Hong Kong- Zhuhai- Macao Bridge

Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

**Notifications of Environmental Quality Limits Exceedances** 

Date of Notification: 10 October 2017 Date of Investigation Report: 20 October 2017

Notification No.: 20171002DO\_v1

Works Inspected: Data collected from water sampling works on 2 October 2017 and the results were issued on 10 October

2017

Monitoring Location: Water Quality Monitoring Station

Parameter: Dissolved Oxygen (DO)/ Suspended Solid (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)	
	SR10A*	Bottom	Surface and	Surface and Middle 4.2	4.6	4.5	
DO	SR10B(N)*	Surface and Middle	Middle 5.0 Bottom 4.7	5.0	(except 5 mg/L for	5.4	<u>4.7</u>
	SR10B(N)*	Bottom		FCZ) Bottom 3.6	5.1	4.6	

Notes:

AL means Action Level.

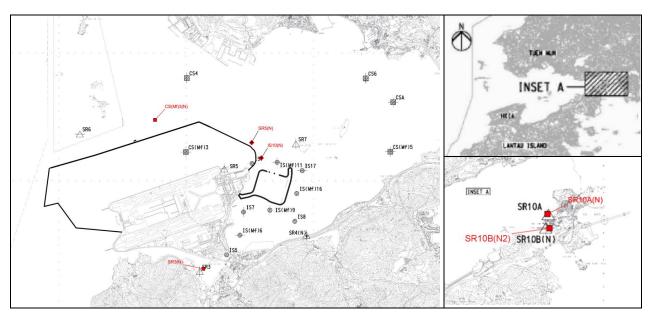
LL means Limit Level.

**Bold** means AL exceedances.

**Bold with underline** means LL exceedances.

<sup>\*</sup> Monitoring stations SR3, SR10A and SR10B(N) were not available for water sampling due to safety reason, the monitoring stations were changed to tentative coordination.

On 2 October 2017, one AL exceedance of DO at SR10A was recorded during mid-ebb tide, two AL exceedances of DO at SR10A and SR10B(N) were recorded during mid-flood tide and one LL exceedance of DO at SR10B(N) was recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 2 October 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

### Actions taken/ to be taken:

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader

\_\_\_\_\_\_ Date : \_\_\_\_\_\_ 20 October 2017

Hong Kong- Zhuhai- Macao Bridge

Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

**Notifications of Environmental Quality Limits Exceedances** 

Date of Notification: 12 October 2017 Date of Investigation Report: 20 October 2017

Notification No.: 20171004DO\_v1

Works Inspected: Data collected from water sampling works on 4 October 2017 and the results were issued on 9 October

2017

Monitoring Location: Water Quality Monitoring Station

Parameter: Dissolved Oxygen (DO)/ Suspended Solid (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)
	SR10A*#	Surface and Middle		Surface and	<u>4.7</u>	<u>4.5</u>
<b>D</b> O	SR10A*#	Bottom	Surface and Middle	Middle 4.2	4.6	4.3
DO		mg/L for FCZ) Bottom	4.8	<u>4.5</u>		
	SR10B(N)*	Bottom		3.6	4.9	4.5

Notes:

AL means Action Level.

LL means Limit Level.

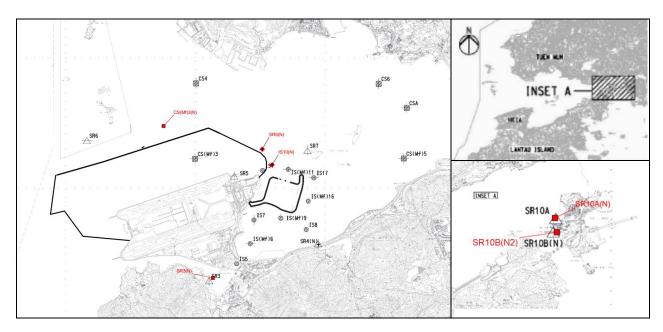
**Bold** means AL exceedances.

