



**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							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
02/08/2019	19:00	Cloudy	Middle	3.0	26.70	26.70	26.70	7.74	7.74	7.74	27.69	27.69	27.69	86.6	88.8	88.3	5.94	6.09	6.05	6.10	6.12	6.05	5	4.50
	19:01		Middle	3.0	26.70	26.70		7.74	7.74		27.69	27.69		88.1	89.6		6.04	6.14		6.02	5.96		4	
05/08/2019	08:30	Fine	Middle	4.0	29.00	29.00	29.05	7.69	7.69	7.73	28.28	28.28	28.28	104.6	103.7	102.9	6.86	6.81	6.75	9.47	9.47	9.48	11	11.50
	08:32		Middle	4.0	29.10	29.10		7.77	7.77		28.27	28.27		102.3	101.0		6.71	6.63		9.48	9.48		12	
07/08/2019	10:50	Fine	Middle	4.0	28.50	28.50	28.60	8.12	8.12	8.13	30.49	30.49	30.49	95.0	94.3	94.4	6.21	6.17	6.18	16.69	16.47	16.63	13	<u>12.50</u>
	10:52		Middle	4.0	28.70	28.70		8.14	8.14		30.48	30.48		94.2	94.2		6.16	6.16		16.69	16.66		12	
10/08/2019	15:30	Fine	Middle	4.0	29.10	29.10	29.10	7.93	7.93	7.92	29.35	29.35	29.36	93.3	93.6	93.2	6.09	6.11	6.09	4.74	4.75	4.76	8	7.50
	15:32		Middle	4.0	29.10	29.10		7.90	7.90		29.36	29.36		93.0	93.0		6.07	6.07		4.76	4.77		7	
12/08/2019	09:35	Fine	Middle	3.5	30.80	30.80	30.65	7.83	7.83	7.86	25.81	25.81	25.81	97.0	97.1	96.8	6.31	6.32	6.30	4.13	4.13	4.16	9	9.50
	09:37		Middle	3.5	30.50	30.50		7.89	7.89		25.81	25.81		96.9	96.2		6.31	6.26		4.19	4.17		10	
14/08/2019	18:55	Cloudy	Middle	3.5	30.20	30.20	30.20	7.85	7.85	7.85	27.93	27.93	27.93	91.7	91.3	91.0	5.96	5.93	5.91	3.94	3.93	3.92	6	6.50
	18:56		Middle	3.5	30.20	30.20		7.85	7.85		27.93	27.93		90.8	90.1		5.90	5.86		3.98	3.81		7	
16/08/2019	04:31	Cloudy	Middle	3.0	28.70	28.70	28.70	7.75	7.75	7.75	28.54	28.54	28.54	88.8	88.2	88.4	5.86	5.82	5.84	2.52	2.38	2.46	6	5.00
