

**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:

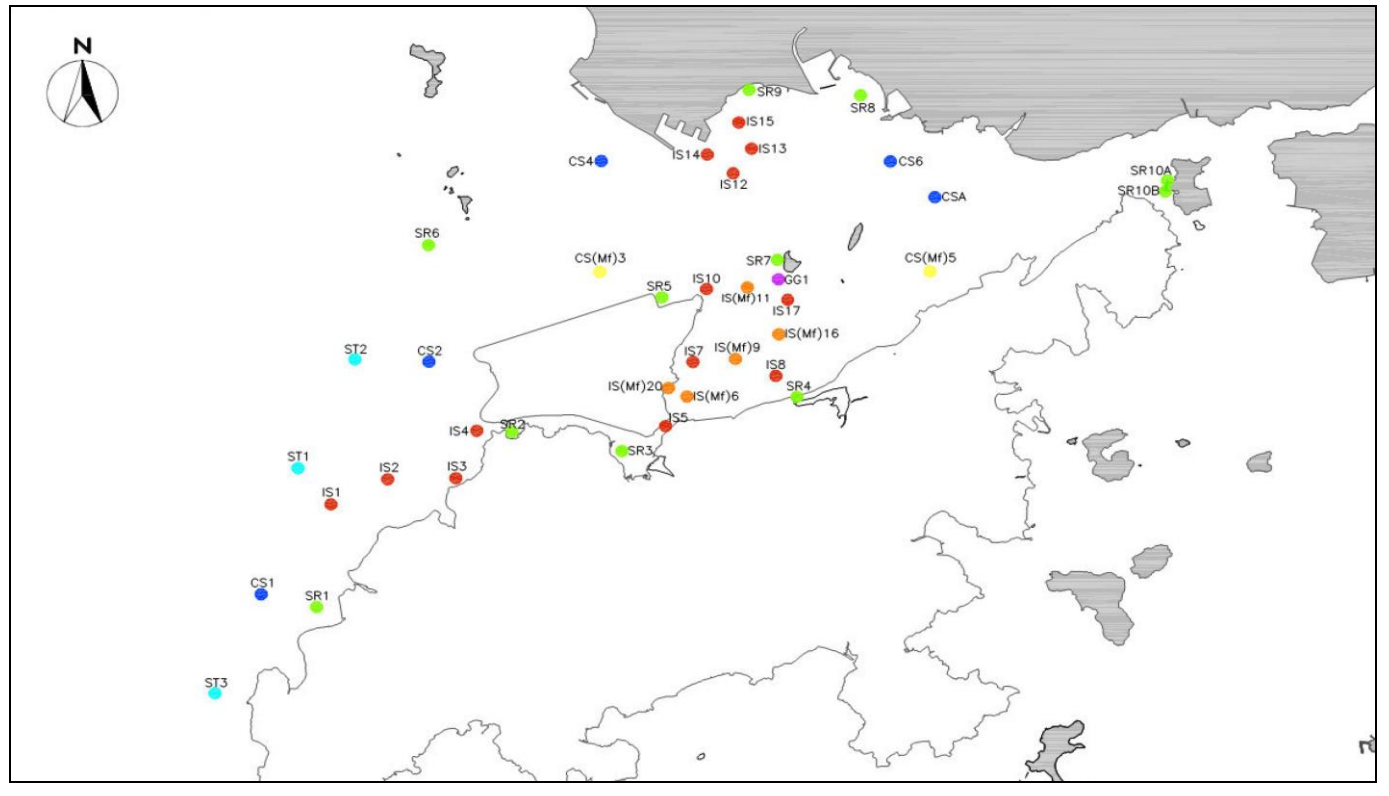
1. No major marine works but only silt curtain installation works were being carried out during the sampling period.
2. The measured turbidity level at control station CS(Mf)5 was higher than the Action Level.
3. There were no specific activities recorded during the monitoring period that would cause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

