



Environmental Monitoring and Audit for Contaminated Mud Pits to the South of The Brothers and at East Sha Chau (2012-2017) – Investigation Agreement No. CE 23/2012(EP)

29th Monthly Progress Report for Contaminated Mud Pits to the South of The Brothers and at East Sha Chau – January 2015

Final (Revision 2)

6 May 2015

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Environmental Resources Management 16/F Berkshire House 25 Westlands Road Quarry Bay, Hong Kong Telephone (852) 2271 3000 Facsimile (852) 2723 5660



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Berkshire House 25 Westlands Road Quarry Bay Hong Kong Telephone: (852) 2271 3000 Facsimile: (852) 2723 5660 E-mail: post.hk@erm.com http://www.erm.com







Dredging, Management and Capping of Contaminated Sediment Disposal Facility to the South of The Brothers

Environmental Certification Sheet EP-427/2011/A

Reference Document/Plan

Document/ Plan- to be -Certified / Verified:	29 th Monthly Progress Report for Contaminated Mud Pits to the South of The Brothers and at East Sha Chau – January 2015
Date of Report:	16 February 2015
Date prepared by ET:	16 February 2015
Date received by IA:	16 February 2015

Reference EP Condition

Environmental Permit Condition:

Condition No.: 4.4

4 hard copies and 1 electronic copy of monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of the reporting month. The EM&A Reports shall include a summary of all noncompliance (exceedances) of the environmental quality performance limits (Action and Limit Levels). The submissions shall be certified by the ET Leader and verified by the Independent Auditor. Additional copies of the submission shall be provided to the Director upon request by the Director.

ET Certification

I hereby certify that the above referenced document/plan complies with the above referenced condition of EP-427/2011/A

Craig A. Reid, Environmental Team Leader:



Date:

Date:

16/2/2015

IA Verification

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-427/2011/A

Dr Wang Wen Xiong, Independent Auditor:

Meng

16/2/2015

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<u>Agreement No. CE 23/2012 (EP)</u> <u>Environmental Monitoring and Audit</u> <u>for Contaminated Mud Pits to the South of The Brothers and at East Sha</u> <u>Chau (2012-2017) - Investigation</u>

29TH MONTHLY PROGRESS REPORT FOR JANUARY 2015

1.1 BACKGROUND

- 1.1.1 Since early 1990s, contaminated sediment ⁽¹⁾ arising from various construction works (e.g. dredging and reclamation projects) in Hong Kong has been disposed of at a series of seabed pits at East of Sha Chau (ESC). In late 2008, a review indicated that the existing and planned facilities at ESC would not be able to meet the disposal demand after 2012. In order to meet this demand, the Hong Kong Special Administrative Region Government (HKSARG) decided to implement a new contained aquatic disposal (CAD) ⁽²⁾ facility at the South of The Brothers (SB CMPs) which had been under consideration for a number of years.
- 1.1.2The environmental acceptability of the construction and operation of the
Project had been confirmed by findings of the associated Environmental
Impact Assessment (EIA) study completed in 2005 under Agreement No.

 <br
- 1.1.3 In accordance with the EIA recommendation, prior to commencement of construction works for the SB CMPs, the Civil Engineering and Development Department (CEDD) undertook a detailed review and update of the EIA findings for the SB site ⁽⁴⁾. Findings of the EIA review undertaken in 2009/2010 confirmed that the construction and operation of the SB site had been predicted to be environmentally acceptable.

According to the Management Framework of Dredged/ Excavated Sediment of ETWB TC(W) No. 34/2002, contaminated sediment in general shall mean those sediment requiring Type 2 – Confined Marine Disposal as determined according to this TC(W).

⁽²⁾ CAD options may involve use of excavated borrow pits, or may involve purpose-built excavated pits. CAD sites are those which involve filling a seabed pit with contaminated mud and capping it with uncontaminated material such that the original seabed level is restored and the contaminated material is isolated from the surrounding marine environment.7

⁽³⁾ Detailed Site Selection Study for a Proposed Contaminated Mud Disposal Facility within the Airport East/ East of Sha Chau Area (Agreement No. CE 12/2002(EP))

⁽⁴⁾ Under the CEDD study Contaminated Sediment Disposal Facility to the South of The Brothers (Agreement No. FM 2/2009)

