

**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.: 004a

Date of Notification: 5 November 2012

Works Inspected: Data collected from water sampling works on 17 October 2012 and the results were issued on 20 October 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS8	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 29.8 x 120% = 35.8 for mid flood on 17-Oct-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 29.8 x 130% = 38.7 for mid flood on 17-Oct-2012)	12.3	35.2

Note: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 17 October 2012, exceedance of the AL at station IS8 was recorded during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

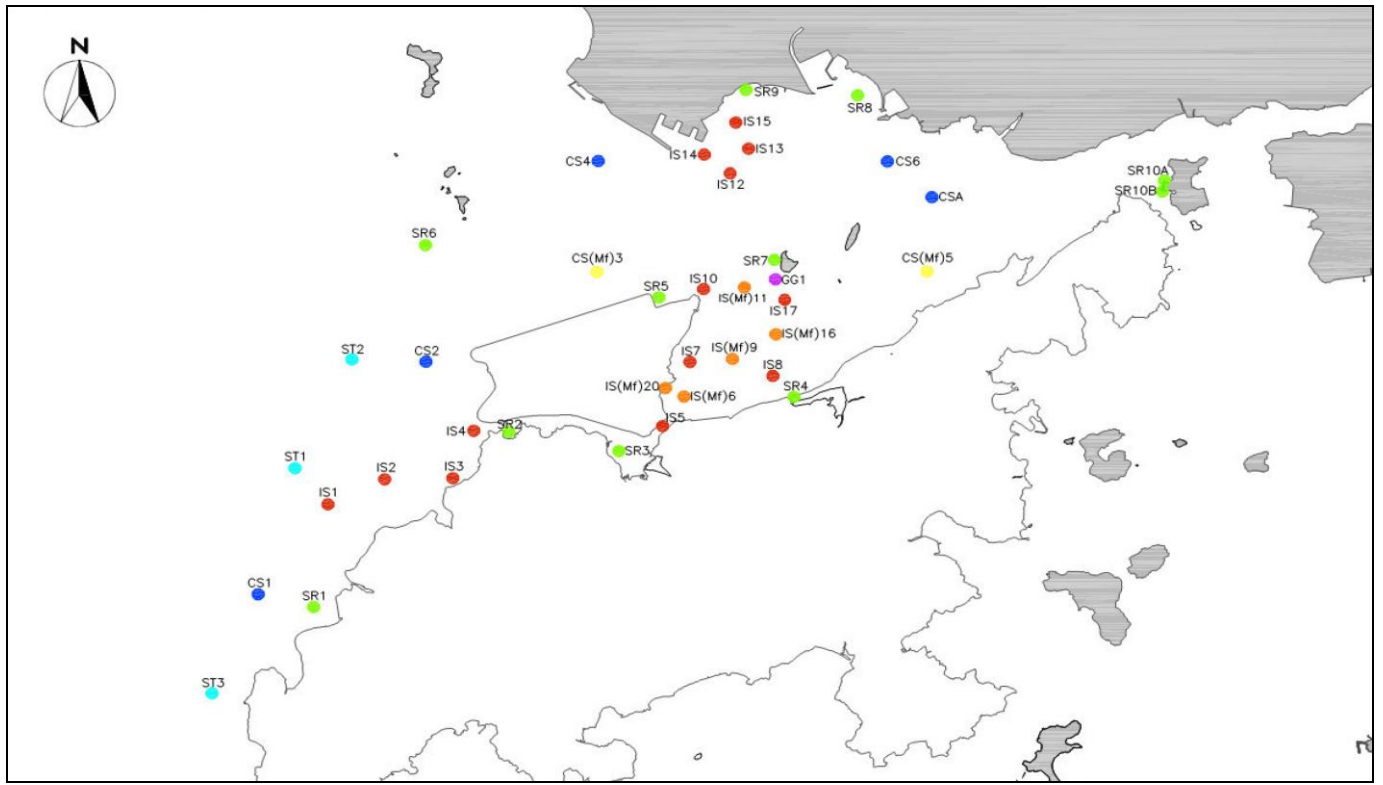
1. No major marine works but only silt curtain installation works were being carried out during the sampling period.
2. The measured turbidity level at control station CS(Mf)5 was higher than the Action Level.
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

As the turbidity 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 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 005a

Date of Notification: 5 November 2012

Works Inspected: Data collected from water sampling works on 17 October 2012 and the test report was issued on 26 October 2012

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	IS5	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 34.3 x 120% = 41.2 for mid flood on 17-Oct-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day ((i.e. CS(Mf)5: 34.3 x 130% = 44.6 for mid flood on 17-Oct-2012)	24.0	28.3
SS	IS8	DA			14.5	<u>47.1</u>
SS	SR10B	DA			9.8	24.0

Note: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 17 October 2012, exceedances of the AL at stations IS5 (mid-ebb and mid-flood) and SR10B (mid-flood) were recorded. The exceedance of the LL at station IS8(mid-flood) was recorded. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

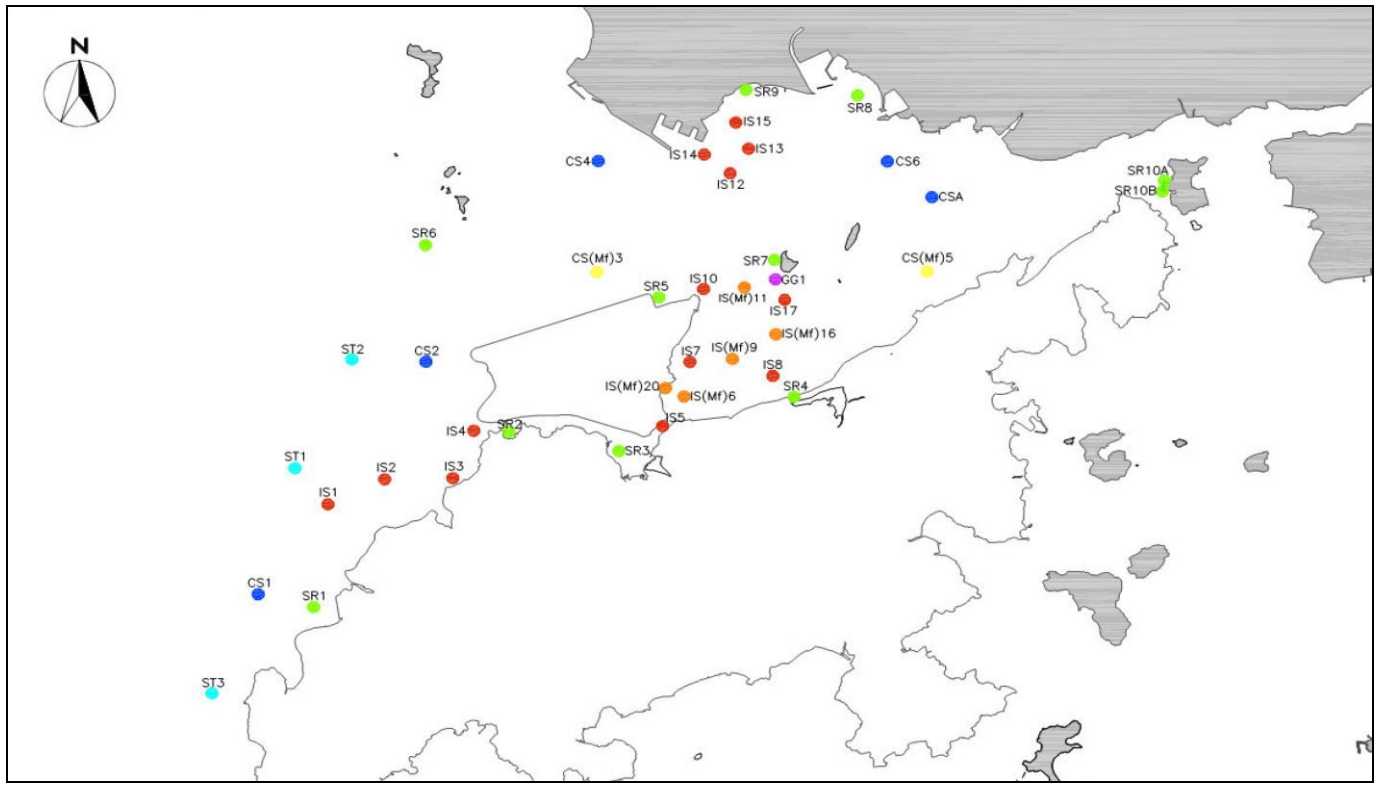
1. No major marine works but only silt curtain installation works were being carried out during the sampling period.
2. The measured suspended solid level at control station CS(Mf)5 was higher than the Action Level.
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

As the suspended solid levels record 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 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 006a

Date of Notification: 5 November 2012

Works Inspected: Data collected from water sampling works on 20 October 2012 and the results were issued on 24 October 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS5	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 6.25 x 120% = 7.5 for mid flood on 20-Oct-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 6.25 x 130% = 8.1 for mid flood on 20-Oct-2012)	8.8	<u>12.4</u>
TURB	IS(Mf)6	DA			6.8	<u>23.6</u>
TURB	IS7	DA			4.7	<u>13.6</u>
TURB	IS(Mf)9	DA			5.1	<u>17.1</u>
TURB	SR4	DA			5.4	<u>16.0</u>
TURB	SR10B	DA			4.7	<u>12.1</u>
TURB	SR3	DA			7.3	<u>9.1</u>

Note: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 20 October 2012, exceedance of the LL at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR4, SR10B and SR3 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

- No major marine works but only geotextile installation work and rock filling were being carried out within the silt curtains during the sampling period.
- The ranges of turbidity at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, SR3, SR4 and SR10B during the baseline monitoring are shown as below:

Station	Range of Turbidity(NTU), Mid-Flood Tide	
IS5	5.3	to 20.9
IS(Mf)6	5.3	to 20.9
IS7	5.0	to 19.4
IS(Mf)9	3.4	to 22.6
SR3	7.7	to 19.7
SR4	5.0	to 20.6
SR10B	1.7	to 13.2

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, SR3, SR4 and SR10B were similar or within the ranges of turbidity during baseline monitoring.

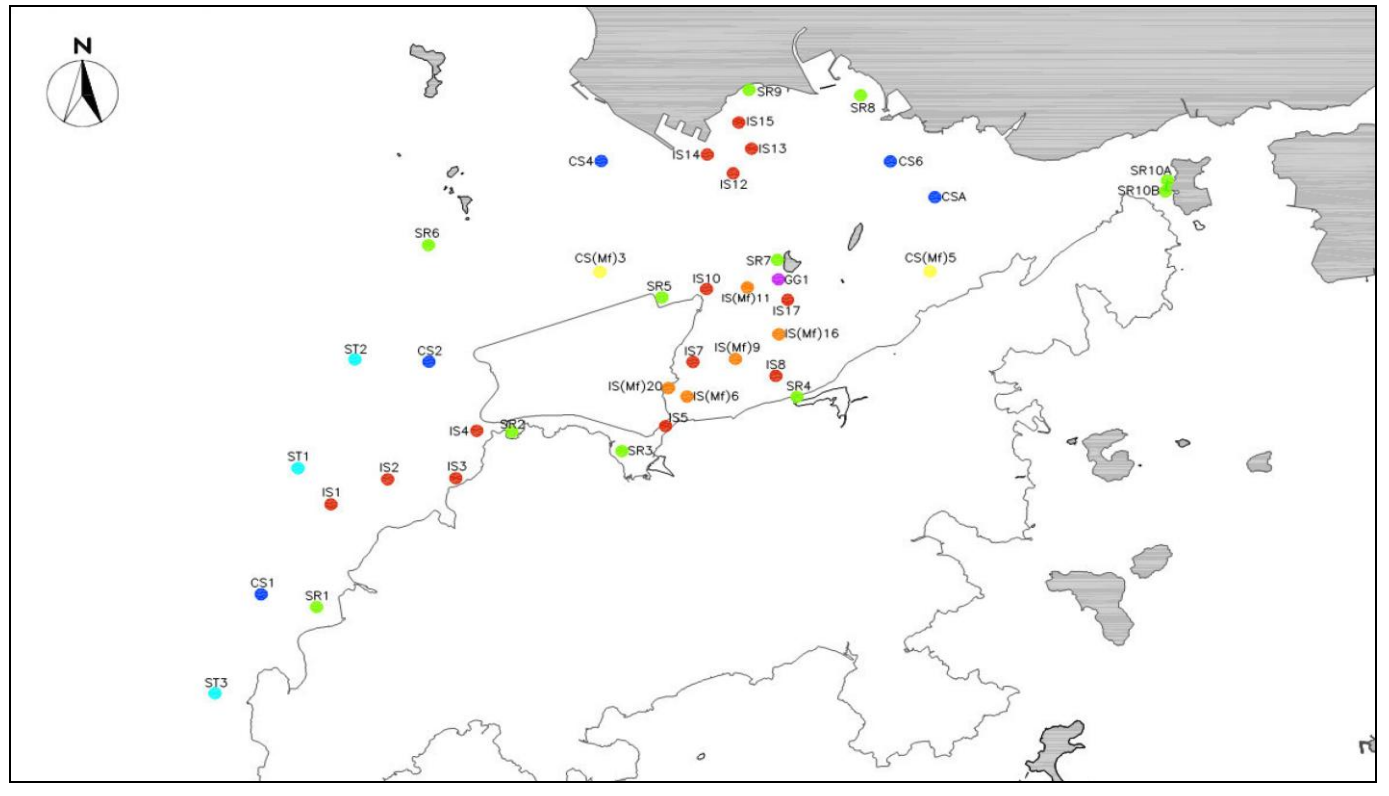
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

As the turbidity 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 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 007a

Date of Notification: 5 November 2012

Works Inspected: Data collected from water sampling works on 22 October 2012 and the results were issued on 24 October 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	SR3	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 13.46 x 120% = 16.1 for mid flood on 22-Oct-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 13.46 x 130% = 17.5 for mid flood on 22-Oct-2012)	5.0	16.3

Note: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 22 October 2012, an exceedance of the AL at station SR3 was recorded during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reason:

- No major marine works but only geotextile installation work and rock filling were being carried out within silt curtains during the sampling period.
- The range of turbidity at station SR3 during the baseline monitoring are shown as below:

Station	Range of Turbidity(NTU), Mid-Flood Tide	
	SR3	7.7

The measured value during mid-flood tide at station SR3 was within the range of turbidity during baseline monitoring.

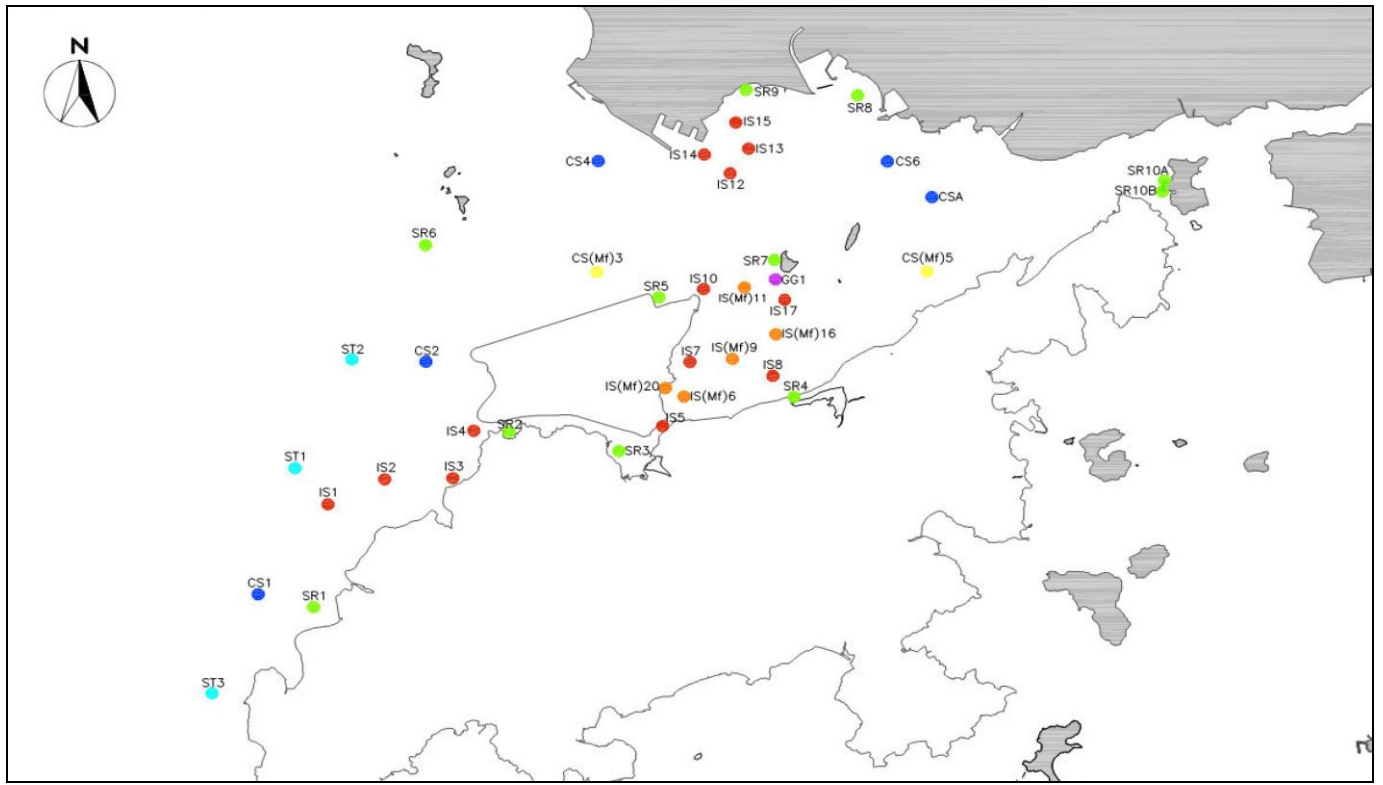
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

As the turbidity 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 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 008a

Date of Notification: 5 November 2012

Works Inspected: Data collected from water sampling works on 25 October 2012 and the results were issued on 26 October 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	SR3	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 5.83 x 120% = 7.0 NTU for mid flood on 25-Oct-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 5.83 x 130% = 7.6 NTU for mid flood on 25-Oct-2012)	4.2	<u>7.8</u>
TURB	IS5	DA			8.7	<u>8.1</u>

Note: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 25 October 2012, exceedances of the LL at stations SR3 and IS5 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

- No major marine works but only geotextile installation work and rock filling were being carried out within silt curtains during the sampling period.
- The ranges of turbidity at stations IS5 and SR3 during the baseline monitoring are shown as below:

Station	Range of Turbidity(NTU), Mid-Flood Tide	
	IS5	5.3
SR3	7.7	to 19.7

The measured values during mid-flood tide at stations IS5 and SR3 were within the ranges of turbidity during baseline monitoring.