	04:32		Middle	3.0	28.70	28.70		7.75	7.75		28.54	28.54		89.1	87.5		5.88	5.78		2.44	2.50		4	
19/08/2019	07:52	Fine	Middle	3.0	28.30	28.30	28.40	7.68	7.68	7.68	29.35	29.35	29.35	84.6	84.7	84.9	5.73	5.74	5.77	3.06	3.06	3.06	19	<u>13.50</u>
	07:54		Middle	3.0	28.50	28.50		7.68	7.68		29.35	29.35		84.9	85.3		5.78	5.83		3.06	3.06		8	
21/08/2019	09:14	Fine	Middle	4.0	27.70	27.70	27.70	7.84	7.84	7.84	30.98	30.98	30.98	69.4	69.7	69.9	4.58	4.60	4.61	7.03	7.03	6.82	8	8.50
	09:16		Middle	4.0	27.70	27.70		7.84	7.84		30.97	30.97		70.3	70.2		4.64	4.63		6.61	6.61		9	
23/08/2019	23:00	Cloudy	Middle	3.0	28.00	28.00	28.00	7.81	7.81	7.81	30.90	30.90	30.90	83.2	89.0	86.1	5.48	5.87	5.67	1.90	1.85	1.74	7	7.00
	23:01		Middle	3.0	28.00	28.00		7.81	7.81		30.90	30.90		87.7	84.5		5.76	5.57		1.52	1.68		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					
02/08/2019	19:13	Cloudy	Middle	2.5	26.80	26.80	26.80	7.73	7.73	7.73	26.85	26.85	26.85	86.3	87.4	86.8	5.94	6.01	5.97	5.63	5.71	5.74	5	5.00
	19:14		Middle	2.5	26.80	26.80	26.80	7.73	7.73	7.73	26.85	26.85	26.85	86.9	86.5	86.8	5.98	5.95	5.97	5.96	5.67	5.74	5	5.00
05/08/2019	08:25	Fine	Middle	3.5	28.20	28.20	28.23	7.95	7.95	7.96	29.24	29.24	29.24	87.6	87.9	88.1	5.80	5.82	5.83	11.07	11.08	11.05	9	9.00
	08:27		Middle	3.5	28.20	28.30	28.23	7.97	7.97	7.96	29.24	29.24	29.24	88.5	88.3	88.1	5.86	5.84	5.83	11.00	11.05	11.05	9	9.00
07/08/2019	10:45	Fine	Middle	3.5	29.10	29.10	29.25	8.05	8.05	8.07	27.22	27.27	27.24	92.0	91.5	91.5	6.03	5.99	5.98	12.63	12.63	12.63	9	8.50
	10:47		Middle	3.5	29.40	29.40	29.25	8.09	8.09	8.07	27.23	27.23	27.24	91.4	91.0	91.5	5.96	5.94	5.98	12.62	12.62	12.63	8	8.50
10/08/2019	15:25	Fine	Middle	3.5	28.90	28.90	28.95	7.93	7.93	7.94	24.26	24.26	24.26	98.3	98.0	97.8	6.62	6.60	6.58	3.77	3.78	3.78	5	4.50
