



Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) – Investigation *Agreement No. CE 4/2009(EP)* 

14<sup>th</sup> Monthly Progress Report for Contaminated Mud Pits at Sha Chau – August 2010

Revision 0

29 September 2010

#### **Environmental Resources Management**

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Revision 0

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### **Environmental Resources Management**

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Client:		Proje	ect inc	):										
Civil Enç	gineering and Development Department (CEDD)	0103262												
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## Agreement No. CE 4/2009 (EP) Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) - Investigation

## 14th MONTHLY PROGRESS REPORT FOR CONTAMINATED MUD PITS AT SHA CHAU - August 2010

#### 1.1 BACKGROUND

Since 1992, the East of Sha Chau area has been the site of a series of dredged contaminated mud pits (CMPs) designed to provide confined marine disposal capacity for contaminated mud arising from the HKSAR's dredging and reclamation projects. CMP IVc is presently in operation for backfilling by contaminated mud and is anticipated to reach its capacity in 2010. A series of four newly constructed seabed pits at the East of Sha Chau area, CMP Va-d, will be provided for the disposal of contaminated mud after CMP IVc is full. Dredging operations are now taking place to construct CMP Va-b. The environmental monitoring and audit (EM&A) programme for the CMPs at the East of Sha Chau area presently covers disposal operations at CMP IVc and dredging operations at CMP V.

#### 1.2 REPORTING PERIOD

This *Monthly Progress Report* covers the monitoring period of August 2010.

#### 1.3 DETAILS OF SAMPLING AND LABORATORY TESTING ACTIVITIES

Field sampling activities conducted in this monthly period for CMP IVc are listed below:

- Benthic Recolonisation Monitoring and Pit Specific Sediment Chemistry Monitoring were conducted on 17 August 2010;
- Cumulative Impact Sediment Chemistry Monitoring and Sediment Toxicity Monitoring were conducted on 19 August 2010;
- Water Column Profiling and Routine Water Quality Monitoring were conducted on 20 August 2010; and,
- *Demersal Trawling* was conducted on 25 and 26 August 2010.

For CMP V, sampling for *Impact Water Quality Monitoring during Dredging Operations* was conducted on 2, 4 and 6 August 2010. A summary of field activities are presented in *Annex A*.

A summary of laboratory analysis results submitted by the Contractor in this reporting month is presented in *Table 1.1*.

Table 1.1 Summary of laboratory analysis results submitted by the Contractor during the reporting month

Key Task	Monitoring Component	Results Received from the Contractor
CMP V		
Water Sampling and	Impact Monitoring during	July's sampling:
Chemical Analysis	Dredging Operations	16 August 2010

#### 1.4 DETAILS OF OUTSTANDING SAMPLING AND / OR ANALYSIS

No outstanding sampling and laboratory analysis remained from August 2010.

#### 1.5 Brief Discussion of the Monitoring Results

Results of *Impact Water Quality Monitoring during Dredging Operations* for August 2010 are presented for CMP V. Detailed results will be discussed in the relevant *Quarterly Reports*.

#### 1.5.1 *CMP V*

*Impact Water Quality Monitoring during Dredging Operations of CMP V – August 2010* 

Impact Water Quality Monitoring during Dredging Operations of CMP V was conducted on 2, 4 and 6 August 2010. On each survey day, sampling was conducted during both mid-ebb and mid-flood tides at two Reference (Upstream) stations upstream and five Impact (Downstream) stations downstream of the dredging operations at CMP V. Monitoring was also conducted at the Ma Wan station. At each station, *in-situ* measurements of water quality parameters as well as water samples were taken from three depths in the water column (ie surface: 1 m below sea surface, mid-depth and bottom: 1 m above the seabed).