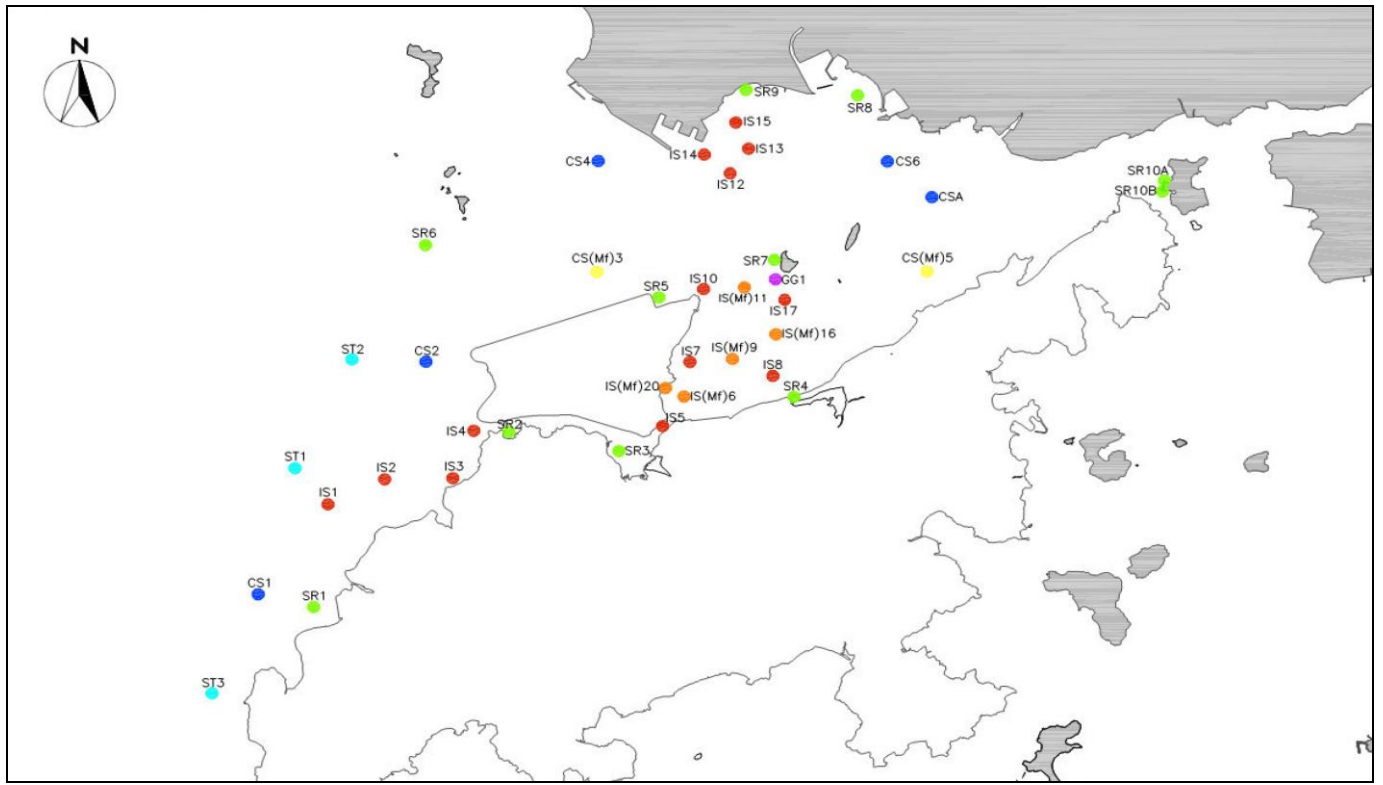
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

As the turbidity 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 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

Date of Notification: 5 November 2012

Works Inspected: Data collected from water sampling works on 20 October 2012 and the test report was issued on 29 October 2012

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	IS5	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day ((i.e. CS(Mf)5: 7.6 x 120% = 9.1 for mid flood on 20-Oct-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day ((i.e. CS(Mf)5: 7.6 x 130% = 9.9 for mid flood on 20-Oct-2012)	13.8	<u>16.9</u>
SS	IS(Mf)6	DA			11.6	<u>29.8</u>
SS	IS7	DA			9.3	<u>16.6</u>
SS	IS(Mf)9	DA			11.1	<u>22.0</u>
SS	IS8	DA			8.1	<u>12.7</u>
SS	SR4	DA			12.6	<u>21.1</u>
SS	SR10B	DA			8.7	<u>14.9</u>
SS	SR10A	DA			11.6	<u>10.7</u>
SS	SR3	DA			12.4	<u>12.0</u>

Note: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 20 October 2012, exceedances of the LL at station IS5, IS(Mf)6, IS7, IS(Mf)9, IS8, SR4, SR10B, SR10A and SR3 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

- No major marine works but only geotextile installation work and rock filling were being carried out within silt curtains during the sampling period.
- The ranges of suspended solid at stations IS5, IS(Mf)6, IS7, IS(Mf)9, IS8, SR4, SR10B, SR10A and SR3 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid(mg/L), Mid-Flood tide	
IS5	7.0	to 23.7
IS(Mf)6	8.5	to 35.0
IS7	7.8	to 34.0
IS8	5.8	to 31.3
IS(Mf)9	7.3	to 26.0
SR3	7.6	to 28.0
SR4	5.6	to 24.5
SR10A	4.8	to 19.2
SR10B	5.7	to 26.7

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS(Mf)9, IS8, SR4, SR10B, SR10A and SR3 were within the range of suspended solid during baseline monitoring.

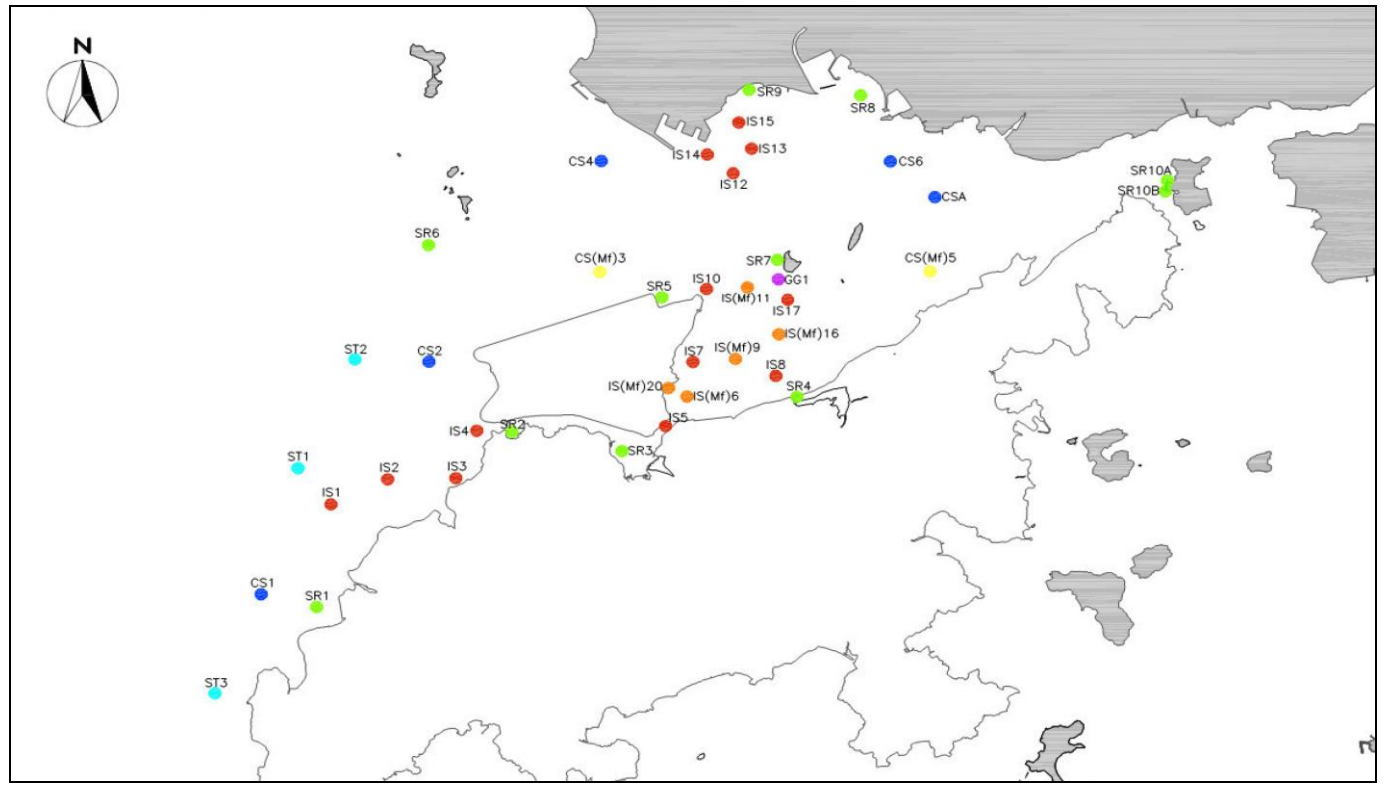
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader



Date : 5 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 010a

Date of Notification: 5 November 2012

Works Inspected: Data collected from water sampling works on 27 October 2012 and the results were issued on 29 October 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS5	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 9.7 x 120% = 11.7 for mid flood on 27-Oct-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 9.7 x 130% = 12.6 for mid flood on 27-Oct-2012)	14.3	<u>14.8</u>
TURB	IS(Mf)6	DA			3.8	<u>12.1</u>
TURB	IS7	DA			4.3	<u>15.8</u>
TURB	IS8	DA			3.8	<u>11.8</u>
TURB	IS(Mf)9	DA			4.1	<u>15.1</u>
TURB	SR3	DA			4.8	<u>15.0</u>
TURB	SR4	DA			5.4	<u>19.3</u>

Note: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 27 October 2012, exceedances of the LL at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, SR3 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

- No major marine works were carried out near the monitoring stations. Geotextile installation work and rock filling were being carried out within silt curtains near the restricted area during the sampling period.
- The ranges of turbidity at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, SR3 and SR4 during the baseline monitoring are shown as below:

Station	Range of Turbidity(NTU), Mid-Flood Tide	
IS5	5.3	to 20.9
IS(Mf)6	5.3	to 20.9
IS7	5.0	to 19.4
IS8	4.5	to 24.5
IS(Mf)9	3.4	to 22.6
SR3	7.7	to 19.7
SR4	5.0	to 20.6

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, SR3 and SR4 were within the ranges of turbidity during baseline monitoring.

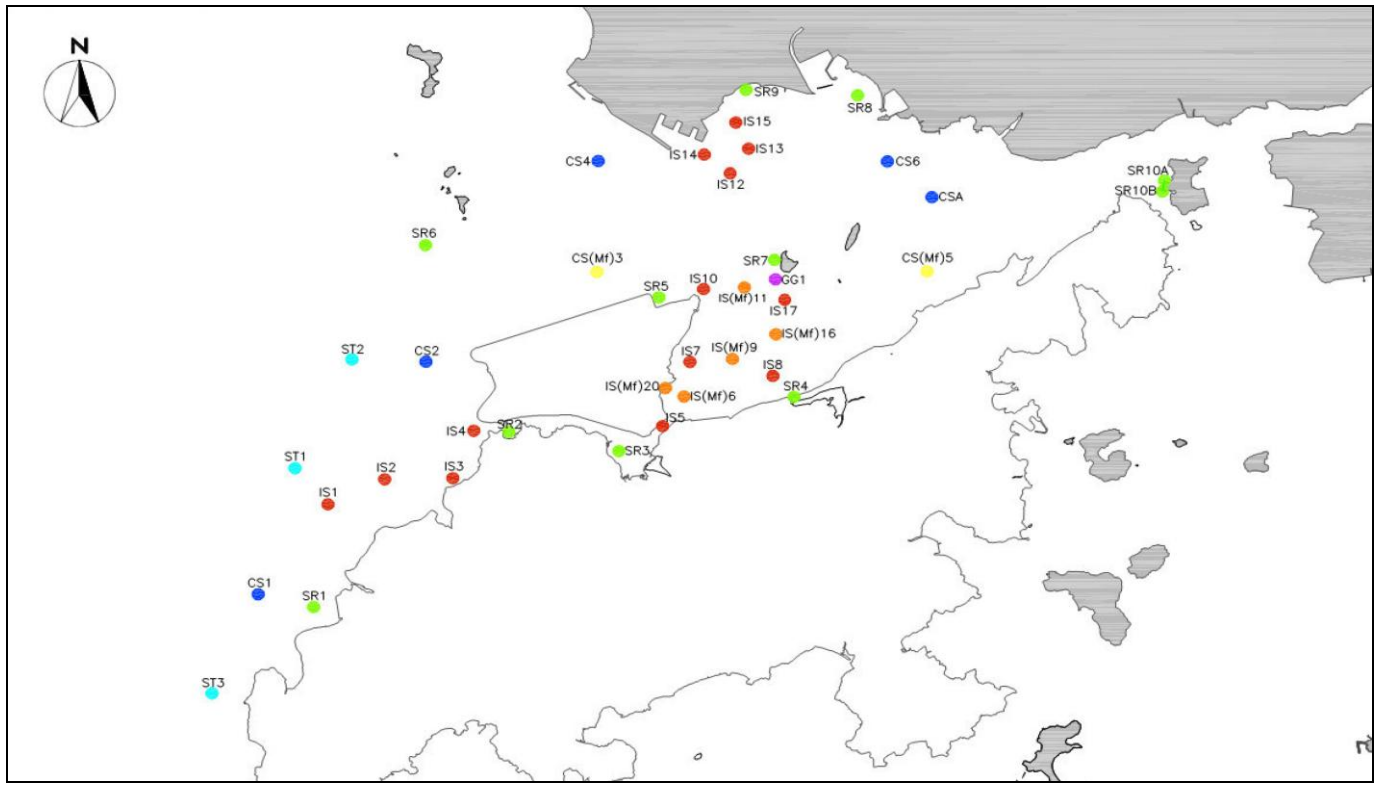
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

As the turbidity 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 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 011a

Date of Notification: 5 November 2012

Works Inspected: Data collected from water sampling works on 22 October 2012 and the test report was issued on 1 November 2012

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 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 6.7 x 120% = 8.0 mg/L for mid flood on 22-Oct-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 6.7 x 130% = 8.7 mg/L for mid flood on 22-Oct-2012)	4.0	<u>13.8</u>
SS	SR3	DA			6.3	<u>11.7</u>

Notes: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 22 October 2012, exceedance of the LL at stations IS(Mf)6 and SR3 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contact works due to the following reasons:

- No major marine works were carried out near the monitoring stations. Geotextile installation work and rock filling were being carried out within silt curtains near the restricted area during the sampling period.
- The ranges of suspended solid at stations IS(Mf)6 and SR3 during the baseline monitoring are shown as below;

Station	Range of Suspended Solid(mg/L), Mid-Flood tide		
	Min	to	Max
IS(Mf)6	8.5	to	35.0
SR3	7.6	to	28.0

The measured values during mid-flood tide at stations IS(Mf)6 and SR3 were within the ranges of suspended solid during baseline monitoring.

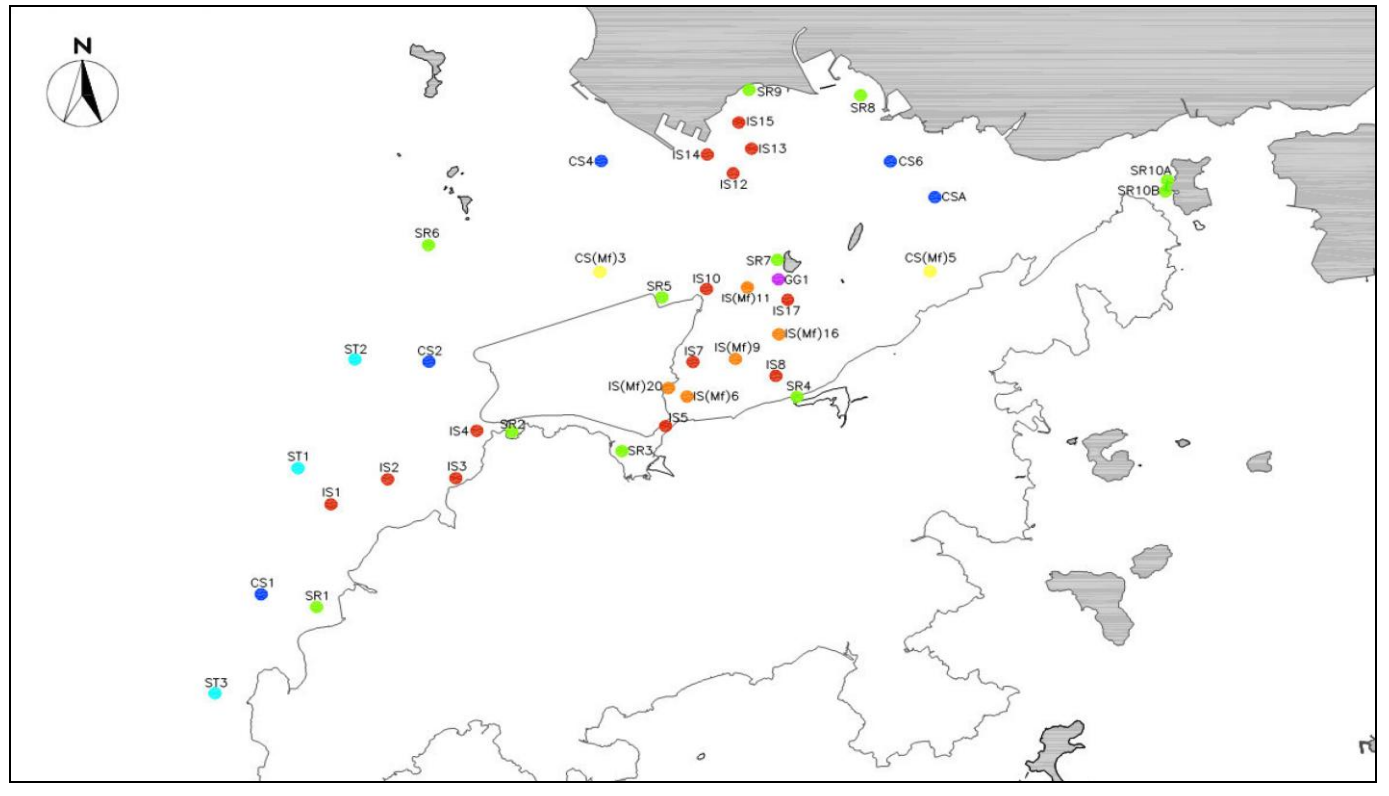
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results..