- 1.1.4 *Environmental Permits (EPs) (EP-312/2008/A* and *EP-427/2011A*) were issued by the Environmental Protection Department (EPD) to the CEDD, the Permit Holder, on 28 November 2008 for ESC CMP V and on 23 December 2011 for SB CMPs, respectively. Under the requirements of the *EPs*, an Environmental Monitoring and Audit (EM&A) programme as set out in the EM&A Manuals ^{(1) (2)} is required to be implemented for the CMPs.
- 1.1.5The present EM&A programme under Agreement No. CE 23/2012 (EP) covers
the dredging, disposal and capping operations of the SB CMPs as well as ESC
CMPs. Detailed works schedule for both CMPs is shown in Figure 1.1. In
January 2015, the following works were being undertaken at the CMPs:
 - Capping operations at ESC CMP Va;
 - Disposal of contaminated mud at SB CMP 2; and
 - Capping operations at SB CMP 1.

Figure 1.1 Works Schedule for ESC CMPs and SB CMPs

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SB CMP 2	Backfilling																																																						
	Capping																																																						

1.2 **REPORTING PERIOD**

- 1.2.1 This 29th Monthly Progress Report covers the EM&A activities for the reporting month of January 2015.
- **1.3** DETAILS OF SAMPLING AND LABORATORY TESTING ACTIVITIES
- 1.3.1 No monitoring activities have been undertaken for ESC CMPs in January 2015.
- 1.3.2 The following monitoring activities have been undertaken for SB CMPs in January 2015:
 - Water Column Profiling of CMP 2 was undertaken on 14 January 2015;

(1) ERM (2012) Environmental Monitoring and Audit (EM&A) Manual. Final First Review. Environmental Monitoring and Audit for Contaminated Mud Pits to the South of the Brothers and at East Sha Chau (2012-2017) – Investigation. Agreement No. CE 23/2012(EP). Submitted to EPD in November 2012.

(2) ERM (2010) Environmental Monitoring and Audit (EM&A) Manual. Final Second Review. Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) – Investigation. Agreement No. CE 4/2009(EP). Submitted to EPD in November 2010.

- *Routine Water Quality Monitoring of CMP 2* was undertaken on 15 January 2015;
- *Pit Specific Sediment Chemistry of CMP 2* was undertaken on 16 January 2015; and
- Demersal Trawling for SB CMP was undertaken on 15 and 16 January 2015.

1.4 DETAILS OF OUTSTANDING SAMPLING AND/OR ANALYSIS

- 1.4.1 No outstanding sampling remained for January 2015. The following laboratory analyses were still in progress during the preparation of this monthly report and hence are not presented in this monthly report:
 - Laboratory analyses of sediment samples collected for *Pit Specific Sediment Chemistry* in January 2015;
 - Laboratory analyses of water samples collected for *Routine Water Quality Monitoring* in January 2015; and
 - Taxonomic identification of fishery resources collected during *Demersal Trawling for SB CMP* in January 2015.
- 1.4.2 A summary of field activities conducted are presented in *Annex A*.
- 1.5 BRIEF DISCUSSION OF THE MONITORING RESULTS FOR SBCMPs
- 1.5.1A brief discussion of the monitoring results of the following activities for SB
CMPs is presented in this 29th Monthly Progress Report:
 - *Pit Specific Sediment Chemistry of CMP 2* conducted in December 2014;
 - *In-situ* measurements of *Routine Water Quality Monitoring* conducted in January 2015;
 - Water Column Profiling conducted in January 2015; and
 - Laboratory analyses of samples collected for *Water Quality Monitoring during Capping of CMP 1* conducted in December 2014.

