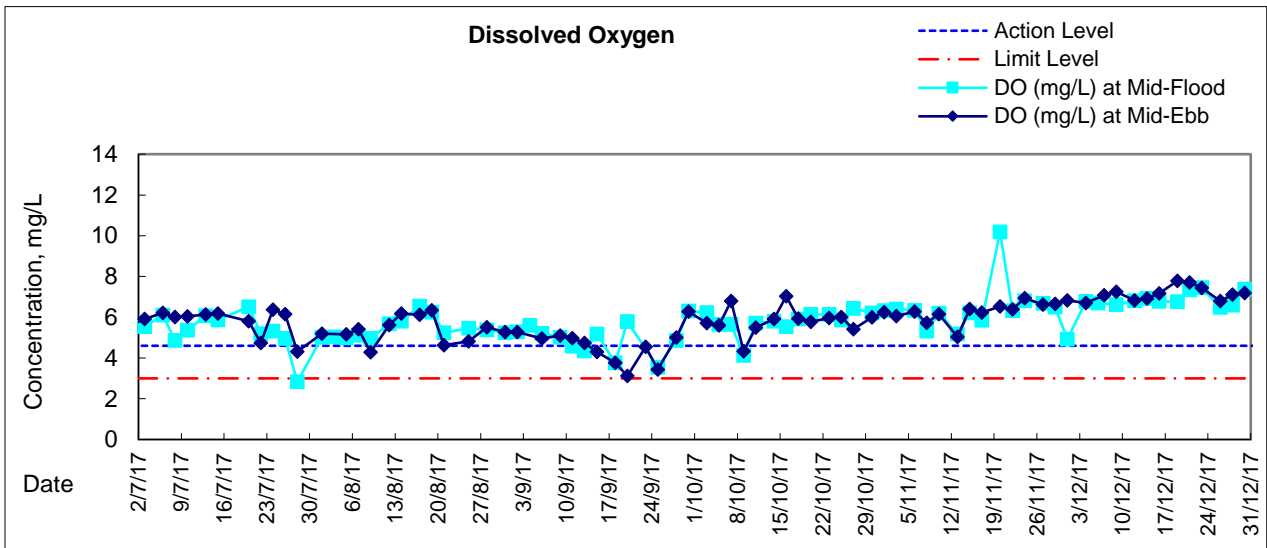


**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

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				
1/12/17	9:55	Fine	Middle	4	22.70	22.70	22.70	8.18	8.18	8.17	29.39	29.39	29.39	77.7	77.9	77.8	5.65	5.67	5.67	9.15	9.16	9.14	8	8.00
	9:57		Middle	4	22.70	22.70		8.15	8.15		29.38	29.38		77.8	77.9		5.67	5.67		9.13	9.12		8	
4/12/17	11:45	Fine	Middle	4	22.90	22.90	22.95	8.25	8.25	8.25	31.20	31.20	31.20	86.1	86.4	85.9	6.18	6.20	6.17	7.83	7.89	7.82	7	8.00
	11:47		Middle	4	23.00	23.00		8.24	8.24		31.20	31.20		86.0	85.2		6.17	6.11		7.78	7.78		9	
7/12/17	23:30	Cloudy	Middle	3	20.10	20.10	20.10	8.21	8.21	8.21	32.08	32.08	32.08	74.6	77.8	77.2	5.71	5.95	5.91	11.60	11.07	11.25	6	6.00
	23:31		Middle	3	20.10	20.10		8.21	8.21		32.08	32.08		78.2	78.3		5.99	5.99		11.21	11.13		6	
9/12/17	5:15	Fine	Middle	3	18.80	18.80	18.80	8.08	8.08	8.08	28.55	28.55	28.55	77.3	79.6	78.6	6.08	6.27	6.19	11.49	11.99	11.63	9	8.50
	5:16		Middle	3	18.80	18.80		8.08	8.08		28.55	28.55		79.4	78.0		6.25	6.14		11.56	11.48		8	
12/12/17	10:25	Fine	Middle	4	20.70	20.70	20.70	8.27	8.27	8.28	32.40	32.40	32.40	88.9	89.0	88.8	6.58	6.59	6.58	5.50	5.51	5.51	8	8.50
	10:27		Middle	4	20.70	20.70		8.28	8.28		32.40	32.40		88.9	88.4		6.59	6.55		5.51	5.51		9	
14/12/17	9:30	Fine	Middle	4	20.90	20.90	20.95	8.29	8.29	8.30	32.27	32.27	32.28	89.7	90.1	89.8	6.62	6.65	6.62	5.54	5.61	5.61	5	4.50
	9:32		Middle	4	21.00	21.00		8.31	8.31		32.28	32.28		90.0	89.2		6.64	6.58		5.64	5.65		4	
16/12/17	0:15	cloudy	Middle	2	17.40	17.40	17.40	8.06	8.06	8.06	28.99	28.99	28.99	75.2	75.5	76.0	6.05	6.07	6.12	8.72	8.64	8.65	6	8.50
	0:16		Middle	2	17.40	17.40		8.06	8.06		28.99	28.99		76.3	76.9		6.16	6.19		8.62	8.60		11	
19/12/17	3:51	Fine	Middle	3	17.60	17.60	17.60	7.79	7.79	7.79	29.25	29.25	29.25	70.8	71.8	71.1	5.68	5.75	5.71	13.06	13.10	13.11	15	15.50
	3:52		Middle	3	17.60	17.60		7.79	7.79		29.25	29.25		71.7	70.2		5.75	5.64		13.12	13.15		16	
21/12/17	2:41	Fine	Middle	3	15.10	15.10	15.10	8.07	8.07	8.07	27.80	27.80	27.80	70.4	70.9	71.3	5.98	6.02	6.05	10.53	10.64	10.71	10	10.50
	2:42		Middle	3	15.10	15.10		8.07	8.07		27.80	27.80		71.7	72.0		6.09	6.11		10.85	10.80		11	
23/12/17	4:40	Fine	Middle	3	18.60	18.60	18.60	8.04	8.04	8.07	25.66	25.66	25.66	74.2	74.6	74.2	5.96	5.99	5.96	15.43	15.41	15.32	13	13.00
	4:41		Middle	3	18.60	18.60		8.14	8.04		25.66	25.66		74.3	73.7		5.97	5.92		15.20	15.23		13	
26/12/17	7:29	Cloudy	Middle	3	18.80	18.80	18.80	8.02	8.02	8.02	31.32	31.32	31.32	77.1	77.3	77.2	5.96	5.97	5.97	5.60	5.00	5.12	6	6.00
	7:12		Middle	3	18.80	18.80		8.02	8.02		31.32	31.32		77.0	77.5		5.95	5.99		4.98	4.90		6	
28/12/17	9:20	Fine	Middle	4	18.70	18.70	18.75	8.13	8.13	8.13	31.84	31.84	31.84	90.2	90.3	90.1	6.96	6.96	6.95	6.77	6.76	6.71	6	5.50
	9:22		Middle	4	18.80	18.80		8.12	8.12		31.84	31.84		90.1	89.6		6.95	6.91		6.68	6.64		5	
30/12/17	21:19	Cloudy	Middle	3	19.90	19.90	19.90	8.11	8.11	8.11	26.18	26.18	26.18	53.1	52.6	52.7	4.31	4.27	4.28	2.28	2.24	2.20	5	5.50
	21:20		Middle	3	19.90	19.90		8.11	8.11		26.18	26.18		52.9	52.2		4.29	4.23		2.10	2.17		6	



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





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