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

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 5 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 012

Date of Notification: 5 November 2012

Works Inspected: Data collected from water sampling works on 30 October 2012 and the results were issued on 31 October 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS7	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.12 x 120% = 12.1 for mid flood on 30-Oct-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.12 x 130% = 13.2 for mid flood on 30-Oct-2012)	11.1	<u>13.8</u>
TURB	IS8	DA			11.1	12.2
TURB	IS(Mf)9	DA			8.2	<u>23.2</u>
TURB	SR3	DA			14.4	<u>13.8</u>
TURB	SR4	DA			11.5	<u>21.5</u>

Note: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 30 October 2012, exceedance of the AL at station IS8 and the exceedances of the LL at stations IS7, IS(Mf)9, SR3 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

- No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
- The ranges of turbidity at stations IS7, IS8, IS(Mf)9, SR3 and SR4 during the baseline monitoring are shown as below;

Station	Range of Turbidity(NTU), Mid-Flood Tide	
IS7	5.0	to 19.4
IS8	4.5	to 24.5
IS(Mf)9	3.4	to 22.6
SR3	7.7	to 19.7
SR4	5.0	to 20.6

The measured values during mid-flood tide at stations IS7, IS8, IS(Mf)9, SR3 and SR4 were similar or within the ranges of turbidity during baseline monitoring.

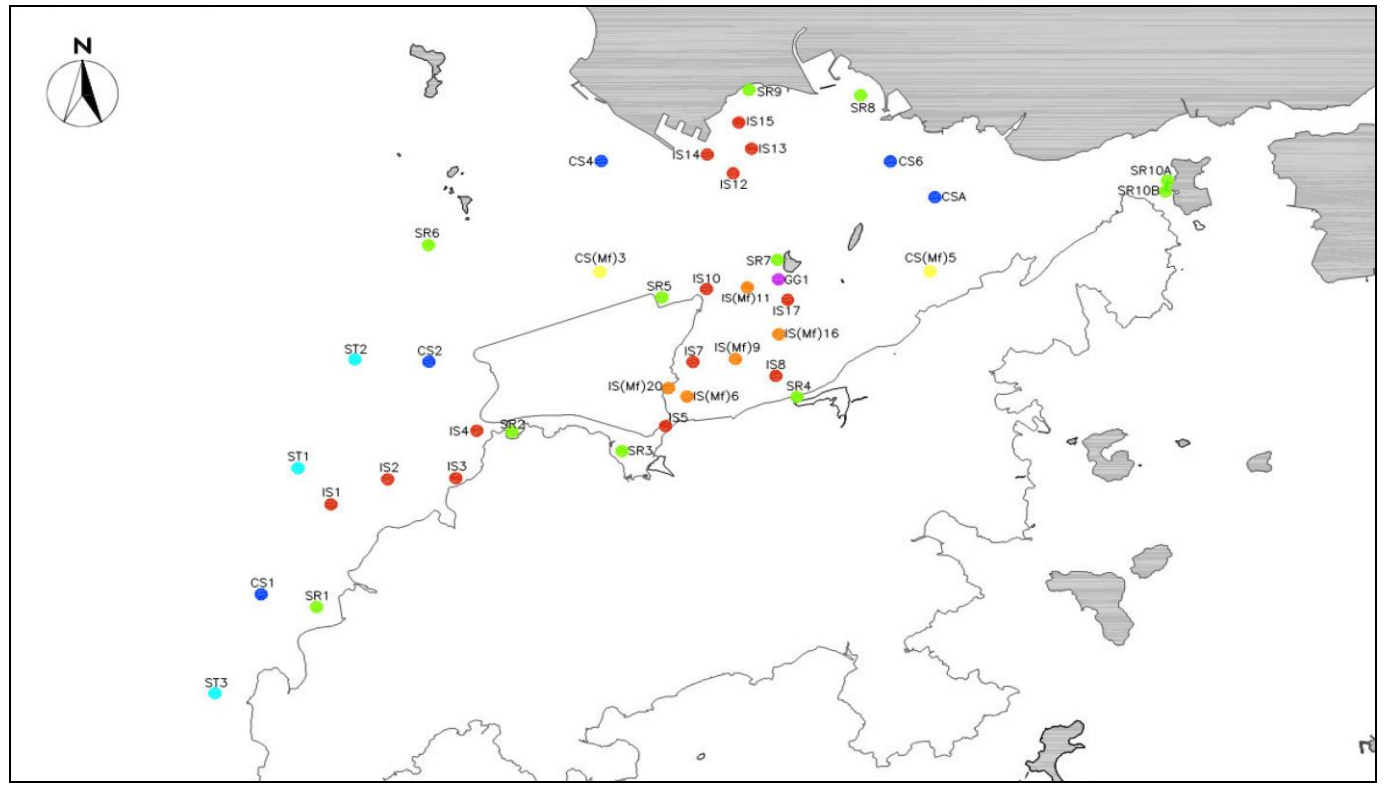
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

As the turbidity 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 : 6 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 013

Date of Notification: 5 November 2012

Works Inspected: Not Applicable

Monitoring Location: AMS5- Ma Wan Chung Village (Tung Chung)

Parameter: 1-hour TSP monitoring

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

PARAMETER	STATION	AL ($\mu\text{g}/\text{m}^3$)	LL ($\mu\text{g}/\text{m}^3$)	MEASURED LEVEL, $\mu\text{g}/\text{m}^3$
1-hr TSP (13:45 – 14:45)	Tung Chung Development Pier	352	500	425
1-hr TSP (14:45 – 15:45)	Tung Chung Development Pier	352	500	412
1-hr TSP (15:45 – 16:45)	Tung Chung Development Pier	352	500	<u>562</u>

Notes: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

Two Action Level exceedances and one Limited Level exceedance of 1-hr TSP level were recorded at AMS5 Ma Wan Chung Village (Tung Chung) on 30 October 2012.

According to the information provided by the Contractor, the following construction activities were undertaken near AMS5 during the sampling period:

Marine Works (Portion X)

- Laying of geotextile
- Rock filling

Land-based Construction Activities (Kwo Lo Wan Road near shoreline)

- GI survey

The construction activities undertaken during the sampling period did not generate significant dust impact and these activities were undertaken far away (greater than 500m) from AMS5.

The general weather conditions on Tung Chung were drizzle during the dust sampling period. The drizzle would cause high readings of portable dust meter. Therefore, it is considered that the exceedances are not related to the construction activities of the Contract and were caused by the weather condition.

Actions taken/ to be taken:

No immediately actions are required.

Reviewed by : Claudine Lee

Title : ET Leader



Date : 5 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 014

Date of Notification: 7 November 2012

Works Inspected: Data collected from water sampling works on 27 October 2012 and the test report was issued on 2 November 2012

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	IS5	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 14.6 x 120% =17.5 mg/L for mid flood on 27-Oct-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 14.55 x 130% =18.9 mg/L for mid flood on 27-Oct-2012)	18.0	<i>17.9</i>
SS	IS(Mf)6	DA			9.1	<i>18.5</i>
SS	IS7	DA			8.8	<u>19.7</u>
SS	SR3	DA			8.8	<i>18.6</i>
SS	SR4	DA			8.1	<u>22.9</u>

Notes: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 27 October 2012, exceedances of the AL at stations IS5, IS(Mf)6 and SR3 and exceedances of LL at stations IS7 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contact works due to the following reasons:

- No major marine works were carried out near the monitoring stations. Geotextile installation work and rock filling were being carried out within silt curtains during the sampling period.
- The ranges of suspended solid at stations IS5, IS(Mf)6, IS7, SR3 and SR4 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid(mg/L)	
IS5	7.0	to 23.7
IS(Mf)6	8.5	to 35.0
IS7	7.8	to 34.0
SR3	7.6	to 28.0
SR4	5.6	to 24.5

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS7, SR3 and SR4 were within the ranges of suspended solid during baseline monitoring.

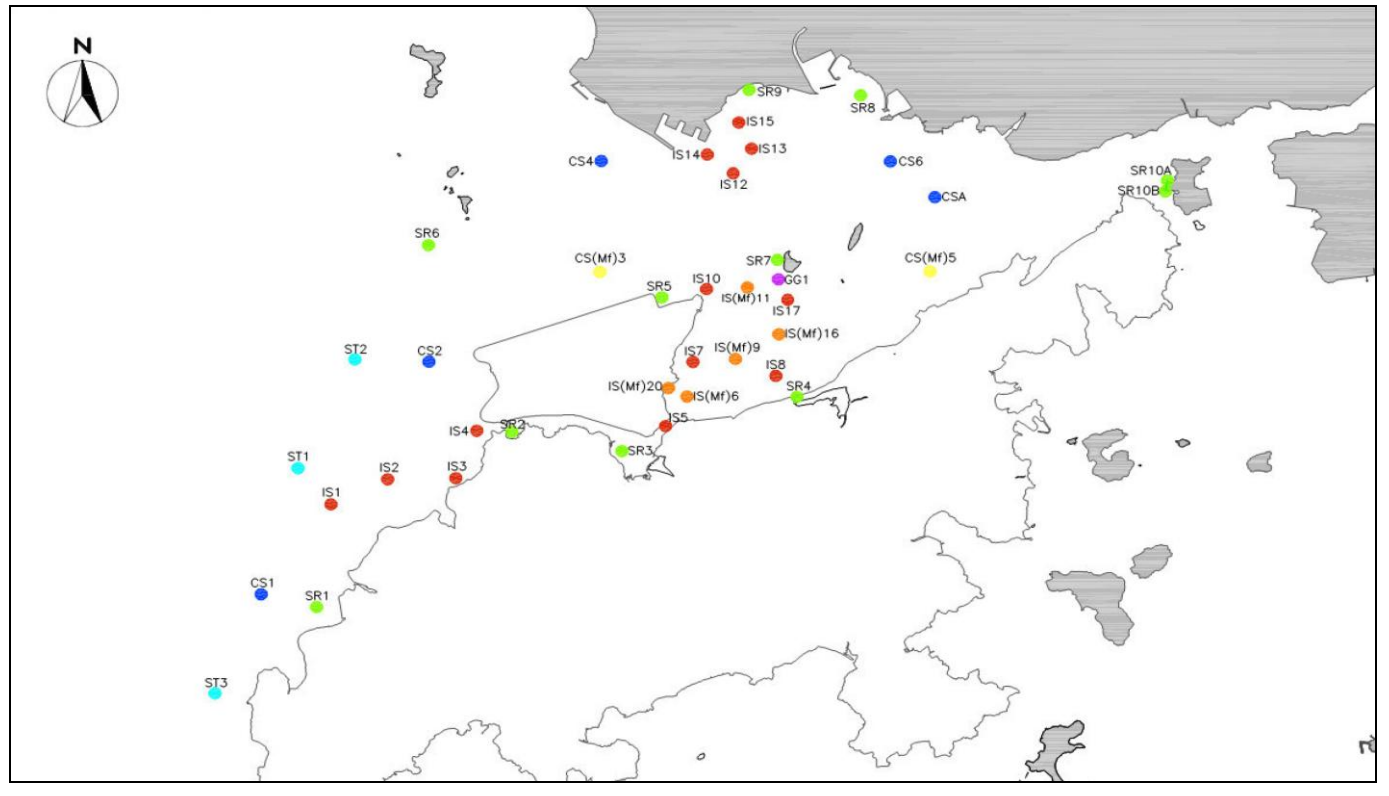
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 7 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

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.: 017

Date of Notification: 9 November 2012

Works Inspected: Data collected from water sampling works on 30 October 2012 and the test report was issued on 6 November 2012

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	IS5	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 11.17 x 120% = 13.4 mg/L for mid flood on 30-Oct-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 11.17 x 130% = 14.5 mg/L for mid flood on 30-Oct-2012)	16.4	<i>13.7</i>
SS	IS7	DA			12.7	<u>15.4</u>
SS	IS8	DA			12.3	<u>15.2</u>
SS	IS(Mf)9	DA			8.2	<u>39.0</u>
SS	SR3	DA			15.4	14.1
SS	SR4	DA			10.7	<u>25.1</u>

Notes: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 30 October 2012, exceedances of AL at stations IS5 and SR3 and exceedances of LL at stations IS7, IS8, IS(Mf)9 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contact works due to the following reasons:

- No major marine works were carried out near the monitoring stations. The geotextile installation work and rock filling were being carried out within the silt curtains during the sampling period.
- The ranges of suspended solid at stations IS5, IS7, IS8, SR3 and SR4 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid(mg/L)		
IS5	7.0	to	23.7
IS7	7.8	to	34.0
IS8	5.8	to	31.3
IS(Mf)9	7.3	to	26.0
SR3	7.6	to	28.0
SR4	5.6	to	24.5

The measured values during mid-flood tide at stations IS5, IS7, IS8, SR3 and SR4 were within the ranges of suspended solid during baseline monitoring. IS(Mf)9 is located at the upstream of the contact site area during the mid-flood tide. The high level of SS is not likely due to the contract construction activities.

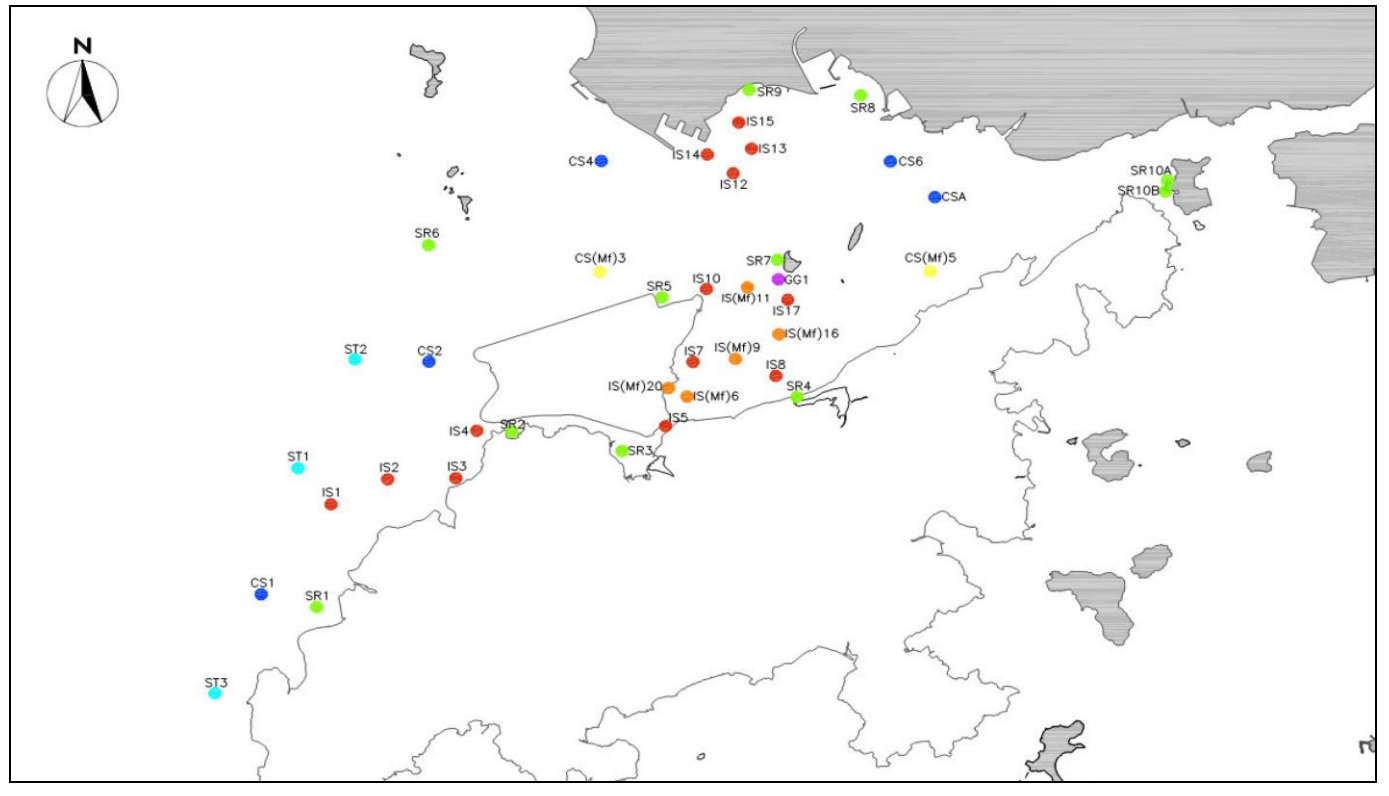
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader



Date : 9 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

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.: 015

Date of Notification: 7 November 2012

Works Inspected: Data collected from water sampling works on 1 November 2012 and results were issued on 2 November 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS5	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.7 x 120% = 12.8 for mid flood on 1-Nov-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.7 x 130% = 13.9 for mid flood on 1-Nov-2012)	17.8	<i>13.2</i>
TURB	IS(Mf)6	DA			17.5	<i>12.9</i>
TURB	IS7	DA			5.3	<u>16.5</u>
TURB	IS8	DA			13.8	<u>23.1</u>
TURB	IS(Mf)9	DA			7.6	<u>18.8</u>
TURB	SR4	DA			11.4	<u>25.0</u>
TURB	SR10B	DA			7.4	<i>13.0</i>

Notes: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 1 November 2012, exceedances of the AL at stations IS5, IS(Mf)6 and SR10B and exceedances of LL at stations IS7, IS8, IS(Mf)9 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

- No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
- The ranges of turbidity at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9 and SR10B during the baseline monitoring are shown as below:

Station	Range of Turbidity(NTU)		
IS5	5.3	to	20.9
IS(Mf)6	5.3	to	20.9
IS7	5.0	to	19.4
IS8	4.5	to	24.5
IS(Mf)9	3.4	to	22.6
SR4	5.0	to	20.6
SR10B	1.7	to	13.2

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9 and SR10B were within the ranges of turbidity during baseline monitoring. SR4 is located at the upstream of the contact site area during the mid-flood tide. The high level of SS is not likely to be caused by the contract construction activities