- 1.5.2 Pit Specific Sediment Chemistry of CMP 2 - December 2014 1.5.3 Monitoring locations for *Pit Specific Sediment Chemistry for CMP* 2 are shown in Figure 1.2. A total of six (6) monitoring stations were sampled in December 2014. 1.5.4 The concentrations of all inorganic contaminants were lower than the Lower Chemical Exceedance Level (LCEL) at all stations in December 2014 (Figures 1 and 2 of Annex B). 1.5.5 For organic contaminants, the concentrations of Total Organic Carbon (TOC) were similar amongst stations in December 2014 (Figure 3 of Annex B). Tributyltins (TBTs) were observed to be higher at Active Pit station SB-NPBB in December 2014 (*Figures 4* of *Annex B*). High Molecular Weight Polycyclic Aromatic Hydrocarbons (MW PAHs) and Low MW PAHs were below the limit of reporting at all stations in December 2014 (Figures 5 of Annex B). Total Dichloro-Diphenyl-Trichloroethane (DDT), 4,4'-Dichloro-Diphenyl-
 - Dichloro-Diphenyl-Trichloroethane (DDT), 4,4 -Dichloro-Diphenyl-Dichloroethylene (4,4'-DDE) and Total Polychlorinated Biphenyls (PCBs) were recorded below the limit of reporting at all stations in December 2014 as well.
- 1.5.6 Higher TBTs concentrations were recorded within the Active Pit stations only which were receiving contaminated mud during the reporting month, as such, there is no evidence indicating any dispersal of contaminants from CMP 2 (Active Pit) to nearby sensitive receivers.
- 1.5.7 Overall, there is no evidence indicating any unacceptable environmental impacts to sediment quality as a result of the contaminated mud disposal operations at CMP 2 in December 2014.
- 1.5.8 Routine Water Quality Monitoring of SB CMP 2 January 2015
- 1.5.9 The monitoring results for the *Routine Water Quality Monitoring* conducted in January 2015 in the dry season have been assessed for compliance with the Water Quality Objectives (WQOs) set by EPD. This consists of a review of the EPD routine water quality monitoring data for the dry season period (November to March) of 2004 - 2013 from stations in the Northwestern Water Control Zone, where the CMPs are located. For Salinity, the averaged value obtained from the Reference stations was used for the basis as the WQO. Levels of DO, Turbidity and SS were also assessed for compliance with the Action and Limit Levels (see *Table C1* of *Annex C* for details). The monitoring results are shown in *Figures 6-10* of *Annex B* and *Table C2* of *Annex C*. A total of fourteen (14) monitoring stations were sampled in January 2015 as shown in *Figure 1.3*.

In-situ Measurements

- 1.5.10 Analyses of results for January 2015 indicated that the levels of pH, DO and Salinity complied with the WQOs at all stations (Impact, Intermediate, Reference and Water Sensitive Receiver stations) in January 2015 (*Figures 6-9 of Annex B*).
- 1.5.11 The levels of DO and Turbidity complied with the Action and Limit Levels at all stations (*Figures 8* and 10 of *Annex B*; *Table C1* of *Annex C*).
- 1.5.12 Overall, results of the *Routine Water Quality Monitoring* indicated that the disposal operation at CMP 1 did not appear to cause any unacceptable impacts in water quality in January 2015.
- 1.5.13 Water Column Profiling of CMP 2 January 2015
- 1.5.14 *Water Column Profiling* was undertaken at a total of two sampling stations (Upstream and Downstream stations) on 14 January 2015. The water quality monitoring results have been assessed for compliance with the WQO (see *Section 1.5.9* for details). The monitoring results were also compared with the Action and Limit Levels set in *Baseline Monitoring Report* (see *Table C1* of *Annex C* for details).

In-situ Measurements

1.5.15 Analyses of results for January 2015 indicated that levels of Salinity, DO and pH complied with the WQOs at both Downstream and Upstream stations (*Table C3* of *Annex C*). DO and Turbidity levels at all stations complied with the Action and Limit Levels (*Tables C1 and C3* of *Annex C*).

Laboratory Measurements for SS

- 1.5.16 Analyses of results for January 2015 indicated that the SS levels at both Upstream and Downstream stations complied with the WQO. SS levels at all stations also complied with the Action and Limit Levels (*Tables C1 and C3* of *Annex C*).
- 1.5.17 Overall, the monitoring results indicated that the mud disposal operation at CMP 2 did not appear to cause any unacceptable impacts in water quality during this reporting period.





