



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up
X_W229	28-Jun-11 10:10	Mid-ebb	WSD15	DO (mg/L)	4.26	3.17	2.63	Possible reason: Water quality being substantially affected by urban runoff due to the heavy rainfall Action taken / to be taken: Checked with the contractor marine work activities on 28 Jun 2011, no sediment dredging was conducted. Formwork removal for the buoyancy pockets of the installed caisson seawall (C12 to C14) and rock filling for installation of caisson seawall were conducted on that day. A silt curtain had been provided and maintained at the site boundary in front of City Garden. According to the information of HKO, amber rainfall warning was enforced and total daily rainfall at North Point was around 50-70mm on 28 Jun 2011. Remarks / Other Obs: In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was considered causing by the potential impact from the heavy rainfall and concluded as not project related exceedance.
				Turbidity	4.60	10.01	11.54	
				Suspended Solid	23.50	16.26	19.74	
X_W230	4-Jul-11	Mid-ebb	WSD15	DO (mg/L)	3.65	3.17	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of the water quality monitoring station Action taken / to be taken: Checked with Contractor's works on 4 Jul 2011, formworks erection for the pocket of buoyancy tanks for the installed caisson seawall and rock fill material on top of installed caisson seawall were conducted on that day afternoon. Silt screen & silt curtain were in proper condition during monitoring. Remarks / Other Obs: In the view of no exceedance recorded at the monitoring Stations C8 and C9 which are the nearest the marine works area of Contract no.HY/2009/11, it is considered not related to the Project.
				Turbidity	6.75	10.01	11.54	
				Suspended Solid	28.50	16.26	19.74	
X_W231	4-Jul-11	Mid-ebb	WSD17	DO (mg/L)	4.45	3.17	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of the water quality monitoring station Action taken / to be taken: Checked with Contractor's works on 4 Jul 2011, formworks erection for the pocket of buoyancy tanks for the installed caisson seawall and rock fill material on top of installed caisson seawall were conducted on that day afternoon. Silt screen & silt curtain were in proper condition during monitoring. Remarks / Other Obs: In the view of no exceedance recorded at the monitoring Stations C8 and C9 which are the nearest the marine works area of Contract no.HY/2009/11, it is considered not related to the Project.
				Turbidity	2.15	10.01	11.54	
				Suspended Solid	18.00	16.26	19.74	



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up
X_W232	8-Jul-11	Mid-flood	WSD15	DO (mg/L)	4.47	3.17	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of the water quality monitoring station Action taken / to be taken: Checked with Contractor's works on 8 Jul 2011, grouting works for the pocket of buoyancy tank for the installed caisson seawall (C17), maintain works for slotted panels and compaction works were conducted on that day. Silt screen & silt curtain were in proper condition during monitoring. Remarks / Other Obs: In view that the WSD15 was located at the upstream of the Project, it is definitely concluded not related to Project works.
				Turbidity	8.44	10.01	11.54	
				Suspended Solid	27.00	16.26	19.74	
X_W233	12-Jul-11	Mid-ebb	WSD15	DO (mg/L)	4.50	3.17	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of the water quality monitoring station Action taken / to be taken: Checked with Contractor's works on 12 Jul 2011, concreting for the gap between installed caisson seawalls (C11 to C13) and formwork erection for pocket of buoyancy tank of the installed caisson seawall (C17) were conducted on that day. Silt screen & silt curtain were in proper condition during monitoring. Remarks / Other Obs: In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was considered not project related exceedance.
				Turbidity	2.93	10.01	11.54	
				Suspended Solid	19.00	16.26	19.74	



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C271	28-Jun-11	Mid-ebb	C5w	DO (mg/L)	4.76	3.02	2.44	Possible reason: Water quality being substantially affected by urban runoff due to the heavy rainfall Action taken / to be taken: Checked with the contractor marine work activities, splicing the additional pile casings on the pitched pile casings and pitching the pile casings to alluvium layer were conducted at new ferry pier at Wan Chai East. Besides, weld-splicing and laying of HDPE pipe was conducted in submarine outfall area. No adverse water quality impact was expected in these marine activities. Silt screen and silt curtain were observed in proper condition during the water quality monitoring. According to the information of HKO, amber rainfall warning was enforced and total daily rainfall at the region of Central was around 100-150mm on 28 Jun 2011.
				Turbidity (NTU)	2.81	11.35	12.71	
				SS (mg/L)	22.50	18.42	27.54	Remarks / Other Obs: Reviewed the trend of overall results at all monitoring stations and comparing with the monitoring stations next to C5w, no SS exceedance was recorded in C5e and WSD21 which are close to the site works. The SS exceedance was considered causing by the potential impact from the heavy rainfall and concluded as not project related exceedance.
X_10C272	4-Jul-11 15:35	Mid-ebb	C3	DO (mg/L)	4.68	3.02	2.44	Possible reason: Trapping unknown debris inside the silt screen Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Notification of exceedances were immediate informed to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen. The turbidity levels outside the silt screen was 4.60NTU which was well below the Action Level. According to the observation during the monitoring and information reported by Contractor on 13 Jul 2011, filling works near east side of stage 1 reclamation by land plant (jetty and lorry) and driving sheet piles along promenade deck were conducted on that day. During the daily silt curtain inspection conducted by Contractor and RSS, the floating debris inside silt screen was found and removed immediately after inspection. The buoys and typing rope of the deployed silt curtains along HKCEC water channel were also checked and maintained on that day. No further exceedance was recorded in the consecutive water monitoring(6.35mg/L) at the same day. The water quality at C3 will be kept in view to avoid any deterioration of water quality in water channel.
				Turbidity (NTU)	21.50	11.35	12.71	
				SS (mg/L)	28.00	18.42	27.54	Remarks / Other Obs: The exceedances were considered in relation to the accumulation of unknown debris inside the silt screen. Thus, it was considered not project related exceedances.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C273	12-Jul-11 12:23	Mid-ebb	C6	DO (mg/L)	2.53	2.60	2.00	<p>Possible reason: Possible in relation to the temperature and low water depth during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was no dredging works conducted at CWBTS on 12 July 2011 morning and during monitoring.</p> <p>Remarks / Other Obs: In view that there was no dredging works conducted at CWBTS , it was considered not related to Project works.</p>
X_10C274	12-Jul-11 12:18	Mid-ebb	Ex-WPCWA Sw	DO (mg/L)	3.11	3.19	3.10	<p>Possible reason: Possible in relation to the temperature and low water depth (approx. 2m) during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was no marine activities at ex-WPCWA on 12 July 2011 morning and during water monitoring.</p> <p>Remarks / Other Obs: In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.</p>
X_10C275	12-Jul-11 12:12	Mid-ebb	Ex-WPCWA SE	DO (mg/L)	2.65	3.55	3.00	<p>Possible reason: Possible in relation to the temperature and low water depth (approx. 2m) during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was no marine activities at ex-WPCWA on 12 July 2011 morning and during water monitoring.</p> <p>Remarks / Other Obs: In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.</p>
X_10C276	14-Jul-11 12:15	Mid-ebb	C6	DO (mg/L)	2.36	2.60	2.00	<p>Possible reason: Possible in relation to the temperature and low water depth (approx. 2m) during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was filling works conducted at CWBTS on 14 July 2011 morning and during monitoring. Silt curtains for the filling work were in proper condition.</p> <p>Remarks / Other Obs: In view that Silt curtains for the filling work were in proper condition and no odour was nted during monitoring, it was considered not related to Project works.</p>