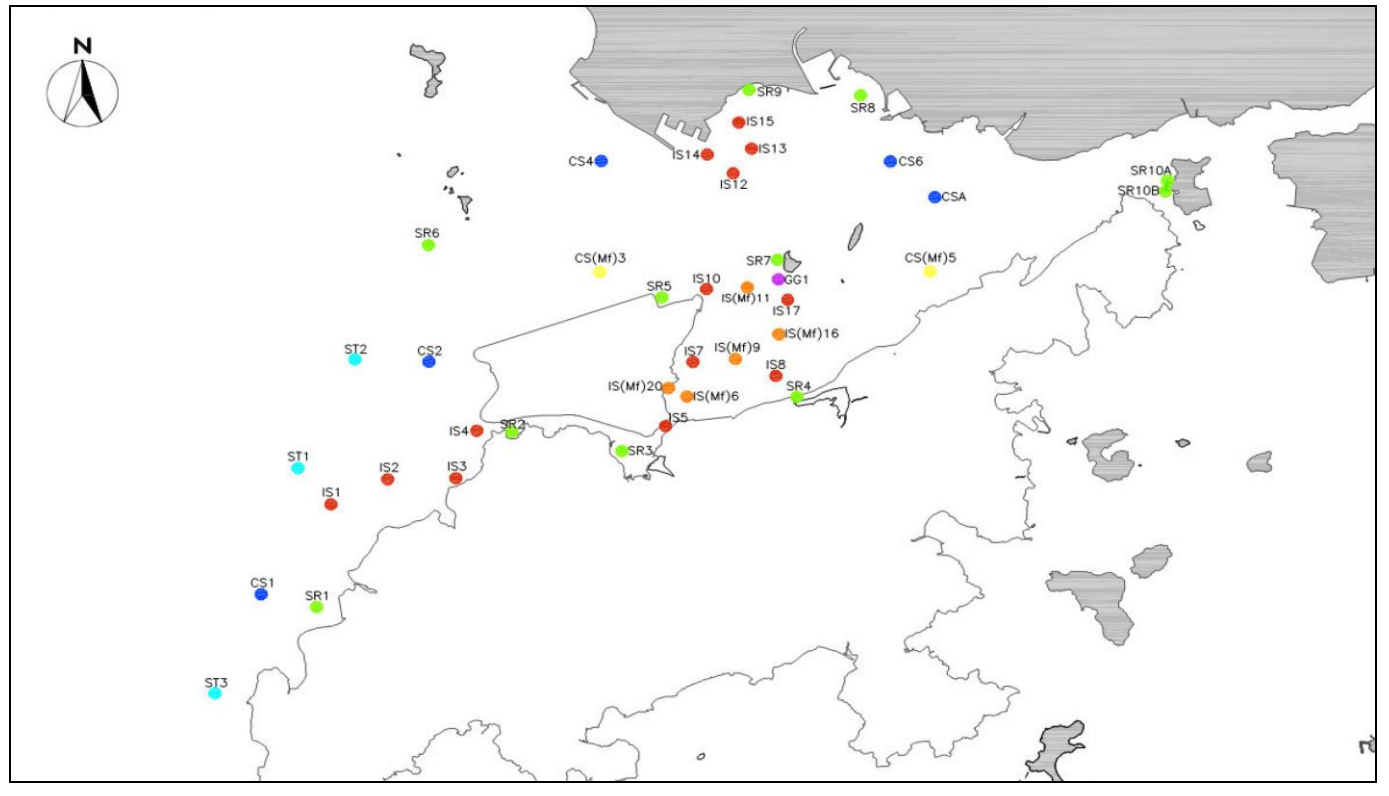
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

As the turbidity 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 : 7 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 016a

Date of Notification: 20 November 2012

Works Inspected: Data collected from water sampling works on 5 November 2012 and the results were issued on 6 November 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS5	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 7.6 x 120% =9.1 for mid flood on 5-Nov-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 7.55 x 130% =9.8 for mid flood on 5-Nov-2012)	13.8	<u>13.5</u>
TURB	IS(Mf)6	DA			6.6	<u>13.9</u>
TURB	SR3	DA			6.9	<u>11.2</u>

Notes: ***Bold Italic*** means AL exceedance
Bold Italic with underline means LL exceedance

Possible reason for Action or Limit Level Non-compliance:

On 5 November 2012, exceedances of the LL at stations IS5, IS(Mf)6 and SR3 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

- No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
- The ranges of turbidity at stations IS5, IS(Mf)6 and SR3 during the baseline monitoring are shown as below:

Station	Range of Turbidity(NTU) Mid-Flood Tide		
	Min	to	Max
IS5	5.7	to	21.4
IS(Mf)6	5.3	to	20.9
SR3	7.7	to	19.7

The measured values during mid-flood tide at stations IS5, IS(Mf)6 and SR3 were within the ranges of turbidity during baseline monitoring.

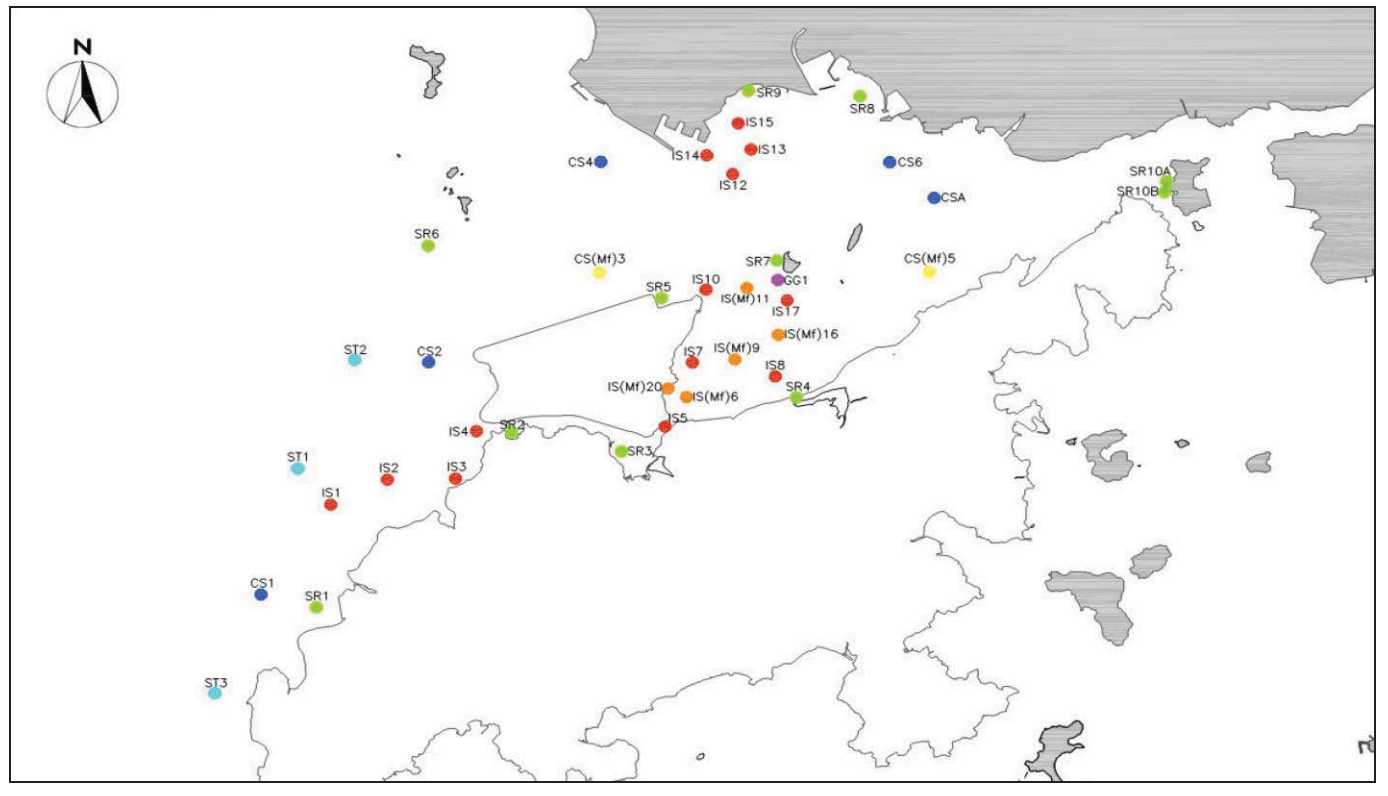
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

As the turbidity 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 : 20 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 018

Date of Notification: 16 November 2012

Works Inspected: Data collected from water sampling works on 1 November 2012 and the test report was issued on 8 November 2012

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	IS8	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.58 x 120% = 21.1 mg/L for mid flood on 1-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.58 x 130% = 22.9 mg/L for mid flood on 1-Nov-2012)	15.5	<u>30.5</u>
SS	IS(Mf)9	DA			9.3	22.7
SS	SR4	DA			14.3	<u>31.6</u>

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 1 November 2012, exceedance of the AL at station IS(Mf)9 and exceedances of LL at stations IS8 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contact works due to the following reasons:

1. No major marine works were carried out near the monitoring stations. The geotextile installation work and rock filling were being carried out within the silt curtains during the sampling period.
2. The ranges of suspended solid at stations IS8, IS(Mf)9 and SR4 during the baseline monitoring are shown as below:

Station	Range of Suspended Solid (mg/L)		
IS8	5.8	to	31.3
IS(Mf)9	7.3	to	26.0
SR4	5.6	to	24.5

The measured values during mid-flood tide at stations IS8 and IS(Mf)9 were within the ranges of suspended solid during baseline monitoring. SR4 is located at the upstream of the contact site area during the mid-flood tide. The high level of SS is not likely due to the contract construction activities.

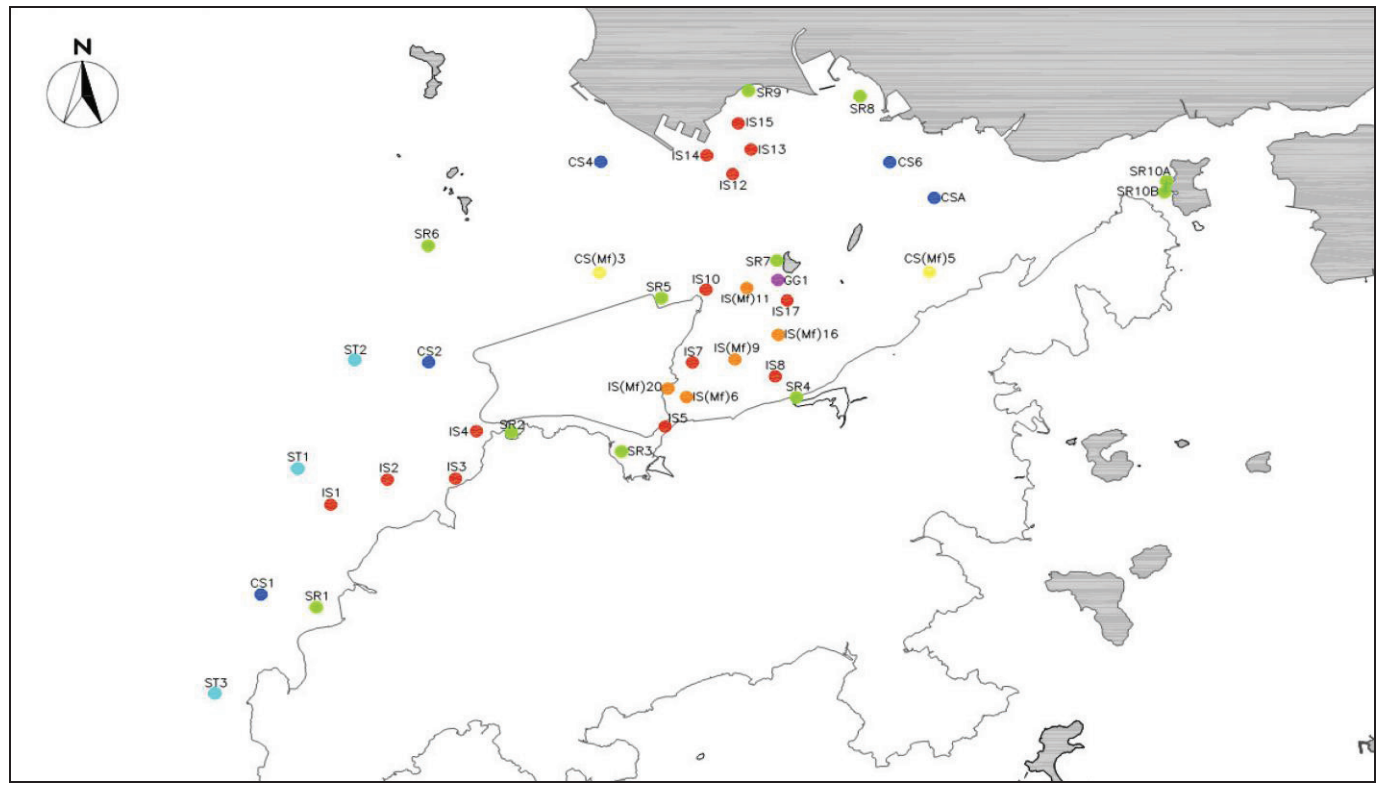
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 16 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 019

Date of Notification: 16 November 2012

Works Inspected: Data collected from water sampling works on 3 November 2012 and the test report was issued on 9 November 2012

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 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.83 x 120% = 21.4 mg/L for mid flood on 3-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.83 x 130% = 23.2 mg/L for mid flood on 3-Nov-2012)	13.8	<u>27.7</u>

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 3 November 2012, exceedance of the LL at station IS(Mf)6 was recorded during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to contact works due to the following reasons:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The range of suspended solid at station IS(Mf)6 during the baseline monitoring is shown as below:

Station	Range of Suspended Solid (mg/L)	
IS(Mf)6	8.5	to 35.0

The measured values during mid-flood tide at station IS(Mf)6 was within the range of suspended solid during the baseline monitoring.

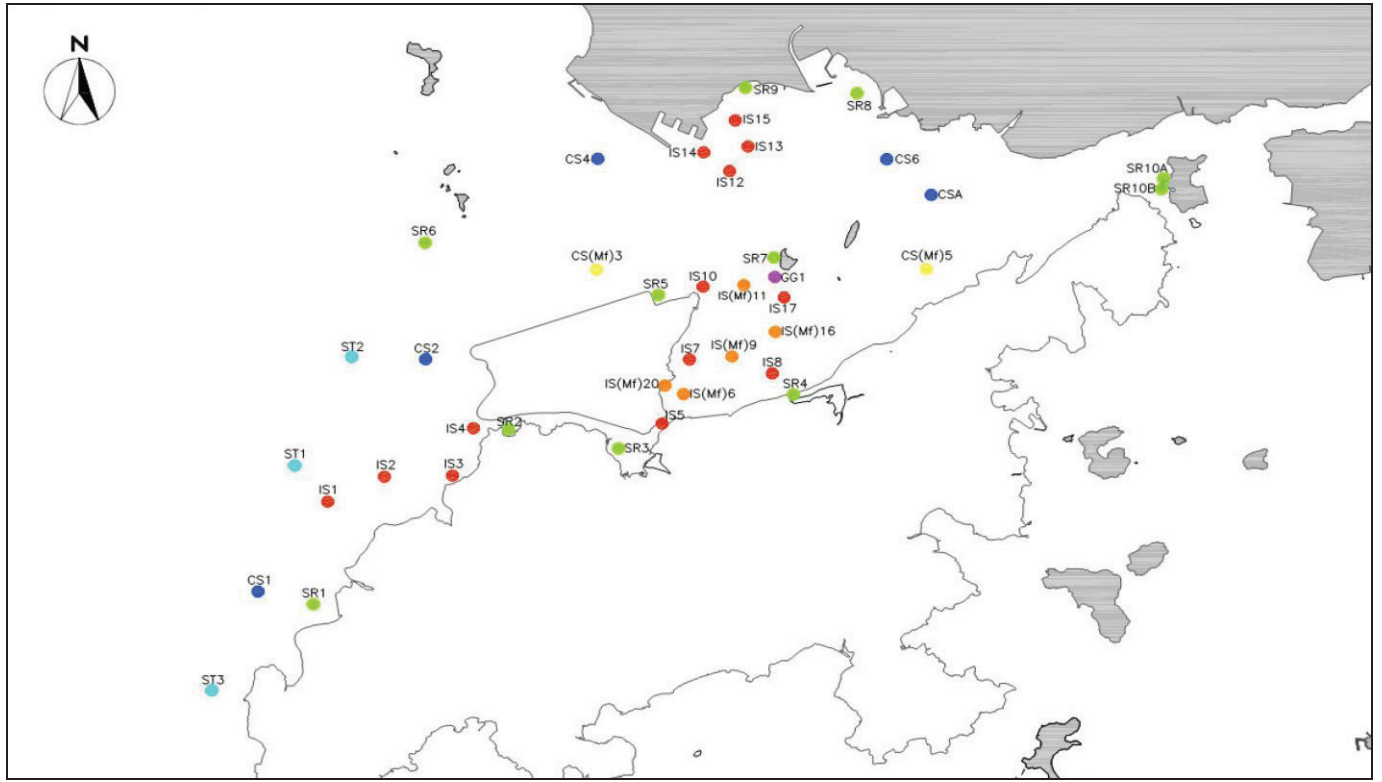
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 16 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 020

Date of Notification: 16 November 2012

Works Inspected: Data collected from water sampling works on 5 November 2012 and the test report was issued on 12 November 2012

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	IS5	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 11.50 x 120% = 13.8 mg/L for mid flood on 5-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 11.50 x 130% = 15.0 mg/L for mid flood on 5-Nov-2012)	14.5	<u>15.8</u>

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 5 November 2012, exceedance of the LL at station IS5 was recorded during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to contact works due to the following reasons:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The range of suspended solid at station IS5 during the baseline monitoring is shown as below:

Station	Range of Suspended Solid (mg/L)	
IS5	7.0	to 23.7

The measured values during mid-flood tide at station IS5 was within the range of suspended solid during the baseline monitoring.