**Bold with underline** means LL exceedances.

<sup>\*</sup> Monitoring stations SR3, SR10A and SR10B(N) were not available for water sampling due to safety reason, the monitoring stations were changed to tentative coordination.

<sup>#</sup> Location was changed due to fishing net installed in the vicinity (22°21.1165'N; 114°03.1185'E)

On 4 October 2017, one AL exceedance of DO at SR10A was recorded during mid-ebb tide, two AL exceedances of DO at SR10A and SR10B(N) were recorded during mid-flood tide, two LL exceedances of DO at SR10A and SR10B(N) were recorded during mid-ebb tide and two LL exceedances of DO at SR10A and SR10B(N) were recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 4 October 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

## Actions taken/ to be taken:

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader

Date: 20 October 2017

Hong Kong- Zhuhai- Macao Bridge

Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

**Notifications of Environmental Quality Limits Exceedances** 

Date of Notification: 11 October 2017 Date of Investigation Report: 26 October 2017

Notification No.: 20171006DO\_v2

Works Inspected: Data collected from water sampling works on 6 October 2017 and the results were issued on 11 October

2017

Monitoring Location: Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID- EBB TIDE (mg/L)	MEASURED AT MID- FLOOD TIDE (mg/L)
DO	SR10B(N)*	Surface and Middle	Surface and Middle 5.0 Bottom 4.7 Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	<u>4.9</u>	<u>4.5</u>	
DO	SR10B(N)*	Bottom		FCZ) Bottom	5.0	4.6

Notes:

AL means Action Level.

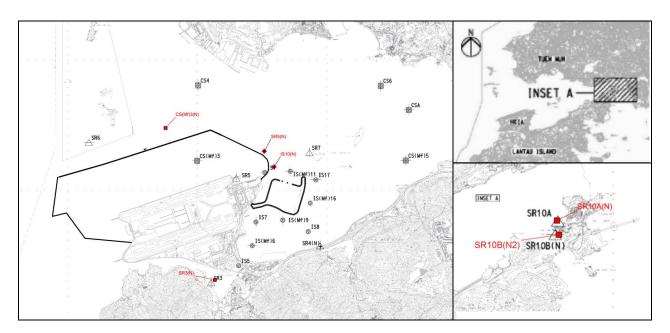
LL means Limit Level.

**Bold** means AL exceedances.

**Bold with underline** means LL exceedances.

<sup>\*</sup> Monitoring stations SR3, SR10A and SR10B(N) were not available for water sampling due to safety reason, the monitoring stations were changed to tentative coordination.

On 6 October 2017, one AL exceedance of DO at SR10B(N) was recorded during mid-flood tide, one LL exceedance of DO at SR10B(N) was recorded during mid-ebb tide and one LL exceedance of DO at SR10B(N) was recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 6 October 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

### Actions taken/ to be taken:

As the exceedances were not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Reviewed by : Keith Chau Title : ET Leader

Date: 26 October 2017

Hong Kong- Zhuhai- Macao Bridge

Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

**Notifications of Environmental Quality Limits Exceedances** 

Date of Notification: 12 October 2017 Date of Investigation Report: 26 October 2017

Notification No.: 20171009DO\_v1

Works Inspected: Data collected from water sampling works on 9 October 2017 and the results were issued on 12 October

2017

Monitoring Location: Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID- EBB TIDE (mg/L)	MEASURED AT MID- FLOOD TIDE (mg/L)
DO	SR10B(N)*	Surface and Middle	Surface and Middle 5.0 Bottom 4.7	Surface and Middle 4.2 (except 5 mg/L for FCZ) Bottom 3.6	5.2	<u>4.8</u>

Notes:

AL means Action Level.