Monitoring results are presented in *Figures 1* to 12 of *Annex B*. Generally, levels of DO, depth-average Turbidity and TSS complied with the Action and Limit Levels set in the *Baseline Monitoring Report* <sup>(1)</sup> (*Table B1* of *Annex B*). However, very occasional exceedances of Action and Limit Levels were recorded. For Turbidity and TSS, exceedances of Limit Level were recorded at station DS1 during the mid-flood tide on 4 August 2010. It should be noted that DS1 is located at the boundary of the works area and the absence of exceedance at other downstream stations (DS2 to DS4) indicates that the sediment plume did not extend beyond the works area. Therefore, it is considered that the recorded exceedances do not indicate any adverse water quality impacts caused by the dredging works of CMP V.

<sup>(1)</sup> ERM (2009) Baseline Monitoring Report. Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) – Investigation. Agreement No. CE 4/2009(EP). Submitted to EPD in September 2009.

#### 1.6 ACTIVITIES SCHEDULED FOR THE NEXT MONTH

*Impact Water Quality Monitoring during Dredging* will be undertaken for CMP V in the next monitoring month for three times per week. No monitoring will be conducted for the disposal operations of CMP IV in September 2010.

The sampling schedule is presented in *Annex A*.

#### 1.7 STUDY PROGRAMME

A summary of the Study programme is presented in *Annex C*.