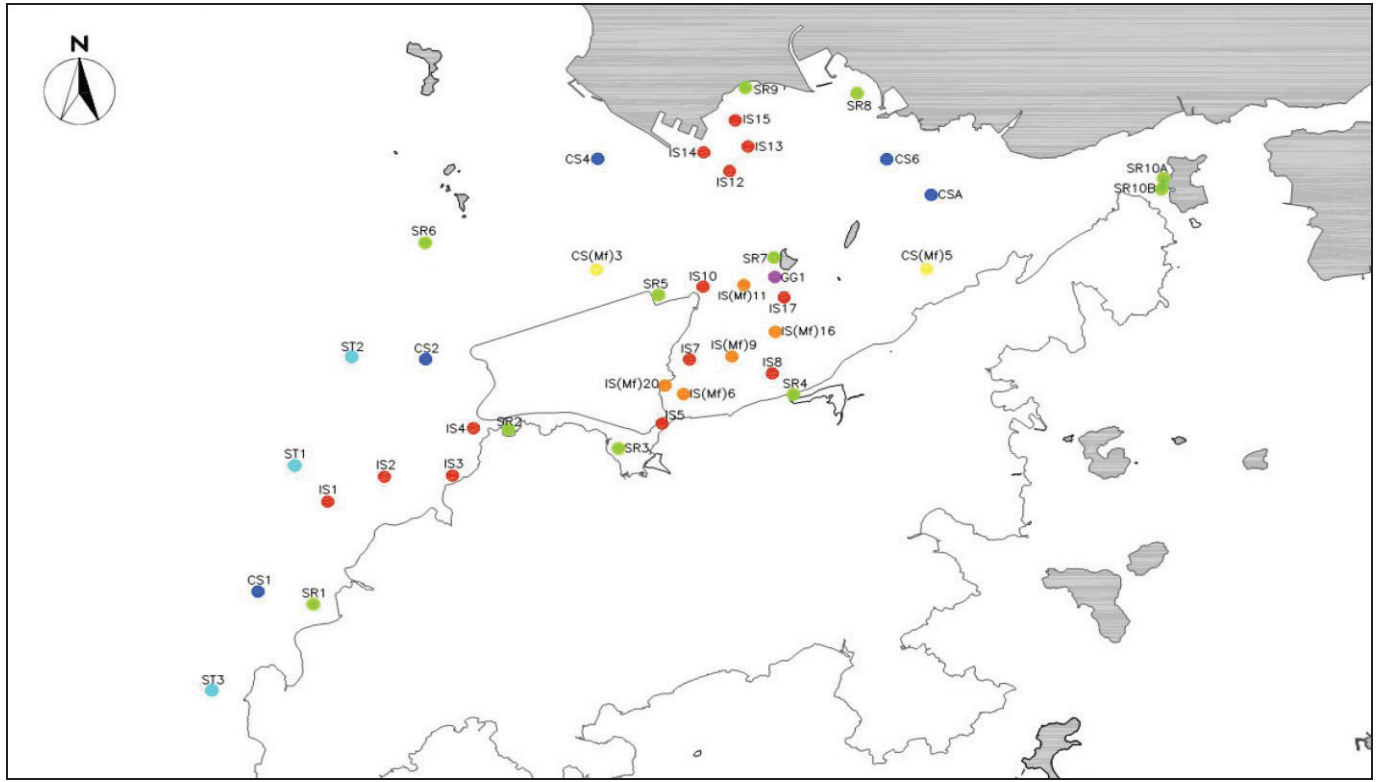
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 16 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

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.: 021

Date of Notification: 16 November 2012

Works Inspected: Data collected from water sampling works on 8 November 2012 and the results were issued on 9 November 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS5	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 5.35 x 120% = 6.4 for mid flood on 5-Nov-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 5.35 x 130% = 7.0 for mid flood on 5-Nov-2012)	3.7	<u>8.3</u>
TURB	IS(Mf)6	DA			4.8	<u>9.9</u>
TURB	IS7	DA			6.8	<u>7.9</u>
TURB	IS8	DA			6.8	<u>6.9</u>
TURB	SR3	DA			2.1	<u>12.0</u>
TURB	SR4	DA			4.8	<u>16.7</u>

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 8 November 2012, exceedance of the AL at station IS8 and exceedances of LL at stations IS5, IS(Mf)6, IS7, SR3 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The ranges of turbidity at stations IS5, IS(Mf)6, IS7, IS8, SR3 and SR4 during the baseline monitoring are shown as below

Station	Range of Turbidity(NTU)	
IS5	5.7	to 21.4
IS(Mf)6	5.3	to 20.9
IS7	5.0	to 19.4
IS8	4.5	to 24.5
SR3	7.7	to 19.7
SR4	5.0	to 20.6

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS8, SR3 and SR4 were within the ranges of turbidity during baseline monitoring.

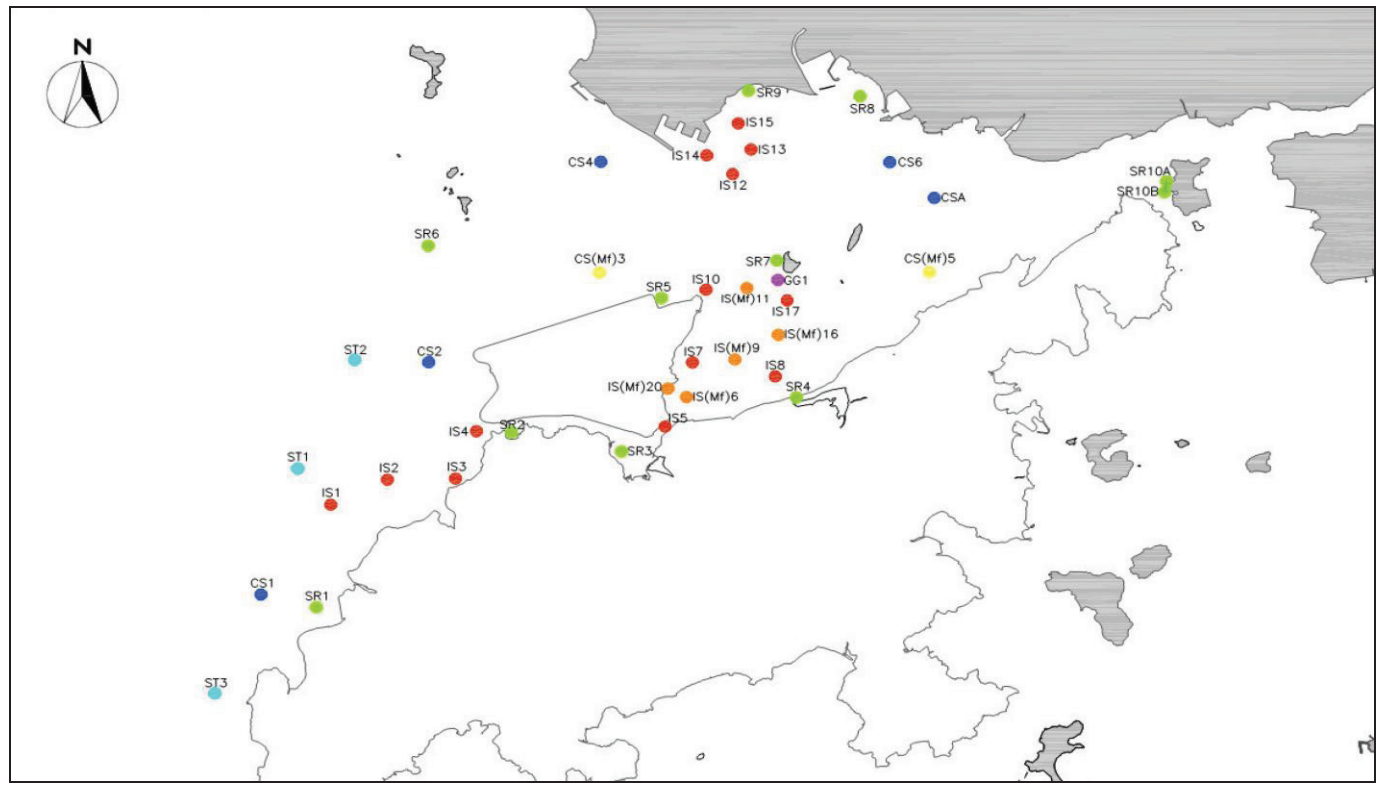
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:


As the turbidity 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 : 16 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 022

Date of Notification: 19 November 2012

Works Inspected: Data collected from water sampling works on 8 November 2012 and the test report was issued on 16 November 2012

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	IS5	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 4.60 x 120% = 5.5 mg/L for mid flood on 8-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 4.60 x 130% = 6.0 mg/L for mid flood on 8-Nov-2012)	5.1	<u>6.9</u>
SS	IS(Mf)6	DA			6.1	<u>7.9</u>
SS	IS8	DA			7.1	<u>6.3</u>
SS	SR3	DA			4.7	<u>8.7</u>
SS	SR4	DA			6.5	<u>16.0</u>

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 8 November 2012, exceedances of the LL at stations IS5, IS(Mf)6, IS8, SR3 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contact works due to the following reasons:

1. No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The ranges of suspended solid at stations IS5, IS(Mf)6, IS8, SR3 and SR4 during the baseline monitoring are shown as below

Station	Range of Suspended Solid(mg/L)		
IS5	7.0	to	23.7
IS(Mf)6	8.5	to	35.0
IS8	5.8	to	31.3
SR3	7.6	to	28.0
SR4	5.6	to	24.5

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS8, SR3 and SR4 were within the ranges of suspended solid during the baseline monitoring.

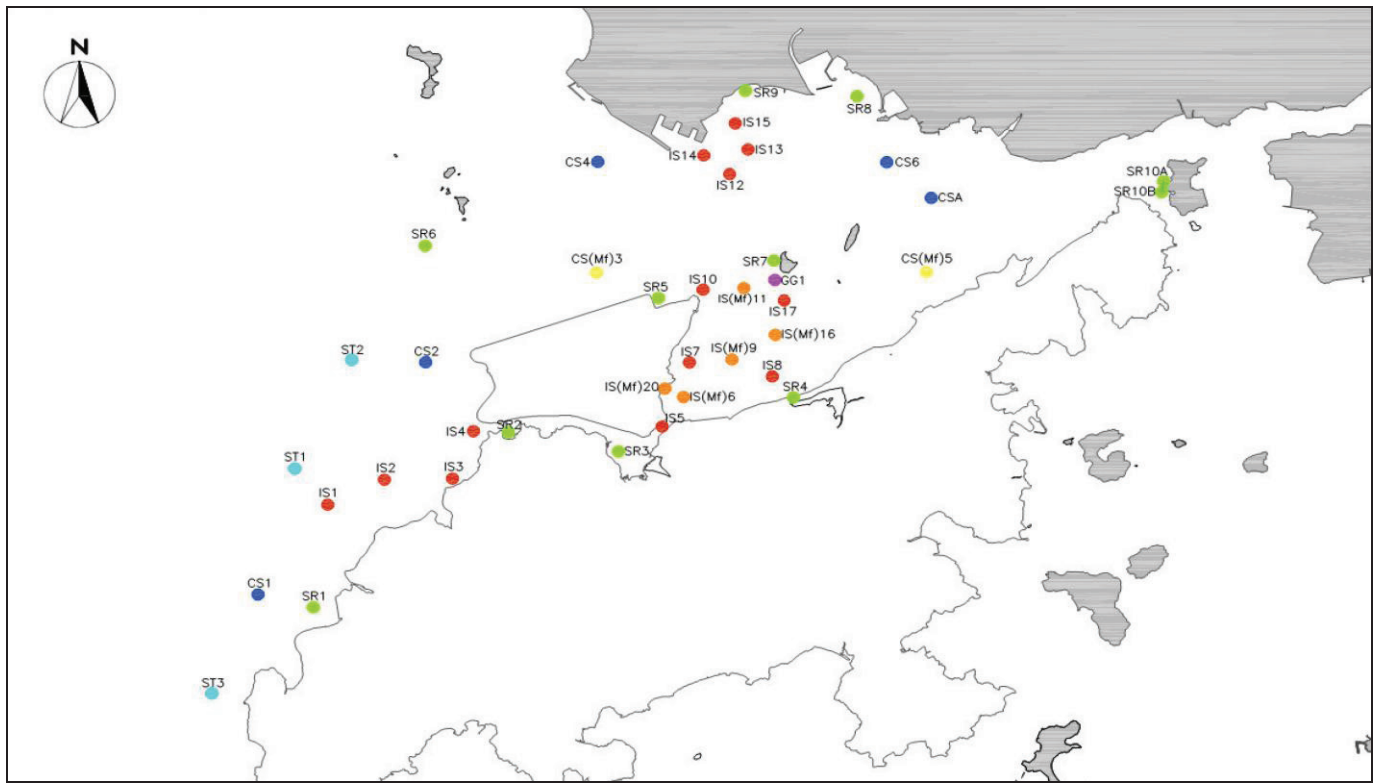
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the suspended solid levels are considered to be attributed to other external factors, rather than the contact works.

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 19 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 023

Date of Notification: 19 November 2012

Works Inspected: Data collected from water sampling works on 10 November 2012 and the test report was issued on 19 November 2012

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	SR3	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 6.12 x 120% = 7.3 mg/L for mid flood on 10-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 6.12 x 130% = 8.0 mg/L for mid flood on 10-Nov-2012)	3.7	<u>13.0</u>

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 10 November 2012, exceedance of the LL at station SR3 was recorded during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to contact works due to the following reasons:

1. No major marine works were carried out near the monitoring station. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The range of suspended solid at station SR3 during the baseline monitoring is shown as below

Station	Range of Suspended Solid(mg/L)		
SR3	7.6	to	28.0

The measured value during mid-flood tide at station SR3 was within the range of suspended solid during the baseline monitoring.

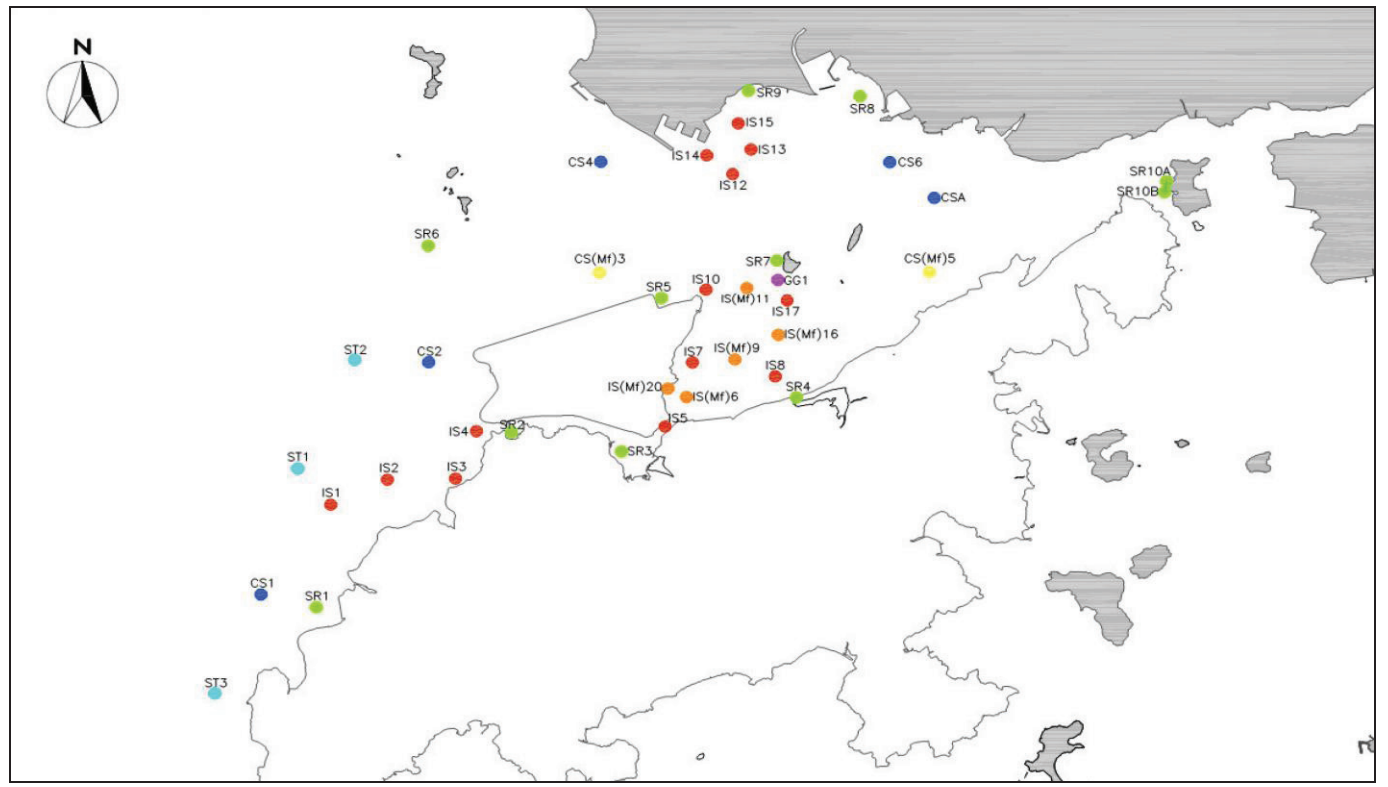
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader



Date : 19 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

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.: 024

Date of Notification: 22 November 2012

Works Inspected: Data collected from water sampling works on 16 November 2012 and the results were issued on 17 November 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS(Mf)6	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.10 x 120% = 12.1 for mid flood on 16-Nov-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.10 x 130% = 13.1 for mid flood on 16-Nov-2012)	18.9	<u>25.3</u>
TURB	IS7	DA			13.1	<u>26.9</u>
TURB	IS8	DA			14.0	<u>25.8</u>
TURB	IS(Mf)9	DA			9.9	<u>17.2</u>
TURB	SR4	DA			16.1	<u>24.7</u>
TURB	SR10A	DA			9.1	<u>13.4</u>
TURB	SR10B	DA			13.3	<u>12.6</u>

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 16 November 2012, exceedance of the AL at station SR10B and exceedances of LL at stations IS(Mf)6, IS7, IS8, IS(Mf)9, SR4 and SR10A were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

- No major marine works were carried out near the monitoring stations. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
- The ranges of turbidity at stations IS(Mf)6, IS7, IS8, IS(Mf)9, SR4, SR10A and SR10B during the baseline monitoring are shown as below

Station	Range of Turbidity(NTU)		
	Mid-Flood Tide		
IS(Mf)6	5.3	to	20.9
IS7	5.0	to	19.4
IS8	4.5	to	24.5
IS(Mf)9	3.4	to	22.6
SR4	5.0	to	20.6
SR10A	1.9	to	13.0
SR10B	1.7	to	13.2

The measured values during mid-flood tide at stations IS(Mf)9, SR4 and SR10B were within the ranges of turbidity during baseline monitoring.

