



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

21st Monthly Progress Report for Contaminated Mud Pits at Sha Chau – March 2011

Revision 0

17 June 2011

Environmental Resources Management

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This document presents progress of monitoring works on contaminated mud pits at Sha Chau in March 2011 under Agreement No. CE 4/2009 (EP).				Approved by: Robin Kennish										
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CONTENTS

1.1	BACKGROUND	1
1.2	REPORTING PERIOD	1
1.3	DETAILS OF SAMPLING AND LABORATORY TESTING ACTIVITIES	1
1.4	DETAILS OF OUTSTANDING SAMPLING AND/OR ANALYSIS	2
1.5	BRIEF DISCUSSION OF THE MONITORING RESULTS	2
1.6	ACTIVITIES SCHEDULED FOR THE NEXT MONTH	3
1.7	STUDY PROGRAMME	3

ANNEXES

Annex A	Sampling Schedule
Annex B	Monitoring Results
Annex C	Study Programme

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

21st MONTHLY PROGRESS REPORT FOR CONTAMINATED MUD PITS AT SHA CHAU (for MARCH 2011)

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 March 2011.

1.3 DETAILS OF SAMPLING AND LABORATORY TESTING ACTIVITIES

No field sampling activities were scheduled for CMP IVc in this monthly period. For CMP V, sampling for *Impact Monitoring during Dredging Operations* was conducted on 8 March 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 on *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 IV		
Demersal Trawling	Marine Biota	February 2011:
		15 March 2011
CMP V		
Impact Monitoring during	Water Quality	March 2011:
Dredging Operations		15 March 2011

1.4 DETAILS OF OUTSTANDING SAMPLING AND/OR ANALYSIS

No outstanding sampling and laboratory analysis remained from March 2011.

1.5 Brief Discussion of the Monitoring Results

Results of *Demersal Trawling* for February 2011 are presented for CMP IV and results of *Impact Monitoring during Dredging Operations* for March 2011 are presented for CMP V. Detailed results will be discussed in the 7th *Quarterly Report*.

1.5.1 *CMP IV*

Demersal Trawling in February 2011

The final *Demersal Trawling* samples for the 2011 dry season were collected at CMP IV on 16 and 17 February 2011. Mean number of faunal species was relatively consistent between Impact and Reference stations (*Table 1.2*) but Number of Individuals, Biomass, Catch-per-Uni-Effort (CPUE) and Yield-per-Unit-Effort (YPUE) were notable higher at Impact station INA (*Table 1.3*). These results will be analysed in greater depth together with results from *Demersal Trawling* carried out in December 2010 and January 2011 in the 8th Quarterly Report.

Table 1.2 Mean Number of Faunal Species caught February 2011 Monitoring.

Date of	IMPACT S	STATIONS				
Sampling	INA	INB	TNA	TNB	TSA	TSB
Feb 2011	42.2	33.8	38.8	39.0	42.7	37.6

Table 1.3 Summary of CPUE and YPUE during February 2011 Monitoring

Station	Impact/ Reference	No. of Individuals	Total Biomass (g)	Mean CPUE#1	Mean YPUE#2
	Area			per Tow	per Tow (g)
INA	Impact	38,468	343,150	7,694	68,630
INB	Impact	10,839	93,246	2,168	18,649
TNA	Reference	3,560	26,635	712	5,327
TNB	Reference	8,442	53,418	1,688	10,684
TSA	Reference	13,498	202,931	2,700	40,586
TSB	Reference	23,759	197,487	4,752	39,497

^{#1} CPUE is calculated by dividing the number of individuals with the trawling time and number of nets (in hour and number of nets)

1.5.2 CMP V

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

Impact Water Quality Monitoring during Dredging Operations of CMP V was conducted on 24 May 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* ⁽¹⁾. 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

Pit Specific Sediment Chemistry Monitoring for CMP IV and Impact Monitoring during Dredging Operations for CMP V are scheduled in the next monthly period of April 2011. The sampling schedule is presented in Annex A.

1.7 STUDY PROGRAMME

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

^{#2} YPUE is calculated by dividing the weight (g) of fish with trawling effort (in hour and number of nets)