1.5.18	<i>Water Quality Monitoring during Capping Operations of CMP 1– December</i> 2014
1.5.19	The monitoring results obtained during December 2014 sampling in the dry season have been assessed for compliance with the WQOs (see <i>Section 1.5.9</i> for details). A total of fourteen (14) monitoring stations were sampled in December 2014 as shown in <i>Figure 1.3.</i> Graphical presentation of the monitoring results is provided in <i>Annex B</i> .
	Laboratory Measurements
1.5.20	Concentrations of SS complied with the WQO at all stations in December 2014 (<i>Figure 11</i> of <i>Annex B</i>).
1.5.21	For nutrients, concentrations of Ammonia (NH ₃) and 5-day Biochemical Oxygen Demand (BOD ₅) were similar amongst all stations (<i>Figures 12</i> and 14 of <i>Annex B</i>). Total Inorganic Nitrogen (TIN) at all stations complied with the WQO of 0.5 mg/L in December 2014 (<i>Figure 13</i> of <i>Annex B</i>).
1.5.22	Statistical analysis will be undertaken in the quarterly report to investigate whether the capping operations at CMP 1 is causing any unacceptable impacts in water quality of the area.
1.6	ACTIVITIES SCHEDULED FOR THE NEXT MONTH
1.6.1	The following monitoring activities will be conducted in the next monthly period of February 2015 for SB CMPs:
	• Pit Specific Sediment Chemistry of CMP 2;
	• Cumulative Impact Sediment Chemistry of SB CMP;
	• Sediment Toxicity Tests of CMP 2;
	• Tissue / Whole Body Analysis of Trawled Samples for SB CMP;
	• Demersal Trawling for CMP 2;
	• Routine Water Quality Monitoring for CMP 2;
	• Water Column Profiling of CMP 2; and
	• Water Quality Monitoring during Capping Operations of CMP 1.
1.6.2	<i>Water Quality Monitoring during Capping Operations of ESC CMPs</i> will be conducted in the next monthly period of February 2015 for ESC CMPs.
1.6.3	The sampling schedule is presented in Annex A.

1.7 STUDY PROGRAMME

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

Annex A

Sampling Schedule

Annex A1 - Environmental Monitoring and Audit Sampling Schedule for East of Sha Chau (September 2012 - February 2017)

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Annex A1 - Environmental Monitoring and Audit Sampling Schedule for East of Sha Chau (September 2012 - February 2017)

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Annex A1 - Environmental Monitoring and Audit Sampling Schedule for East of Sha Chau (September 2012 - February 2017)

			2012	2					201	13									20	14									20	15									2016					2	017
Routine Water Quality Monitor	ing	S	0	N D	J	F M	1 A	Μ	J	J	A S	0	N I	D J	F	Μ	Α	Μ	J	J	4	S	O N	D	J	F	Μ	A M	J	J	A S	0	Ν	D	JF	N	A N	Μ	JJ	Α	S	0	N I	D J	F
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	ESC-IPE2		*	*	* *	*	*	*		*	*																								* *		*	*	*	*		*	*	*	*
	ESC-IPE3		*	*	* :	*	*	*		*	*																								* *		*	*	*	*		*	*	*	*
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	ESC-INE3		*	*	* :	*	*	*		*	*																								* *		*	*	*	*		*	*	*	*
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	ESC-RFE3		*	*	* *	*	*	*		*	*																								* *		*	*	*	*		*	*	*	*
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Baseline Monitoring Prior to Dredging	Code	Frequency	J	A S	6 0	N D	J	F M	Α	Μ	JJ	Α	S O	Ν	D	J F	Μ	A N	ИJ	J	Α	S C	O N	D	JF	Μ	A I	ИJ	J	A S	0	N	D	J F	Μ	A I	M J	J	A	S O	N]	D J	F
Far Field Stations																																										T	
	SB-WFA	3 days per week for 4 weeks	*	*																																							
	SB-WFB	3 days per week for 4 weeks	*	*																																							
Mid Field Stations																																											
	SB-WMA	3 days per week for 4 weeks	*	*																																							
	SB-WMB	3 days per week for 4 weeks	*	*																																							_
Near Field Stations																																											
	SB-WNAA	3 days per week for 4 weeks	*	*																																							
	SB-WNAB	3 days per week for 4 weeks	*	*																																							_
	SB-WNBA	3 days per week for 4 weeks	*	*																																							
	SB-WNBB	3 days per week for 4 weeks	*	*																																							
Reference Stations																																											_
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	THB1	3 days per week for 4 weeks	*	*	_	+ $+$	_	+ $+$	_	\vdash				+			_	+	_	+							\vdash					$\downarrow \downarrow$			\vdash	\rightarrow		+	$ \rightarrow$	\rightarrow	\vdash	+	4
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	WSR45C	3 days per week for 4 weeks	*	*			_		_																																\vdash	_	
	WSR46	3 days per week for 4 weeks	*	*																																							
			_																																						<u> </u>		
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Upstream Stations																			_																	\rightarrow					\square	_	_
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Sensitive Receiver Stations	000	5 days per week													-																	+			+							+-	+
	MW1	3 days per week				* *	*	* *	*	*	* *	*	* *	*	*	* *	*	*	* *	*	*	* *	* *									+										+	
	THB1	3 days per week				* *	*	* *	*	*	* *	*	* *	*	*	* *	*	*	* *	*	*	* *	* *													-				_		+	+
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	WSR46	3 days per week				* *	*	* *	*	*	* *	*	* *	*	*	* *	*	* :	* *	*	*	* *	* *																				
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Near-Pit																																											
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	SB-NNAB	Monthly										12	12 12	12	12 1	12 12	12	12 1	2 12	2 12	12 1	12 13	.2 12												+						\vdash	_	_
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ivear-i it	SB-NNBA	Monthly			-									+	_	_								12	12 12) 12	12 1	2 12	12	12 17) 12	12	12		+	\rightarrow			<u> </u>	<u> </u>	\vdash	+-	
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Normation Normation Normation Normation N	Cumulative Impact Sediment Chemistr	у		J A	S O	N I	DJF	M A	M J	J	A S	O N	D	F M	A N	AJJ	A S C	N D	J	F M	A M	JJ	Α	S O	N I	D J	F	M A	М	JJ	Α	S O	N D	J	F
	Near-field Stations	•																																	1
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Benthic Recolonisation Studies			J	A S	0	N D	J	F M	A N	1 J	J A	S O	NI) J	F M	I A M	J	J A	S	O N	D	JF	M A	MJ	J	A S	O N	D	JFN	M A	M	JJ	Α	S O	N D	J	F
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Naming of stations are tentative only and will be subjected to changes Annex B