#### Annex A

## Sampling Schedule

Pit Specific Sediment Chemistry	Code	Frequency	J	009 A	S	0	N	D	J	F	M	A	M	J	10 J	A	S	0	N
Active-Pit	NCA 1 - 8	3 times per year		*				*				*				*			
tit-Edge	NCB 1 - 8	3 times per year		*				*				*				*			
Jear-Pit	CPA 1-8 CPB 1-8	3 times per year 3 times per year		*				*				*				*			
vear-rit	CNA 1-8 CNB 1-8	3 times per year 3 times per year	E	*				*				*				*			
Cumulative Impact Sediment Chemistry	31,12.1.4	v mmo por year	I	A	S	0	N	D	ī	F	M	A	M	ĭ	Ĭ	A	S	0	N
Jear-field Stations	RNA 1-9	2 times per year	_	*				*	,	_	.,,		.,,	,	,	*			
1id-field Stations	RNB 1-9	2 times per year		*				*								*			
	RMA 1-9 RMB 1-9	2 times per year 2 times per year		*				*								*			
Capped Pit Stations	RCA 1-9	2 times per year		*				*								*			
Par-Field Stations	RCB 1-9	2 times per year		*				*								*			
	RFA 1-9 RFB 1-9	2 times per year 2 times per year		*				*								*			
ediment Toxicity Tests			J	A	S	0	N	D	J	F	M	Α	M	J	J	Α	S	0	N
Jear-Field Stations	TCA TCB	2 times per year		3				3								3			
deference Stations	TRA	2 times per year	F	3				3								3			
	TRB	2 times per year 2 times per year		3				3								3			
issue/ Whole Body Sampling			J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	0	N
Jear-Pit Stations	INA	2 times per year	É	*		F				*						*			
eference North	INB	2 times per year		*						*						*			
	TNA TNB	2 times per year 2 times per year	E	*	E	Ē	E	Ē		*	Ē	Ē	Ē	Ē	Ē	*	E		
reference South	TSA	2 times per year	E	*	Ē			E		*						*	E		
	TSB	2 times per year		*	L		L			*						*			
Demersal Trawling Jear Pit Stations			J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	0	N
	INA 1-5 INB 1-5	4 times per year 4 times per year	5	5 5	Ĺ				5 5	5 5					5 5	5 5			
eference North	TNA 1-5	4 times per year	5	5	Ĺ			Ė	5	5					5	_			
eference South	TNB 1-5	4 times per year	5	5					5	5					5				
	TSA 1-5 TSB 1-5	4 times per year 4 times per year	5	5					5	5					5 5	5 5			
Capping			J	A	S	0	N	D	J	F	M	Α	M	J	J	Α	S	0	N
Ebb Tide mpact Station Downcurrent																			
	IPE1 IPE2	4 times per year 4 times per year	3	3				3		3				3		3			
	IPE3 IPE4	4 times per year 4 times per year	3	3				3		3				3		3			
ntermediate Station Downcurrent	PFC1	4 times per year	3	3				3		3				3		3			
	INE1 INE2 INE3	4 times per year 4 times per year	3 3	3 3				3 3		3 3				3 3		3			
	INE3 INE4 INE5	4 times per year 4 times per year 4 times per year	3	3				3		3				3		3			
Reference Station Upcurrent	RFE1	4 times per year	3	3				3		3				3		3		П	
	RFE2 RFE3	4 times per year 4 times per year	3	3				3		3				3		3			
	RFE4 RFE5	4 times per year 4 times per year	3	3				3		3				3		3			
Flood Tide mpact Station Downcurrent																			
	INF1 PFC2	4 times per year 4 times per year	3	3				3		3				3		3			
ntermediate Station Downcurrent	INF3	4 times per year	3	3				3		3				3		3			
	IPF1 IPF2	4 times per year 4 times per year	3	3				3		3				3		3			
Reference Station Upcurrent	IPF3	4 times per year	3	3				3		3				3		3			
	RFF1 RFF2	4 times per year 4 times per year	3	3				3		3				3		3			
	RFF3	4 times per year	3	3				3		3				3		3	_		
Coutine Water Quality Monitoring Cbb Tide			J	A	S	0	N	D	J	F	M	A	M	J	J	A	S	0	N
mpact Station Downcurrent	IPE1	2 times per year		*						*						*			
	IPE2 IPE3	2 times per year 2 times per year		*						*						*			
ntarmodiata Station Dover	IPE4 IPE5	2 times per year 2 times per year		*						*						*		d	
ntermediate Station Downcurrent	INE1	2 times per year	F	*						*						*		H	
	INE2 INE3 INE4	2 times per year 2 times per year 2 times per year		*						*						*			
eference Station Upcurrent	INE5	2 times per year 2 times per year	F	*						*						*		Ħ	
and the same of th	RFE1 RFE2	2 times per year 2 times per year	F	*						*						*		H	
	RFE3 RFE4	2 times per year 2 times per year 2 times per year	F	*	F			F		*						*		H	
lood Tide	RFE5	2 times per year	F	*						*						*			
	INF1	2 times per year	$\vdash$	*	<u> </u>	ĺ	l			*	1	1		1		*	Г		
	INF2	2 times per year 2 times per year	F	*	F					*						*		H	
	INF3			*	F					*						*			
mpact Station Downcurrent		2 times per year		*	_			E		*						*		Ħ	
mpact Station Downcurrent	INF3	2 times per year 2 times per year 2 times per year		*		1		_									$\neg$	$\neg$	
mpact Station Downcurrent ntermediate Station Downcurrent	INF3 IPF1 IPF2	2 times per year	E	*						*						*			LI
mpact Station Downcurrent  ntermediate Station Downcurrent  Reference Station Upcurrent	INF3 IPF1 IPF2 IPF3	2 times per year 2 times per year		* *						*						*			
mpact Station Downcurrent  ntermediate Station Downcurrent  teference Station Upcurrent	INF3 IPF1 IPF2 IPF3 RFF1 RFF2	2 times per year 2 times per year 2 times per year 2 times per year	J	* * * * A	S	0	N	D	J		M	A	M	J	J		S	0	N
mpact Station Downcurrent ntermediate Station Downcurrent	INF3 IPF1 IPF2 IPF3 RFF1 RFF2	2 times per year 2 times per year 2 times per year 2 times per year	J 2 2 2	*	S	0	N	D 2 2	J 2 2	*	M	A	M	J 2 2	J 2 2	*	S	0	N
mpact Station Downcurrent  Intermediate Station Downcurrent  Reference Station Upcurrent  Water Column Profiling  Rume Stations	INF3  IPF1  IPF2  IPF3  RFF1  RFF2  RFF3	2 times per year 6 times per year	2	* A 2	S	0	N	2		* F	M	A	M	2	_	* A 2	S	0	N
mpact Station Downcurrent  ntermediate Station Downcurrent  deference Station Upcurrent  Vater Column Profiling	INF3  IPF1  IPF2  IPF3  RFF1  RFF2  RFF3	2 times per year 6 times per year	2	* A 2 2				2		* F 2 2				2	_	* A 2 2			
ntermediate Station Downcurrent  eference Station Upcurrent  Vater Column Profiling  lume Stations  enthic Recolonisation Studies	INF3  IPF1  IPF2  IPF3  RFF1  RFF2  RFF3  WCP1  WCP2	2 times per year 2 times per year 2 times per year 2 times per year 2 times per year 4 times per year 6 times per year	2	* A 2 2				2 2 D		* F 2 2				2	_	* A 2 2 A			
ntermediate Station Downcurrent  eference Station Upcurrent  Vater Column Profiling  lume Stations  enthic Recolonisation Studies	INF3  IPF1 IPF2 IPF3  RFF1 RFF2 RFF3  WCP1 WCP2  CPA 1-3 CPB 1-3	2 times per year 6 times per year 6 times per year 2 times per year	2	* A 2 2 A 3 3				2 2 D 3 3		* F 2 2				2	_	* A 2 2 A 3 3			

