

Figure C1 Dissolved Oxygen (mg/L) at the surface and mid-depth of the water column measured during the monitoring period from 27 February to 11 August 2009 for Zone A.



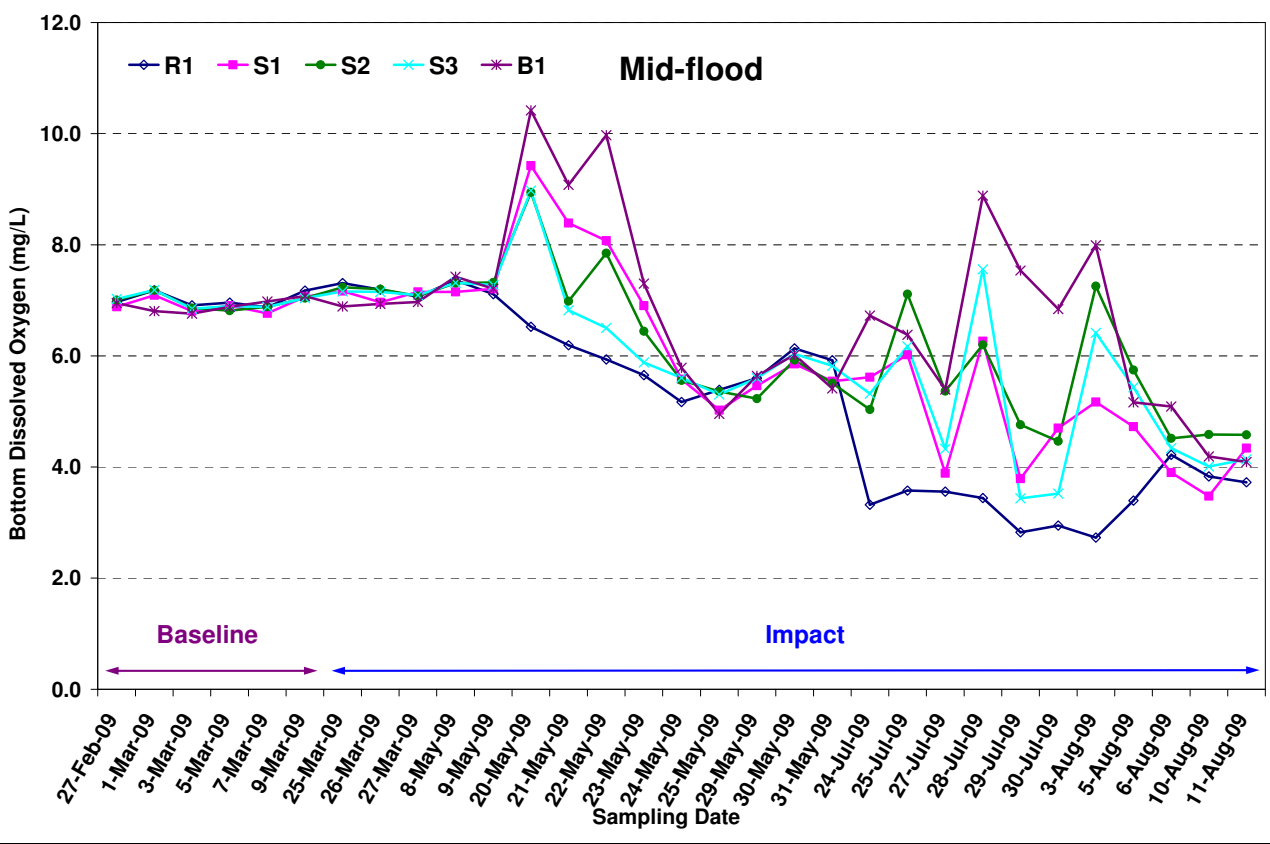
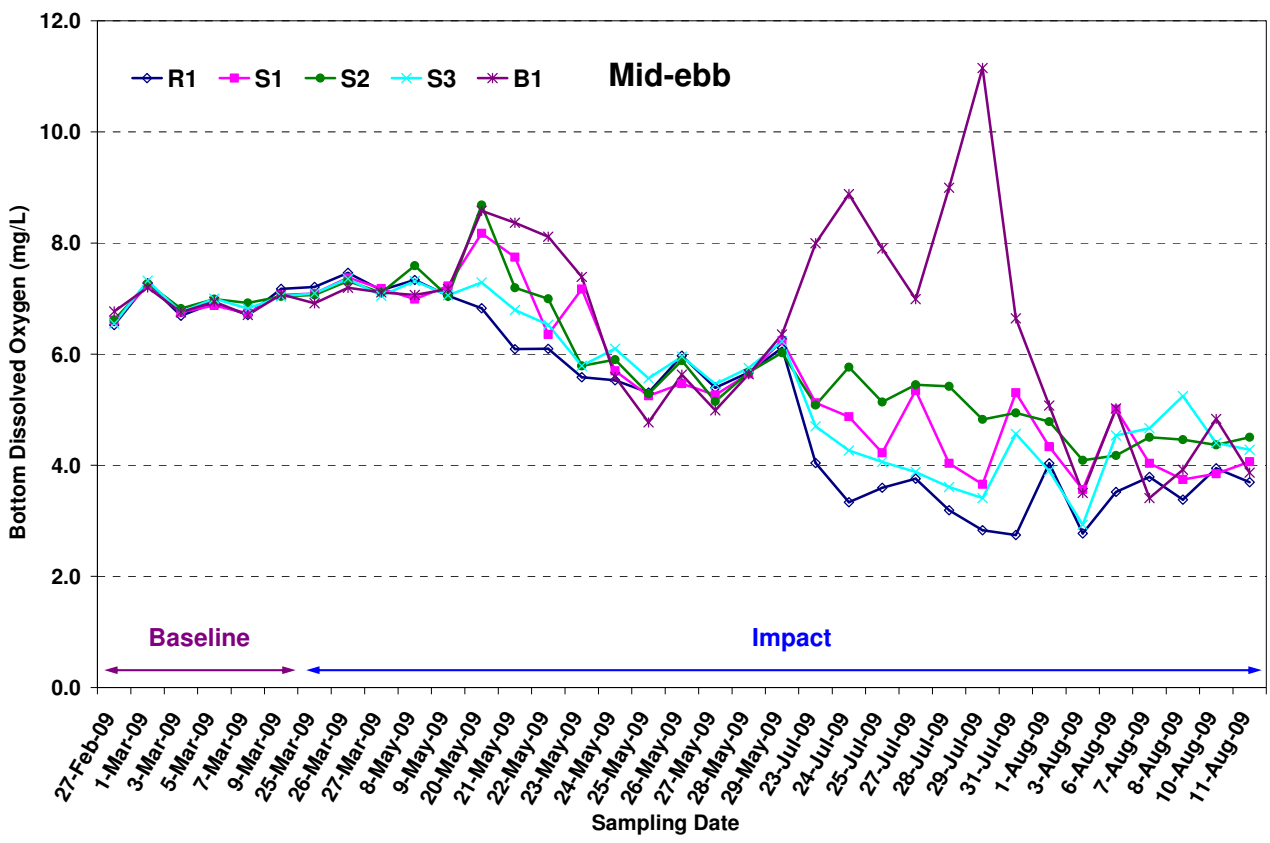


Figure C2 Dissolved Oxygen (mg/L) near the bottom of the water column measured during the monitoring period from 27 February to 11 August 2009 for Zone A.



