



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

28th Monthly Progress Report for Contaminated Mud Pits at Sha Chau – October 2011

Revision 0

29 November 2011

Environmental Resources Management

21/F Lincoln House Taikoo Place, 979 King's Road Island East, Hong Kong Telephone 2271 3000 Facsimile 2723 5660



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21/F Lincoln House 979 King's Road Taikoo Place Island East Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com

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	ument presents progress of monitoring works on ated mud pits at Sha Chau in October 2011 under	Date: 29 November 2011 Approved by:											
	nt No. CE 4/2009 (EP).	Dr Robin Kennish Director											
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Agreement No. CE 4/2009 (EP) Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) - Investigation

28th MONTHLY PROGRESS REPORT FOR CONTAMINATED MUD PITS AT SHA CHAU October 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-b and are now taking place to construct CMP Vc. 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 Vc.

1.2 **REPORTING PERIOD**

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

1.3 DETAILS OF SAMPLING AND LABORATORY TESTING ACTIVITIES

After the Typhoon Nesat visited Hong Kong which led to the issue of Typical Cyclone Warning Signal No. 8 on 29 September 2011, sediment sampling was undertaken for the *Post-storm Monitoring* of CMP IVc on 4 October 2011.

For CMP V, sampling for *Impact Water Quality Monitoring during Dredging Operations* was conducted on 18 October 2011. A summary of field activities are presented in *Annex A*.

A summary of monitoring data submitted by the Contractor in this reporting month is presented in *Table 1.1*.

Table 1.1Summary of monitoring data submitted by the Contractor during the
reporting month

Key Task	Monitoring	Results Received
	Component	from the Contractor
CMP IV		
Demersal Trawling	Marine Biota	11, 12 August 2011 sampling: 20 October 2011
CMP V		
Impact Monitoring during Dredging Operations	Water Quality	September 2011 sampling: 20 October 2011

1.4 DETAILS OF OUTSTANDING SAMPLING AND/OR ANALYSIS

No outstanding sampling and laboratory analysis remained from October 2011.

1.5 BRIEF DISCUSSION OF THE MONITORING RESULTS

Results of *Impact Water Quality Monitoring during Dredging Operations of CMP V* for October 2011 are presented for CMP V. Detailed results will be discussed in the 10th *Quarterly Report*.

1.5.1 CMP V

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

Impact Water Quality Monitoring during Dredging Operations of CMP V was conducted on 18 October 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) generally complied with the Action and Limit Levels set in the *Baseline Monitoring Report* ⁽¹⁾. Levels of TSS and Turbidity exceeded the Action and Limit Levels, respectively, in the downstream station DS1 during the mid-flood tide.

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.

Station DS1 is located on the edge of the works area of CMP Vc and the compliance of Action and Limit Levels at other downstream stations outside the works area (ie DS2-4) would indicate that there is no evidence of any unacceptable adverse water quality impacts outside the dredging works area of CMP Vc. In addition, level of TSS at upstream station US2, which is approximately 500 m from the works area and unlikely to be affected by the dredging works, was slightly higher than station DS1 during the mid-flood tide. Similar TSS levels between the two stations would indicate that the high TSS levels are more likely to be caused by natural background fluctuations in water quality which affected both upstream and downstream area rather than indicating any adverse water quality impacts from the dredging operations.

Overall, there appears to be no unacceptable water quality impacts causing by the dredging operations at CMP Vc and no additional measures are thus considered required.

1.6 ACTIVITIES SCHEDULED FOR THE NEXT MONTH

Impact Water Quality Monitoring during Dredging Operations will be undertaken for CMP V in November 2011. No monitoring activities are scheduled for CMP IV in the next reporting month.