	15:27		Middle	3.5	29.00	29.00	28.95	7.95	7.95	7.94	24.25	24.25	24.26	97.3	97.4	97.8	6.55	6.56	6.58	3.78	3.79	3.78	4	4.50
12/08/2019	09:30	Fine	Middle	3.5	30.80	30.80	30.85	7.59	7.59	7.58	23.85	23.85	23.85	103.3	102.7	102.8	6.75	6.71	6.70	7.62	7.66	7.64	8	8.00
	09:32		Middle	3.5	30.90	30.90	30.85	7.57	7.57	7.58	23.84	23.84	23.85	102.5	102.5	102.8	6.67	6.67	6.70	7.62	7.64	7.64	8	8.00
14/08/2019	19:07	Cloudy	Middle	3.0	29.80	29.80	29.80	7.85	7.85	7.85	24.77	24.77	24.77	85.3	87.8	85.8	5.65	5.81	5.67	6.03	6.00	5.99	6	6.00
	19:08		Middle	3.0	29.80	29.80	29.80	7.85	7.85	7.85	24.77	24.77	24.77	84.3	85.6	85.8	5.56	5.66	5.67	5.97	5.94	5.99	6	6.00
16/08/2019	04:39	Cloudy	Middle	2.5	28.60	28.60	28.60	7.75	7.75	7.75	27.89	27.89	27.89	83.2	83.6	83.8	5.52	5.54	5.56	2.32	2.38	2.42	6	5.50
	04:40		Middle	2.5	28.60	28.60	28.60	7.75	7.75	7.75	27.89	27.89	27.89	83.7	84.6	83.8	5.55	5.61	5.56	2.30	2.68	2.42	5	5.50
19/08/2019	08:01	Fine	Middle	3.5	28.70	28.70	28.75	7.53	7.53	7.53	28.64	28.64	28.64	87.9	88.4	88.4	6.18	6.24	6.24	3.61	3.61	3.61	8	7.50
	08:03		Middle	3.5	28.80	28.80	28.75	7.53	7.53	7.53	28.64	28.64	28.64	88.5	88.7	88.4	6.25	6.27	6.24	3.61	3.61	3.61	7	7.50
21/08/2019	09:21	Fine	Middle	3.0	27.90	27.90	27.95	7.93	7.93	7.93	30.77	30.77	30.78	67.2	67.8	67.9	4.43	4.47	4.48	5.69	5.69	5.52	8	7.50
	09:23		Middle	3.0	28.00	28.00	27.95	7.93	7.93	7.93	30.78	30.78	30.78	67.6	69.0	67.9	4.46	4.54	4.48	5.35	5.35	5.52	7	7.50
23/08/2019	23:08	Cloudy	Middle	2.5	28.00	28.00	28.00	7.79	7.79	7.79	27.06	27.06	27.06	82.3	84.1	84.0	5.54	5.66	5.65	1.96	2.13	1.97	6	6.50
	23:09		Middle	2.5	28.00	28.00	28.00	7.79	7.79	7.79	27.06	27.06	27.06	84.6	84.9	84.0	5.69	5.71	5.65	2.02	1.75	1.97	7	6.50