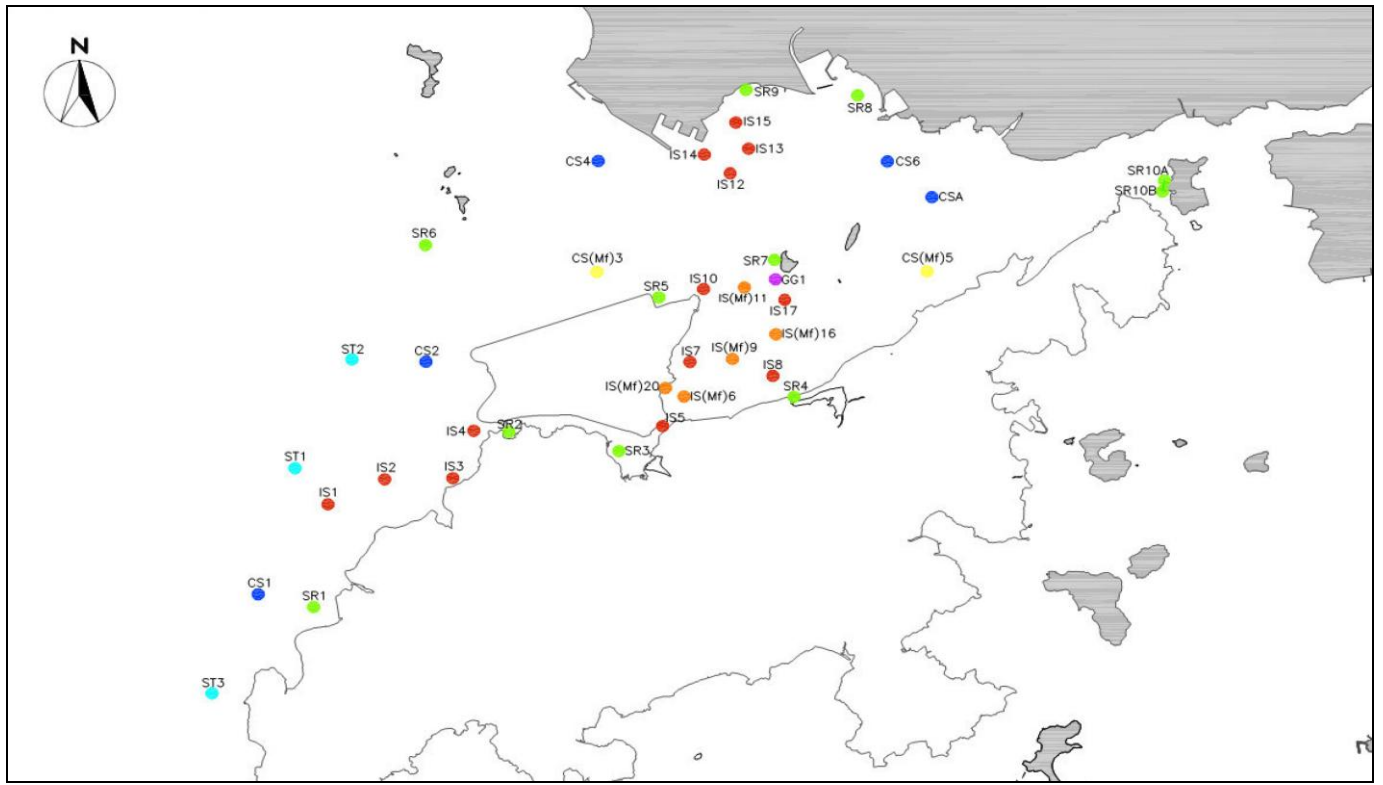
1. No major marine works but only silt curtain installation works were being carried out during the sampling period.
2. The measured suspended solid level at control station CS(Mf)5 was higher than the Action Level.
3. There were no specific activities recorded during the monitoring period that would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

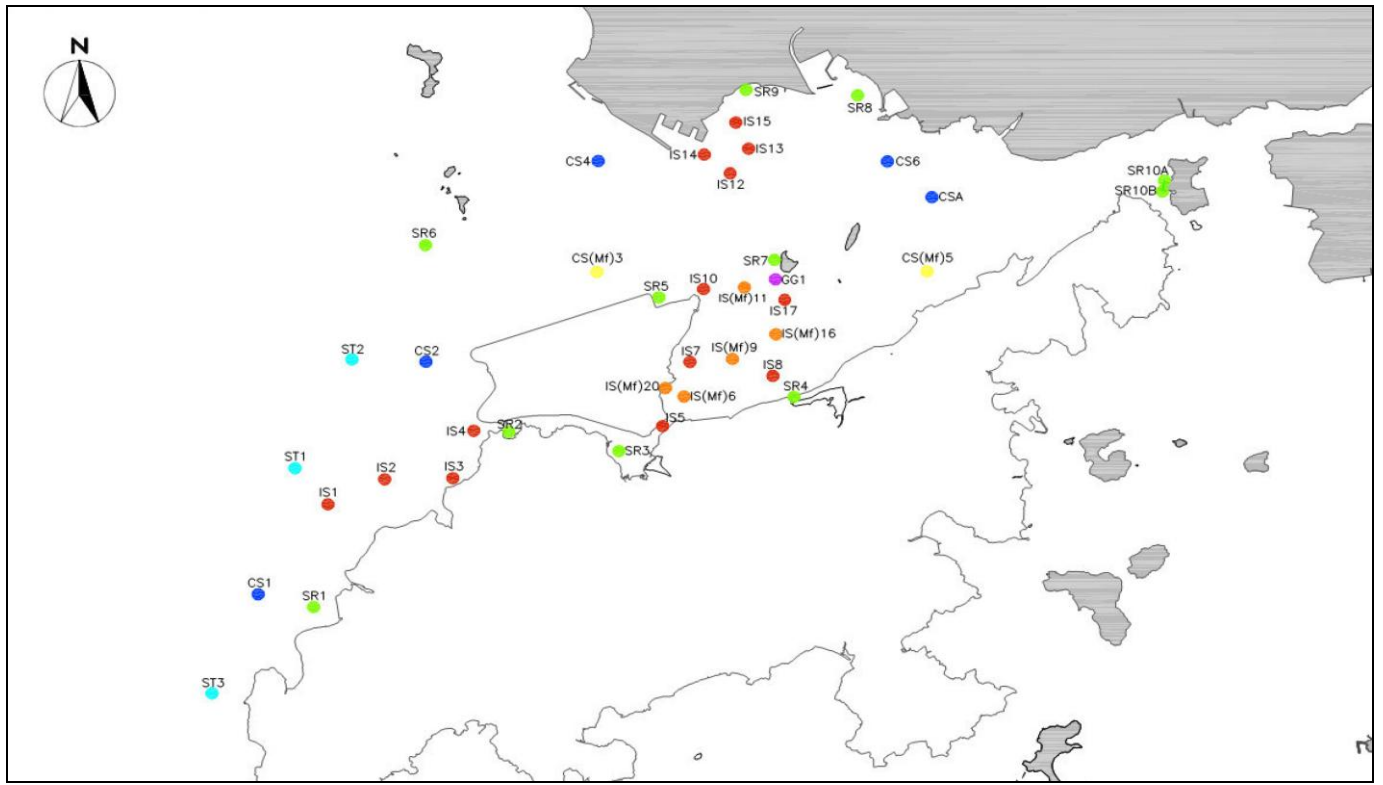
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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.

