

## Incident Report on Action Level or Limit Level Non-compliance

Contract	Contract No. HY/2013/04										
D. C.M.	HZMB HKBCF – Infrastructure Works Stage II (Southern Portion)										
Ref. No.	E097										
Date	7 December 2018										
Time (hh:mm)	See below										
Monitoring Location		SR6									
Parameter	Water Quality – Suspended Solids (in mg/L)										
Action Level		See below									
Limit Level					See t	elow					
Measured Level	Action &	Limit Le	vel (AL & LL) /	Measured L	evel:		Measurement at	Measurement at			
	Param.	Unit	Station	Depth	Action Level	Limit Level 34.4 and 130%	Mid-Ebb Tide	Mid-Flood Tide			
	SS	mg/L	SR6	Depth Average	23.5 and 120% (i.e. 9.4 for mid-flood) of upstream control station's SS at the same tide of the same day	(i.e. 10.2 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	16.1	23.9			
	Sampling	Sampling Time:									
	IS7 IS8 IS(Mf) IS10(N IS(Mf): IS(Mf): IS17 SR3(N SR4(N	S(Mf)6									
	Bold wit Upstrea Upstrea	N) s: ans AL h unde m contr	12:31 0 13:21 0 13:26 0 exceedance rline means rol stations of	of mid-ebb of mid-floo	tide: CS(Mf)3(N) and CS4 d tide: CS(Mf)5, CS6 and CSA						
Possible reason for					1 no. AL exceed	lance of suspend	ed solids at	station SR6			
Action or Limit				_	d-flood tide.						
Level Non-	Contract No. HY/2013/01										
compliance	As confirmed with the RSS and ET of Contract No. HY/2013/01, there were no marine transportation and no marine-based works performed under the Contract after January 2018. No site runoff within the Contract site was observed. All wastewater generated from construction site which potentially contained organic matter was collected by the registered collector. No organic matter discharge/accumulation at active works area was observed on the date of exceedance. Therefore, it is concluded that the exceedance was not related to the Contract.										
	Contract No. HY/2013/02										
	ET o	of Co nula	ontract tion wa	No. Has obse	S, marine works IY/2013/02 configured at active well that the exceed	rmed that no or works areas on	rganic matte the date of	er discharge/ exceedance.			

#### Contract No. HY/2013/03

As confirmed with RSS, there were no marine-based works performed under the contract after October 2018. ET of Contract No. HY/2013/03 confirmed that no organic matter discharge/accumulation was observed at the works areas on the date of exceedance. Therefore, it is concluded that the exceedance was not related to the Contract.

#### Contract No. HY/2013/04

According to the Contractor of HY/2013/04, all marine-based segment deliveries were completed in January 2018 and no marine-based works were conducted under the contract on 7 December 2018. Furthermore, there was no visible observation of any discharge or accumulation of organic matter at the active works areas within HY/2013/04 site area on 7 December 2018.

HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspections on 5 December 2018 (between 10:20 and 10:30) and 13 December 2018 (between 10:10 and 10:30). There were no observations (including with respect to the appearance of the open waters) in relation to the same shoreline during both inspections. The silt curtain at Box Culvert D was inspected and was found to be structurally intact.

It was concluded that the exceedance was not due to HY/2013/04.

#### Contract No. HY/2014/05

This Contract did not involve any marine transportation or marine-based works. No site runoff within the Contract site was observed. Therefore, it is concluded that the exceedance was not related to the Contract.

## taken

## Actions taken / to be Contract No. HY/2013/01

Although the exceedance was considered not due to HY/2013/01, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

#### Contract No. HY/2013/02

Although the exceedance was considered not due to HY/2013/02, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

#### Contract No. HY/2013/03

Although the exceedance was considered not due to HY/2013/03, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

#### Contract No. HY/2013/04

Actions were taken under Event and Action Plan (EAP):

- 1. In situ measurement was repeated to confirm findings;
- 2. After considering the above-mentioned investigation results, it appears that it was unlikely that the exceedance was attributed to active construction activities of this Contract:
- 3. IEC, Contractor and ER were informed via email;
- 4. Monitoring data, all plant, equipment and Contractor's working methods were checked:
- 5. Since it is considered that the exceedance was unlikely to be contract related, as such, Actions 5-7 under the EAP are not considered applicable.
- However, the Contractor was also reminded to implement environmental

Environmental Monitoring and Audit

	mitigation	measures	in	accordance	with	Environmental	Mitigation
	Implementat	ion Schedul	e.				
	Contract No	. HY/2014/0	5				
	Although the	e exceedanc	e wa	s considered no	ot due t	to HY/2014/05, the	e Contractor
	1	(**)			water	quality mitigatio	n measures
	identified in	the EM&A	Manı	ual.			
Remarks	ET of HY/20	013/04 notif	ied th	e exceedance a	s follov	ws:	
	• 27 Dece	mber 2018 (	Notif	fication No. 20	181207	_NOE_r0)	