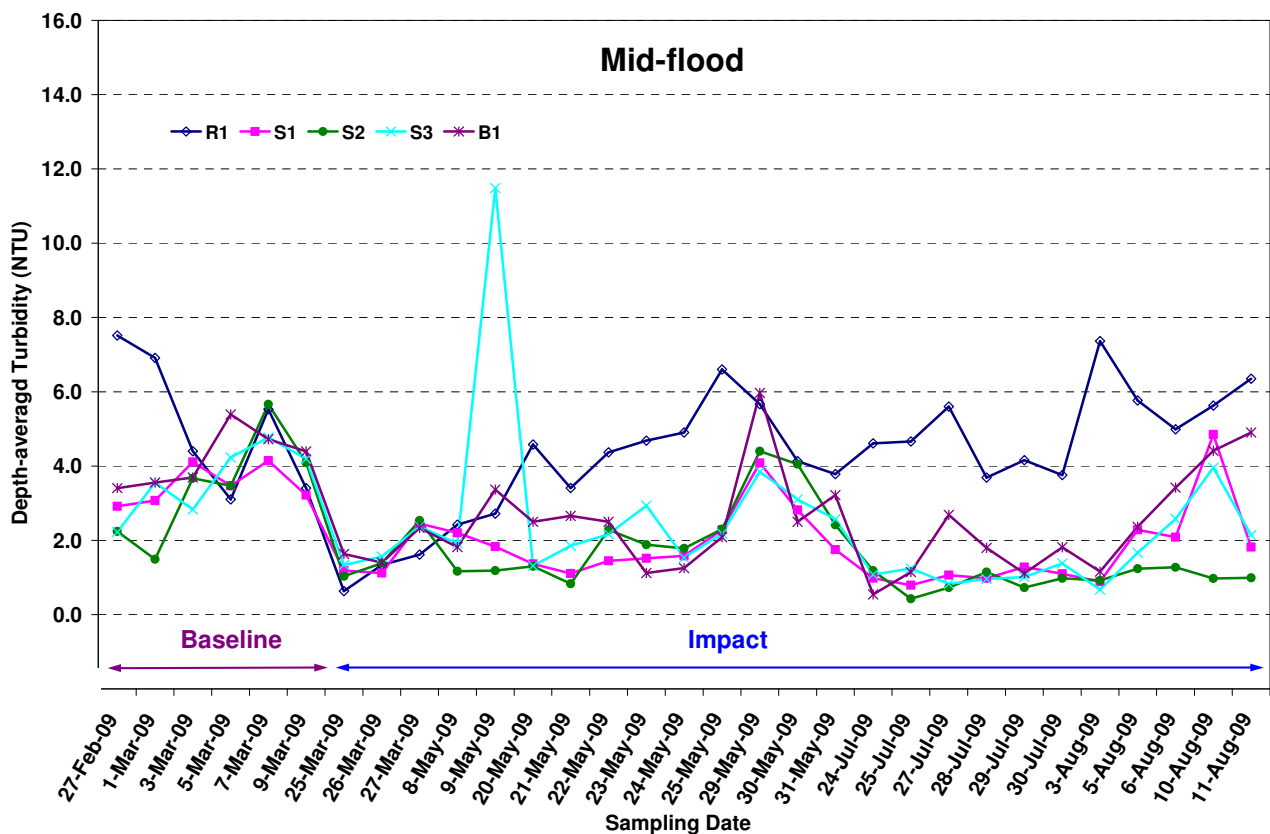
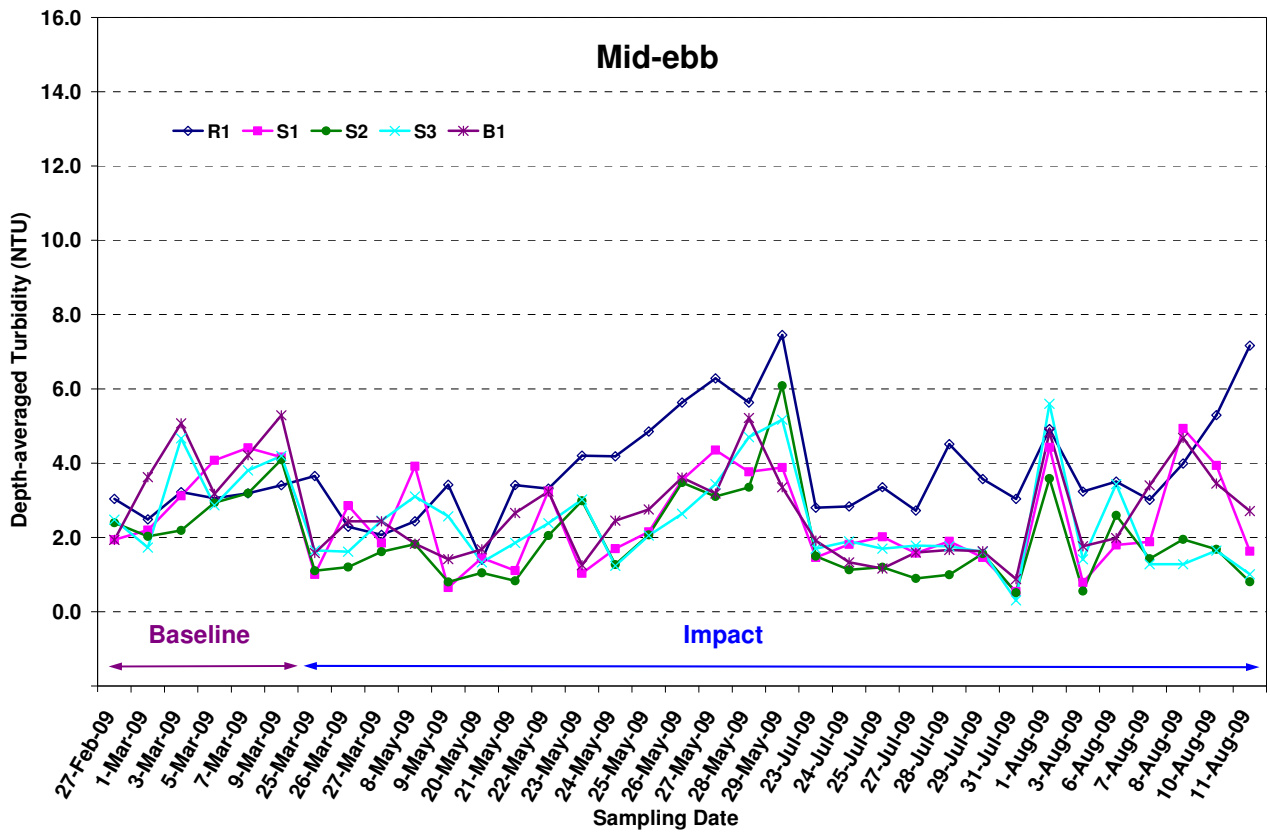
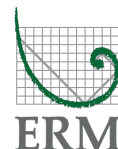