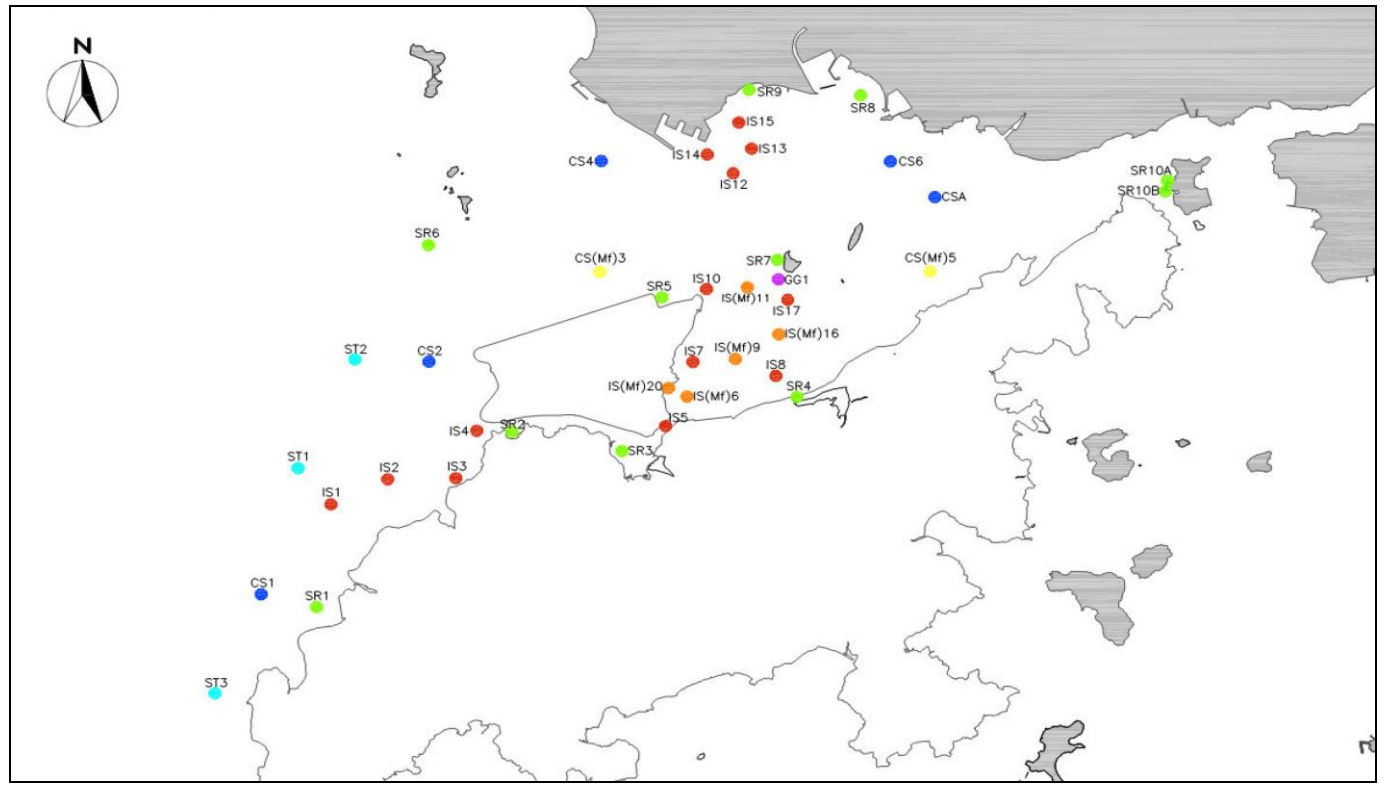
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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	to	20.9
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.