<sup>&</sup>quot;\*" = Number of replicates depends on field catch or parameters

Annex A2 - East of Sha Chau Environmental Monitoring and Audit Sampling Schedule for CMP V (July 2009 - December 2010)

					20	09								201	0					ı
Baseline Water Quality Monitoring			J	Α	S	0	N	D	J	F	M	Α	M	J	J	Α	S	o	N D	į
Near Field	ESC-WNAA		*	*					,						,				$\top$	١
	ESC-WNAB		*	*																
	ESC-WNAC		*	*																
	ESC-WNAD	To be surveyed 24 times (3 days per week during mid-flood and mid-ebb tide of	*	*															$\dashv$	-
	ESC-WNBA	each day) in the month prior to commencement of marine works	*	*															$\dashv$	-
	ESC-WNBB	1	*	*															$\dashv$	-
	ESC-WNBC		*	*															$\dashv$	-
	ESC-WNBD		*	*															$\dashv$	-
																			$\dashv$	-
Mid Field	ESC-WMB	To be surveyed 24 times (3 days per week during mid-flood and mid-ebb tide of	*	*															$\dashv$	-
	ESC-WMA	each day) in the month prior to commencement of marine works	*	*															$\dashv$	-
	200 ////21	,,																-	+	_
Far Field	ESC-WFA		*	*															+	-
1 11 1 1011	ESC-WFB	To be surveyed 24 times (3 days per week during mid-flood and mid-ebb tide of	*	*														-	+	-
	MW1	each day) in the month prior to commencement of marine works	*	*															+	_
	141441																		+	_
Reference Stations	NM1		*	*															+	_
Reference Stations	NM2		*	*											<del>-  </del>				+	-
	NM3	To be surveyed 24 times (3 days per week during mid-flood and mid-ebb tide of	*	*														_	$-\!\!\!\!+\!\!\!\!-$	_
	NM5	each day) in the month prior to commencement of marine works	*	*														_	$-\!\!\!\!+\!\!\!\!-$	_
	NM6	cach day) in the month prior to commencement of marine works	*	*														-	$-\!\!\!\!+\!\!\!\!-$	_
	INIVIO																	-	$-\!\!\!\!+\!\!\!\!-$	_
																				_
Water Column Profiling			J	Α	S	0	N	D	J	F	M	Α	M	J	J	A	S	0	N D	,
Plume Stations	Upstream				2	2	2	2	2	2										_
	Downstream				2	2	2	2	2	2										_
														•						
Water Quality Impact Monitoring for Dredging			J	A	S	0	N	D	J	F	M	Α	M	J	J	Α	S	0	N D	Ī
Downcurrent Impact Stations	1				*	*	*	*	*	*	*	*	*	*	*	*	*	*	* *	
	2				*	*	*	*	*	*	*	*	*	*	*	*	*	*	* *	
	3				*	*	*	*	*	*	*	*	*	*	*	*	*	*	* *	
	4				*	*	*	*	*	*	*	*	*	*	*	*	*	*	* *	
	5				*	*	*	*	*	*	*	*	*	*	*	*	*	*	* *	
Upcurrent Stations	1				*	*	*	*	*	*	*	*	*	*	*	*	*	*	* *	Г
	2				*	*	*	*	*	*	*	*	*	*	*	*	*	*	* *	ĺ
	MW1				*	*	*	*	*	*	*	*	*	*	*	*	*	*	* *	
								plete												
					Cami	nlina	to be	com	nlot.	od										