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C277	14-Jul-11 12:17	Mid-ebb	C7	DO (mg/L)	3.14	3.31	2.57	<p>Possible reason: Possible in relation to the temperature and low water depth (approx. 2m) during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was filling works conducted at CWBTS on 14 July 2011 morning and during monitoring. Silt curtains for the filling work were in proper condition.</p> <p>Remarks / Other Obs: In view that Silt curtains for the filling work were in proper condition and no odour was noted during monitoring, it was considered not related to Project works.</p>
X_10C278	14-Jul-11 12:00	Mid-ebb	Ex-WPCWA Sw	DO (mg/L)	2.49	3.19	3.10	<p>Possible reason: Possible in relation to the temperature and low water depth (approx. 2m) during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was no marine activities at ex-WPCWA on 14 July 2011 morning and during water monitoring.</p> <p>Remarks / Other Obs: In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.</p>
X_10C279	14-Jul-11 11:55	Mid-ebb	Ex-WPCWA SE	DO (mg/L)	2.67	3.55	3.00	<p>Possible reason: Possible in relation to the temperature and low water depth (approx. 2m) during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was no marine activities at ex-WPCWA on 14 July 2011 morning and during water monitoring.</p> <p>Remarks / Other Obs: In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.</p>



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C280	16-Jul-11 10:12	Mid-ebb	C7	DO (mg/L)	3.16	3.31	2.57	<p>Possible reason: Possible in relation to the low flow and low water depth during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was filling works conducted at TS4 on 16 July 2011 morning and during monitoring. Silt curtains for the filling work were in proper condition.</p> <p>Remarks / Other Obs: In view that Silt curtains for the filling work were in proper condition and no odour was noted during monitoring, it was considered not related to Project works.</p>
X_10C281	20-Jul-11 15:00	Mid-ebb	C6	DO (mg/L)	2.17	2.60	2.00	<p>Possible reason: Possible in relation to the low flow and low water depth during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was no dredging works conducted at CWBTS during monitoring.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10C282	20-Jul-11 14:56	Mid-ebb	C7	DO (mg/L)	3.14	3.31	2.57	<p>Possible reason: Possible in relation to the low flow and low water depth during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was no dredging works conducted at CWBTS during monitoring.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>
X_10C283	20-Jul-11 14:43	Mid-ebb	Ex-WPCWA Sw	DO (mg/L)	2.59	3.19	3.10	<p>Possible reason: Possible in relation to the low flow and low water depth during the ebb tide</p> <p>Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was no marine activities at ex-WPCWA during water monitoring.</p> <p>Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.</p>



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C284	20-Jul-11 14:37	Mid-ebb	EX-WPCWA SE	DO (mg/L)	3.41	3.55	3.00	Possible reason: Possible in relation to the low flow and low water depth during the ebb tide Action taken / to be taken: Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was no marine activities at ex-WPCWA during water monitoring. Remarks / Other Obs: In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10C285	20-Jul-11	Mid-flood	C2	DO (mg/L)	5.20	3.02	2.44	Possible reason: Trapping unknown debris inside the silt screen Action taken / to be taken: According to the information reported by Contractor HK/2010/06 on 28 July and Contractor HK/2009/01 on 2 August, driving staging piles, installation and initial pitching under HK/2010/06, and installation sheet pile and weld connection at HKCEC water channel under HK/2009/01 were conducted on that day. During the daily silt screen and silt curtain inspection conducted by Contractor and RSS on 20 July, the floating debris inside silt curtain and along water channel was found and removed immediately after inspection. The silt screen and silt curtain were observed in proper condition during water monitoring.
				Turbidity (NTU)	1.70	11.35	12.71	
				SS (mg/L)	27.50	18.42	27.54	