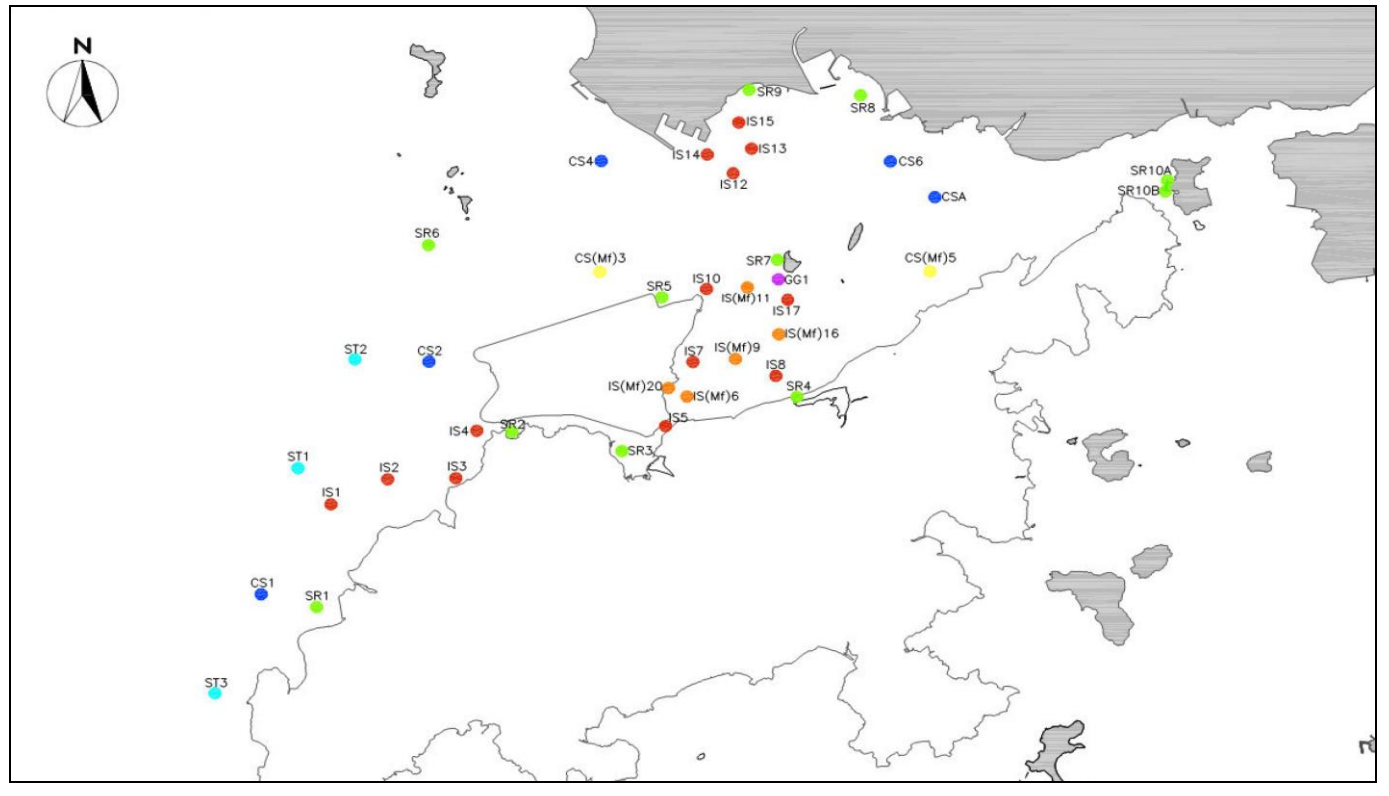
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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.

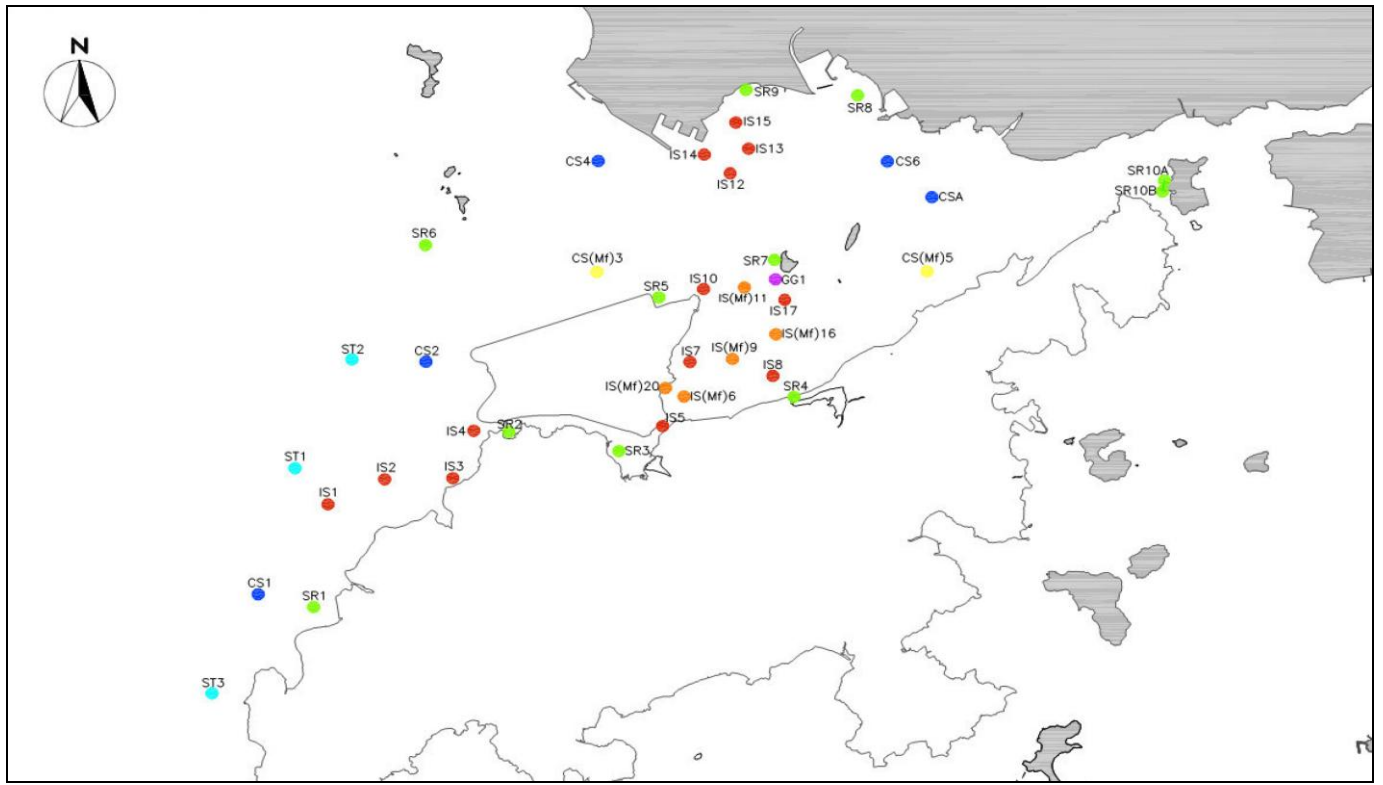
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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.

