

Contract No. HY/2011/03 -

Hong Kong- Zhuhai- Macao Bridge

Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities

Notifications of Environmental Quality Limits Exceedances

Notification No.: 185

Date of Notification: 27 August 2014

Works Inspected: Data collected from water sampling works on 11 August 2014 and the test report was issued on 18 August 2014.

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ Suspended Solids (SS)/ Turbidity (TURB)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	IS(Mf)6	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 6.52 x 120% = 7.8 mg/L for mid ebb) AND CS(Mf)5: 4.88 x 120% = 5.9 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: 6.52 x 130% = 8.5 mg/L for mid ebb) AND CS(Mf)5: 4.88 x 130% = 6.3 mg/L for mid flood)	29.5	4.2

Notes:

DA means depth average.

Bold Italic means AL exceedances.

Bold Italic with underline means LL exceedances.

Possible reason for Action or Limit Level Non-compliance:

On 11 August 2014, an AL exceedance was recorded at station IS(Mf)6 during mid-ebb tide.

The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

1. Seawall construction and stone column works at Zone 1, seawall construction at Zone 3A were carried out within silt curtain as recommended in the EIA Report.
2. The ranges of suspended solid at station IS(Mf)6 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid- Ebb Tide	Range of Suspended Solid (mg/L) Mid- Flood Tide
IS(Mf)6	7.1 to 19	8.5 to 35

The measured value at station IS(Mf)6 was above the range of suspended solid during baseline monitoring for mid-ebb tide. However, there were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

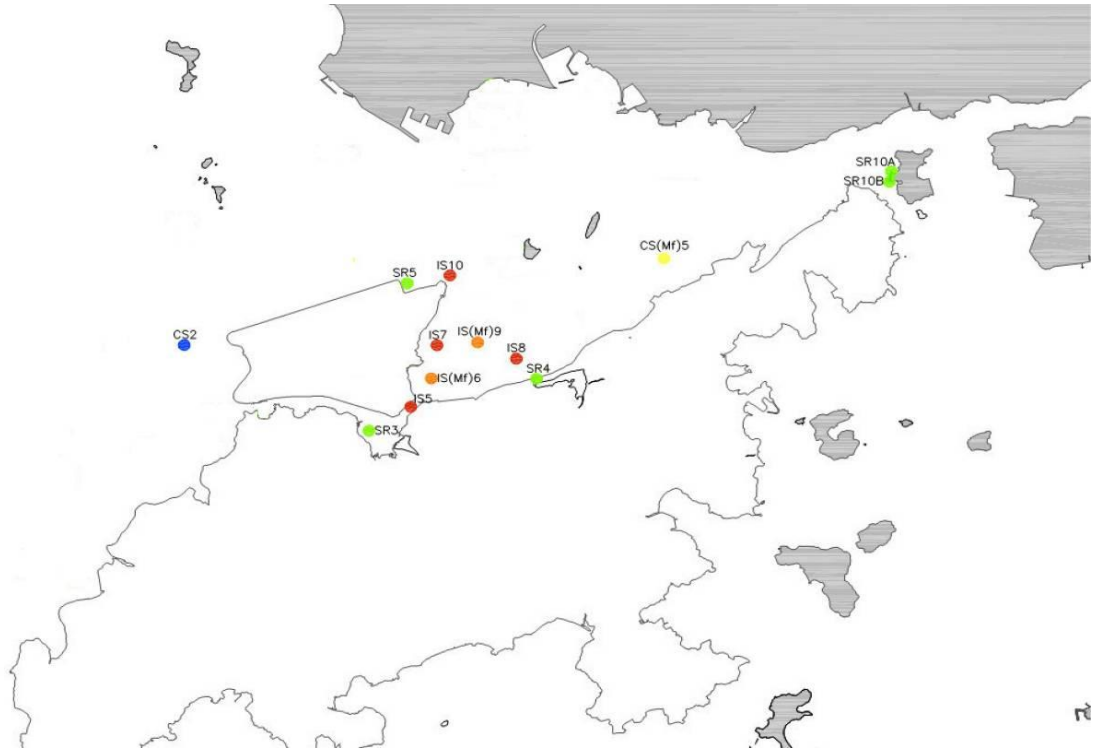
3. No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid level is considered to be attributed to other external factors, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid level recorded beyond the water quality criteria is not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader



