



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

24<sup>th</sup> Monthly Progress Report for Contaminated Mud Pits at Sha Chau – June 2011

Revision 0

15 September 2011

**Environmental Resources Management** 

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#### 24<sup>th</sup> Monthly Progress Report for Contaminated Mud Pits at Sha Chau – June 2011

#### Revision 0

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Civil Enç	gineering and Development Department (CEDD)	0103	3262	2		
Summary:			epte	ember 20	)11	
contamin	ument presents progress of monitoring works on ated mud pits at Sha Chau in June 2011 under Agreement /2009 (EP).	Appro Craig Partn	g Re	i		
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# Agreement No. CE 4/2009 (EP) Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) - Investigation

# 24th MONTHLY PROGRESS REPORT FOR CONTAMINATED MUD PITS AT SHA CHAU June 2011

#### 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 2011. 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 were completed for the construction of CMP Va and are now taking place to construct CMP Vb. The environmental monitoring and audit (EM&A) programme for the CMPs at the East of Sha Chau area presently covers disposal and capping operations at CMP IV and dredging operations at CMP Vb.

#### 1.2 REPORTING PERIOD

This *Monthly Progress Report* covers the monitoring period of June 2011.

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

Water Column Profiling and Water Quality Monitoring during Capping Operations were conducted for CMP IV on 21 June 2011 and an additional round of Water Column Profiling was carried out on 29 June 2011 as disposal was not taking place during the previous monitoring day. For CMP V, sampling for *Impact Water Quality Monitoring during Dredging Operations* was conducted on 24 June 2011. 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		
Impact Monitoring during Dredging Operations	Water Quality	May 2011 sampling: 17 June 2011

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

No outstanding sampling and laboratory analysis remained from June 2011.

#### 1.5 Brief Discussion of the Monitoring Results

Results of *Impact Water Quality Monitoring during Dredging Operations* for June 2011 are presented for CMP V. Detailed results will be discussed in the 8<sup>th</sup> *Quarterly Report*.

#### 1.5.1 *CMP V*

Impact Water Quality Monitoring during Dredging Operations of CMP V – June 2011

Impact Water Quality Monitoring during Dredging Operations of CMP V was conducted on 24 June 2011. On the 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 *Table B1* of *Annex B*. Levels of Dissolved Oxygen (DO), Turbidity and Total Suspended Solids (TSS) complied with the Action and Limit Levels set in the *Baseline Monitoring Report* <sup>(1)</sup>. Therefore, there appears to be no evidence of any unacceptable adverse water quality impacts arising from the dredging operations of CMP V at ESC.

#### 1.6 ACTIVITIES SCHEDULED FOR THE NEXT MONTH

The following monitoring activities will be conducted in the next monthly period of July 2011:

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.

- Water Column Profiling for CMP IV;
- Demersal Trawling for CMP IV; and
- Impact Water Quality Monitoring during Dredging Operations for CMP V.

The sampling schedule is presented in *Annex A*.