Figure C3 Depth-averaged turbidity (NTU) of water samples measured during the monitoring period from 27 February to 11 August 2009 for Zone A.



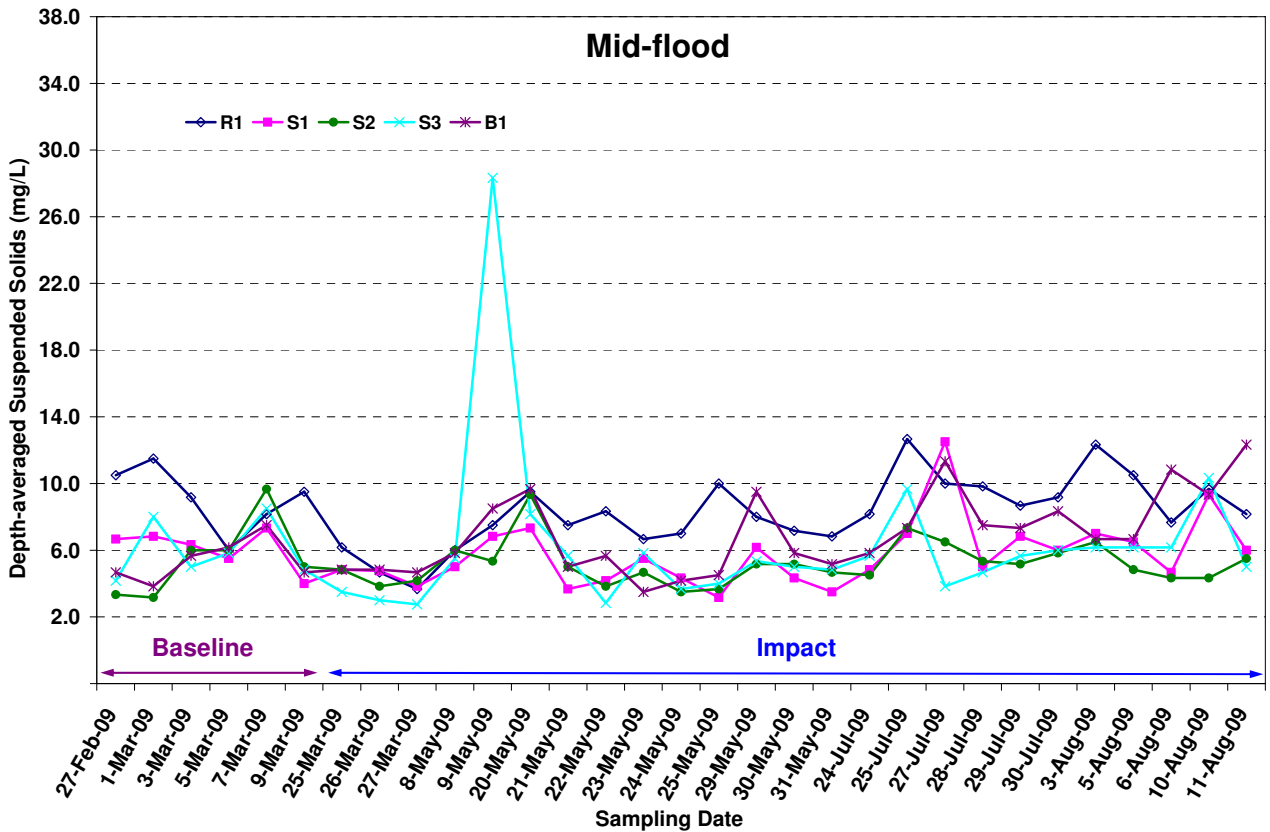
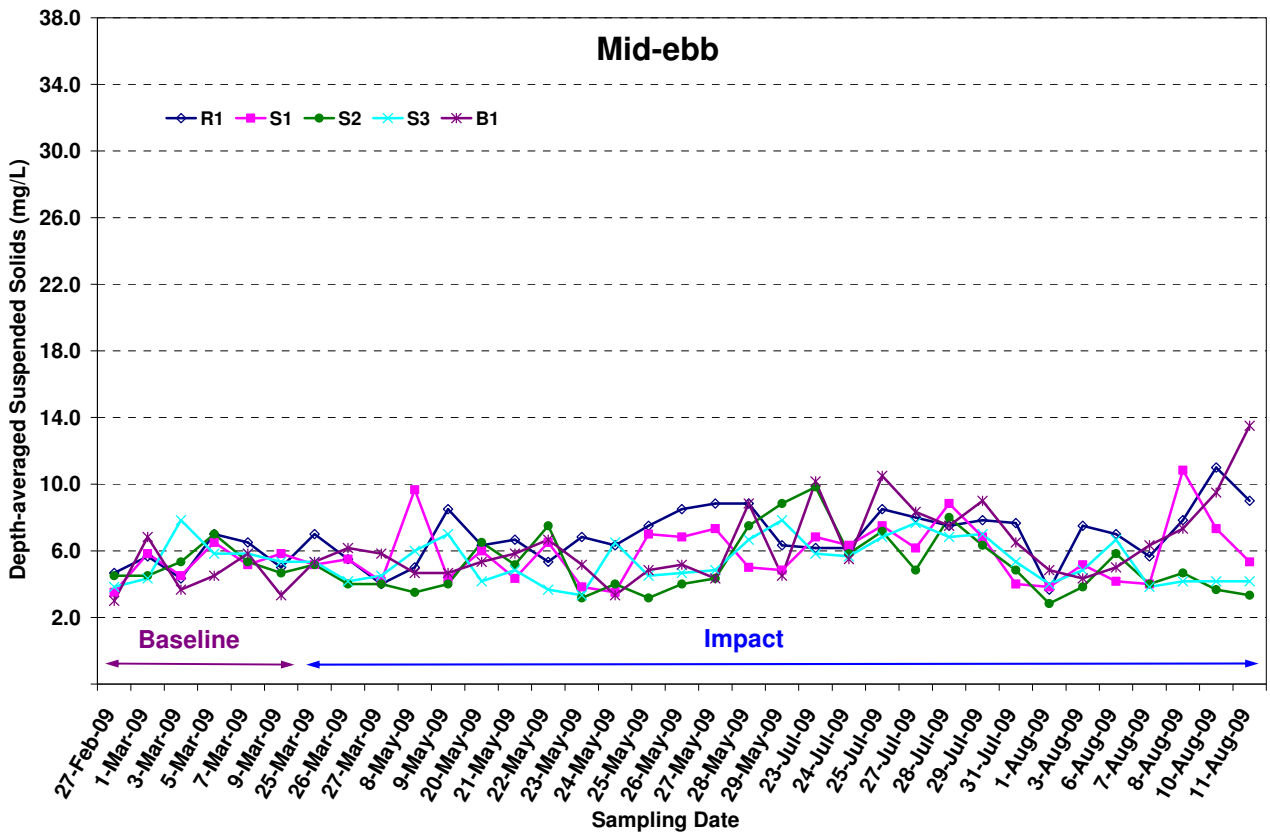