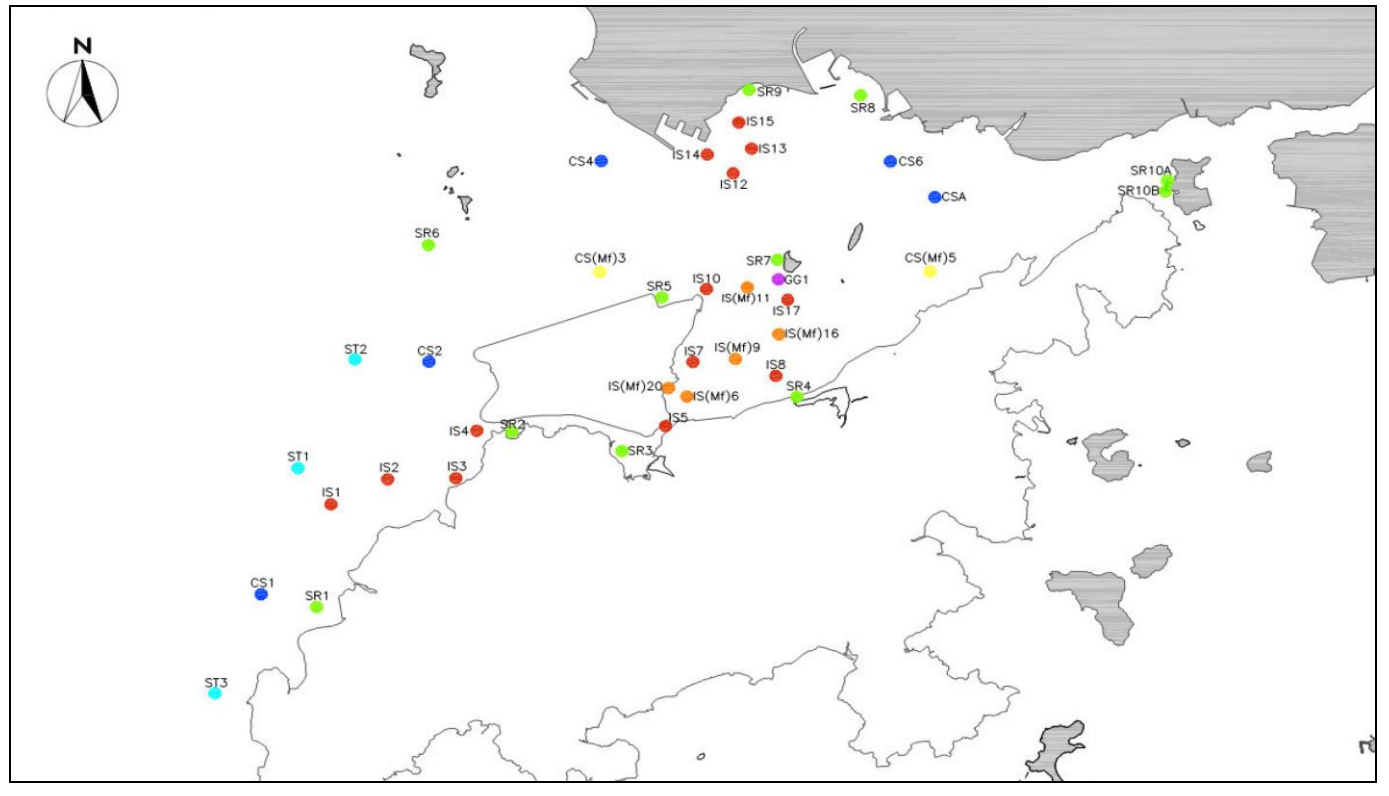
- Moderate waves were observed during the monitoring period at impact monitoring stations.

As such, the turbidity levels are considered to be attributed to other external factors such as sea condition, rather than the contract works.

Actions taken/ to be taken:

As the turbidity 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 : 22 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 025

Date of Notification: 22 November 2012

Works Inspected: Data collected from water sampling works on 14 November 2012 and the test report was issued on 21 November 2012

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	SR4	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 28.52 x 120% = 34.2 mg/L for mid flood on 14-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 28.52 x 130% = 37.1 mg/L for mid flood on 14-Nov-2012)	9.3	25.7

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 14 November 2012, exceedance of the AL at station SR4 was recorded during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

1. No major marine works were carried out near the monitoring station. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The range of suspended solid at station SR4 during the baseline monitoring is shown as below

Station	Range of Suspended Solid (mg/L) Mid-Flood Tide		
SR4	5.6	to	24.5

The measured value during mid-flood tide at station SR4 was similar to the maximum value of suspended solid level recorded during the baseline monitoring and lower than the measured value of 28.52 mg/L at control station CS(Mf)5 during the same sampling period.

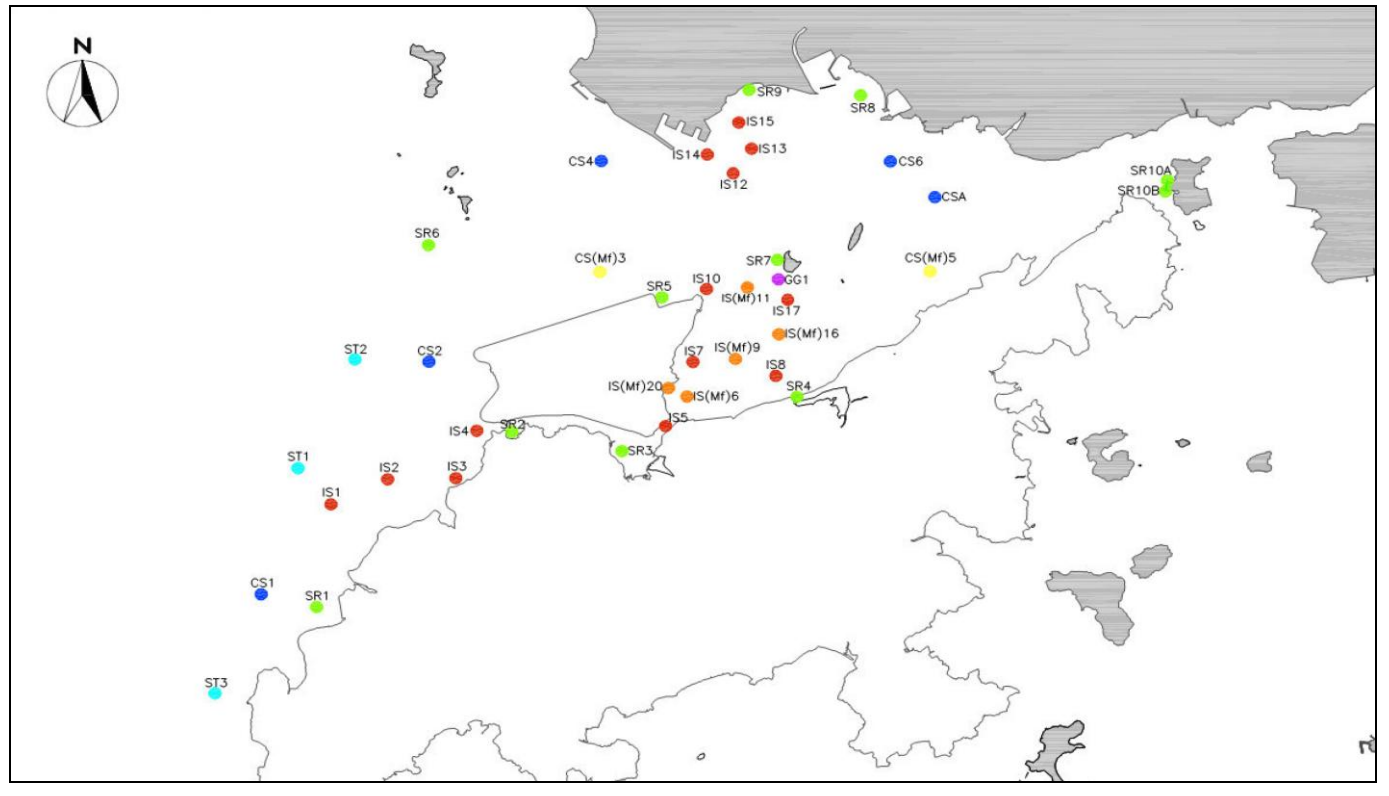
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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 was not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee

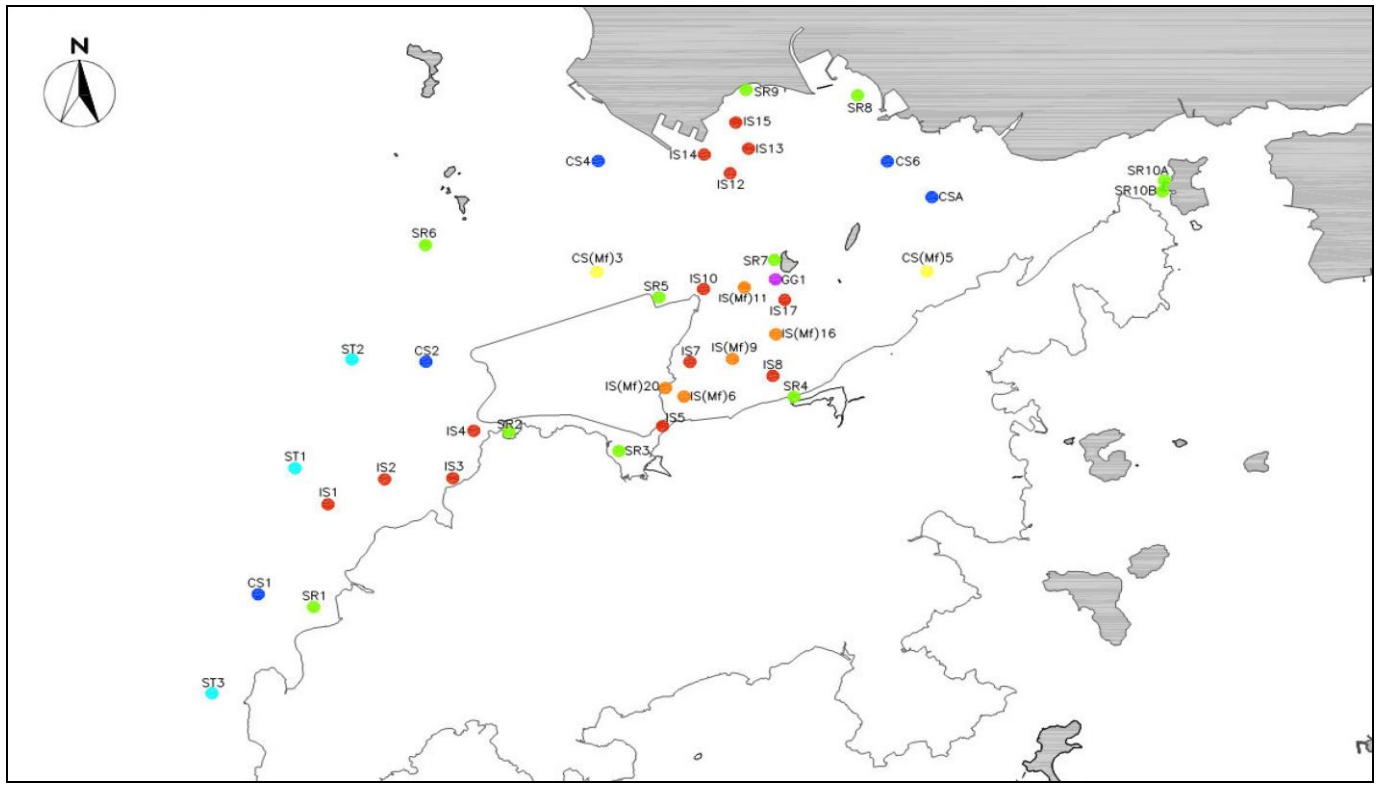
Title : ET Leader

Date : 22 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor


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.: 026						
Date of Notification: 23 November 2012						
Works Inspected: Data collected from water sampling works on 19 November 2012 and the results were issued on 21 November 2012						
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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS7	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 15.65 x 120% = 18.8 for mid flood on 19-Nov-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 15.65 x 130% = 20.3 for mid flood on 19-Nov-2012)	11.1	<u>26.3</u>
TURB	SR4	DA			8.6	<u>22.9</u>
Notes: DA means depth average. <i>Bold Italic</i> means AL exceedances. <i>Bold Italic with underline</i> means LL exceedances. Possible reason for Action or Limit Level Non-compliance: On 19 November 2012, exceedances of LL at stations IS7 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason: 1. No marine works were carried out due to the low tide reason during the sampling period. As such, the turbidity levels are considered to be attributed to other external factors such as sea condition, rather than the contract works.						
Actions taken/ to be taken: As the turbidity 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 : 23 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

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.: 027

Date of Notification: 23 November 2012

Works Inspected: Data collected from water sampling works on 16 November 2012 and the test report was issued on 23 November 2012

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	IS5	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 8.72 x 120% =10.5 mg/L for mid flood on 16-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 8.72 x 130% =11.3mg/L for mid flood on 16-Nov-2012)	11.4	<i>11.6</i>
SS	IS(Mf)6	DA			21.6	<i>26.9</i>
SS	IS7	DA			15.9	<i>31.5</i>
SS	IS8	DA			15.0	<i>36.0</i>
SS	IS(Mf)9	DA			10.4	<i>17.7</i>
SS	SR3	DA			9.7	<i>11.5</i>
SS	SR4	DA			17.5	<i>30.9</i>
SS	SR10A	DA			10.3	<i>13.1</i>
SS	SR10B	DA			14.1	<i>15.8</i>

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 16 November 2012, exceedances of the LL at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, SR3, SR4, SR10A and SR10B were recorded during mid-flood tide. The exceedance have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. No major marine works were carried out near the monitoring station. Rock filling work was being carried out within silt curtains near the restricted area during the sampling period.
2. The range of suspended solid at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, SR3, SR4, SR10A and SR10B during the baseline monitoring are shown as below

Station	Range of Suspended Solid(mg/L) Mid-Flood Tide		
IS5	7.0	to	23.7
IS(Mf)6	8.5	to	35.0
IS7	7.8	to	34.0
IS8	5.8	to	31.3
IS(Mf)9	7.3	to	26.0
SR3	7.6	to	28.0
SR4	5.6	to	24.5
SR10A	4.8	to	19.2
SR10B	5.7	to	26.7

The measured values during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR3, SR10A and SR10B were within the ranges of turbidity during baseline monitoring..

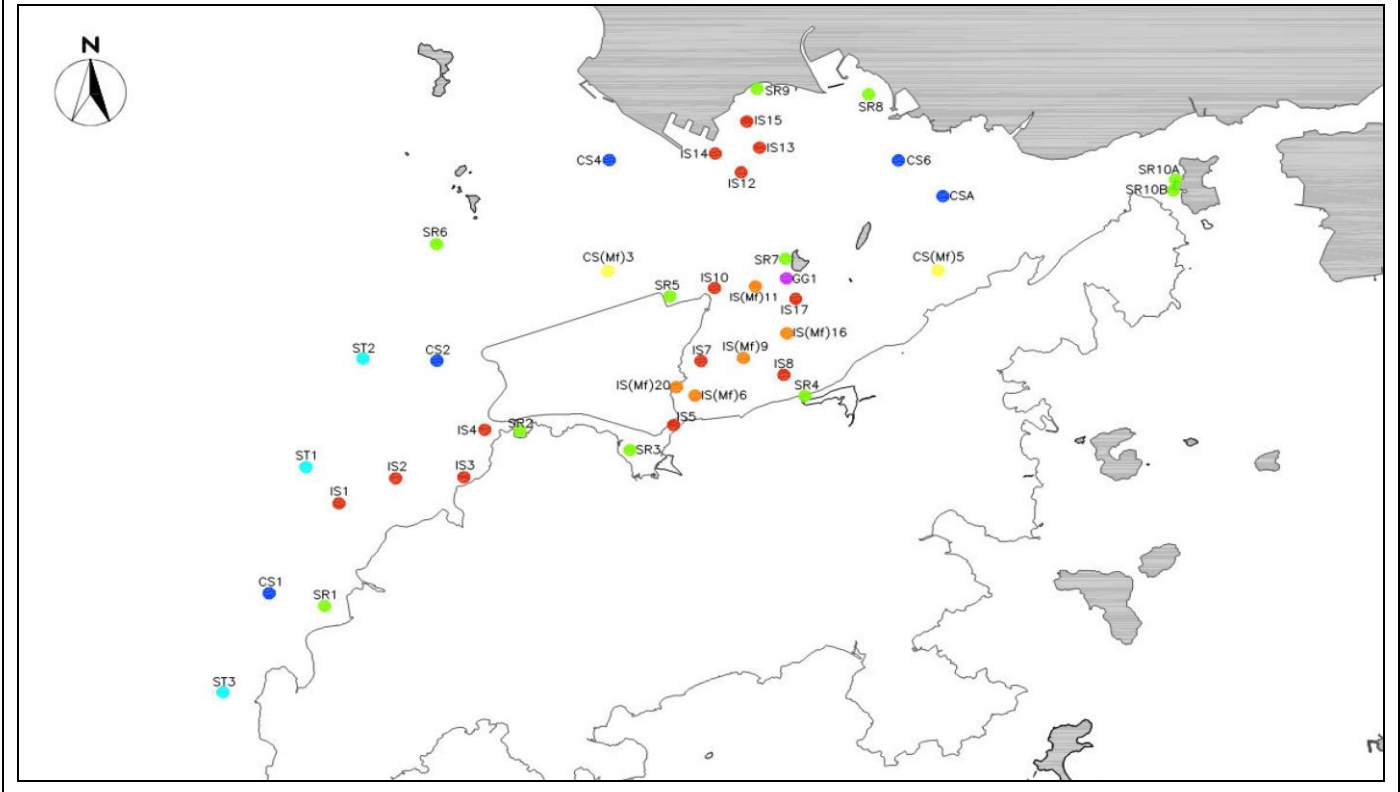
3. Moderate waves were observed during the monitoring period at impact monitoring stations.

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

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee

Title : ET Leader

Date : 23 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

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.: 028

Date of Notification: 28 November 2012

Works Inspected: Data collected from water sampling works on 24 November 2012 and the results were issued on 26 November 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS5	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS2: 7.50 x 120% = 9.0 for mid ebb on 24-Nov-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS2: 7.50 x 130% = 9.8 for mid ebb on 24-Nov-2012)	<u>14.3</u>	--*
TURB	IS(Mf)6	DA			<u>11.7</u>	--*
TURB	IS10	DA			<u>11.5</u>	--*

Notes:
 DA means depth average.
Bold Italic means AL exceedances.
Bold Italic with underline means LL exceedances.
 * The monitoring for flood tide on 24/11 could not be conducted due to the breakdown of boats for water quality monitoring.