Date : 27 August 2014

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

**Contract No. HY/2011/03 -
 Hong Kong- Zhuhai- Macao Bridge
 Hong Kong Link Road Section between Scenic Hill and Hong Kong Boundary Crossing Facilities
 Notifications of Environmental Quality Limits Exceedances** Notification No.: 186 ver1

Date of Notification: 5 September 2014

Works Inspected: Data collected from water sampling works on 15 August 2014 and the test report was issued on 19 August 2014.

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ ~~Suspended Solids (SS)~~/ Turbidity (TURB)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
DO	IS10	Surface & Middle	5	4.2	4.8	4.6
DO	SR5	Surface & Middle(*)	5	4.2	4.9	4.8
DO	IS10	Bottom	4.7	3.6	4.3	4.3
DO	SR5	Bottom	4.7	3.6	4.7	4.5

Notes:
Bold Italic means AL exceedances.
Bold Italic with underline means LL exceedances.
 (*)-Water quality monitoring was carried out for surface level only at station SR5 on 15 August 2014.

Possible reason for Action or Limit Level Non-compliance:

On 15 August 2014, Action Level exceedances of dissolved oxygen were recorded at stations IS10 and SR5 during the mid-ebb tide and mid flood tide.

The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. Stone column works and construction of seawall at Zone 1, and construction of seawall at Zone 3A were carried out within silt curtain as recommended in the EIA report.
2. The range of dissolved oxygen for surface & middle level and bottom level at stations IS10 and SR5 during the baseline monitoring is shown as below:

Station	Depth	Range of Dissolved Oxygen (mg/L) Mid-Ebb Tide		Range of Dissolved Oxygen (mg/L) Mid-Flood Tide	
IS10	Surface & Middle	5.0	to 7.2	5.0	to 7.6
SR5	Surface & Middle	5.1	to 7.3	4.8	to 7.4
IS10	Bottom	4.6	to 7.0	4.9	to 7.0
SR5	Bottom	4.8	to 7.0	4.8	to 7.1

On 15 August 2014, the dissolved oxygen level at SR5 for the surface level during the mid-flood tide was within the range of the baseline monitoring. For the other dissolve oxygen levels recorded at SR5 and IS10 on 15 August 2014, they were slightly below their corresponding lowest value of the baseline monitoring data.