Sampling to be completed

#### Annex B

## Monitoring Results

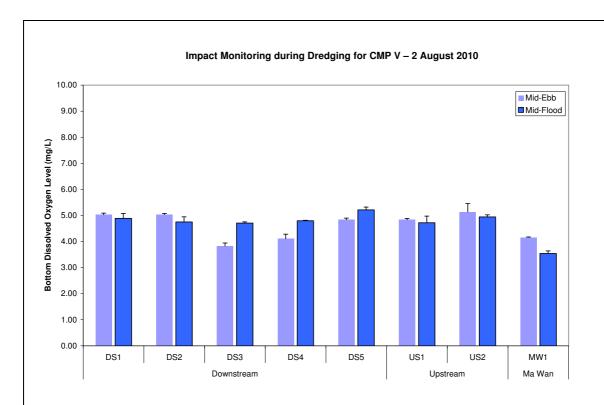


Figure 1: Bottom DO level (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 2 August 2010.

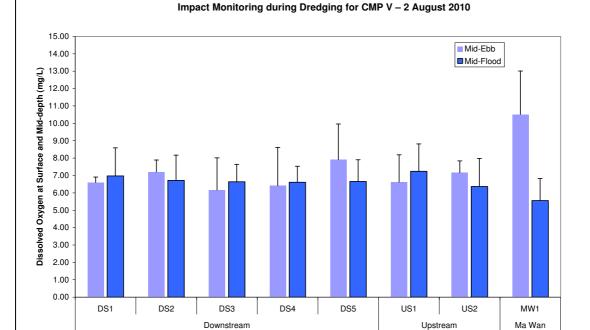


Figure 2: DO level at Surface and Mid-depth (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 2 August 2010.

H:\Team\EM\GMS Projects\0103262 CEDD EM&A for CMP at Sha Chau Source: (2009 - 2013)\06 Contractor Submission (LAM)\06.2 Impact Monitoring during Dredging\Aug 2010

27/09/2010

Date:



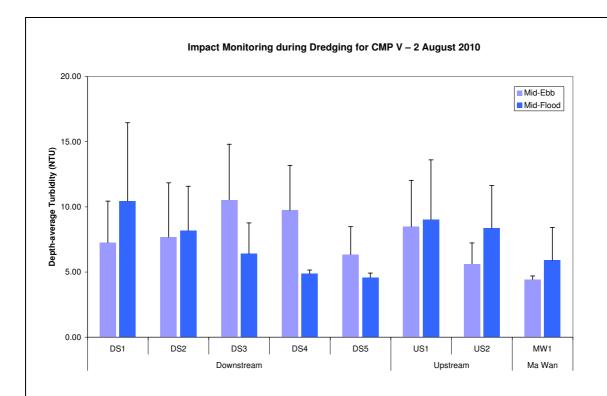
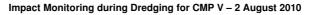


Figure 3: Depth-average Turbidity (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 2 August 2010.