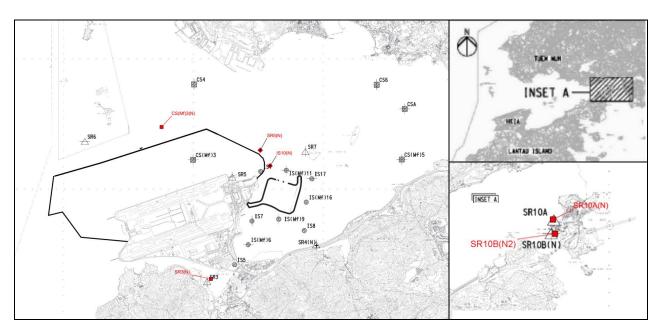
LL means Limit Level.

**Bold** means AL exceedances.

**Bold with underline** means LL exceedances.

<sup>\*</sup> Monitoring stations SR3, SR10A and SR10B(N) were not available for water sampling due to safety reason, the monitoring stations were changed to tentative coordination.

On 9 October 2017, one LL exceedance of DO at SR10B(N) was recorded during mid-flood tide.



As confirmed by the Contractor, there were no marine transportation and marine-based work on 9 October 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedance was not related to the Contract.

## Actions taken/ to be taken:

As the exceedance was not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Prepared by:	Evan Wong	Title: E	Environmental Team Representative
	S		
Signature:	77	Date: _2	26 October 2017
Checked by:	Keith Chau	Title: _E	Environmental Team Leader
	1.0		
	Keith		
Signature:		Date: 2	26 October 2017

Hong Kong- Zhuhai- Macao Bridge

Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

**Notifications of Environmental Quality Limits Exceedances** 

Date of Notification: 27 October 2017 Date of Investigation Report: 30 October 2017

Notification No.: 20171018SS

Works Inspected: Data collected from water sampling works on 18 October 2017 and the results were issued on 26 October

2017

Monitoring Location: Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID- EBB TIDE (mg/L)	MEASURED AT MID- FLOOD TIDE (mg/L)
SS	SR5(N)	Depth Average	23.5 and 120% (i.e. 10.6 for midebb/23.9 for midflood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 11.5 for midebb/25.9 for midflood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	9.5	30.1

Notes:

AL means Action Level.

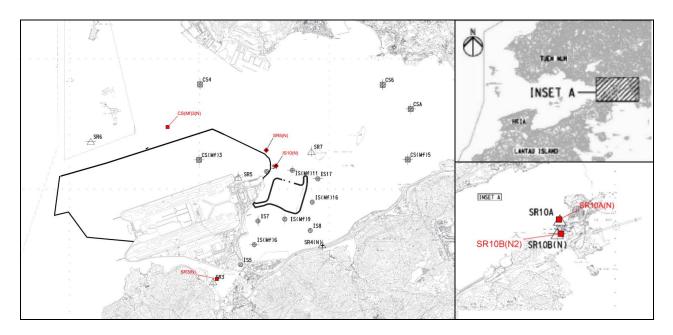
LL means Limit Level.

**Bold** means AL exceedances.

**Bold with underline** means LL exceedances.

Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4 Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA

On 18 October 2017, one AL exceedance of SS at SR5(N) was recorded during mid-flood tide.



As confirmed by the Contractor, there was no marine transportation and marine-based work on 18 October 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

#### Actions taken/ to be taken

As the exceedance was not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Prepared by:	Evan Wong	Title:	Environmental Team Representative
Signature:	4	Date:	30 October 2017
Checked by:	Keith Chau	Title:	Environmental Team Leader
Signature:	Keith	Date:	30 October 2017
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Hong Kong- Zhuhai- Macao Bridge

Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

**Notifications of Environmental Quality Limits Exceedances** 

Date of Notification: 31 October 2017

Date of Investigation Report: 3 November 2017

Notification No.: 20171020SS

Works Inspected: Data collected from water sampling works on 20 October 2017 and the results were issued on 30 October

2017

Monitoring Location: Water Quality Monitoring Station

Parameter: Dissolved Oxygen (DO)/ Suspended Solid (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)
	IS(Mf)11		23.5 and 120% (i.e. 20.8 for mid- ebb/20.1 for mid- flood) of	34.4 and 130% (i.e. 22.6 for mid- ebb/21.8 for mid- flood) of	11.9	26.1
SS	SR5(N)	Depth Average		upstream control station's SS at the same tide of	8.0	24.4
	SR7		the same tide of the same day	the same day and 10mg/L for WSD Seawater intakes	14.9	28.3

Notes:

AL means Action Level.