Possible reason for Action or Limit Level Non-compliance:

On 24 November 2012, exceedances of LL at stations IS5, IS(Mf)6 and IS10 were recorded during mid-ebb tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

- No major marine works were carried out near the monitoring stations. Silt curtains maintenance work was being carried out during the sampling period
- The ranges of turbidity at stations IS5, IS(Mf)6 and IS10 during the baseline monitoring are shown as below

Station	Range of Turbidity(NTU) Mid-Ebb Tide		
IS5	5.8	to	19.2
IS(Mf)6	3.3	to	21.7
IS10	6.7	to	14.7

The measured values during mid-ebb tide at stations IS5, IS(Mf)6 and IS10 were within the ranges of turbidity during baseline monitoring.

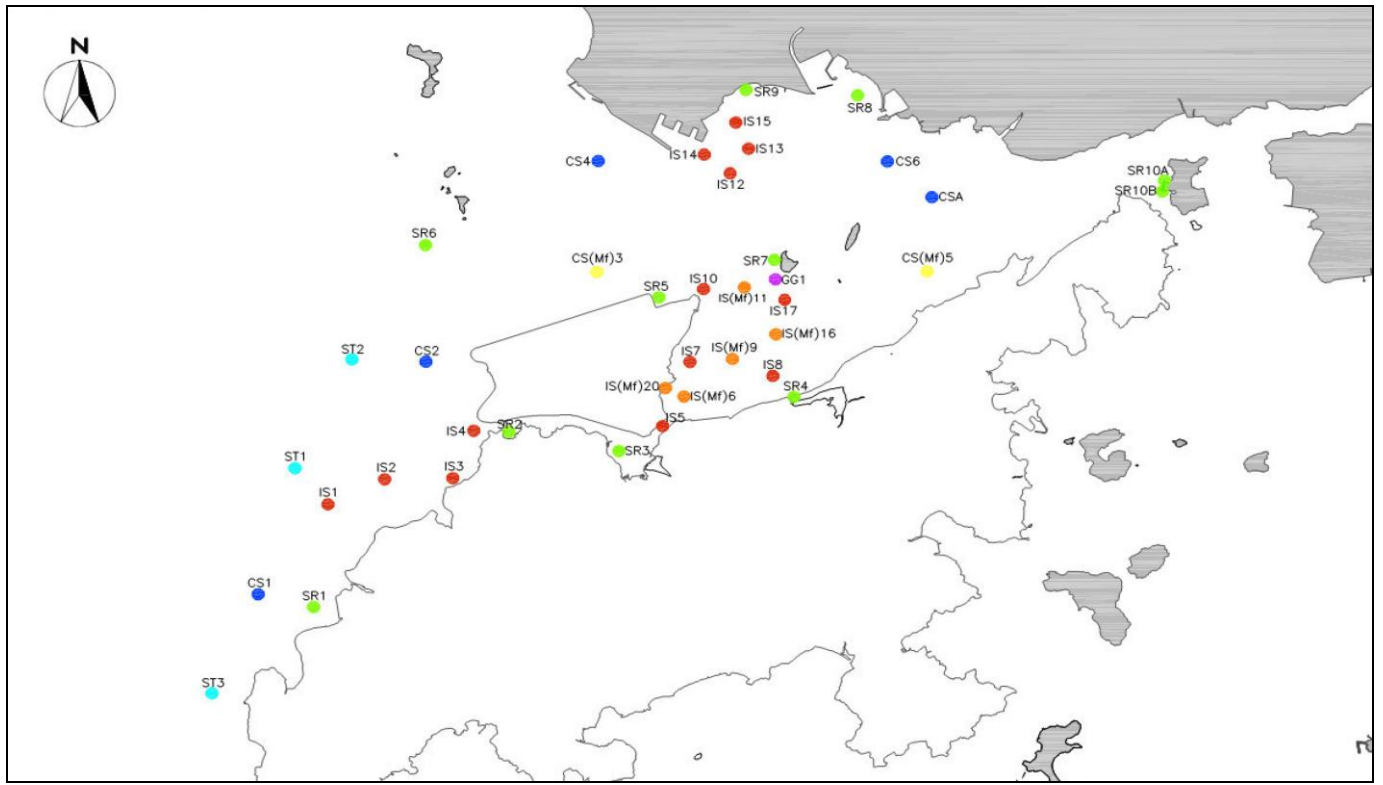
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the turbidity levels are considered to be attributed to other external factors such as sea condition, rather than the contract works.

Actions taken/ to be taken:

As the turbidity 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 : 28 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

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.: 029

Date of Notification: 28 November 2012

Works Inspected: Data collected from water sampling works on 19 November 2012 and the test report was issued on 26 November 2012

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	IS7	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.52 x 120% = 21.0 mg/L for mid flood on 19-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 17.52 x 130% = 22.8 mg/L for mid flood on 19-Nov-2012)	12.3	<u>24.6</u>
SS	SR4	DA			9.6	<u>26.5</u>

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 19 November 2012, exceedances of the LL at stations IS7 and SR4 were recorded during mid-flood tide. The exceedance have been investigated and are considered unlikely to be related to contract works due to the following reasons:

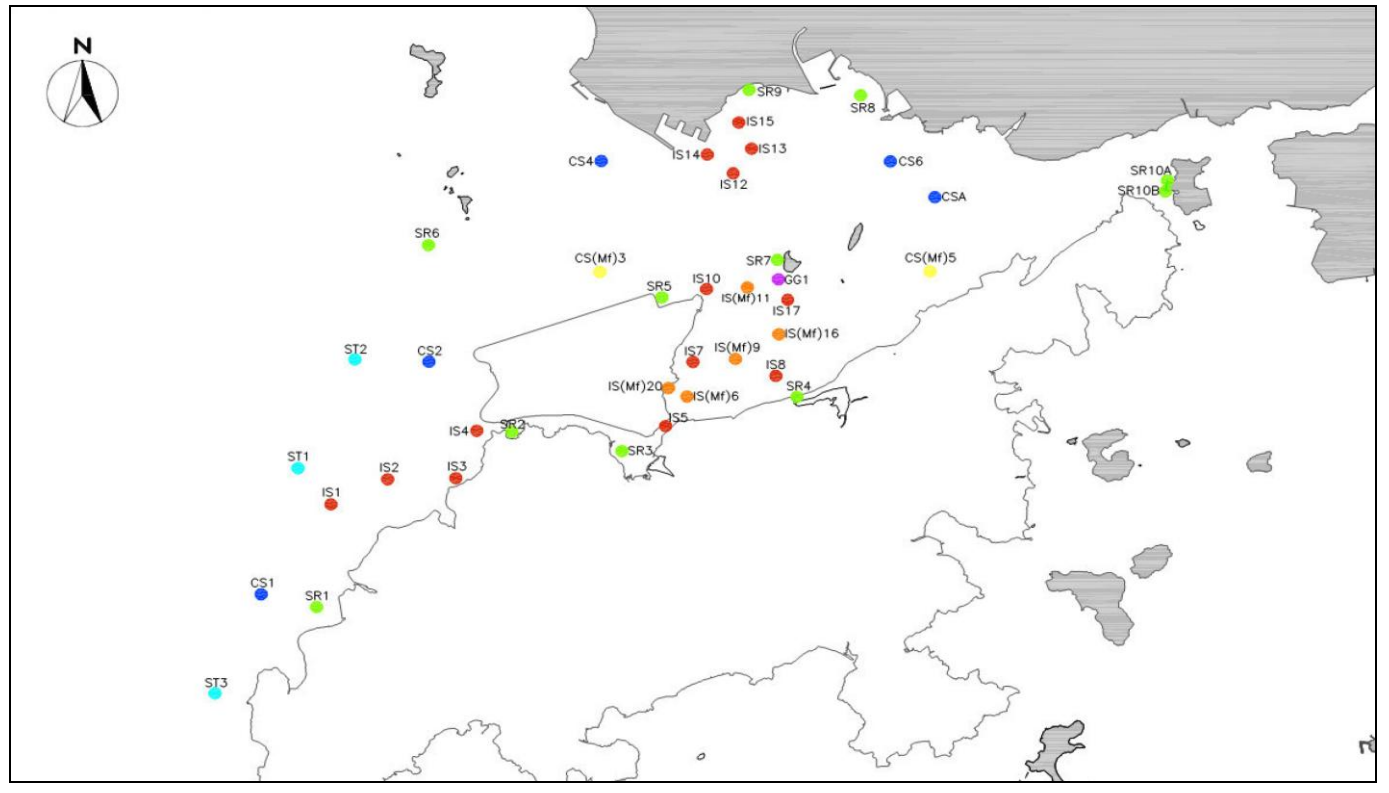
1. No marine works were carried out due to the low tide reason during the sampling period.


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

Actions taken/ to be taken:

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

Location Plan:



Reviewed by : Claudine Lee


Title : ET Leader

Date : 28 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 030

Date of Notification: 30 November 2012

Works Inspected: Data collected from water sampling works on 26 November 2012 and the results were issued on 27 November 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS5	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.05 x 120% = 12.1 for mid flood on 26-Nov-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS(Mf)5: 10.05 x 130% = 13.1 for mid flood on 26-Nov-2012)	13.4	<u>15.4</u>
TURB	IS(Mf)6	DA			25.7	<u>26.2</u>
TURB	IS7	DA			19.3	<u>25.3</u>
TURB	IS(Mf)9	DA			13.9	<u>13.8</u>
TURB	SR3	DA			7.8	<u>15.0</u>
TURB	SR4	DA			8.5	<u>17.7</u>

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 26 November 2012, exceedances of LL at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR3 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

1. No major marine works were carried out near the monitoring stations. Silt curtains maintenance work was being carried out during the sampling period.
2. The ranges of turbidity at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR3 and SR4 during the baseline monitoring are shown as below

Station	<u>Range of Turbidity(NTU) Mid-Flood Tide</u>	
IS5	5.7	to 21.4
IS(Mf)6	5.3	to 20.9
IS7	5.0	to 19.4
IS(Mf)9	3.4	to 22.6
SR3	7.7	to 19.7
SR4	5.0	to 20.6

The measured values during mid-flood tide at stations IS5, IS(Mf)9, SR3 and SR4 were within the ranges of turbidity during baseline monitoring.

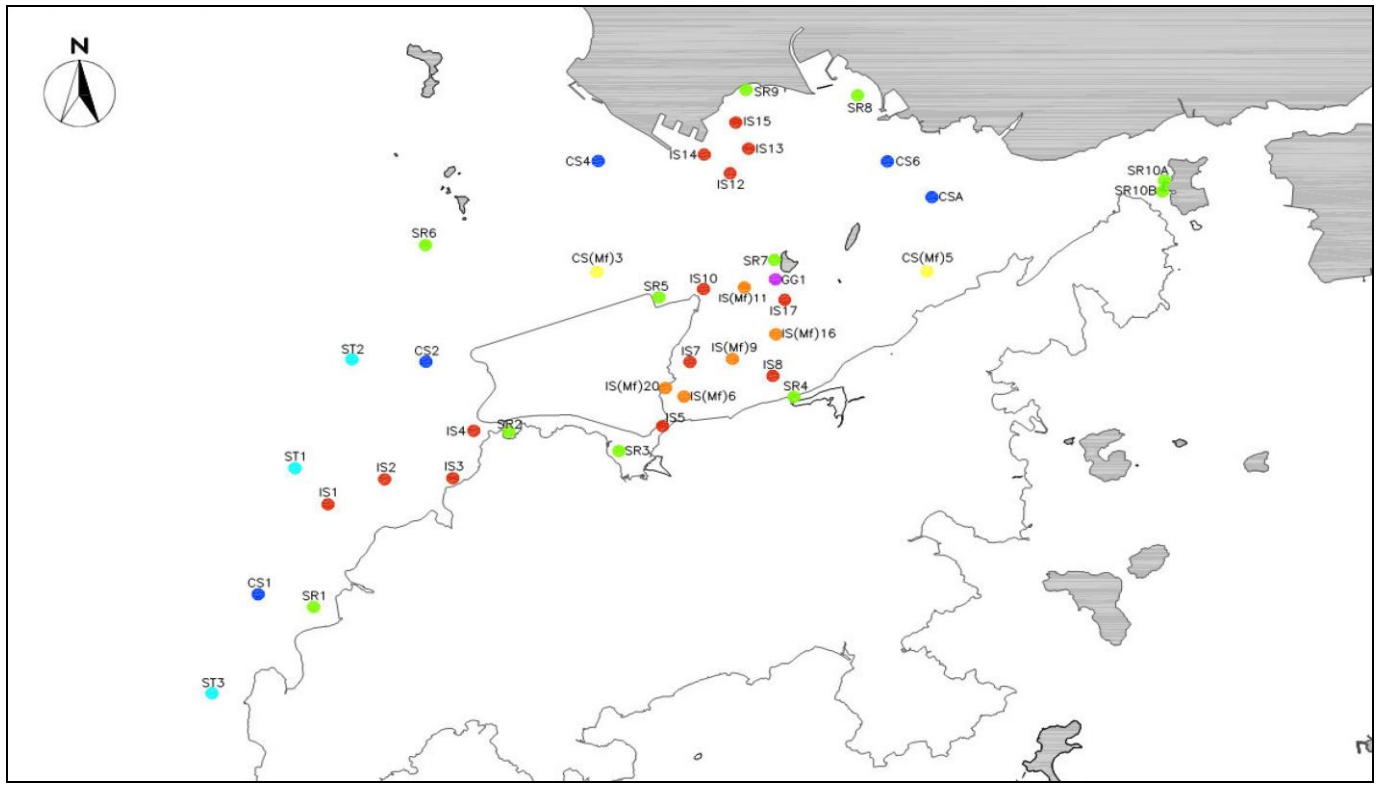
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

As such, the turbidity levels are considered to be attributed to other external factors such as sea condition, rather than the contract works.

Actions taken/ to be taken:

As the turbidity 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 : 30 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

**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.: 031

Date of Notification: 30 November 2012

Works Inspected: Data collected from water sampling works on 22 November 2012 and the test report was issued on 29 November 2012

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	IS5	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 8.08 x 120% = 9.7 mg/L for mid flood on 22-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 8.08 x 130% = 10.5 mg/L for mid flood on 22-Nov-2012)	7.0	<u>14.5</u>

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 22 November 2012, exceedance of the AL at station IS5 was recorded during mid-flood tide. The exceedance has been investigated and is considered unlikely to be related to contract works due to the following reasons:

1. No major marine works were carried out near the monitoring station. Silt curtains maintenance work was being carried out during the sampling period.
2. The range of suspended solid at station IS5 during the baseline monitoring is shown as below.

Station	Range of Suspended Solid(mg/L)		
IS5	7.0	to	23.7

The measured value during mid-flood tide at station IS5 was within the range of suspended solid level recorded during the baseline monitoring.

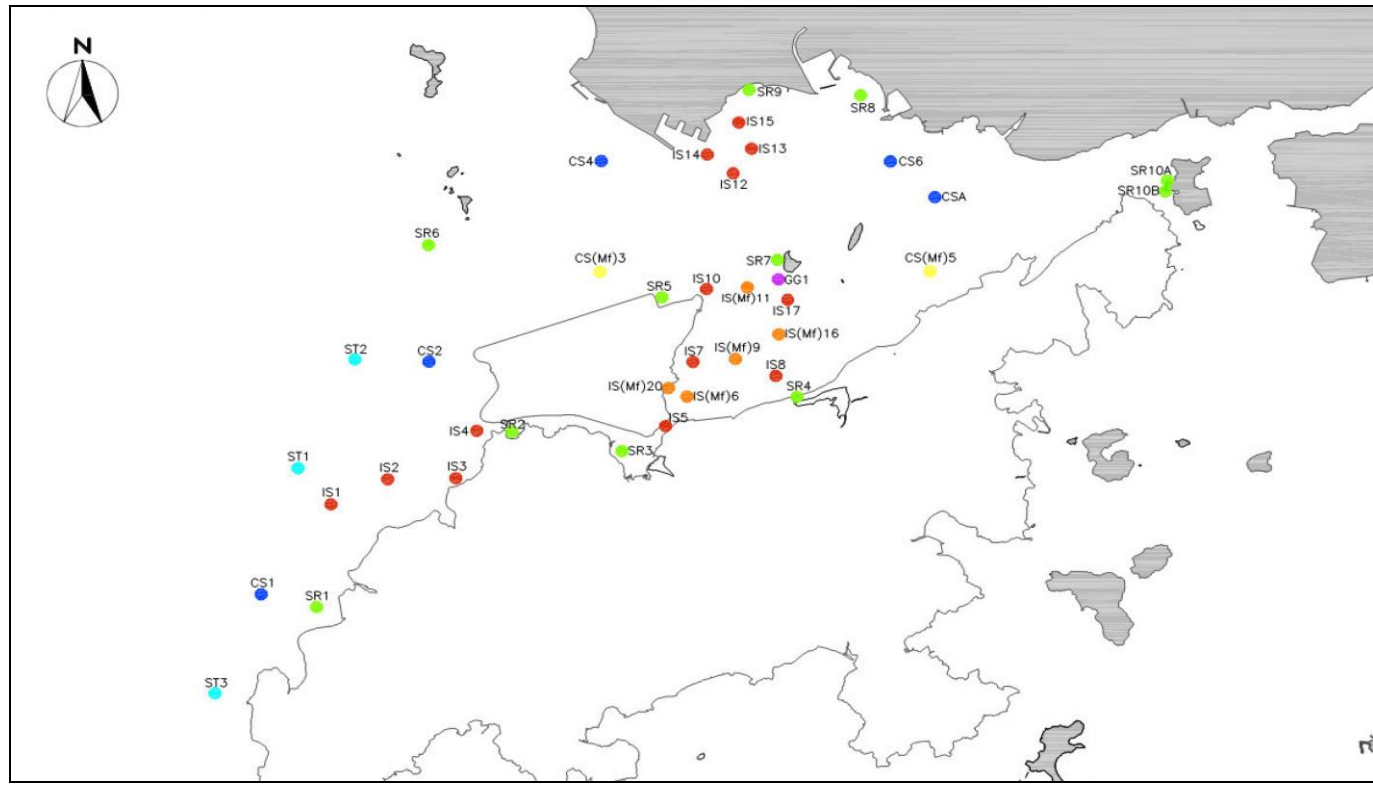
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.


