

Ref no.	Date	Tidal	Location	Parameters	Measured	Action Level	Limit Level	Follow-up action
X_16C083	9-Sep-17	Mid-ebb	P1	DO(mg/l)	4.48	3.02	2.44	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	15.73	11.35	12.71	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	17.50	18.42	27.54	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 11 September 2017 flood tide.
X_16C084	9-Sep-17	Mid-ebb	P3	DO(mg/l)	4.72	3.02	2.44	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	14.55	11.35	12.71	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	12.50	18.42	27.54	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 11 September 2017 flood tide.

Ref no.	Date	Tidal	Location	Parameters	Measured	Action Level	Limit Level	Follow-up action
X_16C085	13-Sep-17	Mid-flood	C7	DO(mg/L)	4.41	3.02	2.44	Possible reason:
				Turbidity (NTU)	22.19	11.35	12.71	Action taken/ to be taken:
				SS (mg/L)	34.00	18.42	27.54	
								Remarks/ Other Obs:

Turbid dispersion from unprotected slope adjacent to monitoring location was observed during monitoring and considered as the major factor affecting the water quality at the time of sampling.

Immediate repeat in-situ measurement to confirm the exceedances. The water turbidity level of repeated measurement at the same monitoring location on the same date and tide was: 13 September 2017 flood tide 22.42 NTU. The Contractor of HY/2010/08 was immediately advised to take remedial action to rectify the defects observed.

Rectification measures including i) provision of additional impermeable barriers to enclose exposed soil slope and active works area, and ii) flushing at the affected water holding tank were implemented under the Contractor of HY/2010/08 by 14 September 2017.

Additional monitoring in accordance with the Event and Action Plan was conducted on 14 September 2017, no further turbidity exceedance was recorded: 14 September 2017 6.51NTU. No further suspended solid exceedance was recorded on the subsequent monitoring: 15 September 2017 ebb tide 7.5mg/L.

Seabed reinstatement works was conducted opposite to the monitoring location under Contract HY/2010/08 during the monitoring period on 13 September 2017 while turbid dispersion was observed originating from an unprotected slope adjacent to the concerned monitoring location and affecting the water quality at the concerned Windsor House cooling water intake during monitoring sampling. As such, it was considered that the turbidity and suspended solid exceedances were related to HY/2010/08 Project works.

Rectification measures including i) provision of additional impermeable barriers to enclose exposed soil slope and active works area and ii) flushing at the affected water holding tank were implemented under the Contractor of HY/2010/08 by 14 September 2017.

Additional monitoring in accordance with the Event and Action Plan was conducted on 14 September 2017 and no further turbidity exceedance was recorded: 14 September 2017 6.51NTU. No further suspended solid exceedance was recorded on the subsequent monitoring: 15 September 2017 ebb tide 7.5mg/L. Nevertheless, the Contractor is reminded to conduct regular checking of impermeable barrier or silt curtain deployed to ensure the mitigation measures are maintained without opening and fully extended to seabed level to safeguard the water quality and nearby water intakes.

Ref no.	Date	Tidal	Location	Parameters	Measured	Action Level	Limit Level	Follow-up action	
X_16C086	18-Sep-17	Mid-flood	C1	DO(mg/l)	3.87	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	16.11	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	10.00	18.42	27.54	Remarks/ Other Obs:	No marine construction activity under Contract HK/2009/01 was conducted on the monitoring date. In view of no marine construction activity, the exceedance was considered not project related under Contract HK/2009/01. No marine construction activity under Contract HK/2009/02 was conducted on the monitoring date. In view of no marine construction activity, the exceedance was considered not project related under Contract HK/2009/02. No exceedance was recorded on the subsequent monitoring on 20 September 2017 ebb tide.
X_16C087	18-Sep-17	Mid-flood	P3	DO(mg/l)	4.02	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	14.16	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	8.00	18.42	27.54	Remarks/ Other Obs:	No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. Location of the construction site is at the downstream of P3 monitoring location during the sampling period. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 20 September 2017 ebb tide.
X_16C088	18-Sep-17	Mid-flood	P4	DO(mg/l)	4.06	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	15.18	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	10.00	18.42	27.54	Remarks/ Other Obs:	No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. Location of the construction site is at the downstream of P4 monitoring location during the sampling period. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 20 September 2017 ebb tide.

