



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

27th Monthly Progress Report for Contaminated Mud Pits at Sha Chau – September 2011

Revision 0

28 November 2011

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

27th MONTHLY PROGRESS REPORT FOR CONTAMINATED MUD PITS AT SHA CHAU

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 September 2011.

1.3 DETAILS OF SAMPLING AND LABORATORY TESTING ACTIVITIES

No sampling activities are scheduled for CMP IV in September 2011.

For CMP V, sampling for *Impact Water Quality Monitoring during Dredging Operations* was conducted on 7 September 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 Component	Results Received from the Contractor
CMP IV		
Demersal Trawling	Marine Biota	July 2011 sampling: 8 September 2011
CMP V		
Impact Monitoring for Dredging	Water Quality	August 2011 sampling: 8 September 2011

1.4 DETAILS OF OUTSTANDING SAMPLING AND/OR ANALYSIS

No outstanding sampling and laboratory analysis remained from September 2011.

1.5 BRIEF DISCUSSION OF THE MONITORING RESULTS

Results of *Impact Water Quality Monitoring during Dredging Operations of CMP V* are presented for September 2011. Detailed results will be discussed in the 9th Quarterly Report.

1.5.1 CMP V

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

Impact Water Quality Monitoring during Dredging Operations of CMP V was conducted on 7 September 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 Level in the downstream station DS1 during the mid-flood tide. 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 (i.e. DS2-4) outside the works area would indicate that there is 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

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

The sampling schedule is presented in *Annex A*.

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.

1.7 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)

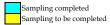
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Pit-Edge	CPA 1-8	3 times per year		*			*		<u> </u>		*		_	*		_					*			P	*		+	
Near-Pit	CPB 1-8	3 times per year		*			*				*			*				ł			*				*		-	
	CNA 1-8 CNB 1-8	3 times per year 3 times per year		*			*				*			*							*				*			
Cumulative Impact Sediment 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
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Mid-field Stations	RMA 1-9	2 times per year		*			*		-			_	+	*					_					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 Station Upcurrent	RFF1	4 times per year		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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"*" = 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)

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Baseline Water Quality Monitoring			J	Α	S	O N	D	J	F I	MA	A M	J	J A	S	0 1	N D	J	F	Μ	A N	1 J	J	A	5 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	*	*			-			_	_						_				_			_	_	
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Reference Stations	NM1 NM2		-	*						-	_			_		_	-				-			_	_	
	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	*	*	-		+	-		-						_	-				-			-	-	_
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Water Column Profiling			J	Α	s	O N		J	F I	M A	A M	J	J A	S	0 1	N D	J	F	Μ	A N	1 J	J	A S	5 O	N	D
Plume Stations	Upstream				2	2 2	_	_	2																	
	Downstream				2	2 2	2	2	2																	
Water Quality Impact Monitoring for Dredging			J	Α	S	O N	D	T	Б			T	TA	C		N D	т	Б	м	A 3	a T	T		s o	N	D
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opearen outono	2		-		*	* *	*	*	*	* *	* *	*	* *	*	*	* *	*	*	*	* *	*	*	*	* *	*	*
	-		-																							-
	MW1		-		*	* *	*	*	*	* *	* *	*	* *	*	*	* *	*	*	*	* *	*	*	*	* *	*	*
	1414.1																									



Annex B

Monitoring Results

Sampling Date	Tidal Period	Station	Ũ	e DO Levels mg/L)	Average Turbidity	Average TSS Level
			Bottom	Surface and Mid Depth	Level (NTU)	(mg/L)
2011/09/07	ME	DS1	4.36	4.65	21.64	25.67
		DS2	3.86	4.71	13.77	20.33
		DS3	4.56	4.82	11.36	12.17
		DS4	4.41	4.89	15.09	15.67
		DS5	4.71	4.87	13.84	14.00
		MW1	4.51	4.69	4.02	6.00
		US1	4.19	4.64	8.79	7.17
		US2	4.08	4.63	11.27	10.17
	MF	DS1	4.06	5.17	32.66	43.83
		DS2	4.11	4.97	13.09	14.17
		DS3	4.13	5.45	10.71	12.00
		DS4	3.95	5.41	12.99	12.33
		DS5	4.46	5.22	10.24	10.50
		MW1	4.12	4.28	6.16	7.00
		US1	4.46	5.22	9.31	11.33
		US2	4.54	5.12	10.12	12.00

Notes:

1. Cell shaded yellow indicates value exceeding the Action Level.

Annex C

Study Programme