Graphical Presentations













Figure 11: Levels of Suspended Solids (mg/L; mean + SD) recorded from Water Quality Monitoring during Capping of SB CMP 1 in December 2014.



Figure 12: Levels of Ammonia (mg/L; mean + SD) recorded from Water Quality Monitoring during Capping of SB CMP 1 in December 2014.

Source:	H:\Team\EM\GMS Projects\0175086 CEDD EM&A for South Brothers\02 Deliverable\07 CMP Monthly Report\29th (January 2015)	Environmental Resources	0
Date:	13/2/2015	Management	ERM



Figure 13: Levels of Total Inorganic Nitrogen (mg/L; mean + SD) recorded from Water Quality Monitoring during Capping of SB CMP 1 in December 2014.



Figure 14: Levels of 5-Day Biochemical Oxygen Demand (mg/L; mean + SD) recorded from Water Quality Monitoring during Capping of SB CMP 1 in December 2014.

Source:	H:\Team\EM\GMS Projects\0175086 CEDD EM&A for South Brothers\02 Deliverable\07 CMP Monthly Report\29th (January 2015)	Environmental Resources	0
Date:	13/2/2015	Management	ERM

Annex C

Water Quality Monitoring Results

Parameter	Action Level	Limit Level
Dissolved Oxygen (DO) (1)	Surface and Mid-denth ⁽²⁾	Surface and Mid-depth ⁽²⁾
Dissolved Oxygen (DO) (4	The average of the impact WSR 45C	The average of the impact WSR 45C
	and WSR 46 station readings are < 5%-	and WSR 46 station readings are < 4
	ile of baseling data for surface and	mg L-1
	middle lower = 4.22 mg L-1	ling L ¹
	filldule layer – 4.52 ling L-1	and
		and
	and	Circuit country loss they the reference
		significantly less than the reference
	Significantly less than the reference	stations mean DO (at the same fide of
	stations mean DO (at the same tide of	the same day)
	the same day)	
	D . (1	D. 11
	Dottom The second as of the image to MCR 45C	<u>Dottom</u>
	The average of the impact, WSR 45C	The average of the impact station,
	and WSR 46 station readings are $< 5\%$ -	WSR 45C and WSR 46 readings are < 2
	11e of baseline data for bottom layers =	mg L ⁻¹
	5.12 llig L ⁻¹	and
	and	and
	anu	Significantly loss than the reference
	Significantly loss than the reference	stations mean DO (at the same tide of
	stations mean DQ (at the same tide of	stations mean DO (at the same tide of
	the same day)	the same day)
	the same day)	
Depth-averaged Suspended	The average of the impact, WSR 45C	The average of the impact, WSR 45C
Solids (SS) ⁽³⁾ ⁽⁴⁾	and WSR 46 station readings are >	and WSR 46 station readings are >
	95%-ile of baseline data for depth	99%-ile of baseline data for depth
	average = $21.60 \text{ mg } \text{L}^{-1}$	average = 40.10 mg L^{-1}
	and	and
	120% of control station's SS at the same	130% of control station's SS at the same
	tide of the same day	tide of the same day
Depth-averaged Turbidity	The average of the impact, WSR 45C	The average of the impact, WSR 45C
(Tby) ^{(3) (4)}	and WSR 46 station readings are >	and WSR 46 station readings are >
	95%-ile of baseline data = 25.04 NTU	99%-ile of baseline data = 32.68 NTU
	and	and
	100% of control stations The stat	1200/ of constant stations The stat
	120 % of control station's 1 by at the	150 % OF CONTROL STATION'S 1 by at the
	same tide of the same day	same fide of the same day
Notes		
110165.		