(Location Plan – please refer below)

Prepared by:

Gary Chow

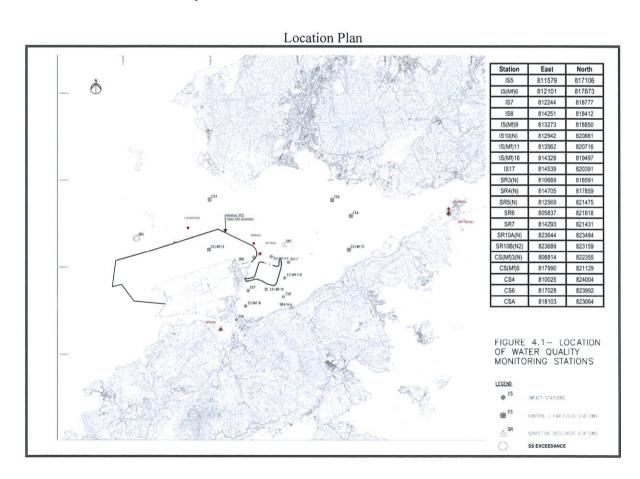
Designation:

Environmental Team Leader (Contract No. HY/2013/04)

Signature:

Date:

18 January 2019





## Incident Report on Action Level or Limit Level Non-compliance

Contract	Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion)									
Ref. No.	E098									
Date	12 December 2018									
Time (hh:mm)	See below									
Monitoring Location	IS8, SR4(N), IS(Mf)9, IS7									
Parameter	Water Quality – Suspended Solids (in mg/L)									
Action Level	See below									
Limit Level	See below									
Measured Level	Action &	Limit Le	vel (AL & LL) ,	/ Measured I	evel:			Г		
	Param.	Unit	Station	Depth	Action Level	Limit Level	Measurement at Mid-Ebb Tide	Measurement at Mid-Flood Tide		
	SS	mg/L	IS8	Depth Average	23.5 and 120% (i.e. 5.3 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 5.8 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	6.9	<u>37.4</u>		
	SS	mg/L	SR4(N)	Depth Average	23.5 and 120% (i.e. 5.3 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 5.8 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	4.6	28.7		
	ss	mg/L	IS(Mf)9	Depth Average	23.5 and 120% (i.e. 5.3 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 5.8 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	5.4	26.1		
	SS	mg/L	IS7	Depth Average	23.5 and 120% (i.e. 5.3 for mid-flood) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 5.8 for mid-flood) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	5.4	27.7		
	Sampling Time:									
	ISS	+	Mid-Ebb 14:53	Mid-Floo 12:39	d					
	IS(M	_	14:59	12:30						
	IS7		15:06	12:26						
	IS8 IS(M		15:19 15:12	12:11 12:17	_					
	IS10(		15:12	11:20	+					
	IS(Mf	)11	15:34	11:13						
	IS(Mf		15:38	11:51						
	IS1 SR3(	_	15:44 14:46	11:45 12:46	-					
	SR4(		15:23	12:06						
	SR5(		15:24	11:25						
	SR6 SR7		14:44 15:41	12:09 11:07	-					
	SR10A	_	16:35	10:51	-					
	SR10B	SR10B(N2) 16:39		10:55						
	Remarks: Bold means AL exceedance									
	F-11500 - 51		exceedance <u>rline</u> means		ance					
	Upstrea	Upstream control stations of mid-ebb tide: CS(Mf)3(N) and CS4								
I	Upstream control stations of mid-flood tide: CS(Mf)5, CS6 and CSA									



Possible reason for Action or Limit Level Noncompliance On 12 December 2018, 3 no. AL exceedances of suspended solids at stations SR4(N), IS(Mf)9 and IS7 and 1 no. LL exceedance at station IS8 were recorded during mid-flood tide.

#### Contract No. HY/2013/01

As confirmed with the RSS and ET of Contract No. HY/2013/01, there were no marine transportation and no marine-based works performed under the Contract after January 2018. No site runoff within the Contract site was observed. All wastewater generated from construction site which potentially contained organic matter was collected by the registered collector. No organic matter discharge/accumulation at active works area was observed on the date of exceedance. Therefore, it is concluded that the exceedances were not related to the Contract.

#### Contract No. HY/2013/02

As confirmed with RSS, marine works were completed on 10 September 2017. ET of Contract No. HY/2013/02 confirmed that no organic matter discharge/accumulation was observed at active works areas on the date of exceedance. Therefore, it is concluded that the exceedances were not related to the Contract.