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				
02/08/2019	14:20	Cloudy	Middle	4.0	27.20	27.20	27.25	8.10	8.10	8.11	28.19	28.19	28.19	99.0	97.3	97.7	6.70	6.59	6.61	11.02	11.02	11.06	10	9.50
	14:22		Middle	4.0	27.30	27.30		8.11	8.11		28.19	28.19		97.3	97.0		6.58	6.56		11.09	11.09		9	
05/08/2019	15:30	Fine	Middle	3.5	28.00	28.00	28.10	7.86	7.86	7.88	29.43	29.43	29.46	90.1	89.4	89.9	5.97	5.92	5.95	10.44	10.39	10.44	11	11.50
	15:32		Middle	3.5	28.20	28.20		7.89	7.89		29.49	29.49		90.2	90.0		5.97	5.94		10.45	10.47		12	
07/08/2019	15:30	Fine	Middle	3.5	30.90	30.90	30.90	8.18	8.18	8.18	30.42	30.42	30.42	95.5	95.5	95.7	6.02	6.01	6.02	4.40	4.38	4.38	5	4.50
	15:32		Middle	3.5	30.90	30.90		8.17	8.17		30.42	30.42		95.6	96.0		6.01	6.03		4.37	4.36		4	
10/08/2019	08:45	Fine	Middle	3.5	28.90	28.90	28.95	7.94	7.94	7.95	29.13	29.17	29.14	95.0	94.8	94.6	6.22	6.21	6.20	6.45	6.42	6.45	3	3.00
	08:47		Middle	3.5	29.00	29.00		7.95	7.95		29.12	29.12		94.2	94.3		6.17	6.18		6.47	6.47		3	
12/08/2019	15:50	Fine	Middle	4.0	30.40	30.40	30.50	8.34	8.34	8.34	25.84	25.84	25.84	101.2	100.2	100.4	6.58	6.51	6.52	4.35	4.37	4.37	7	6.50
	15:52		Middle	4.0	30.60	30.60		8.34	8.34		25.83	25.83		100.1	100.0		6.49	6.48		4.36	4.38		6	
14/08/2019	10:45	Fine	Middle	4.0	29.60	29.60	29.65	7.87	7.87	7.89	26.68	26.68	26.68	96.0	96.2	96.1	6.30	6.32	6.31	2.58	2.61	2.67	4	4.50
	10:47		Middle	4.0	29.70	29.70		7.91	7.91		26.68	26.68		96.2	96.1		6.31	6.31		2.74	2.73		5	
16/08/2019	11:55	Cloudy	Middle	4.0	28.40	28.40	28.45	7.84	7.84	7.86	29.56	29.56	29.56	95.1	95.0	95.3	6.27	6.25	6.28	4.16	4.11	4.13	8	7.00
	11:57		Middle	4.0	28.50	28.50		7.87	7.87		29.55	29.55		95.7	95.4		6.30	6.28		4.13	4.12		6	