#### 1.7 STUDY PROGRAMME

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

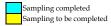
#### Annex A

# Sampling Schedule

STATES   STATE   STATES   STAT				20	09									2010	)									-	2011					s
Segretary Segret	Pit Specific Sediment Chemistry Active-Pit	Code	Frequency	J	A	S O	N	D	J	F	M	A	M	J	J A	S	0	N	D	J	F	M	A N	1 J	J	A	S	0	N	D
Selection					*			*				*			*				*				*			*				*
Series Personal Perso	Pit-Edge				*			*				*			*				*				*			*				*
Selection Methods	Near-Pit				*			*				*			*				*				*			*				*
STATE STATE OF THE				F	*			*				*			*				*				*							*
Secretary Secret	Cumulative Impact Sediment Chemistry			ĭ	Α	s l o	N	D	ĭ	F	М	A	М	ĭ	I A	S	10	N	D.	ĭ	F	м	AIN	1 T	I	A	S	0	N	D
Selection of the select	Near-field Stations	RNA 1-9	2 times per year	É	*			*	Ĺ						*				*		7			Ĺ	Ĺ					*
Separations	Mid-field Stations			F	*			*							*				*							*				*
STATE				F	*			*							*				*											*
Mary	Capped Pit Stations				*			*							*				*							*				*
Selection of State of	Far-Field Stations	RCB 1-9			*			*							*				*							*				*
Series Se					*			*							*				*											*
Section   Sect	Sediment Toxicity Tests			J	A	s o	N	D	J	F	M	A	M	J	J A	S	0	N	D	J	F	M	A N	1 J	J	A	S	0	N	D
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Section   Sect	Impact Station Downcurrent	IPE1	4 times per year		3			3		3				3		3			3		3			3		3				3
## 4 stoop by your book of the proper year book of the			4 times per year					3		,						3			3	-				_		3				3
The manufact force December 1981    Mail   M		IPE4	4 times per year		3			3		1				3		3			3		3			_		3				3
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BRE		INE2	4 times per year					3		3				_		3			3		_			3		3				3
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RETA			4 times per year		_			3		3				V		3			3		_			3		3				3
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FEC 2 4 times per your 1 3 0 3 0 3 0 3 0 3 0 0 0 3 0 0 0 0 0 0	Flood Tide Impact Station Downcurrent											•	•		•							•		•						
No.					3			3		3				3		3			3	-	_			3		3				3
Fig.   4 times per yoar   1972   4 times per yoar   1973   4 times per yoar   1974   5 times p	Intermediate Station Downcurrent				3			3		3				3		3			3		3			3		3				3
Section   Sect								3		Ò				_		3			3		_			3		3				3
Residence   Section   Power parameter   Power para	Reference Station Upcurrent							3		3				3		3			3		3			3		3				3
Reference Station Downcurrent    1973   4 times per year   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1,0   1					_			3		3						3			3					3		3				3
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NHZ   2 times per year   NHZ   2 times per y	Intermediate Station Downcurrent			F	*			H	H	*	H	_	#	+	*		+		_	1	*	+	-	+			H	1	1	_
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RE4 2 times per year RE5 2 times per year RE6 2 times per year RE7 2 times per year Reference Station Downcurrent    NF1   2 times per year		RFE2	2 times per year	F	*			H	H	*			#	+	*		+		-	1	*	#	-	Ŧ		*		1	-	_
Seference Station Downcurrent   Seference Station   St		RFE4	2 times per year	F	*		-	H	H	*	H	-	#	+	*	l	+	H	_	1	*	+	-	+	-	*	H	+	-	_
NF1	Flood Tide Impact Station Downcurrent	•	1 /	Г													•		1					•					1_	_
NF3					*		-		П	*				7	*				1	4	*	7		F	-	*		-	-}	_
IPF1	Intermediate Station Downcurrent			F	*			H	H	*	H	_	#	+	*		+		_	1	*	+	-	+			H	1	1	_
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Plume Stations  WCP1 6 times per year WCP2 6 times per year  VCP2 6 times per year  VCP2 6 times per year  VCP3 6 times per year  VCP4 1-3 2 times per year  VCP4 1-3 2 times per year  VCP6 1-3 2 times per year  VCP7 1-3 2 times per year  VCP6 1-3 2 times per year  VCP7 1-3 2 times per year  VCP6 1-3 2 times per year  VCP7 1-3 2 times per year  VCP8 1-3 2 times per year  VCP9 1-4 2 times per year					*		1			*				1	*		1				*	1	1		1					_
WCP2   6 times per year   2   2   2   2   2   2   2   2   2	Water Column Profiling Plume Stations	WCP1	6 times per ver	_		S O	N	_	_	F 2	M	A	_	_		_	О	N	_			M	A N	_			S	0	N	D 2
Capped Contaminated Mud Pits  CPA 1-3 CPB 1-3 CPB 1-3 CPC 1-3					_				2	2				_					-	-	_	1		2	_	_		1		2
CPA 1-3 2 times per year CPB 1-3 2 times per year CPC 1-3 2 times per year Reference Stations  Reference Stations  RBA 1-3 2 times per year RBB 1-	Benthic Recolonisation Studies			J	A	S O	N	D	J	F	M	A	M	J	J A	S	0	N	D	J	F :	M	A N	1 J	J	Α	S	0	N	D
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Annex A2 - East of Sha Chau Environmental Monitoring and Audit Sampling Schedule for CMP V (July 2009 - December 2011)