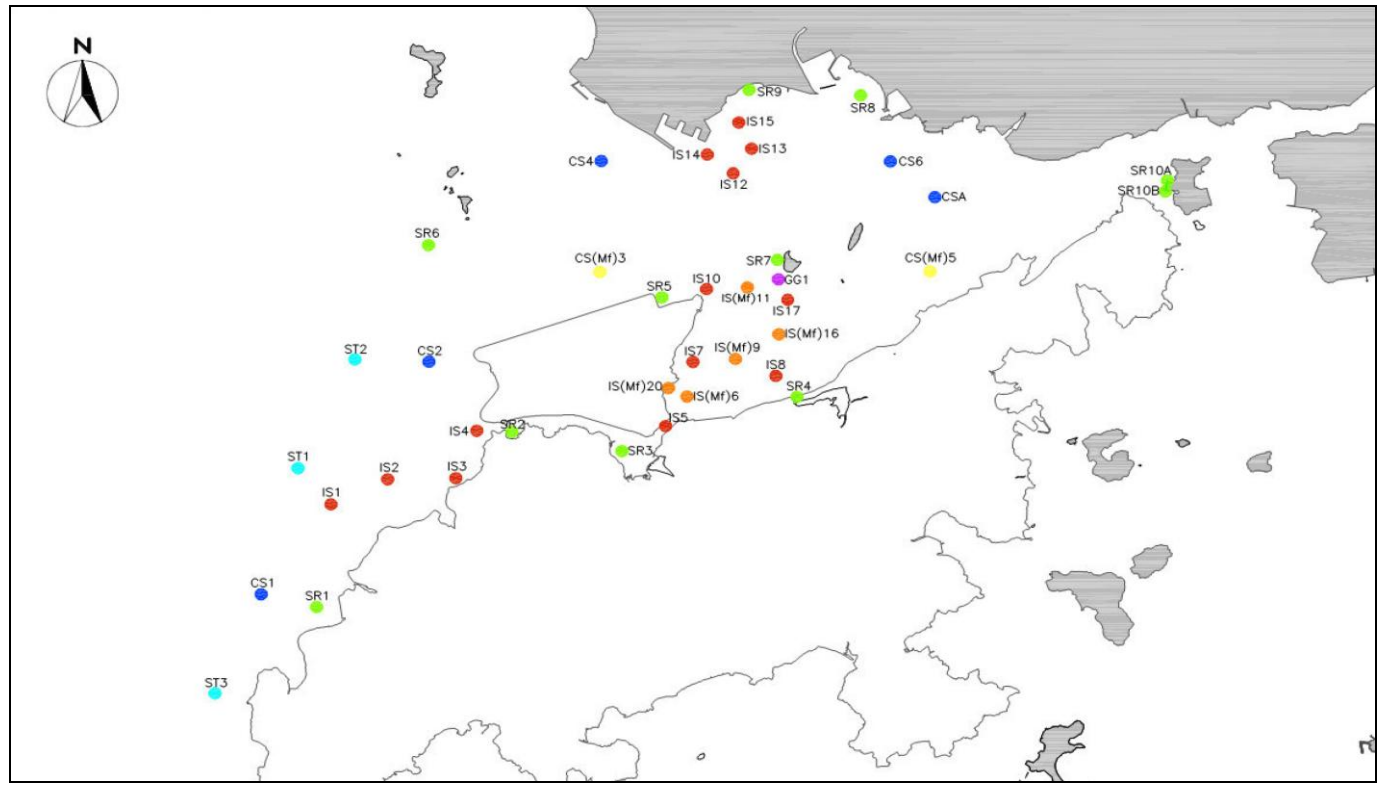
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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	
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.