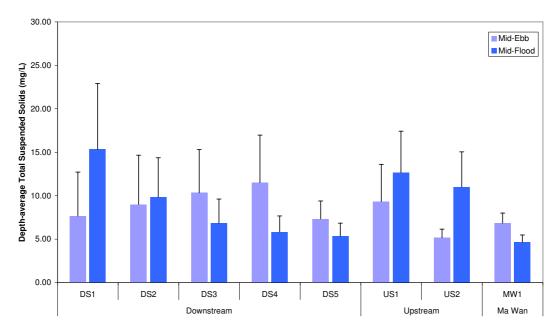


Figure 4: Depth-average TSS (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 2 August 2010.

Source: H:\Team\EM\GMS Projects\0103262 CEDD EM&A for CMP at Sha Chau (2009 - 2013)\06 Contractor Submission (LAM)\06.2 Impact

Monitoring during Dredging\Aug 2010

Date: 27/09/2010



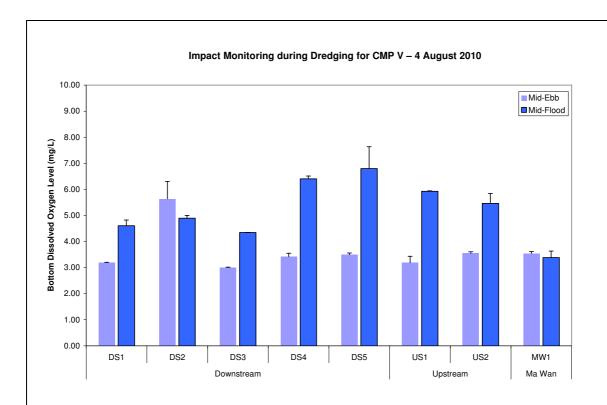


Figure 5: Bottom DO level (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 4 August 2010.

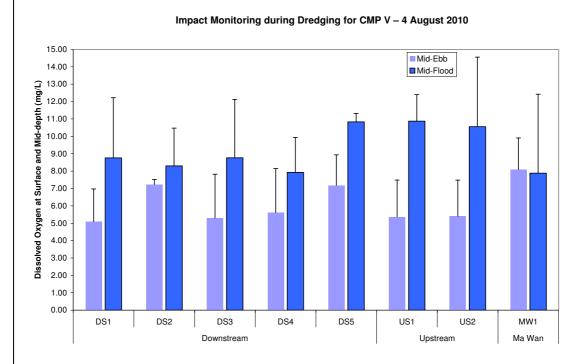


Figure 6: DO level at Surface and Mid-depth (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 4 August 2010.

Source: H:\Team\EM\GMS Projects\0103262 CEDD EM&A for CMP at Sha Chau (2009 - 2013)\06 Contractor Submission (LAM)\06.2 Impact Monitoring during Dredging\Aug 2010

Date: 27/09/2010



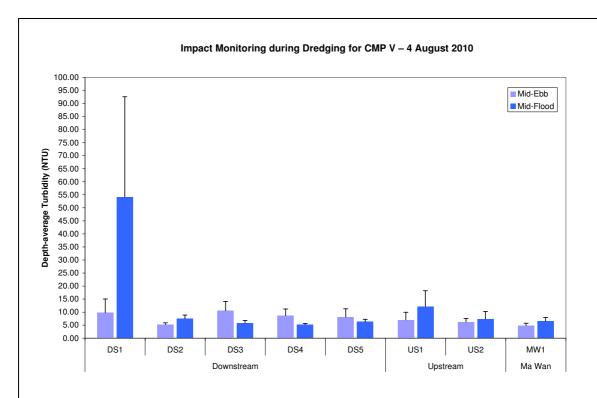
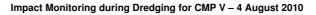


Figure 7: Depth-average Turbidity (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 4 August 2010.