#### Contract No. HY/2013/03

As confirmed with RSS, there were no marine-based works performed under the contract after October 2018. ET of Contract No. HY/2013/03 confirmed that no organic matter discharge/accumulation was observed at the works areas on the date of exceedance. Therefore, it is concluded that the exceedances were not related to the Contract.

#### Contract No. HY/2013/04

According to the Contractor of HY/2013/04, all marine-based segment deliveries were completed in January 2018 and no marine-based works were conducted under the contract on 12 December 2018. Furthermore, there was no visible observation of any discharge or accumulation of organic matter at the active works areas within HY/2013/04 site area on 12 December 2018.

HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspections on 5 December 2018 (between 10:20 and 10:30) and 13 December 2018 (between 10:10 and 10:30). There were no observations (including with respect to the appearance of the open waters) in relation to the same shoreline during both inspections. The silt curtain at Box Culvert D was inspected and was found to be structurally intact.

It was concluded that the exceedances were not due to HY/2013/04.

#### Contract No. HY/2014/05

This Contract did not involve any marine transportation or marine-based works. No site runoff within the Contract site was observed. Therefore, it is concluded that the exceedances were not related to the Contract.

# Actions taken / to be taken

#### Actions taken / to be Contract No. HY/2013/01

Although the exceedances were considered not due to HY/2013/01, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

#### Contract No. HY/2013/02

Although the exceedances were considered not due to HY/2013/02, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

## Contract No. HY/2013/03

Although the exceedances were considered not due to HY/2013/03, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

#### Contract No. HY/2013/04

Actions were taken under Event and Action Plan (EAP):

- 1. In situ measurement was repeated to confirm findings;
- After considering the above-mentioned investigation results, it appears that it was unlikely that the exceedances were attributed to active construction activities of this Contract;
- 3. EPD, IEC, Contractor and ER were informed via email;
- Monitoring data, all plant, equipment and Contractor's working methods were checked:
- 5. Since it is considered that the exceedances were unlikely to be contract related, as such, Actions 5-7 under the EAP are not considered applicable.

However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.

#### Contract No. HY/2014/05

Although the exceedances were considered not due to HY/2014/05, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

Remarks

ET of HY/2013/04 notified the exceedances as follows:

27 December 2018 (Notification No. 20181212 NOE r0)

(Location Plan – please refer below)

Prepared by:

Gary Chow

Designation:

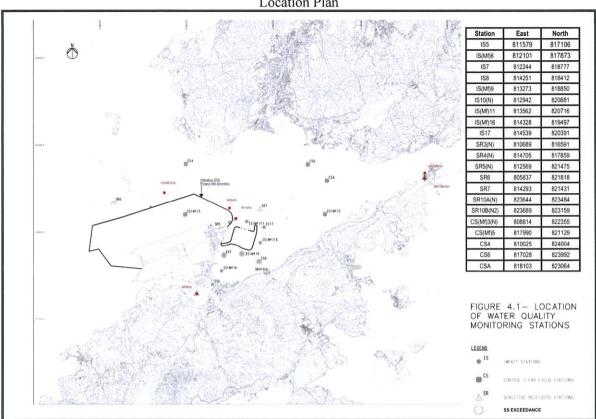
Environmental Team Leader (Contract No. HY/2013/04)

Signature:

Date:

18 January 2019

#### Location Plan



## Incident Report on Action Level or Limit Level Non-compliance

Contract	Contract No. HY/2013/04 HZMB HKBCF – Infrastructure Works Stage II (Southern Portion)										
Ref. No.	E099										
Date	10 December 2018										
Time (hh:mm)	See below										
Monitoring Location	SR6										
Parameter	Water Quality – Suspended Solids (in mg/L)										
Action Level	See below										
Limit Level	See below										
Measured Level	Action &	Limit Le	vel (AL & LL)	/ Measured L	evel:			Management			
Control of the Contro	Param.	Unit	Station	Depth	Action Level	Limit Level	Measurement at Mid-Ebb Tide	Measurement at Mid-Flood Tide			
	SS	mg/L	SR6	Depth Average	23.5 and 120% (i.e. 17.9 for mid-ebb) of upstream control station's SS at the same tide of the same day	34.4 and 130% (i.e. 19.4 for mid-ebb) of upstream control station's SS at the same tide of the same day and 10mg/L for WSD Seawater intakes	26.5	19.0			
	Samplin	Sampling Time:									
	ISS		Mid-Ebb 13:22	Mid-Flood 10:11							
	IS(Mf		13:28	10:05							
	IS7	_	13:34	09:57							
	IS8 IS(Mf		13:47 13:41	09:42 09:49	+						
	IS10(		14:06	09:19							
	IS(Mf)		14:12	09:13							
	IS(Mf)		14:08 14:14	09:22 09:13	-						
	SR3(I		13:16	10:18							
	SR4(I SR5(I	_	13:53 14:00	09:36 09:24	_						
	SRE		13:15	10:11							
	SR7		14:18	09:06	_						
	SR10A SR10B		15:02 15:08	08:23 08:29	-						
	Remarks				-						
	Bold means AL exceedance  Bold with underline means LL exceedance  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										
Possible reason for					1 no. AL exceed		ded solids at	station SR6			
					d-ebb tide.	To the second se					
Level Non-	Contract No. HY/2013/01										
compliance	As co	onfir	med w	ith the	RSS and ET of C	Contract No. HY	7/2013/01, tl	nere were no			
	As confirmed with the RSS and ET of Contract No. HY/2013/01, there was marine transportation and no marine-based works performed under the C										
	after January 2018. No site runoff within the Contract site was observed. All										
	wastewater generated from construction site which potentially contained organic										
	matter was collected by the registered collector. No organic matter										
	discharge/accumulation at active works area was observed on the date of										
	exceedance. Therefore, it is concluded that the exceedance was not related to the										
	Contract.										
	Contract No. HY/2013/02										
	As confirmed with RSS, marine works were completed on 10 September 2017. ET of Contract No. HY/2013/02 confirmed that no organic matter discharge/										
	<u>г</u> 1 О	1 (	muact	NU. II	11/2015/02 COIIII	imed that no of	game matte	of discharge/			