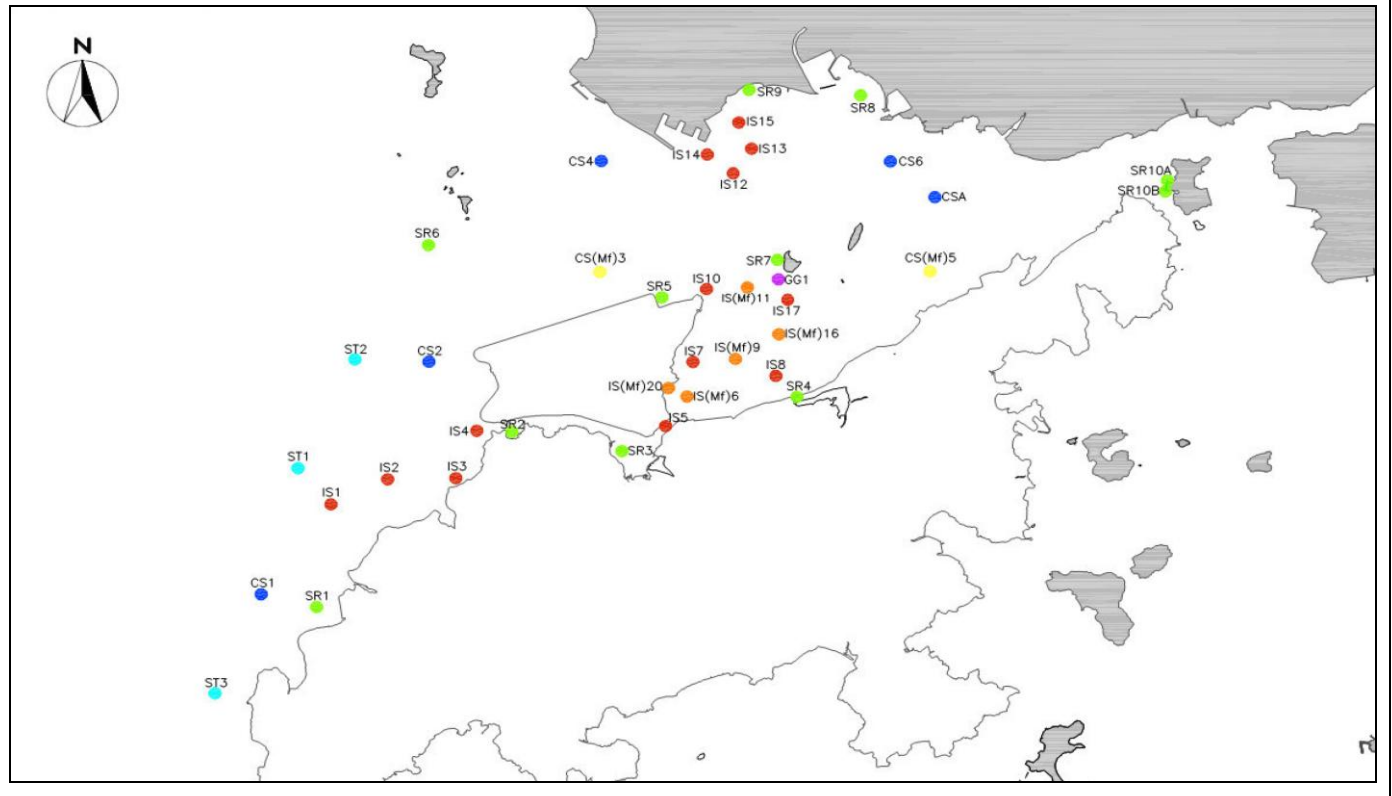
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results..

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	<u>12.2</u>
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.

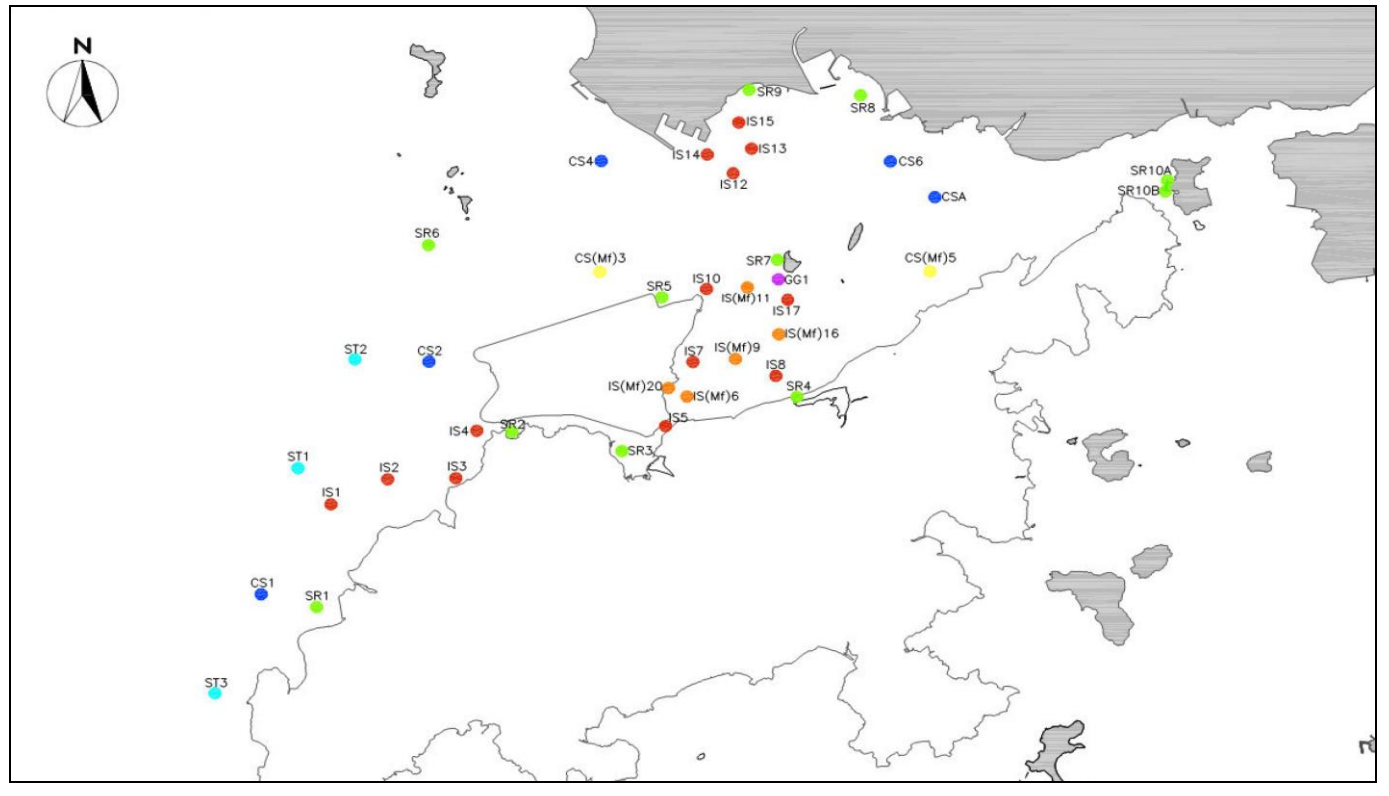
- There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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	<i><u>19.7</u></i>
SS	SR3	DA			8.8	<i>18.6</i>
SS	SR4	DA			8.1	<i><u>22.9</u></i>