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

Annex A1 - East of Sha Chau Environmental Monitoring and Audit Sampling Schedule for CMP IVc (July 2009 - April 2011)

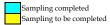
Pit Specific Sediment Chemistry Active-Pit	Code	Frequency	200 J		s c) N	I D	J	F	М	Α		2010 J J	A	S	0	N 1) J	F	Μ	Α	Μ)11 J	A	S	0	N I
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Pit-Edge	CPA 1-8	3 times per year		*			*		<u> </u>		*		_	*		_					*			P	*		+	
Near-Pit	CPB 1-8	3 times per year		*			*				*			*				ł			*				*		-	
	CNA 1-8 CNB 1-8	3 times per year 3 times per year		*			*				*			*							*				*			
Cumulative Impact Sediment Chemistry			J	Α	s c) N	I D	J	F	Μ	Α	M	JJ	A	S	0	N 1) J	F	Μ	Α	Μ	J	J	Α	S	0	N I
Near-field Stations	RNA 1-9 RNB 1-9	2 times per year 2 times per year		*			*				_			*											*		_	
Mid-field Stations	RMA 1-9	2 times per year	F	*			*		-			_	+	*					_					P	*		—	
Capped Pit Stations	RMB 1-9	2 times per year		*			*							*											*		-	
	RCA 1-9 RCB 1-9	2 times per year 2 times per year		*			*							*										⊢	*		_	
Far-Field Stations	RFA 1-9 RFB 1-9	2 times per year 2 times per year		*			*							*				e							*		_	
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Reference Stations	TCB	2 times per year		3			3							3				3							3		_	
	TRA TRB	2 times per year 2 times per year		3 3			3 3							3 3				3							3 3		_	
Tissue/ Whole Body Sampling			J	A	s c) N	I D	Ĩ	F	М	A	M	TT	A	S	0	N 1		F	М	A	М	I		A	S	0	NI
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n cont	TNA TNB	2 times per year 2 times per year	Н	*		+	+	E	*	H		-	+	*	H		-	+	*		E			H	*	H	╡	╡
Reference South	TSA TSB	2 times per year 2 times per year	Ħ	*		+	+	╞	*			\pm	+	*			+	+	*		⊨			⊢	*	H	\pm	+
Demersal Trawling	130	2 annes per year	J	Â	s c) N	I D	J	F	М	A	M	 	A	S	0	N 1) I	F	M	A	М	I		Â	S	0	N I
Near Pit Stations	INA 1-5	4 times per year	5	5				5	5					5 5				5 5	5			Ē		5	5	F	Ŧ	
Reference North	INB 1-5	4 times per year	5	5		Ŧ	T	5	5			1		5 5				5 5	5		E			5	5	\square	\pm	1
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Reference South	TSA 1-5 TSB 1-5	4 times per year 4 times per year	5 5	5 5		+	+	5 5	_	H		\pm		5 5	H			5 5 5 5	_		\vdash			5	5	H	\pm	+
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	IPE3 IPE4	4 times per year 4 times per year		3 3			3 3		3 3				3 3	3				3 3	3 3				3		3		=	
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	INE1 INE2	4 times per year 4 times per year		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		3				3	3				3	3 3 3				3		3		+	
Reference Station Upcurrent	RFE1	4 times per year	F	3		+	3		3				3	3				3	3				3		3		_	
	RFE2 RFE3	4 times per year 4 times per year		3 3			3		3 3				3 3	3				3 3	3 3				3		3		\pm	
	RFE4 RFE5	4 times per year 4 times per year	Η	3 3			3		3 3				3 3	3				3 3	3 3	_			3		3			
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Intermediate Station Downcurrent	IPF1	4 times per year		3		-	3		3		_		3	3				3	3				3		3		+	
	IPF2 IPF3	4 times per year 4 times per year	F	3 3		+	3		3		_		3	3		_		3	3				3		3	F	7	
Reference Station Upcurrent	RFF1	4 times per year		3			3		3				3	3				3	3				3		3			
	RFF2 RFF3	4 times per year 4 times per year		3 3			3 3		3 3				3 3	3				3 3	3 3				3		3			
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Impact Station Downcurrent	IPE1	2 times per year		*			-	-											*						*		_	
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Reference Station Upcurrent Flood Tide Impact Station Downcurrent	IPE2 IPE3 IPE4 IPE5 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2 RFE3 RFE4 RFE5	2 times per year 2 times per year		* * * *					* * * * * * * * * * * * * * * * * * *										* * * * * * * * * * * * * * * * * * * *						* * * * * * * * * * * * * * * * * * * *			
Reference Station Upcurrent Flood Tide Impact Station Downcurrent	IPE2 IPE3 IPE4 IPE5 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2 RFE3 RFE4 RFE5 INF1 INF1 INF2	2 times per year 2 times per year		* * * *					* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *										* * * * * * * * * * * * * * * * * * * *									
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Reference Station Upcurrent Flood Tide Impact Station Downcurrent Intermediate Station Downcurrent Reference Station Upcurrent Water Column Profiling Plume Stations Benthic Recolonisation Studies	IPE2 IPE3 IPE4 IPE5 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2 RFE3 RFE4 RFE5 INF1 INF2 INF3 IPF1 IPF2 IPF3 RFF1 RFF2 RFF3 WCP1 WCP2	2 times per year 2 times per year	2	* * * * * * * * * * * * * * * * * * *			2 2 J D	2	2				2 2	* * * * * * * * * * * * * * * * * * *			N]	2 2 2 2 2 J	* * * * * * * * * * * * * * * * * * *				2		2 2 A			N I
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"*" = Number of replicates depends on field catch or parameters