19/08/2019	14:12	Fine	Middle	4.0	28.90	28.90	29.00	7.91	7.91	7.91	27.83	27.83	27.83	91.6	91.8	92.3	6.51	6.53	6.57	3.89	3.89	3.89	7	8.00
	14:14		Middle	4.0	29.10	29.10		7.91	7.91		27.83	27.83		92.8	92.9		6.62	6.63		3.89	3.89		9	
21/08/2019	15:22	Fine	Middle	3.5	27.40	27.40	27.45	7.69	7.69	7.69	29.89	29.89	29.89	71.4	71.6	71.7	4.75	4.77	4.78	3.64	3.64	3.64	8	7.50
	15:24		Middle	3.5	27.50	27.50		7.69	7.69		29.89	29.89		71.8	71.9		4.79	4.80		3.64	3.64		7	
24/08/2019	04:47	Cloudy	Middle	3.5	28.10	28.10	28.10	7.81	7.81	7.81	30.91	30.91	30.91	85.4	87.0	85.7	5.62	5.70	5.64	4.71	4.90	4.68	2	2.50
	04:48		Middle	3.5	28.10	28.10		7.81	7.81		30.91	30.91		86.5	84.0		5.70	5.53		4.60	4.51		3	

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



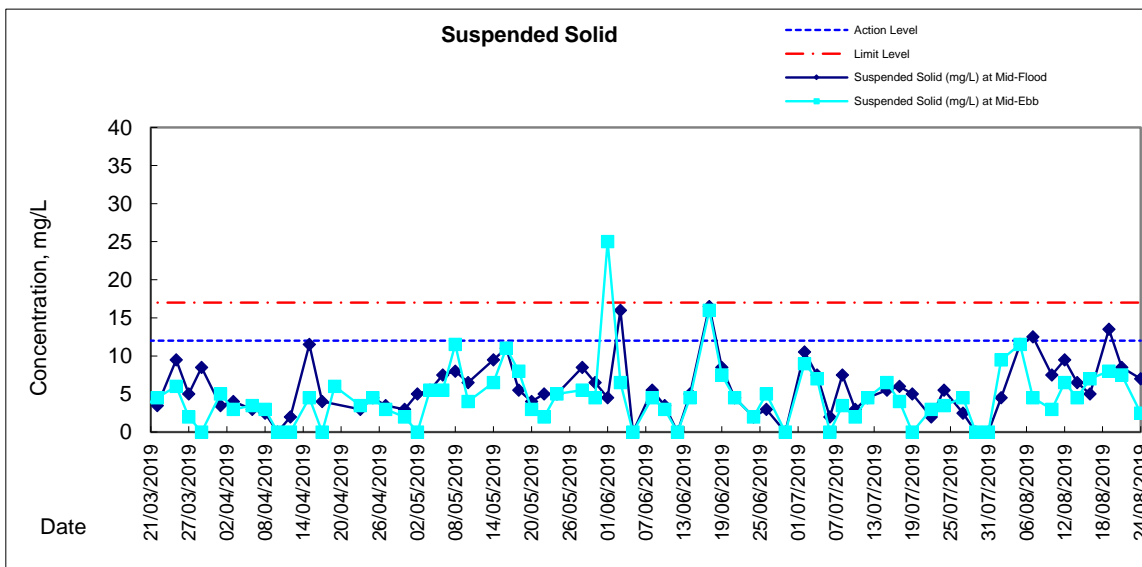
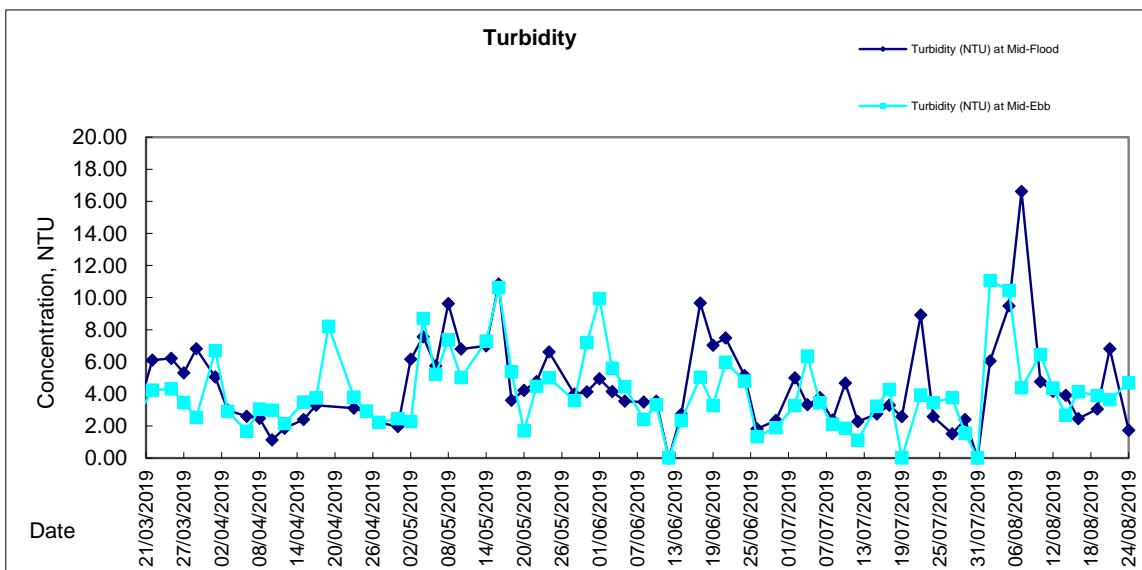
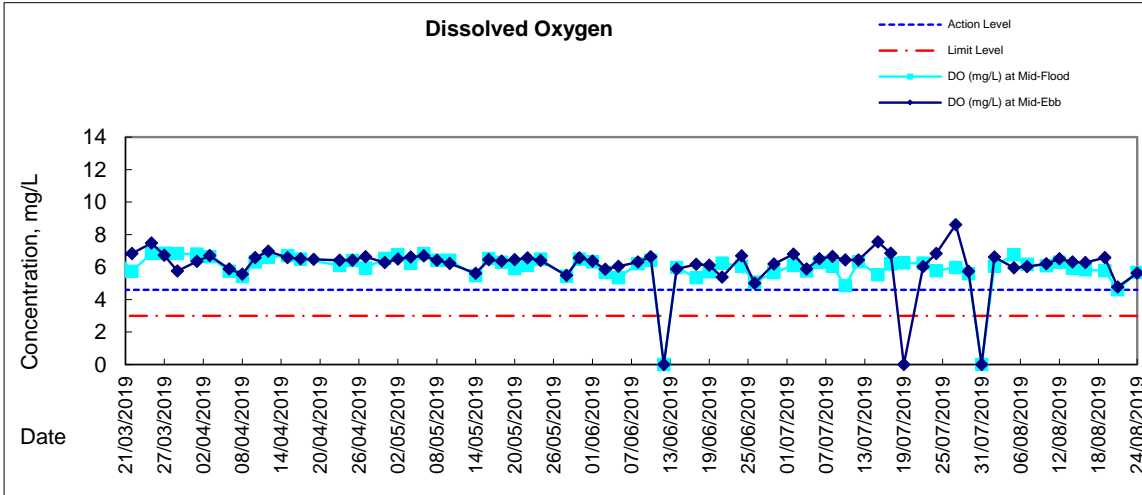
**Water Monitoring Result at Culvert J - Reference Station
Mid-Ebb Tide**

Date	Time	Weather Condition	Sampling Depth 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				
02/08/2019	14:25	Cloudy	Middle	4	27.40	27.40	27.40	8.12	8.12	8.11	26.38	26.38	26.37	91.5	92.4	91.6	6.20	6.24	6.19	12.04	12.05	12.06	7	6.50
	14:27		Middle	4	27.40	27.40		8.10	8.10		26.36	26.36		91.4	91.0		6.17	6.15		12.05	12.08		6	
05/08/2019	15:25	Fine	Middle	4	28.40	28.40	28.45	8.02	8.03	8.03	27.93	27.93	27.98	83.4	83.4	83.6	5.54	5.54	7.05	10.24	10.24	10.26	10	10.00
	15:27		Middle	4	28.50	28.50		8.03	8.03		28.02	28.02		83.7	83.8		8.55	8.56		10.29	10.28		10	
07/08/2019	15:35	Fine	Middle	4	29.50	29.50	29.70	8.19	8.19	8.19	27.86	27.86	27.85	82.5	83.0	83.1	8.37	8.39	6.90	6.58	6.61	6.62	5	5.50