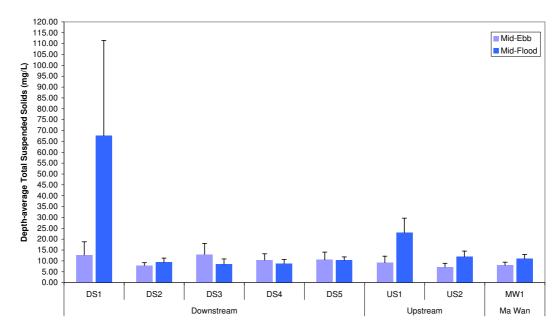


Figure 8: Depth-average TSS (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 4 August 2010.

Source: H:\Team\EM\GMS Projects\0103262 CEDD EM&A for CMP at Sha Chau (2009 - 2013)\06 Contractor Submission (LAM)\06.2 Impact

Monitoring during Dredging\Aug 2010

Date: 27/09/2010



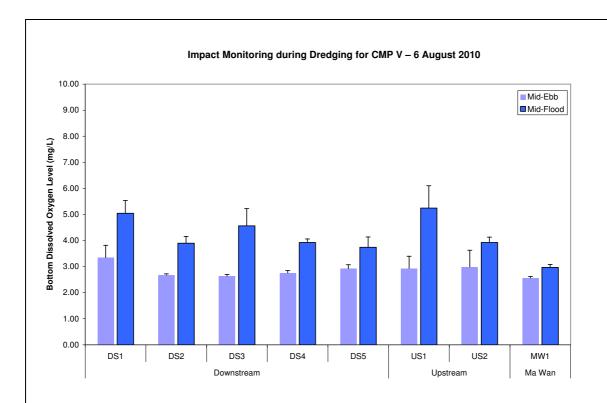


Figure 9: Bottom DO level (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 6 August 2010.

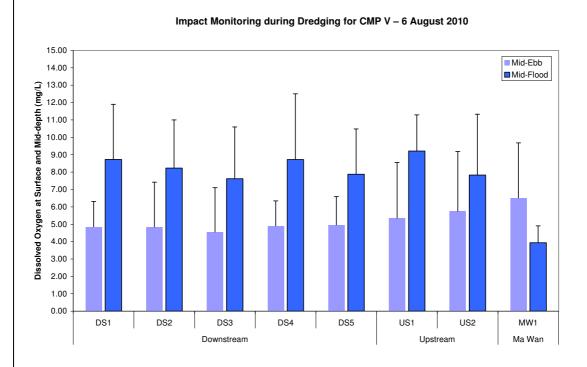


Figure 10: DO level at Surface and Mid-depth (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 6 August 2010.

Source: H:\Team\EM\GMS Projects\0103262 CEDD EM&A for CMP at Sha Chau (2009 - 2013)\06 Contractor Submission (LAM)\06.2 Impact Monitoring during Dredging\Aug 2010

Date: 27/09/2010



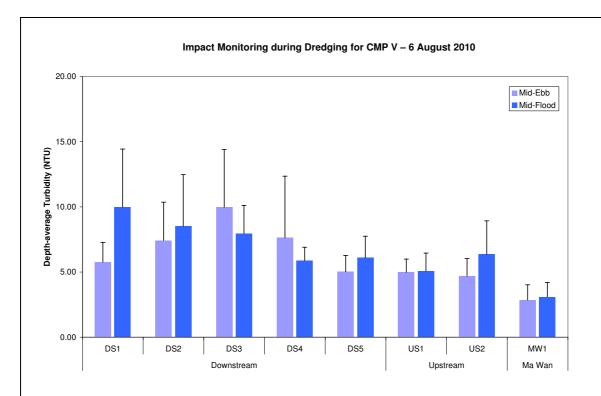
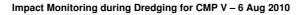


Figure 11: Depth-average Turbidity (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 6 August 2010.