Figure C4 Depth-averaged Suspended Solids (mg/L) of water samples measured during the monitoring period from 27 February to 11 August 2009 for Zone A.



**Impact Water Quality Monitoring Results During Mid-ebb tide for 7 August 2009**

Sampling Date	8/7/2009
Weather	Fine

Station	Zone A: R1									
Time (hh:mm)	13:05-13:13									
Water Depth (m)	22.40									
Monitoring Depth (m)	1.60		11.25			21.40				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.0	28.1	27.6	27.9	26.6	26.7	27.49	-	-	
Salinity (ppt)	30.0	30.0	31.1	30.7	32.4	32.3	31.09	-	-	
D.O. Saturation (%)	73.8	75.8	67.0	71.8	55.4	58.0	66.99	-	-	
D.O. (mg/L)	4.89	5.01	4.45	4.75	3.71	3.87	4.45	4.78	3.79	
Turbidity (NTU)	1.12	1.33	2.74	1.53	6.18	5.17	3.01	-	-	
SS (mg/L)	2.0	4.0	6.0	4.0	8.0	10.0	5.7	-	-	
Remarks										

Station	Zone A: S3									
Time (hh:mm)	12:42-12:50									
Water Depth (m)	11.20									
Monitoring Depth (m)	1.35		5.55			10.10				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.5	28.6	27.8	27.7	27.7	27.8	28.02	-	-	
Salinity (ppt)	29.8	29.7	30.5	30.4	30.6	30.5	30.25	-	-	
D.O. Saturation (%)	75.7	76.5	69.9	68.4	69.8	70.9	71.84	-	-	
D.O. (mg/L)	4.98	5.02	4.64	4.54	4.63	4.70	4.75	4.80	4.67	
Turbidity (NTU)	1.12	0.82	1.33	1.53	1.43	1.43	1.28	-	-	
SS (mg/L)	2.0	4.0	5.0	3.0	3.0	6.0	3.8	-	-	
Remarks										

Station	Zone A: S1									
Time (hh:mm)	12:15-12:23									
Water Depth (m)	9.00									
Monitoring Depth (m)	1.30		4.75			7.90				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.0	28.2	27.6	27.6	27.5	27.5	27.73	-	-	
Salinity (ppt)	29.8	29.6	30.1	30.1	30.2	30.3	29.99	-	-	
D.O. Saturation (%)	61.7	58.4	59.4	54.5	60.8	60.1	59.16	-	-	
D.O. (mg/L)	4.09	3.86	3.96	3.63	4.06	4.01	3.94	3.89	4.04	
Turbidity (NTU)	2.24	1.33	1.43	2.03	2.03	2.24	1.88	-	-	
SS (mg/L)	3.0	3.0	4.0	8.0	3.0	3.0	4.0	-	-	
Remarks										

Station	Zone A: B1									
Time (hh:mm)	12:28-12:35									
Water Depth (m)	6.90									
Monitoring Depth (m)	1.45		3.85			5.85				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.9	28.3	27.7	27.6	27.4	27.5	27.91	-	-	
Salinity (ppt)	29.5	29.7	30.0	30.0	30.3	30.2	29.95	-	-	
D.O. Saturation (%)	69.8	64.0	63.8	60.1	49.7	52.5	59.99	-	-	
D.O. (mg/L)	4.57	4.23	4.25	4.00	3.32	3.50	3.98	4.26	3.41	
Turbidity (NTU)	2.44	1.53	1.63	2.44	6.39	5.98	3.40	-	-	
SS (mg/L)	3.0	7.0	6.0	4.0	8.0	10.0	6.3	-	-	
Remarks										

Station	Zone A: S2									
Time (hh:mm)	12:03-12:10									
Water Depth (m)	8.80									
Monitoring Depth (m)	1.15		4.65			7.75				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.3	28.0	27.6	27.8	27.7	27.8	27.86	-	-	
Salinity (ppt)	29.3	29.6	30.2	30.3	30.4	30.5	30.04	-	-	
D.O. Saturation (%)	71.9	67.2	59.8	65.7	66.7	69.1	66.73	-	-	
D.O. (mg/L)	4.76	4.46	3.98	4.36	4.43	4.58	4.43	4.39	4.51	
Turbidity (NTU)	0.62	1.53	1.83	1.33	1.73	1.53	1.43	-	-	
SS (mg/L)	3.0	5.0	2.0	5.0	6.0	3.0	4.0	-	-	
Remarks										

Position	Easting	Northing	Depth	Time	Speed	Direction	Date
R1	835951.51	809050.64	0	131819	0	0	20090807
R1	836110.32	808997.04	0	132308	0.58	108.7	20090807
R1	836287.17	808913.27	0	132846	0.579	115.3	20090807
R1	836463.05	808848.86	0	133401	0.5946	110.1	20090807

**Compliance with Action and Limit Level**

Parameter	Action Level (baseline data)	Limit Level (baseline data)	Action Level (R1*1.2)	Limit Level (R1*1.3)	S1		S2		S3		B1	
					Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	6.58	6.42			Y	Y	Y	Y	Y	Y	Y	Y
DO (Depth-averaged)	6.59	6.42			Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (Depth-averaged)	5.17	5.72	3.6	3.9	N	N	N	N	N	N	N	N
SS (Depth-averaged)	7.91	8.96	6.8	7.4	N	N	N	N	N	N	N	N