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:

1. 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.
2. 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.

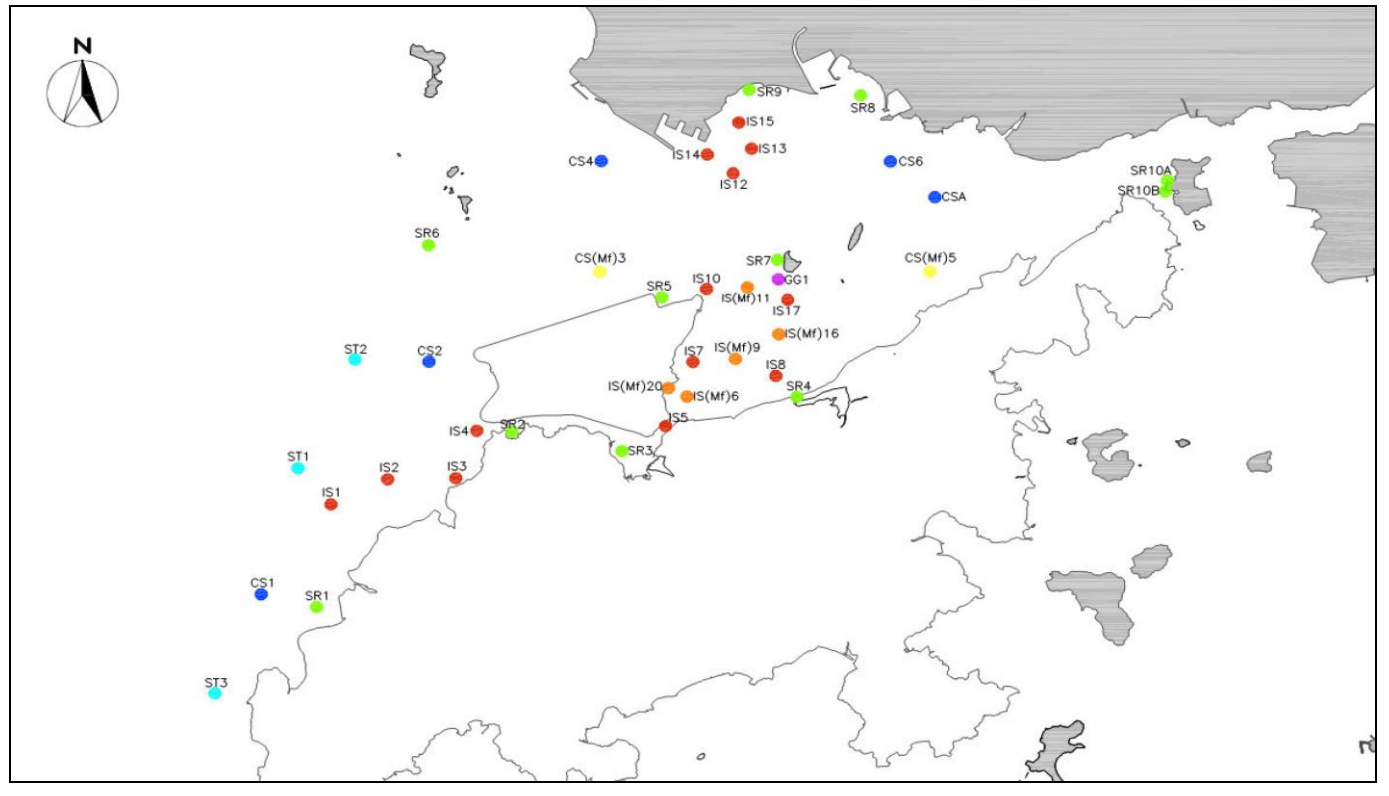
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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 : 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:

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 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.