Ref no.	Date	Tidal	Location	Parameters	Measured	Action Level	Limit Level	Follow-up action	
X_16C089	18-Sep-17	Mid-flood	P5	DO(mg/l)	4.17	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	15.31	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	12.00	18.42	27.54	Remarks/ Other Obs:	No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. Location of the construction site is at the downstream of P5 monitoring location during the sampling period. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 20 September 2017 ebb tide.
X_16C090	20-Sep-17	Mid-flood	C1	DO(mg/l)	5.28	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	12.35	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	13.00	18.42	27.54	Remarks/ Other Obs:	No marine construction activity under Contract HK/2009/01 was conducted on the monitoring date. In view of no marine construction activity, the exceedance was considered not project related under Contract HK/2009/01. No marine construction activity under Contract HK/2009/02 was conducted on the monitoring date. In view of no marine construction activity, the exceedance was considered not project related under Contract HK/2009/02. No exceedance was recorded on the subsequent monitoring on 23 September 2017 flood tide.
X_16C091	20-Sep-17	Mid-flood	P4	DO(mg/l)	5.68	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	14.29	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	16.50	18.42	27.54	Remarks/ Other Obs:	No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. Location of the construction site is at the downstream of P4 monitoring location during the sampling period. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 23 September 2017 flood tide.

Ref no.	Date	Tidal	Location	Parameters	Measured	Action Level	Limit Level	Follow-up action
X_16C092	25-Sep-17	Mid-flood	P1	DO(mg/l)	3.15	3.02	2.44	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	14.29	11.35	12.71	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	17.50	18.42	27.54	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. Location of the construction site is at the downstream of P1 monitoring location during the sampling period. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 25 September 2017 ebb tide.
X_16C093	25-Sep-17	Mid-flood	P3	DO(mg/l)	3.61	3.02	2.44	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	14.60	11.35	12.71	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	15.50	18.42	27.54	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. Location of the construction site is at the downstream of P3 monitoring location during the sampling period. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 25 September 2017 ebb tide.
X_16C094	25-Sep-17	Mid-flood	P4	DO(mg/l)	3.28	3.02	2.44	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	14.09	11.35	12.71	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	10.00	18.42	27.54	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. Location of the construction site is at the downstream of P4 monitoring location during the sampling period. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 25 September 2017 ebb tide.



Ref no.	Date	Tidal	Location	Parameters	Measured	Action Level	Limit Level	Follow-up action
X_16C095	25-Sep-17	Mid-ebb	C7	DO(mg/l)	4.33	3.02	2.44	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring
				Turbidity	14.65	11.35	12.71	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	26.00	18.42	27.54	Remarks/ Other Obs: No marine construction activity under Contract HY/2010/08 was conducted on the monitoring date, and the installed silt screen was observed generally in order. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 28 August 2017 ebb tide.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_16W086	6-Sep-17	Mid-ebb	WSD19	DO(mg/l)	4.61	3.17	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	10.56	10.01	11.54	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	11.50	16.26	19.74	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. Location of construction site area was at downstream of monitoring station WSD19 during the sampling period. In view of no marine construction activity, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 6 September 2017 flood tide.
X_16W087	15-Sep-17	Mid-flood	WSD19	DO(mg/l)	3.98	3.18	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	11.40	10.01	11.54	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	16.50	16.26	19.74	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of no marine construction activity, the turbidity and suspended solid exceedances were considered not project related. No exceedances were recorded on the subsequent monitoring on 25 September 2017 ebb tide.
X_16W088	18-Sep-17	Mid-flood	WSD19	DO(mg/l)	4.19	3.17	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	11.55	10.01	11.54	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	10.50	16.26	19.74	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of no marine construction activity, the exceedance was considered not project related.
X_16W089	20-Sep-17	Mid-ebb	WSD19	DO(mg/l)	3.32	3.18	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	10.60	10.01	11.54	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	16.00	16.26	19.74	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. Location of construction site area was at downstream of monitoring station WSD19 during the sampling period. In view of no marine construction activity, the exceedance was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_16W090	20-Sep-17	Mid-flood	WSD19	DO(mg/l)	5.53	3.17	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	13.75	10.01	11.54	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	12.00	16.26	19.74	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of no marine construction activity, the exceedance was considered not project related.
X_16W091	20-Sep-17	Mid-flood	RW21-P789	DO(mg/l)	5.5	3.17	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	17.19	10.01	11.54	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	12.50	16.26	19.74	Remarks/ Other Obs: No marine construction activity under Contract HK/2009/02 was conducted on the monitoring date, and the installed silt screen was observed generally in order. In view of the above, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 23 September 2017 ebb tide.
X_16W092	25-Sep-17	Mid-flood	WSD19	DO(mg/l)	3.51	3.18	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	10.84	10.01	11.54	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	19.00	16.26	19.74	Remarks/ Other Obs: No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of no marine construction activity, the turbidity and suspended solid exceedances were considered not project related. No exceedances were recorded on the subsequent monitoring on 25 September 2017 ebb tide.
X_16W093	25-Sep-17	Mid-ebb	RW21-P789	DO(mg/l)	3.14	3.18	2.63	Possible reason: Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	6.51	10.01	11.54	Action taken/ to be taken: Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	7.50	16.26	19.74	Remarks/ Other Obs: No marine construction activity under Contract HK/2009/02 was conducted on the monitoring date, and the installed silt screen was observed generally in order. In view of the above, the exceedance was considered not project related. No exceedance was recorded on the subsequent monitoring on 28 September 2017 ebb tide.