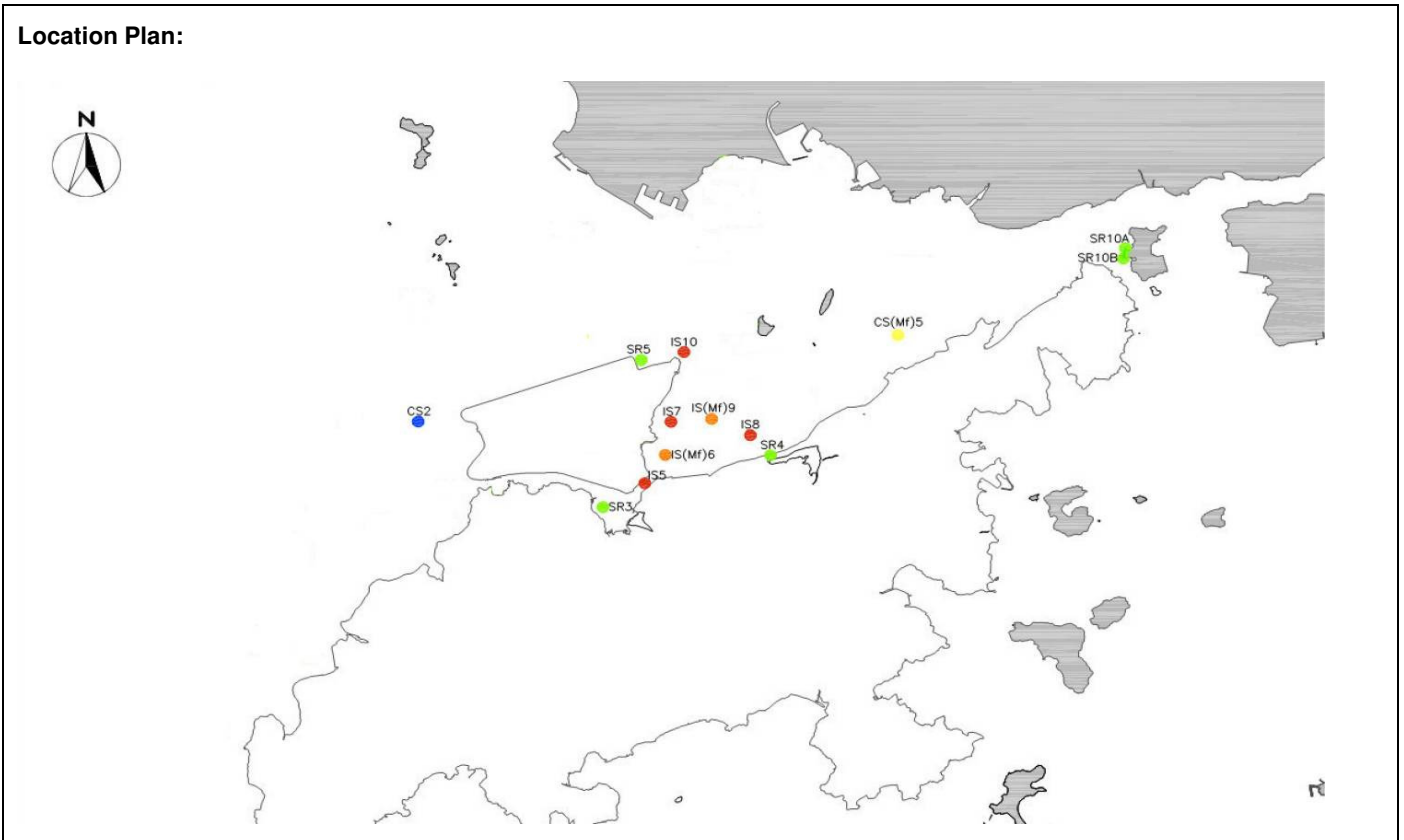
3. There were no specific activities recorded during the monitoring period that would cause any significant impact on the monitoring results.

As such, the exceedances in DO levels are considered to be attributed to other external factors rather than the contract works.

Actions taken/ to be taken:

As the DO levels recorded beyond the water quality criteria were not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader



Date : 5 September 2014

Copied to : Supervising Officer, IEC, EPD, Contractor, ENPO

Date of Notification: 27 August 2014

Works Inspected: Data collected from water sampling works on 13 August 2014 and the test report was issued on 20 August 2014.

Monitoring Location: Water Quality Monitoring Stations

Parameter: Dissolved Oxygen (DO)/ Suspended Solids (SS)/ Turbidity (TURB)

Action & Limit Level (AL & LL) / Measured Level:

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID-EBB TIDE (mg/L)	MEASURED AT MID-FLOOD TIDE (mg/L)
SS	SR5	DA	23.5 and 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: Not applicable ⁽¹⁾ for mid ebb) AND CS(Mf)5: 4.47 x 120% = 5.4 mg/L for mid flood)	34.4 and 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS2: Not applicable ⁽¹⁾ for mid ebb) AND CS(Mf)5: 4.47 x 130% = 5.8 mg/L for mid flood)	N.A. ⁽¹⁾	24.2

Notes:
 (1) WQM for mid-ebb tide on 13 Aug 2014 was cancelled for safety reason as Thunderstorm Warning was hoisted by HKO. DA means depth average.
Bold Italic means AL exceedances.
Bold Italic with underline means LL exceedances.