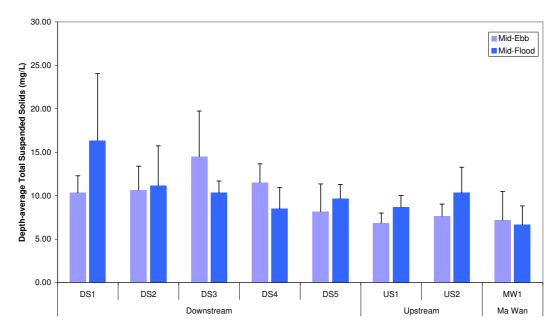


Figure 12: Depth-average TSS (mean + SD) at Downstream (DS1, DS2, DS3, DS4 and DS5), Upstream (US1 and US2) and Ma Wan (MW1) stations during Impact Monitoring for Dredging at CMP V on 6 August 2010.

Source: H:\Team\EM\GMS Projects\0103262 CEDD EM&A for CMP at Sha Chau (2009 - 2013)\06 Contractor Submission (LAM)\06.2 Impact

Monitoring during Dredging\Aug 2010

Date: 27/09/2010



Table B1 Summary Table of DO, Turbidity and TSS Levels recorded in July and August 2010

Sampling Date	Tidal Period	· · · · · · · · · · · · · · · · · · ·				Average TSS Level
			Bottom	Surface and Mid Depth	Turbidity Level (NTU)	(mg/L)
2010/08/02	ME	DS1	5.03	6.60	7.26	7.67
		DS2	5.03	7.20	7.68	9.00
		DS3	3.83	6.16	10.54	10.33
		DS4	4.11	6.42	9.75	11.50
		DS5	4.84	7.92	6.35	7.33
		MW1	4.16	10.52	4.43	6.83
		US1	4.84	6.62	8.48	9.33
		US2	5.14	7.16	5.62	5.17
	MF	DS1	4.89	6.97	10.45	15.33
		DS2	4.75	6.72	8.18	9.83
		DS3	4.71	6.64	6.40	6.83
		DS4	4.80	6.61	4.88	5.83
		DS5	5.22	6.66	4.58	5.33
		MW1	3.54	5.56	5.91	4.67
		US1	4.72	7.24	9.04	12.67
		US2	4.95	6.37	8.37	11.00
2010/08/04	ME	DS1	3.19	5.09	9.78	12.67
,,		DS2	5.64	7.24	5.24	7.83
		DS3	3.00	5.30	10.52	13.00
		DS4	3.42	5.62	8.69	10.33
		DS5	3.49	7.18	8.17	10.50
		MW1	3.54	8.08	4.90	8.00
		US1	3.19	5.37	7.01	9.17
		US2	3.55	5.40	6.25	7.17
	MF	DS1	4.61	8.76	54.19	67.67
	1,11	DS2	4.90	8.30	7.49	9.33
		DS3	4.35	8.76	5.86	8.50
		DS4	6.41	7.93	5.15	8.83
		DS5	6.80	10.83	6.31	10.33
		MW1	3.39	7.88	6.58	11.00
		US1	5.93	10.87	12.22	23.00
		US2	5.47	10.56	7.44	12.00
2010/08/06	ME	DS1	3.35	4.85	5.76	10.33
2010/08/00	WIL	DS1 DS2	2.68	4.84	7.43	10.67
		DS3	2.64	4.55	9.97	14.50
		DS4	2.76	4.90	7.63	
						11.50
		DS5	2.93	4.96	5.02	8.17
		MW1	2.56	6.52	2.85	7.17
		US1	2.93	5.35	4.98	6.83
	ME	US2	2.99	5.75	4.68	7.67
	MF	DS1	5.05	8.73	9.98	16.33
		DS2	3.90	8.23	8.52	11.17
		DS3	4.57	7.62	7.96	10.33
		DS4	3.93	8.72	5.88	8.50
		DS5	3.74	7.88	6.10	9.67
		MW1	2.97	3.94	3.10	6.67
		US1	5.25	9.21	5.09	8.67
		US2	3.93	7.83	6.36	10.33

#### Notes:

- 1. Cell shaded yellow indicates value exceeding the Action Level.
- 2. Cell shaded red indicates value exceeding the Limit Level.

#### Annex C

## Study Programme