**Impact Water Quality Monitoring Results During Mid-ebb tide for 8 August 2009**

Sampling Date	8/8/2009
Weather	Fine

Station	Zone A: R1									
Time (hh:mm)	14:03-14:11									
Water Depth (m)	21.40									
Monitoring Depth (m)	1.35			11.20			20.60			
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.9	28.6	27.4	27.4	26.0	26.0	27.36	-	-	
Salinity (ppt)	29.1	29.5	32.2	32.2	33.4	33.4	31.63	-	-	
D.O. Saturation (%)	79.1	77.8	60.3	64.0	48.5	52.1	63.61	-	-	
D.O. (mg/L)	5.19	5.12	3.99	4.23	3.26	3.50	4.22	4.63	3.38	
Turbidity (NTU)	0.82	0.72	3.75	2.94	7.50	8.21	3.99	-	-	
SS (mg/L)	3.0	2.0	5.0	7.0	17.0	13.0	7.8	-	-	
Remarks										

Station	Zone A: S3									
Time (hh:mm)	13:45-13:51									
Water Depth (m)	10.80									
Monitoring Depth (m)	1.40			5.45			9.85			
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.7	28.8	28.3	28.1	28.1	28.2	28.36	-	-	
Salinity (ppt)	30.4	30.3	31.0	30.9	31.5	31.5	30.93	-	-	
D.O. Saturation (%)	81.6	80.9	80.5	73.0	79.9	80.2	79.37	-	-	
D.O. (mg/L)	5.33	5.28	5.28	4.80	5.23	5.26	5.20	5.17	5.25	
Turbidity (NTU)	1.22	1.12	1.63	2.34	0.62	0.72	1.28	-	-	
SS (mg/L)	4.0	1.0	4.0	5.0	7.0	4.0	4.2	-	-	
Remarks										

Station	Zone A: S1									
Time (hh:mm)	12:51-13:03									
Water Depth (m)	8.60									
Monitoring Depth (m)	1.45		4.70			7.75				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.8	28.4	27.7	27.7	27.8	27.7	28.01	-	-	
Salinity (ppt)	29.8	30.0	30.3	30.3	31.0	31.2	30.42	-	-	
D.O. Saturation (%)	75.8	73.9	58.0	57.0	54.7	58.5	62.97	-	-	
D.O. (mg/L)	4.96	4.87	3.85	3.79	3.62	3.87	4.16	4.37	3.75	
Turbidity (NTU)	1.63	0.72	2.03	2.84	8.81	13.57	4.93	-	-	
SS (mg/L)	2.0	6.0	12.0	10.0	19.0	16.0	10.8	-	-	
Remarks										

Station	Zone A: B1									
Time (hh:mm)	13:11-13:37									
Water Depth (m)	6.20									
Monitoring Depth (m)	1.40		3.50			5.45				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	29.4	28.8	28.3	27.9	27.9	27.9	28.36	-	-	
Salinity (ppt)	29.5	29.9	30.1	30.5	30.6	31.1	30.26	-	-	
D.O. Saturation (%)	82.7	76.6	65.2	61.1	58.3	60.4	67.38	-	-	
D.O. (mg/L)	5.37	5.01	4.30	4.04	3.86	3.98	4.43	4.68	3.92	
Turbidity (NTU)	0.82	1.43	2.84	2.94	5.37	14.68	4.68	-	-	
SS (mg/L)	2.0	2.0	5.0	7.0	15.0	13.0	7.3	-	-	
Remarks										

Station	Zone A: S2									
Time (hh:mm)	12:33-12:40									
Water Depth (m)	8.80									
Monitoring Depth (m)	1.25		4.55			7.75				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.8	28.8	27.6	27.7	28.1	27.9	28.14	-	-	
Salinity (ppt)	30.0	29.9	30.5	30.4	30.9	30.8	30.41	-	-	
D.O. Saturation (%)	71.9	72.9	48.1	53.8	73.0	62.5	63.69	-	-	
D.O. (mg/L)	4.70	4.77	3.20	3.57	4.80	4.12	4.19	4.06	4.46	
Turbidity (NTU)	0.82	0.62	3.55	2.03	1.22	3.45	1.95	-	-	
SS (mg/L)	4.0	2.0	7.0	4.0	4.0	7.0	4.7	-	-	
Remarks										

Position	Easting	Northing	Depth	Time	Speed	Direction	Date
R1	835948.31	809051.3	0	141426	0	0	20090808
R1	836157.85	808994.29	0	141935	0.7028	105.2	20090808
R1	836340.2	808924.66	0	142426	0.6708	110.9	20090808
R1	836551.84	808867.54	0	143014	0.6299	105.1	20090808

**Compliance with Action and Limit Level**

Parameter	Action Level (baseline data)	Limit Level (baseline data)	Action Level (R1*1.2)	Limit Level (R1*1.3)	S1		S2		S3		B1	
					Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	6.58	6.42			Y	Y	Y	Y	Y	Y	Y	Y
DO (Depth-averaged)	6.59	6.42			Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (Depth-averaged)	5.17	5.72	4.8	5.2	Y	N	N	N	N	N	N	N
SS (Depth-averaged)	7.91	8.96	9.4	10.2	Y	Y	N	N	N	N	N	N

**Impact Water Quality Monitoring Results During Mid-ebb tide for 10 August 2009**

Sampling Date	8/10/2009
Weather	Fine

Station	Zone A: R1									
Time (hh:mm)	08:25-08:33									
Water Depth (m)	21.80									
Monitoring Depth (m)	1.80	11.60				21.05				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.5	28.6	27.9	27.8	25.1	25.1	27.16	-	-	
Salinity (ppt)	28.8	28.8	31.1	31.1	33.7	33.7	31.23	-	-	
D.O. Saturation (%)	80.6	84.8	70.8	69.8	57.3	58.6	70.32	-	-	
D.O. (mg/L)	5.33	5.59	4.67	4.61	3.90	3.99	4.68	5.05	3.95	
Turbidity (NTU)	0.82	0.62	1.02	1.33	14.79	13.17	5.29	-	-	
SS (mg/L)	4.0	2.0	4.0	2.0	27.0	27.0	11.0	-	-	
Remarks										