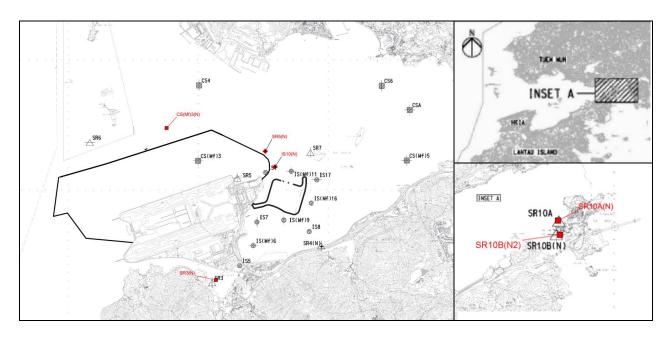
LL means Limit Level.

**Bold** means AL exceedances.

**Bold with underline** means LL exceedances.

Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4 Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA

On 20 October 2017, three AL exceedances of SS at IS(Mf)11, SR5(N) and SR7 were recorded during mid-flood tide.



As confirmed by the Contractor, there was no marine transportation and marine-based work on 20 October 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

#### Actions taken/ to be taken

As the exceedance was not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

Prepared by:		Evan Wong	Title:	Environmental Team Representative
Signature:		4	Date:	3 November 2017
Checked by:		Keith Chau	Title:	Environmental Team Leader
Signature:		Keith	Date:	3 November 2017
Copied to	:	Contractor, Engineer Representative and		

Hong Kong- Zhuhai- Macao Bridge

Hong Kong Boundary Crossing Facilities - Passenger Clearance Building

**Notifications of Environmental Quality Limits Exceedances** 

Date of Notification: 1 November 2017 Date of Investigation Report: 6 November 2017

Notification No.: 20171023SS

Works Inspected: Data collected from water sampling works on 23 October 2017 and the results were issued on 1 November

2017

Monitoring Location: Water Quality Monitoring Station

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

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

PARAM	STATION	DEPTH	AL (mg/L)	LL (mg/L)	MEASURED AT MID- EBB TIDE (mg/L)	MEASURED AT MID- FLOOD TIDE (mg/L)
SS	SR5(N)	Depth Average	23.5 and 120% (i.e. 14.8 for midebb/16.9 for midflood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 16.0 for midebb/18.3 for midflood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	10.4	26.3

Notes:

AL means Action Level.

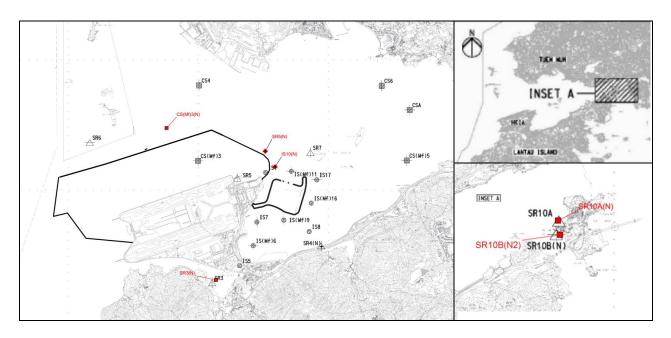
LL means Limit Level.

**Bold** means AL exceedances.

**Bold with underline** means LL exceedances.

Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4 Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA

On 23 October 2017, one AL exceedance of SS at SR5(N) was recorded during mid-flood tide.



As confirmed by the Contractor, there was no marine transportation and marine-based work on 23 October 2017. No site runoff within the Contract site has been observed. Therefore, it is concluded that the exceedances were not related to the Contract.

#### Actions taken/ to be taken:

As the exceedance was not related to the Contract, no immediate actions are required. However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

nvironmental Team Representative
November 2017
nvironmental Team Leader
November 2017
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