Annex A

Sampling Schedule

Water Column Profiling	1175-	Z.12	F	M	A	M	J	2011 J	A	S	0	N	D
Plume Stations	WCP1 WCP2	6 times per year 6 times per year	2				2	2	2				2
Routine Water Quality Monitoring			F	M	A	M	J	J	A	S	0	N	D
Ebb Tide Impact Station Downcurrent	IPE1	2 times per year	*						*				
	IPE2 IPE3	2 times per year 2 times per year	*						*				
	IPE4 IPE5	2 times per year 2 times per year	*						*				
Intermediate Station Downcurrent	INE1	2 times per year	*						*				
	INE2 INE3	2 times per year 2 times per year	*						*				
	INE4 INE5	2 times per year 2 times per year	*						*				
Reference Station Upcurrent	RFE1 RFE2	2 times per year 2 times per year	*						*				
	RFE3 RFE4	2 times per year 2 times per year	*						*				
	RFE5	2 times per year	*						*				
Flood Tide Impact Station Downcurrent	INF1	2 times per year	*						*				
	INF2 INF3	2 times per year 2 times per year	*						*				
Intermediate Station Downcurrent	IPF1	2 times per year	*						*				
	IPF2 IPF3	2 times per year 2 times per year	*						*				
Reference Station Upcurrent	RFF1 RFF2	2 times per year 2 times per year	*						*				
	RFF3	2 times per year	*						*				
Pit Specific Sediment Chemistry Active-Pit	Code NCA 1 - 8	Frequency 3 times per year	F	M	A *	M	J	J	A *	S	0	N	E *
	NCB1-8	3 times per year			*				*				*
Pit-Edge	CPA 1-8 CPB 1-8	3 times per year 3 times per year			*				*				*
Near-Pit	CNA 1-8	3 times per year			*				*				*
	CNB 1-8	3 times per year			*				*				*
Cumulative Impact Sediment Chemistry Near-field Stations	RNA 1-9	2 times per year	F	M	A	M	J	J	* *	S	0	N	*
AC1 C-11 Cure	RNB 1-9 RMA 1-9	2 times per year							*				*
Mid-field Stations	RMB 1-9	2 times per year 2 times per year							*				*
Capped Pit Stations	RCA 1-9 RCB 1-9	2 times per year 2 times per year							*				*
Far-Field Stations	RFA 1-9	2 times per year							*				*
	RFB 1-9	2 times per year							*				*
Sediment Toxicity Tests Near-Field Stations	TCA	2 times per year	F	M	A	M	J	J	A 3	S	О	N	3
	TCB	2 times per year							3				3
Reference Stations	TRA TRB	2 times per year 2 times per year							3				3
Benthic Recolonisation Studies			F	M	A	M	J	J	A	S	0	N	Е
Capped Contaminated Mud Pits	CPA 1-3 CPB 1-3	2 times per year 2 times per year							3				3
Reference Stations	CPC 1-3 RBA 1-3	2 times per year							3				3
Reference Stations	RBB 1-3 RBC 1-3	2 times per year 2 times per year 2 times per year							3				3
Demersal Trawling	RDC 1-5	z times per year	F	M	A	M	Ī	J	A	S	0	N	E
Near Pit Stations	INA 1-5	4 times per year	_				,	5	5				
	INB 1-5		5						5				
Reference North	INB 1-5 TNA 1-5	4 times per year 4 times per year	5 5					5	5				
Reference North		4 times per year	5					5					
Reference North	TNA 1-5	4 times per year 4 times per year	5						5				
Reference South Tissue/ Whole Body Sampling	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5	4 times per year	5 5 5	M	A	M	J	5	5 5 5 5	S	0	N	
Reference South	TNA 1-5 TNB 1-5 TSA 1-5	4 times per year 4 times per year 4 times per year 4 times per year	5 5 5 5 5	M	A	M	J	5	5 5 5 5	S	0		
Reference South Tissue/ Whole Body Sampling Near-Pit Stations	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5	4 times per year 2 times per year 2 times per year	5 5 5 5 5 * *	M	A	M	J	5	5 5 5 5 4	S	0		
Reference South Tissue/ Whole Body Sampling Near-Pit Stations Reference North	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB	4 times per year 2 times per year 2 times per year 2 times per year 2 times per year	5 5 5 5 5	M	A	M	J	5	5 5 5 5 4 *	S	0		
Reference South Tissue/ Whole Body Sampling Near-Pit Stations Reference North	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5	4 times per year 2 times per year 2 times per year	5 5 5 5 5 * *	M	A	M	J	5	5 5 5 5 5 4 *	S	0		
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB	4 times per year 2 times per year 2 times per year 2 times per year 2 times per year	5 5 5 5 5 * *	M	A	M	J	5	5 5 5 5 5 * * *	S	0		
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB	4 times per year 2 times per year 2 times per year 2 times per year 2 times per year	5 5 5 5 5 * * *				J 3 3	5 5 5 J	5 5 5 5 5 * * *			N	
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB	4 times per year 2 times per year	5 5 5 5 5 5 * * * *				3	5 5 5 J	5 5 5 5 5 5 * * * * * *			N	
Reference South Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide Impact Station Downcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 * * * * * * *				3 3 3 3	5 5 5 J	* * * * * * * * * * * * * * * * * * *			N	
Reference South Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide Impact Station Downcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 5 * * * * * * * * * * * * *				3 3 3 3 3 3	5 5 5 J	* * * * * * * * * * * * * * * * * * *			N	
Reference South Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide Impact Station Downcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2 INE3 INE4	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 5 5 * * * * * * * * * 3 3 3 3				3 3 3 3 3 3 3 3	5 5 5 J	* * * * * * * * * * * * * * * * * * *			N	D
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide Impact Station Downcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2 INE3 INE4 INE5	4 times per year 2 times per year 2 times per year 2 times per year 2 times per year 4 times per year	5 5 5 5 5 * * * * * * * * * 3 3 3 3 3 3				3 3 3 3 3 3 3 3 3 3	5 5 5 J	* * * * * A 3 3 3 3 3 3 3 3 3 3 3 3 3 3			N	
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide Impact Station Downcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 * * * * * * * * * * 3 3 3 3				3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 J	* * * * * * * * * 3 3 3 3 3 3 3 3 3 3 3			N	
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide Impact Station Downcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2 RFE3 RFE4	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 7 8 * * * * * * * * * 3 3 3 3 3 3 3 3 3 3				3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 J	* * * * * * * * * * * * * * * * * * *			N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide Impact Station Downcurrent Intermediate Station Downcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2 RFE3 RFE4 RFE5	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 * * * * * * * * * * 3 3 3 3				3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 J	* * * * * * * * * * * * * * * * * * *			N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide Impact Station Downcurrent Intermediate Station Downcurrent Reference Station Upcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2 RFE3 RFE4 RFE5	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 5 * * * * * * * * * * 3 3 3 3				3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 J	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide Impact Station Downcurrent Intermediate Station Downcurrent Reference Station Upcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2 RFE3 RFE4 RFE5	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 * * * * * * * * 3 3 3 3 3 3				3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 J	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			N	33333333333333333333333333333333333333
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Reference South Capping Ebb Tide Impact Station Downcurrent Intermediate Station Downcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2 RFE3 RFE4 RFE5	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 * * * * * * * * * 3 3 3 3 3				3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 J	* * * * * * * * * * * * * * * * * * *			N	D D 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Tissue/ Whole Body Sampling Near-Pit Stations Reference North Capping Ebb Tide Impact Station Downcurrent Reference Station Downcurrent Flood Tide Impact Station Downcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2 RFE3 RFE4 RFE5 INF1 PFC2 INF3 INF1 INF1 INF1 INF1 INF1 INF1 INF1 INF1	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 5 7 8 * * * * * * * 3 3 3 3 3 3 3 3 3 3 3 3				3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 J	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			N	D D 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Flood Tide Fissue/ Whole Body Sampling Near-Pit Stations Reference North Capping Ebb Tide Intermediate Station Downcurrent Flood Tide Impact Station Downcurrent	TNA 1-5 TNB 1-5 TSA 1-5 TSB 1-5 INA INB TNA TNB TSA TSB IPE1 IPE2 IPE3 IPE4 PFC1 INE1 INE2 INE3 INE4 INE5 RFE1 RFE2 RFE3 RFE4 RFE5 INF1 PFC2 INF3 IPFC2 INF3 IPF1 IPFC2	4 times per year 2 times per year 4 times per year	5 5 5 5 5 5 5 * * * * * * * * * 3 3 3 3				3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 J	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			N	D D D D D D D D D D D D D D D D D D D