accumulation was observed at active works areas on the date of exceedance. Therefore, it is concluded that the exceedance was not related to the Contract.

#### Contract No. HY/2013/03

As confirmed with RSS, there were no marine-based works performed under the contract after October 2018. ET of Contract No. HY/2013/03 confirmed that no organic matter discharge/accumulation was observed at the works areas on the date of exceedance. Therefore, it is concluded that the exceedance was not related to the Contract.

#### Contract No. HY/2013/04

According to the Contractor of HY/2013/04, all marine-based segment deliveries were completed in January 2018 and no marine-based works were conducted under the contract on 12 December 2018. Furthermore, there was no visible observation of any discharge or accumulation of organic matter at the active works areas within HY/2013/04 site area on 12 December 2018.

HY/2013/04 site shoreline interfacing with open waters was inspected during ET's regular weekly site inspections on 5 December 2018 (between 10:20 and 10:30) and 13 December 2018 (between 10:10 and 10:30). There were no observations (including with respect to the appearance of the open waters) in relation to the same shoreline during both inspections. The silt curtain at Box Culvert D was inspected and was found to be structurally intact.

It was concluded that the exceedance was not due to HY/2013/04.

#### Contract No. HY/2014/05

This Contract did not involve any marine transportation or marine-based works. No site runoff within the Contract site was observed. Therefore, it is concluded that the exceedance was not related to the Contract.

#### Actions taken / to be Contract No. HY/2013/01 taken

Although the exceedance was considered not due to HY/2013/01, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

#### Contract No. HY/2013/02

Although the exceedance was considered not due to HY/2013/02, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

#### Contract No. HY/2013/03

Although the exceedance was considered not due to HY/2013/03, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.

#### Contract No. HY/2013/04

Actions were taken under Event and Action Plan (EAP):

- 1. In situ measurement was repeated to confirm findings;
- 2. After considering the above-mentioned investigation results, it appears that it was unlikely that the exceedance was attributed to active construction activities of this Contract;
- 3. IEC, Contractor and ER were informed via email;
- 4. Monitoring data, all plant, equipment and Contractor's working methods were checked;
- 5. Since it is considered that the exceedance was unlikely to be contract related, as

	such, Actions 5-7 under the EAP are not considered applicable.  However, the Contractor was also reminded to implement environmental mitigation measures in accordance with Environmental Mitigation Implementation Schedule.  Contract No. HY/2014/05  Although the exceedance was considered not due to HY/2014/05, the Contractor is reminded to implement all necessary water quality mitigation measures identified in the EM&A Manual.
Remarks	ET of HY/2013/04 notified the exceedances as follows:  3 January 2019 (Notification No. 20181210 NOE r0)

(Location Plan – please refer below)

Prepared by:

Gary Chow

Designation:

Environmental Team Leader (Contract No. HY/2013/04)

Signature:

Date:

18 January 2019

#### Location Plan East North 811579 817106 IS(Mf)6 812101 817873 812244 818777 IS8 814251 818412 813273 818850 IS10(N) 812942 820881 813562 814328 819497 SR3(N) 810689 816591 SR4(N) 814705 817859 812569 821475 805837 821818 SR7 SR10A(N 823644 823484 SR10B(N2 823689 823159 CS(Mf)3(N) 808814 822355 817990 810025 824004 817028 818103 823064 FIGURE 4.1— LOCATION OF WATER QUALITY MONITORING STATIONS MPACT STATIONS CONTROL / FAR FIELD STATIONS SENSITIVE RECEIVERS STATIONS SS EXCEEDANCE