Table C1Action and Limit Levels of Water Quality for Dredging, Backfilling and
Capping Activities

(1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

(2) The Action and Limit Levels for DO for Surface & Middle layers were calculated from the combined pool of baseline surface layer data and baseline middle layer data.

(3) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

(4) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table C2In-situ Monitoring Results for Routine Water Quality Monitoring of CMP 2
in January 2015

Sampling	Chattana	Temp	Salinity	Turbidity	Dissolve	pН	
Period	Stations	(°C)	(ppt)	(NTU)	(%)	(mg L-1)	(mg L-1)
January	RFF (Reference)	17.48	31.63	8.18	91.72	7.25	7.91
2015	IPF (Impact)	17.38	31.61	3.69	89.62	7.11	7.93
	INF (Intermediate)	17.33	31.56	1.90	89.55	7.11	7.95
	Ma Wan	17.15	31.68	1.62	92.64	7.37	7.91
	Shum Shui Kok	17.44	31.70	1.21	91.37	7.23	7.90
	Tai Mo To	17.40	31.67	14.59	89.89	7.12	7.95
	Tai Ho Bay 1	17.38	31.10	12.43	89.68	7.13	7.90
	Tai Ho Bay 2	17.45	30.75	10.49	84.33	6.71	7.81
	WQO	N/A	28.47-34.80#	N/A	N/A	>4	6.5-8.5

Notes:

*Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station. Cell shaded yellow / red indicate value exceeding the Action/Limit levels.

Table C3Water Column Profiling Results for CMP 2 on 14 January 2015

Stations	Temp	Salinity	Turbidity	Diss Ox	pН	Suspended Solids	
	(°C)	(ppt)	(NTU)	(%)	(mg L-1)	(mg L-1)	(mg L-1)
WCP 1 (Downstream)	17.10	30.93	4.56	89.07	7.13	7.92	6.60
WCP 2 (Upstream)	17.66	31.58	1.27	88.01	6.94	7.92	4.65
WQO (dry season)	N/A	28.13- 34.73#	N/A	N/A	>4	6.5-8.5	13.7

Note: #Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station.

Annex D

Study Programme

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Submission of Draft Incention Report & Draft Programme			X 9	/18		+					_		_		_				_			_		_	+	+
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Submission of Final Operations Manual							/ 14						_												+-+-	_
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Monitoring Contracts		_		.																						—
Regular Site Inspections of CMP Contractors							+ +		++					+ +		+ +		++		+ +	+ +		++		+	4
Participate in Liaison Group Meetings/ Consultations as required by CEDD							+ +		+ - +			+ +				+ +		+ +		+ +	+ +		+ +			—
Submission of Report on Dredging & Capping Operations											0				۲)			٢				۲			
Submission of Monthly Progress Report			\diamond	\diamond	∲ ∲	> 🏠	\diamond	\rangle	\diamond	\diamond	> \0	$\cdot \diamond \langle$		\diamond (\rangle	\diamond	\rangle	\diamond (\rangle	$\diamond \diamond$	\diamond	\rangle	\diamond	$> \diamond$	$\diamond \diamond$, 🔷
Submission of Quarterly EM&A Report					\diamond		\diamond		\diamond		<	>	\diamond		<		\langle	>	<		\diamond		\diamond		\diamond	
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Submission of Annual Risk Assessment Report												۲														
Submission of Draft Final Report																										
Submission of the Final Report																										
Submission of Draft Executive Summary Report																										
Submission of Final Executive Summary Report																										
For East Tung Lung Chau Disposal Facility																										
Submission of Monitoring Results & Monthly EM&A Progress Report			\diamond	\diamond	4 ¢	> 🔷	\diamond	\rangle	\diamond	\diamond		$\cdot \diamond \langle$		\diamond	$\rangle \diamond$	\diamond	$\rangle \diamond$	\diamond	$\rangle \diamond$	$\diamond \diamond$	\diamond	$\rangle \diamond$	\diamond	$> \diamond$	$\diamond \diamond$	> 🔷
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Study Programme	Task	Milestone	♦	Summary	Rolled Up Task	0