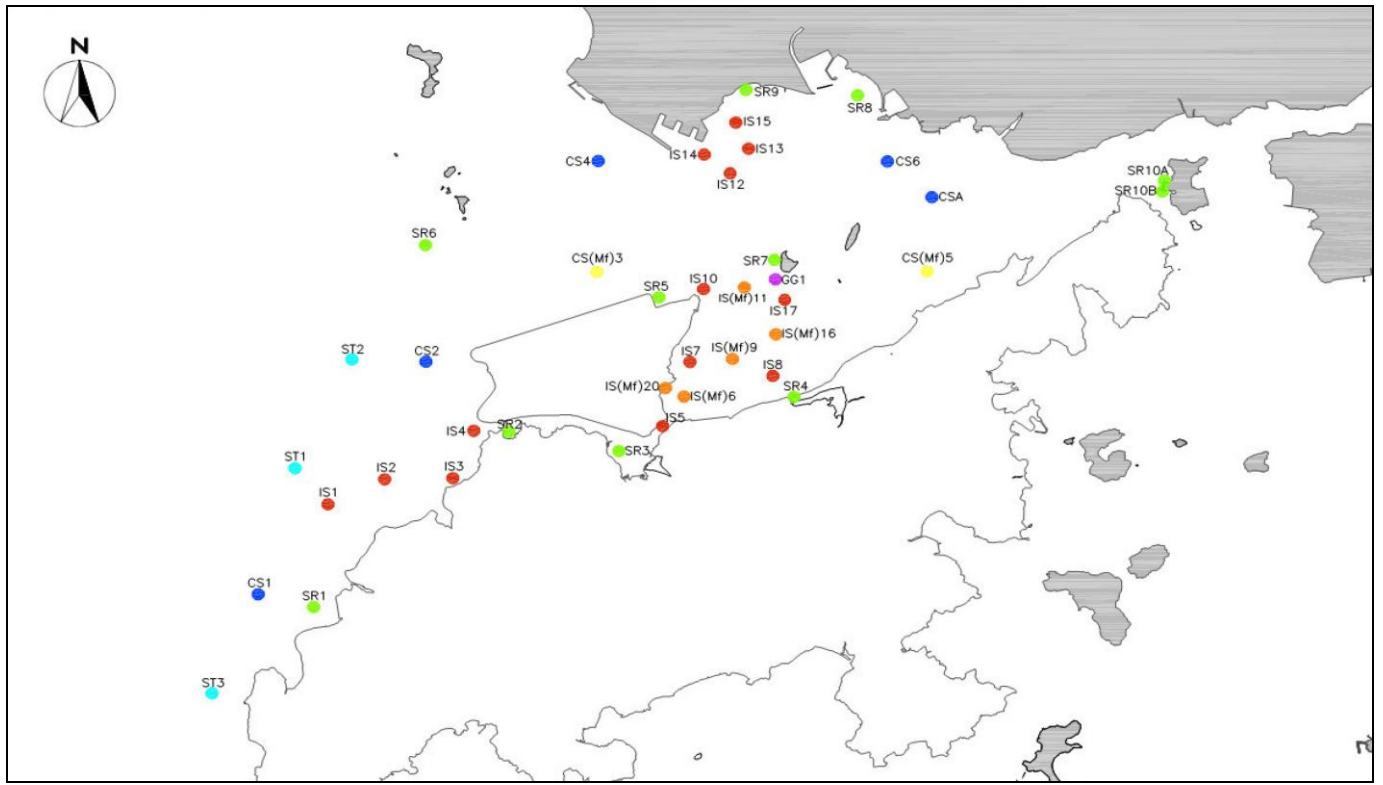
3. There were no specific activities recorded during the monitoring period that would cause any significant impacts on the monitoring results.

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 : 9 November 2012

Copied to : Supervising Officer, IEC, EPD, Contractor

Complaint/ Enquiry Received*	
Date:	22 Oct 2012 (Monday)
Time:	16:41
From:	Mr T. T. NG of EPD
Via:	E-mail ttng@epd.gov.hk
Complainant/ Enquirer*:	
Name:	Undisclosed
Tel:	Undisclosed
Address:	Undisclosed
E-mail:	Undisclosed
Complaint/Enquiry*:	
Date of complaint/ enquiry:	22 October 2012 (Monday, non-public holiday / public holiday)
Time of complaint/ enquiry:	10:25
Media:	Dust Noise Water Quality Other
Description:	An e-mail complaint was received from EPD on 22 October 2012, regarding the potential discharge of effluent into marine water in the vicinity of the construction site for the Hong Kong-Zhuhai-Macao Bridge project. The complainant also suspected that the pollutant would be oil spill.
Investigation Result & Response:	
IEC and SO/SOR notified on:	22 October 2012
Result of investigation:	
Based on the photos provided by the complainant and the information from the Contractor, the observation was not likely due to effluent discharge or oil spill. The pelican barge as shown in the photos provided on 24 Oct 2012 (Photos were taken at 12:00pm on 23 Oct 2012) does not belong to this Contract.	
Recommendations/ mitigation measures/ actions if necessary:	
As the observation is not related to this Contract. No follow up action is required. However the Contractor was reminded to implement necessary mitigation measures properly, and undertake regular environmental inspection and maintenance of machinery to avoid environmental pollution.	

Reviewed by : Claudine Lee

Title : ET Leader



Date : 31 October 2012

Copied to : Supervising Officer, IEC, EPD, Contractor