Sampling completed

Annex A2 - East of Sha Chau Environmental Monitoring and Audit Sampling Schedule for CMP V (July 2009 - April 2011)

					2009	9						201	0									2011				
Baseline Water Quality Monitoring			J	Α	S 0	O N	D	J	F N	A A	M	J	J A	A S	0	N	D	J F	Μ	A	M J	J	Α	s o) N	D
Near Field	ESC-WNAA		*	*																						
	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	*	*																						
	ESC-WMA	each day) in the month prior to commencement of marine works	*	*																						
Far Field	ESC-WFA	To be surveyed 24 times (3 days per week during mid-flood and mid-ebb tide of	*	*																						
	ESC-WFB	each day) in the month prior to commencement of marine works	*	*																						
	MW1	·····	*	*																						
Reference Stations	NM1		*	*																						
	NM2		*	*																						
	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		*	*																						
			_		-			_		-			_	_	_		_			_						
Water Column Profiling			J	Α	_	O N		_		A A	M	J	J A	A S	0	N.	D.	J F	М	A	M J	J	A	s o) N	D
Plume Stations	Upstream				2	2 2		_	2									_				_				
	Downstream				2	2 2	2	2	2																	_
			1.		0	0 1											n									-
Water Quality Impact Monitoring for Dredging			J	Α	S (O N	D	J	FN	A A	M	J	JA	I S	0	N	D	J F	M	A .	M J	J	A	s o) N	D
Downcurrent Impact Stations	1				*	* *	*	*	* `	* *	*	*	* *	*	*	*	*	* *	*	*	* *	*	*	* *	*	*
	2				*	* *	*	*	* `	* *	*	*	* *	*	*	*	*	* *	*	*	* *	*	*	* *	*	*
	3				*	* *		*	* `	* *	*	*	* *	*	*	*	*	* *	*	*	* *	*	*	* *	*	*
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Upcurrent Stations	1		<u> </u>			* *	*	*	* `	*	*	*	* *	*	*	-		*	*	*	*	*	*	* *	*	*
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			-																							_
	MW1				*	* *	*	*	* '	* *	*	*	* *	*	*	*	*	* *	*	*	* *	*	*	* *	*	*



Annex B

Monitoring Results

Sampling Date	Tidal Period	Station	U	e DO Levels mg/L)	Average Turbidity	Average TSS Level
			Bottom	Surface and Mid Depth	Level (NTU)	(mg/L)
2011/10/18	ME	DS1	5.90	6.38	16.60	21.20
		DS2	5.75	6.57	8.40	9.20
		DS3	6.07	6.73	8.10	10.30
		DS4	5.72	6.67	9.10	10.30
		DS5	6.42	8.30	8.30	10.80
		MW1	5.99	6.10	4.70	6.30
		US1	5.83	6.28	10.10	11.20
		US2	6.05	7.21	6.60	7.50
	MF	DS1	5.84	6.10	53.90	44.20
		DS2	5.86	6.16	13.90	15.00
		DS3	5.85	5.98	16.30	15.70
		DS4	5.81	5.96	18.50	18.80
		DS5	5.90	6.12	9.20	10.50
		MW1	5.67	5.99	5.60	6.50
		US1	5.70	6.32	17.50	16.70
		US2	5.62	6.21	34.30	44.70

Table B1Summary Table of DO, Turbidity and TSS Levels Recorded in October 2011

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