Station	Zone A: S3									
Time (hh:mm)	08:05-08:12									
Water Depth (m)	11.40									
Monitoring Depth (m)	1.60	5.85				10.35				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.6	28.7	28.5	28.5	27.9	27.9	28.36	-	-	
Salinity (ppt)	29.6	29.4	30.2	30.2	31.1	31.0	30.25	-	-	
D.O. Saturation (%)	86.5	86.9	80.3	79.5	66.9	66.6	77.78	-	-	
D.O. (mg/L)	5.68	5.71	5.27	5.21	4.41	4.39	5.11	5.47	4.40	
Turbidity (NTU)	1.22	0.72	1.33	1.22	2.64	2.74	1.65	-	-	
SS (mg/L)	2.0	3.0	5.0	4.0	6.0	5.0	4.2	-	-	
Remarks										

Station	Zone A: S1									
Time (hh:mm)	07:39-07:45									
Water Depth (m)	8.60									
Monitoring Depth (m)	1.80	4.95				7.60				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.7	28.6	28.0	28.1	27.7	27.7	28.14	-	-	
Salinity (ppt)	29.3	29.2	31.0	30.9	31.3	31.4	30.50	-	-	
D.O. Saturation (%)	86.7	84.6	64.2	63.6	57.1	59.5	69.28	-	-	
D.O. (mg/L)	5.70	5.57	4.23	4.19	3.77	3.93	4.57	4.92	3.85	
Turbidity (NTU)	1.02	0.72	4.16	3.75	6.59	7.40	3.94	-	-	
SS (mg/L)	4.0	4.0	8.0	8.0	11.0	9.0	7.3	-	-	
Remarks										

Station	Zone A: B1									
Time (hh:mm)	07:52-07:58									
Water Depth (m)	6.30									
Monitoring Depth (m)	1.85	4.10				5.50				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.8	28.9	29.0	28.9	28.6	27.9	28.66	-	-	
Salinity (ppt)	29.3	29.4	29.6	29.6	30.2	31.3	29.90	-	-	
D.O. Saturation (%)	91.6	95.1	97.2	94.3	78.4	68.8	87.56	-	-	
D.O. (mg/L)	6.01	6.23	6.35	6.16	5.14	4.53	5.74	6.19	4.84	
Turbidity (NTU)	1.33	1.22	1.53	1.73	7.40	7.50	3.45	-	-	
SS (mg/L)	5.0	5.0	8.0	6.0	16.0	17.0	9.5	-	-	
Remarks										

Station	Zone A: S2									
Time (hh:mm)	07:27-07:33									
Water Depth (m)	8.20									
Monitoring Depth (m)	1.75	5.00				8.10				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.7	28.6	28.8	28.8	27.7	27.7	28.37	-	-	
Salinity (ppt)	29.4	29.4	30.1	30.0	31.5	31.4	30.29	-	-	
D.O. Saturation (%)	86.8	87.3	86.1	91.0	66.5	65.7	80.57	-	-	
D.O. (mg/L)	5.71	5.74	5.63	5.95	4.39	4.34	5.29	5.76	4.37	
Turbidity (NTU)	0.72	0.72	1.63	1.73	2.14	3.15	1.68	-	-	
SS (mg/L)	2.0	3.0	2.0	3.0	6.0	6.0	3.7	-	-	
Remarks										

Position	Easting	Northing	Depth	Time	Speed	Direction	Date
R1	835950.48	809051.43	0	83751	0	0	20090810
R1	835951.87	809113.09	0	84219	0.2301	1.3	20090810
R1	835925.62	809201.5	0	84927	0.2155	343.5	20090810
R1	835932.64	809252.71	0	85547	0.136	7.8	20090810

**Compliance with Action and Limit Level**

Parameter	Action Level (baseline data)	Limit Level (baseline data)	Action Level (R1*1.2)	Limit Level (R1*1.3)	S1		S2		S3		B1	
					Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	6.58	6.42			Y	Y	Y	Y	Y	Y	Y	Y
DO (Depth-averaged)	6.59	6.42			Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (Depth-averaged)	5.17	5.72	6.4	6.9	N	N	N	N	N	N	N	N
SS (Depth-averaged)	7.91	8.96	13.2	14.3	N	N	N	N	N	N	N	N

**Impact Water Quality Monitoring Results During Mid-flood tide for 10 August 2009**

Sampling Date	8/10/2009
Weather	Fine

Station	Zone A: R1									
Time (hh:mm)	14:58-15:07									
Water Depth (m)	22.20									
Monitoring Depth (m)	1.40			11.40			21.25			
Tide	Mid-Flood									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.4	28.7	27.0	26.6	25.0	25.0	26.78	-	-	
Salinity (ppt)	29.5	29.5	32.1	32.6	33.8	33.8	31.89	-	-	
D.O. Saturation (%)	78.4	80.7	62.0	60.6	55.9	56.5	65.70	-	-	
D.O. (mg/L)	5.17	5.30	4.13	4.05	3.81	3.85	4.39	4.66	3.83	
Turbidity (NTU)	1.22	1.12	3.55	3.96	12.36	11.55	5.63	-	-	
SS (mg/L)	6.0	3.0	7.0	10.0	18.0	14.0	9.7	-	-	
Remarks										

Station	Zone A: S3									
Time (hh:mm)	14:38-14:46									
Water Depth (m)	9.60									
Monitoring Depth (m)	1.40			5.25			8.40			
Tide	Mid-Flood									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.7	28.8	28.3	28.3	26.8	26.8	27.95	-	-	
Salinity (ppt)	30.0	29.9	30.5	30.6	32.4	32.4	30.97	-	-	
D.O. Saturation (%)	91.2	95.1	75.0	74.3	60.2	60.2	76.01	-	-	
D.O. (mg/L)	5.97	6.22	4.93	4.89	4.01	4.01	5.01	5.50	4.01	
Turbidity (NTU)	1.53	1.73	1.93	1.83	8.41	8.31	3.96	-	-	
SS (mg/L)	2.0	3.0	6.0	7.0	22.0	22.0	10.3	-	-	
Remarks										

Station	Zone A: S1									
Time (hh:mm)	14:06-14:15									
Water Depth (m)	7.80									
Monitoring Depth (m)	1.45		4.35			6.90				
Tide	Mid-Flood									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.9	29.2	28.2	28.1	27.5	27.5	28.22	-	-	
Salinity (ppt)	29.3	29.7	30.6	30.8	31.7	31.8	30.65	-	-	
D.O. Saturation (%)	98.3	127.2	62.4	62.5	51.8	53.2	75.91	-	-	
D.O. (mg/L)	6.44	8.28	4.10	4.11	3.43	3.52	4.98	5.73	3.48	
Turbidity (NTU)	0.72	1.22	3.86	2.64	11.85	8.81	4.85	-	-	
SS (mg/L)	6.0	6.0	6.0	8.0	15.0	15.0	9.3	-	-	
Remarks										