 $^{^{\}text{\tiny{II}} \star \text{\tiny{II}}}$ = Number of replicates depends on field catch or parameters

Annex A2 - East of Sha Chau Environmental Monitoring and Audit Sampling Schedule for CMP V until the end of 2011

							2011					
Water Quality Impact Monitoring for Dre	edging	F	M	Α	M	J	J	Α	S	О	N	D
Downcurrent Impact Stations	DS1	*	*	*	*	*	*	*	*	*	*	*
	DS2	*	*	*	*	*	*	*	*	*	*	*
	DS3	*	*	*	*	*	*	*	*	*	*	*
	DS4	*	*	*	*	*	*	*	*	*	*	*
	DS5	*	*	*	*	*	*	*	*	*	*	*
												1
Upcurrent Stations	US1	*	*	*	*	*	*	*	*	*	*	*
	US2	*	*	*	*	*	*	*	*	*	*	*
Ma Wan Station	MW1	*	*	*	*	*	*	*	*	*	*	*

Sampling completed Scheduled sampling

Annex B

Monitoring Results

Table B1 Summary Table of DO, Turbidity and TSS Levels recorded in March 2011

Sampling	Tidal	Station	U	e DO Levels	Average	Average
Date	Period		(:	mg/L)	Turbidity Level	TSS Level (mg/L)
			Bottom	Surface and Mid Depth	(NTU)	(111.6/12)
2011/03/08	ME	DS1	7.18	7.20	14.16	16.50
		DS2	7.18	7.21	12.56	15.50
		DS3	7.06	7.11	10.45	13.83
		DS4	7.10	7.17	9.30	10.17
		DS5	7.20	7.20	8.11	9.67
		MW1	7.23	7.18	3.00	4.17
		US1	7.37	7.35	23.37	30.00
		US2	7.39	7.36	14.83	20.17
	MF	DS1	7.33	7.45	14.64	20.00
		DS2	7.45	7.53	12.26	17.17
		DS3	7.57	7.56	10.72	12.83
		DS4	7.61	7.55	12.26	13.17
		DS5	7.57	7.51	7.25	8.33
		MW1	7.53	7.61	3.12	5.83
		US1	7.43	7.40	26.15	37.50
		US2	7.33	7.34	14.17	20.17

Annex C

Study Programme