	15:37		Middle	4	29.90	29.90		8.18	8.18		27.84	27.84		83.6	83.4		5.43	5.42		6.64	6.65		6	
10/08/2019	08:40	Fine	Middle	3	29.30	29.30	29.35	7.81	7.81	7.81	27.40	27.40	27.40	107.4	107.5	106.8	7.03	7.05	6.99	3.30	3.30	3.30	3	3.50
	08:42		Middle	3	29.40	29.40		7.80	7.80		27.40	27.40		106.2	106.1		6.95	6.94		3.30	3.31		4	
12/08/2019	15:45	Fine	Middle	4	31.30	31.30	31.40	8.29	8.29	8.30	25.95	25.95	25.96	116.4	115.0	113.0	7.46	7.36	7.23	4.12	4.13	4.14	9	9.50
	15:47		Middle	4	31.50	31.50		8.31	8.31		25.96	25.96		110.5	110.2		7.06	7.03		4.16	4.16		10	
14/08/2019	10:40	Fine	Middle	4	29.50	29.50	29.55	7.82	7.82	7.83	16.33	16.33	16.33	99.3	99.9	98.5	6.91	6.95	6.85	10.94	10.97	10.96	6	6.50
	10:42		Middle	4	29.60	29.60		7.83	7.83		16.33	16.33		98.3	96.6		6.83	6.70		10.98	10.93		7	
16/08/2019	11:50	Cloudy	Middle	4	28.90	28.90	28.90	7.74	7.74	7.75	26.75	26.75	26.75	94.8	94.0	93.6	6.28	6.20	6.20	5.79	5.75	5.75	8	8.50
	11:52		Middle	4	28.90	28.90		7.76	7.76		26.74	26.74		93.1	92.6		6.17	6.13		5.74	5.73		9	
19/08/2019	14:19	Fine	Middle	4	29.00	29.00	29.05	7.86	7.86	7.86	26.91	26.91	26.91	83.9	83.8	84.0	5.60	5.59	5.62	4.12	4.12	4.12	7	7.00
	14:21		Middle	4	29.10	29.10		7.86	7.86		26.91	26.91		84.2	84.2		5.64	5.64		4.12	4.12		7	
21/08/2019	15:30	Fine	Middle	3	27.30	27.30	27.40	7.81	7.81	7.81	29.46	29.46	29.46	72.3	72.1	72.4	4.83	4.81	4.84	3.82	3.82	3.82	7	7.50
	15:32		Middle	3	27.50	27.50		7.81	7.81		29.46	29.46		72.6	72.7		4.86	4.87		3.82	3.82		8	
24/08/2019	04:54	Cloudy	Middle	3	28.10	28.10	28.10	7.78	7.78	7.78	26.92	26.92	26.92	84.4	82.6	84.0	5.68	5.56	5.65	3.59	3.70	3.54	6	5.50
	04:55		Middle	3	28.10	28.10		7.78	7.78		26.92	26.92		83.8	85.0		5.64	5.72		3.62	3.24		5	

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