Station	Zone A: B1									
Time (hh:mm)	14:21-14:29									
Water Depth (m)	6.30									
Monitoring Depth (m)	1.45		3.20			5.30				
Tide	Mid-Flood									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	29.0	29.1	28.5	28.3	27.5	27.5	28.30	-	-	
Salinity (ppt)	29.8	29.6	30.3	30.6	31.6	31.7	30.60	-	-	
D.O. Saturation (%)	106.2	95.1	75.3	66.9	62.2	64.6	78.37	-	-	
D.O. (mg/L)	6.93	6.20	4.94	4.40	4.11	4.27	5.14	5.62	4.19	
Turbidity (NTU)	2.34	3.96	6.49	5.68	4.36	3.65	4.41	-	-	
SS (mg/L)	6.0	6.0	13.0	14.0	9.0	8.0	9.3	-	-	
Remarks										

Station	Zone A: S2									
Time (hh:mm)	13:53-14:00									
Water Depth (m)	7.80									
Monitoring Depth (m)	1.30		4.35			6.90				
Tide	Mid-Flood									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	29.1	29.2	29.0	29.0	28.0	28.0	28.71	-	-	
Salinity (ppt)	29.2	29.2	29.8	29.8	30.8	30.9	29.97	-	-	
D.O. Saturation (%)	106.1	109.0	105.6	109.6	70.1	69.0	94.88	-	-	
D.O. (mg/L)	6.93	7.11	6.89	7.14	4.62	4.55	6.21	7.02	4.59	
Turbidity (NTU)	0.92	0.82	1.02	1.02	1.02	1.02	0.97	-	-	
SS (mg/L)	3.0	4.0	3.0	5.0	6.0	5.0	4.3	-	-	
Remarks										

Position	Easting	Northing	Depth	Time	Speed	Direction	Date
R1	835948.64	809053.56	0	151057	0.0089	175.4	20090810
R1	836087.79	808982.13	0	151704	0.4262	117.2	20090810
R1	836213.94	808943.28	0	152211	0.43	107.1	20090810
R1	836353.76	808887.58	0	152809	0.4204	111.7	20090810

**Compliance with Action and Limit Level**

Parameter	Action Level (baseline data)	Limit Level (baseline data)	Action Level (R1*1.2)	Limit Level (R1*1.3)	S1		S2		S3		B1	
					Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	6.58	6.42			Y	Y	Y	Y	Y	Y	Y	Y
DO (Depth-averaged)	6.59	6.42			Y	Y	N	N	Y	Y	Y	Y
Turbidity (Depth-averaged)	5.17	5.72	6.8	7.3	N	N	N	N	N	N	N	N
SS (Depth-averaged)	7.91	8.96	11.6	12.6	Y	Y	N	N	Y	Y	Y	Y



**Impact Water Quality Monitoring Results During Mid-flood tide for 11 August 2009**

Sampling Date	8/11/2009
Weather	Fine

Station	Zone A: R1									
Time (hh:mm)	15:35-15:42									
Water Depth (m)	21.80									
Monitoring Depth (m)	1.40			11.25			20.90			
Tide	Mid-Flood									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.5	28.6	26.7	26.5	24.9	24.9	26.68	-	-	
Salinity (ppt)	29.0	29.0	32.9	32.9	33.8	33.7	31.87	-	-	
D.O. Saturation (%)	84.4	84.8	58.1	58.0	53.4	55.6	65.73	-	-	
D.O. (mg/L)	5.58	5.60	3.87	3.88	3.65	3.80	4.40	4.73	3.73	
Turbidity (NTU)	1.02	1.02	2.74	3.25	14.58	15.49	6.35	-	-	
SS (mg/L)	6.0	6.0	3.0	3.0	15.0	16.0	8.2	-	-	
Remarks										

Station	Zone A: S3									
Time (hh:mm)	15:16-15:23									
Water Depth (m)	10.00									
Monitoring Depth (m)	1.25			4.95			8.90			
Tide	Mid-Flood									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.9	28.9	28.4	28.4	26.5	26.5	27.91	-	-	
Salinity (ppt)	28.8	28.8	30.2	30.3	32.6	32.6	30.53	-	-	
D.O. Saturation (%)	113.9	114.3	78.5	78.4	62.4	61.2	84.78	-	-	
D.O. (mg/L)	7.49	7.51	5.16	5.15	4.18	4.10	5.60	6.33	4.14	
Turbidity (NTU)	0.82	0.82	0.92	1.02	4.97	4.26	2.14	-	-	
SS (mg/L)	5.0	3.0	4.0	5.0	7.0	6.0	5.0	-	-	
Remarks										

Station	Zone A: S1									
Time (hh:mm)	14:46-14:54									
Water Depth (m)	7.90									
Monitoring Depth (m)	1.50			3.90			6.85			
Tide	Mid-Flood									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.7	28.7	28.6	29.0	27.6	27.6	28.38	-	-	
Salinity (ppt)	28.8	28.7	30.0	29.4	31.4	31.4	29.95	-	-	
D.O. Saturation (%)	111.2	114.8	79.8	101.0	64.4	66.8	89.64	-	-	
D.O. (mg/L)	7.32	7.57	5.23	6.60	4.26	4.42	5.90	6.68	4.34	
Turbidity (NTU)	0.62	0.62	1.33	1.53	3.15	3.65	1.82	-	-	
SS (mg/L)	4.0	5.0	7.0	6.0	7.0	7.0	6.0	-	-	
Remarks										

Station	Zone A: B1									
Time (hh:mm)	15:03-15:09									
Water Depth (m)	5.30									
Monitoring Depth (m)	1.40			3.20			4.40			
Tide	Mid-Flood									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.8	28.9	28.3	28.3	28.1	28.1	28.42	-	-	
Salinity (ppt)	28.7	28.2	30.5	30.5	30.7	30.7	29.88	-	-	
D.O. Saturation (%)	112.7	124.4	66.8	65.0	59.6	64.7	82.20	-	-	
D.O. (mg/L)	7.42	8.20	4.39	4.27	3.92	4.26	5.41	6.07	4.09	
Turbidity (NTU)	2.03	1.22	5.37	6.18	7.40	7.20	4.90	-	-	
SS (mg/L)	5.0	5.0	10.0	12.0	22.0	20.0	12.3	-	-	
Remarks										

Station	Zone A: S2									
Time (hh:mm)	14:34-14:40									
Water Depth (m)	8.70									
Monitoring Depth (m)	1.30			4.55			7.80			
Tide	Mid-Flood									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	29.0	29.1	28.8	28.8	28.0	28.0	28.60	-	-	
Salinity (ppt)	28.3	28.3	29.5	29.7	30.9	30.9	29.59	-	-	
D.O. Saturation (%)	108.5	108.7	91.5	97.9	69.6	69.3	90.92	-	-	
D.O. (mg/L)	7.13	7.14	6.00	6.41	4.59	4.57	5.97	6.67	4.58	
Turbidity (NTU)	0.52	0.52	0.62	0.72	2.03	1.53	0.99	-	-	
SS (mg/L)	6.0	4.0	6.0	6.0	5.0	6.0	5.5	-	-	
Remarks										