					2009						2	2010									20	011				
Baseline Water Quality Monitoring			J	A	s o	N	D	J F	M	A	M J	J	Α	S	O N	I D	J	F	M .	A M	1 J	J	A 5	0	N	D
Near Field	ESC-WNAA		*	*																						П
	ESC-WNAB		*	*																						
	ESC-WNAC		*	*																						
	ESC-WNAD	To be surveyed 24 times (3 days per week during mid-flood and mid-ebb tide of	*	*																						
	ESC-WNBA	each day) in the month prior to commencement of marine works	*	*																						
	ESC-WNBB		*	*																						
	ESC-WNBC		*	*																						
	ESC-WNBD		*	*																						
Mid Field	ESC-WMB	To be surveyed 24 times (3 days per week during mid-flood and mid-ebb tide of	*	*													<u> </u>								1	
	ESC-WMA	each day) in the month prior to commencement of marine works	*	*													<u> </u>								1	$\neg$
		•															1								1	
Far Field	ESC-WFA		*	*		1 1		_	1	1		+			+	+	t			-	1	Ħ	-		+	$\exists$
	To be surveyed 24 times (3 days per week during mid-flood and mid-ebb tide of		*	*													<del>                                     </del>								+	-
	MW1	each day) in the month prior to commencement of marine works													1								+			
																	<del>                                     </del>								+	-
Reference Stations	NM1		*	*													<del>                                     </del>								+	-
erereite Stations	NM2		*	*													<del>                                     </del>								+	-
	NM3	To be surveyed 24 times (3 days per week during mid-flood and mid-ebb tide of	*	*		+		_	+	1		+-		H			<del>                                     </del>		-		+			+	+	-
	NM5	each day) in the month prior to commencement of marine works	*	*													<del>                                     </del>								+	-
	NM6	,, <u> </u>	*	*					+								1					1 1		+	+	-
	11110					1 1			+						-		1		_		+				1	=
														<u> </u>			1	<u> </u>				1 1				$\exists$
Water Column Profiling			J	Α	S O	N	D	J F	M	Α	M J	J	Α	S	O N	l D	J	F	M .	A M	1 J	J	A 5	6 0	N	D
Plume Stations	Upstream				2 2	2	2	2 2																		$\Box$
	Downstream				2 2	2	2	2 2																		
Water Quality Impact Monitoring for Dred	ging		J	A	s o	N	D	J F	M	A	M J	J	Α	S	O N	1 D	J	F I	М.	A M	1 J	J		6 0		D
Downcurrent Impact Stations	1				* *	*	*	* *	*	*	* *	*	*	*	* *	*	*	*	*	* *	*	*	* *	*	*	*
	2				* *	*	*	* *	*	*	* *	*	*	*	* *	*	*	*	*	* *	*	*		*	*	*
	3				* *	*	*	* *	*	*	* *	*	*	*	* *	*	*	*	*	* *	*	*	* *	*		*
	4				* *	*	*	* *	*	*	* *	*	*	*	* *	*	*	*	*	* *	*	*	* *	*	*	*
	5				* *	*	*	* *	*	*	* *	*	*	*	* *	*	*	*	*	* *	*	*	* *	*	*	*
																						Ш				
Upcurrent Stations	1				* *	*	*	* *	*	*	* *	*	*	*	* *	*	*	*	*	* *	*	*	* *	*	*	*
	2				* *	*	*	* *	*	*	* *	*	*	*	* *	*	*	*	*	* *	*	*	* *	*	*	*
	MW1				* *	*	*	* *	*	*	* *	*	*	*	* *	*	*	*	*	* *	*	*	* *	*	*	*



#### Annex B

# Monitoring Results

Table B1 Summary Table of DO, Turbidity and TSS Levels Recorded in June 2011

Sampling Date	Tidal Period	Station	_	e DO Levels mg/L)	Average Turbidity	Average TSS Level
			Bottom	Surface and Mid Depth	Level (NTU)	(mg/L)
2011/06/24	ME	DS1	5.63	5.84	10.01	13.83
		DS2	5.65	5.82	8.92	11.00
		DS3	5.15	5.76	9.87	13.17
		DS4	5.66	5.92	9.64	11.33
		DS5	5.72	5.95	8.85	10.50
		MW1	5.04	5.12	5.32	6.00
		US1	5.90	5.96	13.26	13.67
		US2	5.88	5.94	11.50	13.33
	MF	DS1	5.42	5.91	10.80	11.83
		DS2	5.48	5.81	8.13	9.00
		DS3	5.40	5.49	8.33	9.83
		DS4	5.54	5.75	7.32	9.00
		DS5	5.45	5.38	8.08	9.67
		MW1	4.94	5.16	6.63	8.00
		US1	5.39	5.75	7.77	9.00
		US2	5.10	5.92	9.09	11.67

#### Annex C

# Study Programme