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 was not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee


Title : ET Leader

Date : 30 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

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.: 032

Date of Notification: 6 December 2012

Works Inspected: Data collected from water sampling works on 26 November 2012 and the test report was issued on 3 December 2012

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	IS5	DA	23.5 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 9.18 x 120% = 11.0 mg/L for mid flood on 26-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 9.18 x 130% = 11.9 mg/L for mid flood on 26-Nov-2012)	11.4	<u>15.0</u>
SS	IS(Mf)6	DA			39.9	<u>28.5</u>
SS	IS7	DA			14.9	<u>23.5</u>
SS	IS(Mf)9	DA			24.4	<u>12.2</u>
SS	SR3	DA			11.6	<u>11.8</u>
SS	SR4	DA			9.5	<u>18.1</u>

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 26 November 2012, exceedances of the LL at station IS5, IS(Mf)6, IS7, IS(Mf)9, SR3 and SR4 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. No major marine works were carried out near the monitoring stations. Silt curtains maintenance work was being carried out during the sampling period.
2. The ranges of suspended solid at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR3 and SR4 during the baseline monitoring are shown as below.

Station	Range of Suspended Solid(mg/L) Mid-Flood Tide	
IS5	7.0	to 23.7
IS(Mf)6	8.5	to 35.0
IS7	7.8	to 34.0
IS(Mf)9	7.3	to 26.0
SR3	7.6	to 28.0
SR4	5.6	to 24.5

The measured value during mid-flood tide at stations IS5, IS(Mf)6, IS7, IS(Mf)9, SR3 and SR4 were within the ranges of suspended solid level recorded during the baseline monitoring.

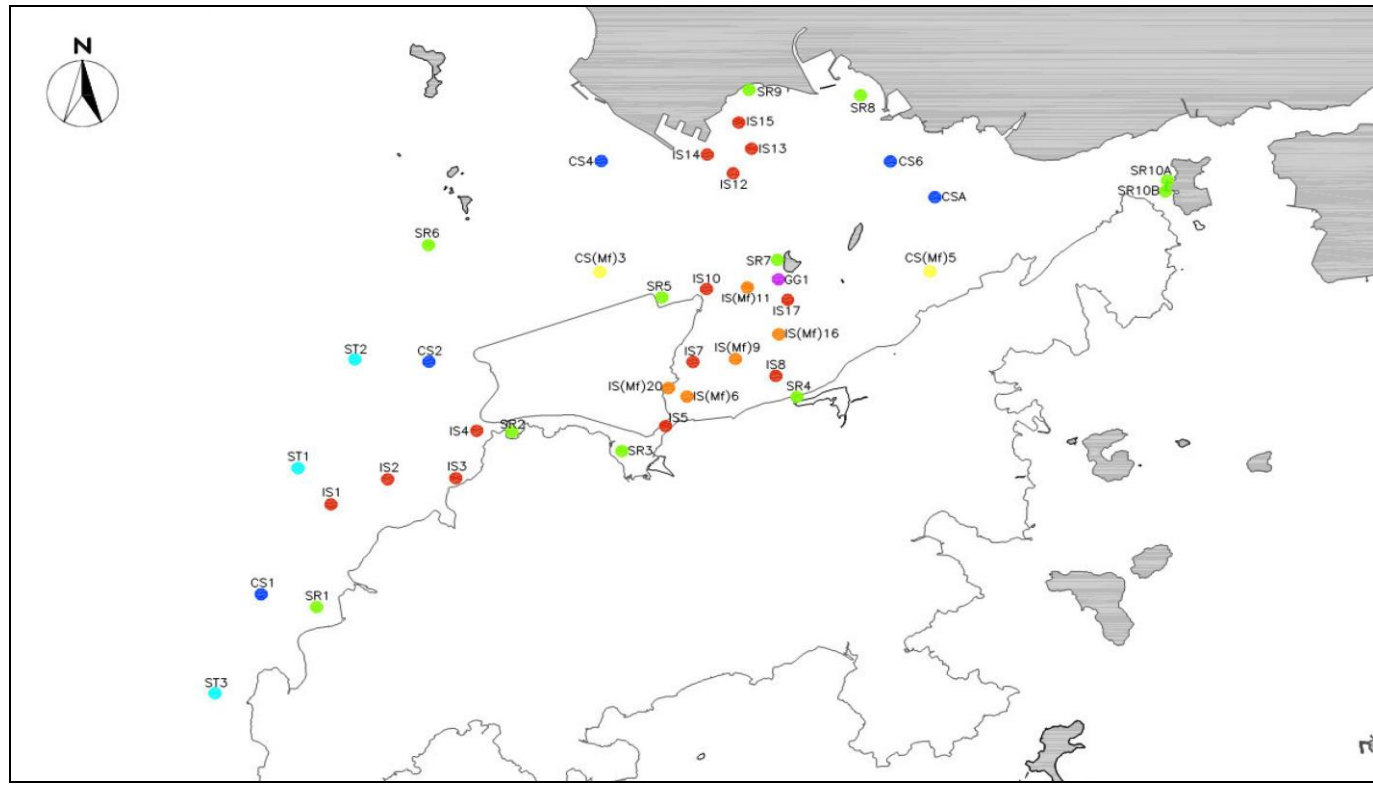
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.


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 was not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee


Title : ET Leader
Date : 6 December 2012

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.: 033

Date of Notification: 6 December 2012

Works Inspected: Data collected from water sampling works on 29 November 2012 and the results were issued on 30 November 2012

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 (NTU)	LL (NTU)	MEASURED AT MID-EBB TIDE (NTU)	MEASURED AT MID-FLOOD TIDE (NTU)
TURB	IS5	DA	27.5 or 120% of upstream control station's turbidity at the same tide of the same day (i.e. CS2: 8.75 x 120% =10.5 for mid ebb on 29-Nov-2012 AND CS(Mf)5: 13.17 x 120% =15.8 for mid flood on 29-Nov-2012)	47.0 or 130% of upstream control station's turbidity at the same tide of the same day (i.e. CS2: 8.75 x 130% =11.4 for mid ebb on 29-Nov-2012 AND CS(Mf)5: 13.17 x 130% =17.1 for mid flood on 29-Nov-2012)	<u>13.1</u>	9.3
TURB	IS(Mf)6	DA			<u>13.8</u>	17.1
TURB	IS7	DA			<u>12.2</u>	11.3
TURB	IS8	DA			<u>10.8</u>	<u>20.5</u>
TURB	IS(Mf)9	DA			<u>14.0</u>	<u>19.2</u>
TURB	IS10	DA			<u>16.4</u>	<u>20.6</u>
TURB	SR3	DA			<u>13.5</u>	10.3
TURB	SR4	DA			<u>11.3</u>	15.7
TURB	SR5	DA			10.1	17.1

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 29 November 2012, exceedances of AL at stations IS8 and SR4 and exceedances of LL at stations IS5, IS(Mf)6, IS7, IS(Mf)9, IS10 and SR3 were recorded during mid-ebb tide. The exceedances of AL at stations IS(Mf)6 and SR5 and exceedances of LL at stations IS8, IS(Mf)9 and IS10 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reason:

1. No major marine works were carried out near the monitoring stations. The vessel maintenance work was being carried out during the sampling period.
2. The ranges of turbidity at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10, SR3, SR4 and SR5 during the baseline monitoring are shown as below

Station	Range of Turbidity(NTU) Mid-Ebb Tide		Range of Turbidity(NTU) Mid-Flood Tide	
IS5	5.8	to 19.2	5.7	to 21.4
IS(Mf)6	3.3	to 21.7	5.3	to 20.9
IS7	3.4	to 20.0	5.0	to 19.4
IS8	4.0	to 12.2	4.5	to 24.5
IS(Mf)9	2.7	to 17.0	3.4	to 22.6
SR3	4.6	to 65.7	7.7	to 19.7
SR4	5.2	to 18.9	5.0	to 20.6
IS10	6.7	to 14.7	8.4	to 20.8
SR5	5.2	to 12.4	7.1	to 30.9

The measured values at stations IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10, SR3, SR4 and SR5 were within the ranges of turbidity during baseline monitoring.

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

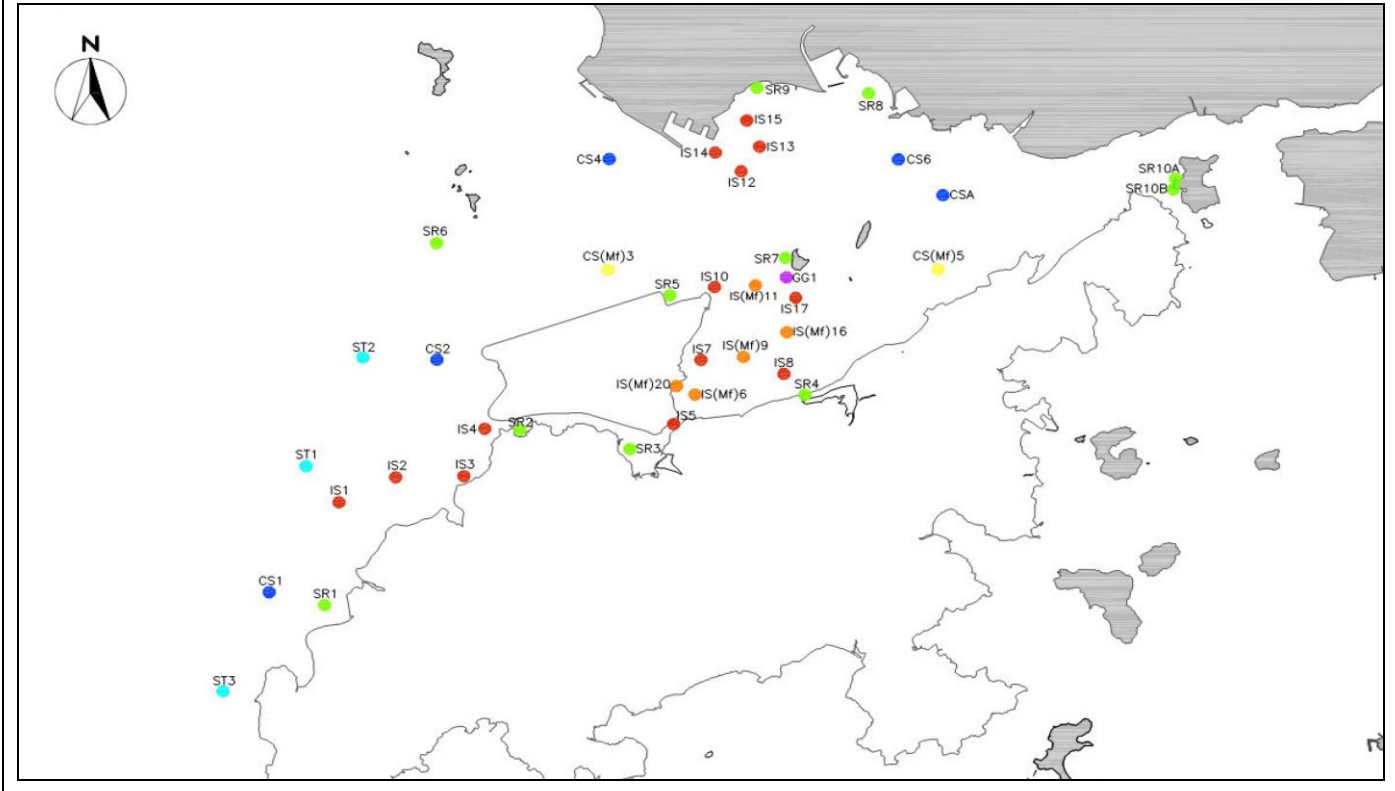
As such, the turbidity levels are considered to be attributed to other external factors such as sea condition, rather than the

contract works.

Actions taken/ to be taken:

As the turbidity 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 : 6 December 2012

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.: 034

Date of Notification: 7 December 2012

Works Inspected: Data collected from water sampling works on 29 November 2012 and the test report was issued on 6 December 2012

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 or 120% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 12.73 x 120% = 15.3 mg/L for mid flood on 26-Nov-2012)	34.4 or 130% of upstream control station's suspended solid at the same tide of the same day (i.e. CS(Mf)5: 12.73 x 130% = 16.6 mg/L for mid flood on 26-Nov-2012)	13.1	<u>24.0</u>
SS	IS8	DA			7.8	<u>22.8</u>
SS	IS(Mf)9	DA			11.0	<u>19.5</u>
SS	IS10	DA			12.9	<u>23.4</u>
SS	SR4	DA			9.9	<u>15.9</u>
SS	SR5	DA			7.4	<u>18.2</u>

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 29 November 2012, an exceedance of the AL at station SR4 and exceedances LL at stations IS(Mf)6, IS8, IS(Mf)9, IS10 and SR5 were recorded during mid-flood tide. The exceedances have been investigated and are considered unlikely to be related to contract works due to the following reasons:

1. No major marine works were carried out near the monitoring stations. Vessel maintenance work was being carried out during the sampling period.
2. The ranges of suspended solid at stations IS(Mf)6, IS8, IS(Mf)9, IS10, SR4 and SR5 during the baseline monitoring are shown as below.

Station	Range of Suspended Solid(mg/L) Mid-Flood Tide		
IS(Mf)6	8.5	to	35.0
IS8	5.8	to	31.3
IS(Mf)9	7.3	to	26.0
IS10	7.2	to	16.0
SR4	5.6	to	24.5
SR5	6.5	to	31.2

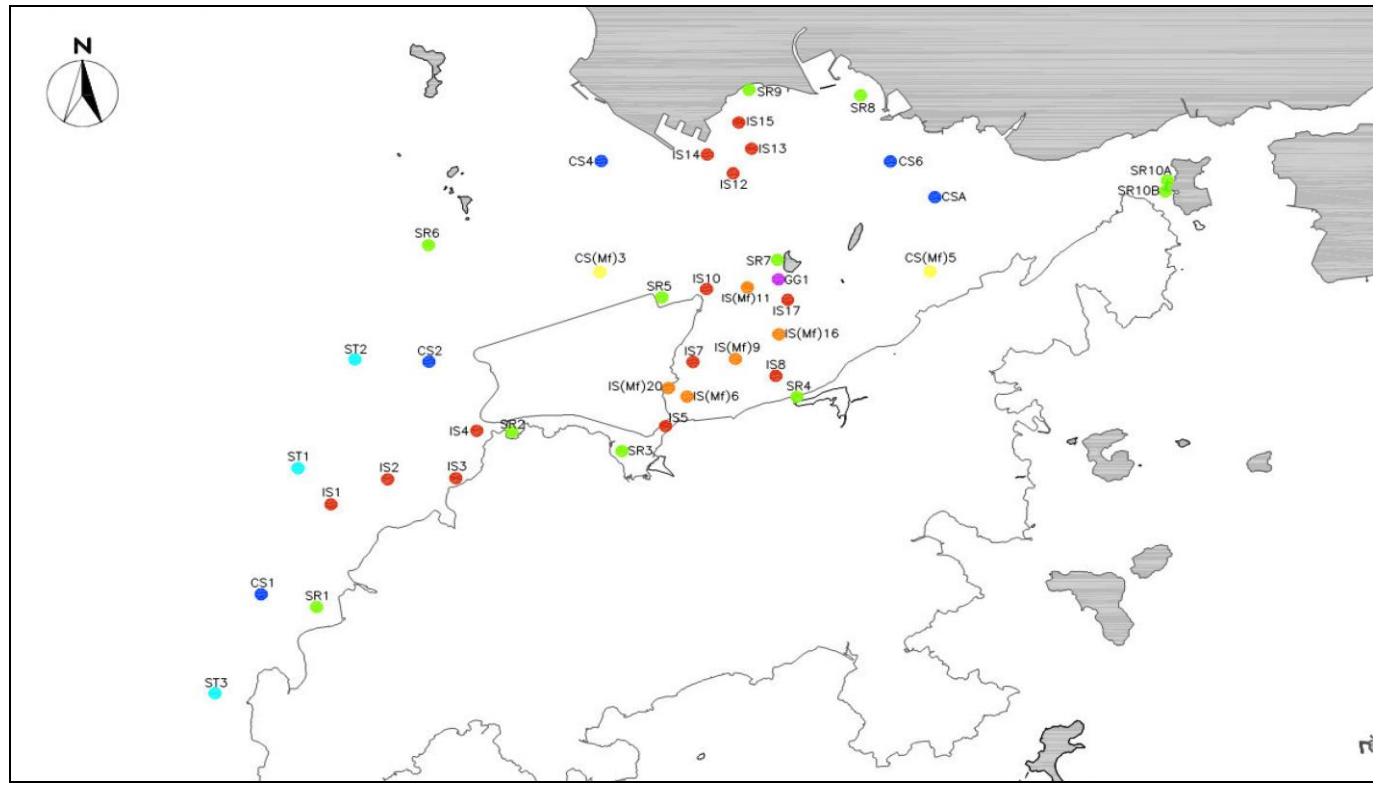
The measured value during mid-flood tide at stations IS(Mf)6, IS8, IS(Mf)9, SR4 and SR5 were within the ranges of suspended solid level recorded during the baseline monitoring..


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 was not related to contract works, no immediate actions are considered necessary.

Location Plan:



Reviewed by : Claudine Lee


Title : ET Leader

Date : 7 December 2012

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.: 035
Date of Notification: 7 December 2012				
Works Inspected: Not Applicable				
Monitoring Location: Not Applicable				
Parameter: Noise				
Action & Limit Levels			Measured Level	
Time Period	Action Level	Limit Level	Time:	N/A (A noise complaint regarding the noise generated from power generator, engines from barges used for marine operation, cranes from the barges, engine from boats used for transportation of site staff and strong noise of metallic parts being thrown on the ground was received on 24 November 2012)
07:00–19:00 hrs Normal weekday	1 complaint	75 dB(A)	L _{eq(5min)} readings, dB(A)	
			L _{eq(15min)} dB(A) (façade measurement)	
Possible reason for Action or Limit Level Non-compliance:				
<p>According to the information provided by the Contractor, the construction works conducted on 24 November 2012 included removal of armour rock at zone 3C and rock filling at Zone 3B. A noise barrier has been provided for the generator since 21 November 2012. Noise shield has been installed for the engine and breaking system of a derrick barge to minimize the noise nuisance since 25 Nov 2012. According the information provided by the Contractor, construction activities undertaken on site on 24 November included breaking work for extending drainage using electric breaker (completed on 26 Nov), cleaning near site entrances and filling of cable manhole with sandbags. No metallic works were carried out during the date of complaint (24 November 2012).</p>				
Actions taken/ to be taken:				
<p>The Contractor has implemented mitigation measures to minimise the potential noise impacts. In addition, the Contractor has been reminded to enhance the maintenance of barges to avoid the generation of abnormal noise.</p>				

Reviewed by : Claudine Lee

Title : ET Leader



Date : 7 December 2012

Copied to : Supervising Officer, IEC, EPD, Contractor