Position	Easting	Northing	Depth	Time	Speed	Direction	Date
R1	835947.33	809050.75	0	154700	0.0096	175.8	20090811
R1	836052.53	808979.49	0	155341	0.3169	124.1	20090811
R1	836130.3	808914.56	0	155834	0.3458	129.9	20090811
R1	836238.68	808828.38	0	160536	0.3281	128.5	20090811

**Compliance with Action and Limit Level**

Parameter	Action Level (baseline data)	Limit Level (baseline data)	Action Level (R1*1.2)	Limit Level (R1*1.3)	S1		S2		S3		B1	
					Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	6.58	6.42			Y	Y	Y	Y	Y	Y	Y	Y
DO (Depth-averaged)	6.59	6.42			N	N	N	N	Y	Y	Y	Y
Turbidity (Depth-averaged)	5.17	5.72	7.6	8.3	N	N	N	N	N	N	N	N
SS (Depth-averaged)	7.91	8.96	9.8	10.6	N	N	N	N	N	N	Y	Y

**Impact Water Quality Monitoring Results During Mid-ebb tide for 11 August 2009**

Sampling Date	8/11/2009
Weather	Fine

Station	Zone A: R1									
Time (hh:mm)	09:18-09:26									
Water Depth (m)	22.60									
Monitoring Depth (m)	1.70		11.65			21.40				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.2	28.2	27.7	27.8	24.8	24.9	26.94	-	-	
Salinity (ppt)	28.4	28.5	31.2	31.2	33.8	33.8	31.14	-	-	
D.O. Saturation (%)	74.4	71.0	66.5	66.3	54.0	54.2	64.41	-	-	
D.O. (mg/L)	4.96	4.73	4.39	4.38	3.69	3.70	4.31	4.62	3.70	
Turbidity (NTU)	1.53	1.73	1.83	1.93	17.52	18.43	7.16	-	-	
SS (mg/L)	2.0	2.0	4.0	4.0	18.0	24.0	9.0	-	-	
Remarks										

Station	Zone A: S3									
Time (hh:mm)	08:58-09:04									
Water Depth (m)	11.10									
Monitoring Depth (m)	1.25		5.70			10.05				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.6	28.5	28.2	28.4	27.7	27.8	28.21	-	-	
Salinity (ppt)	29.5	29.4	30.5	30.2	31.4	31.2	30.35	-	-	
D.O. Saturation (%)	84.7	85.9	68.9	72.3	64.7	64.9	73.57	-	-	
D.O. (mg/L)	5.57	5.66	4.54	4.75	4.27	4.29	4.85	5.13	4.28	
Turbidity (NTU)	0.62	0.62	1.02	0.72	1.63	1.43	1.01	-	-	
SS (mg/L)	4.0	3.0	4.0	5.0	5.0	4.0	4.2	-	-	
Remarks										

Station	Zone A: S1									
Time (hh:mm)	08:28-08:35									
Water Depth (m)	9.00									
Monitoring Depth (m)	1.05		4.40			8.05				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.8	28.8	28.2	28.4	27.9	27.9	28.33	-	-	
Salinity (ppt)	29.1	29.2	30.6	30.3	31.1	31.1	30.21	-	-	
D.O. Saturation (%)	92.4	91.7	63.8	70.1	61.3	62.0	73.54	-	-	
D.O. (mg/L)	6.07	6.02	4.20	4.61	4.04	4.09	4.84	5.23	4.07	
Turbidity (NTU)	0.52	0.52	1.43	1.22	3.75	2.34	1.63	-	-	
SS (mg/L)	3.0	3.0	6.0	4.0	8.0	8.0	5.3	-	-	
Remarks										

Station	Zone A: B1									
Time (hh:mm)	08:42-08:49									
Water Depth (m)	7.00									
Monitoring Depth (m)	1.10		3.45			5.85				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.9	28.9	28.5	28.7	28.0	28.1	28.53	-	-	
Salinity (ppt)	29.4	29.5	30.2	29.9	30.9	30.8	30.12	-	-	
D.O. Saturation (%)	93.3	91.1	72.2	75.4	60.4	57.1	74.94	-	-	
D.O. (mg/L)	6.11	5.96	4.74	4.94	3.98	3.76	4.92	5.44	3.87	
Turbidity (NTU)	1.12	1.12	3.25	3.25	3.65	3.86	2.71	-	-	
SS (mg/L)	4.0	6.0	27.0	22.0	9.0	13.0	13.5	-	-	
Remarks										

Station	Zone A: S2									
Time (hh:mm)	08:17-08:22									
Water Depth (m)	8.90									
Monitoring Depth (m)	1.05		4.55			8.05				
Tide	Mid-Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Surface & Middle	Bottom	
Water Temperature (°C)	28.5	28.5	28.5	28.7	28.3	28.3	28.44	-	-	
Salinity (ppt)	28.6	28.7	29.8	29.8	30.4	30.4	29.63	-	-	
D.O. Saturation (%)	87.1	85.7	76.2	79.3	67.7	69.2	77.53	-	-	
D.O. (mg/L)	5.77	5.67	5.01	5.20	4.46	4.55	5.11	5.41	4.51	
Turbidity (NTU)	0.41	0.41	0.72	0.62	1.33	1.33	0.80	-	-	
SS (mg/L)	2.0	2.0	3.0	3.0	4.0	6.0	3.3	-	-	
Remarks										

Position	Easting	Northing	Depth	Time	Speed	Direction	Date
R1	835956.44	809057.04	0	92823	0	0	20090811
R1	835947.11	809116.77	0	93433	0.1634	351.1	20090811
R1	835944.26	809185.4	0	94038	0.1882	357.6	20090811
R1	835932.13	809256.94	0	94708	0.1861	350.4	20090811

**Compliance with Action and Limit Level**

Parameter	Action Level (baseline data)	Limit Level (baseline data)	Action Level (R1*1.2)	Limit Level (R1*1.3)	S1		S2		S3		B1	
					Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	6.58	6.42			Y	Y	Y	Y	Y	Y	Y	Y
DO (Depth-averaged)	6.59	6.42			Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (Depth-averaged)	5.17	5.72	8.6	9.3	N	N	N	N	N	N	N	N
SS (Depth-averaged)	7.91	8.96	10.8	11.7	N	N	N	N	N	N	N	N