Possible reason for Action or Limit Level Non-compliance:

On 13 August 2014, an AL exceedance was recorded at station SR5 during mid-ebb tide.

The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

- Construction of seawall and stone column works at Zone 1 were carried out within silt curtain as recommended in the EIA Report.
- The ranges of suspended solid at station SR5 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L) Mid- Ebb Tide	Range of Suspended Solid (mg/L) Mid- Flood Tide
SR5	6.7 to 16.5	6.5 to 31.2

The measured value at station SR5 was within the range of suspended solid during baseline monitoring for mid-flood tide. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

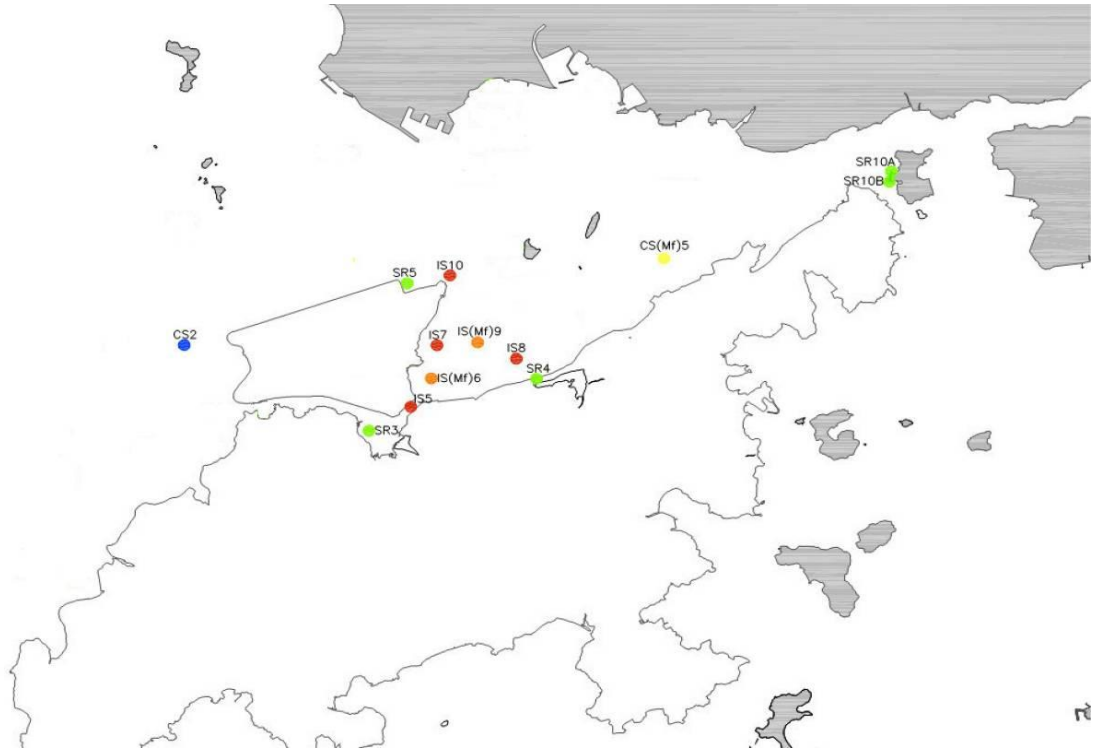
- No leakage of turbid water or any abnormality or malpractice was observed during the sampling exercise.

As such, the suspended solid level is considered to be attributed to other external factors, rather than the contract works.

Actions taken/ to be taken:

As the suspended solid level recorded beyond the water quality criteria is not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader



Date : 27 August 2014

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Summary of Notifications of Summons and Prosecutions

Total No. of Notifications of Summons / Prosecutions Received	No. of Notifications of Summons / Prosecutions Received during Reporting Period	Status of Notifications of Summons / Prosecutions
0	0	N/A