



Laboratories

Sediment



Metals

TEST REPORT

Report No. : 100976N
Project Name : Chemical and Biological Testing of Sediment (Service Contract)
 Agreement No. CE 42/2005 (WS) Laying of Western Cross Harbour Main
 and Associated Land Mains From West Kowloon To Sai Ying Pung - Investigation
 Chemical, Elutriate and Biological Testing of Marine Sediment and Seawater Samples
Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department
Address : 8/F Civil Engineering and Development Building, 101 Princess Margaret Road,
 Kowloon, Hong Kong

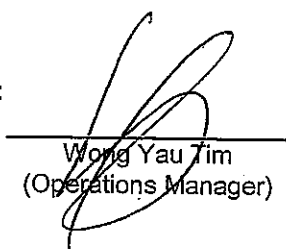
Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,18041,18053,
 18060,18073,18087,18089,18096,18107,18019
Sample Description : 85 samples said to be sediment
Sample Receipt Date : 6 September 2006 - 26 September 2006
Test Period : 7 September 2006 - 9 October 2006

Test Information

Code	Test Parameter	Reporting Limits	Test Procedure
		Sediment/Soil	
		mg/kg	
Cd	Cadmium	0.20	S/M/DIG-RAR & M/ICP-MS
Cr	Chromium	8.0	S/M/DIG-RAR & M/ICP-MS
Cu	Copper	7.0	S/M/DIG-RAR & M/ICP-MS
Ni	Nickel	4.0	S/M/DIG-RAR & M/ICP-MS
Pb	Lead	8.0	S/M/DIG-RAR & M/ICP-MS
Zn	Zinc	20	S/M/DIG-RAR & M/ICP-MS
Hg	Mercury	0.05	S/M/DIG-RAR & M/ICP-MS
As	Arsenic	1.0	S/M/DIG-RAR & M/ICP-MS
Ag	Silver	0.10	S/M/DIG-RAR & M/ICP-MS

- Notes :
1. This report shall not be reproduced, except in full, without prior approval from Lam Laboratories Ltd.
 2. Results related to samples as received.
 3. Results are based on dry sample weight.
 4. < = less than
 5. N/A = Not applicable
 6. Test results satisfy all in-house QA/QC protocols as attached.
 7. Test description (for in-house methods) as follows:
 S/M/DIG-RAR: Acid digestion.
 M/ICP-MS: ICP-MS Quantification.

Authorized Signatory :



Wong Yau Tim
(Operations Manager)

Issue Date: 27 Dec. 2006

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Test Result

Customer Ref. Drillhole No.	Sample				Cd mg/kg	Cr mg/kg	Cu mg/kg	Ni mg/kg	Pb mg/kg	Zn mg/kg	Hg mg/kg	As mg/kg	Ag mg/kg
	Depth, m			Type Specimen Depth, m									
	No.	From	To										
VC14a	NA	0.00	0.90	NA	0.28	33	80	16	28	81	0.25	5.4	1.4
VC14a	NA	0.90	1.90	NA	<0.20	23	16	15	18	50	0.10	4.5	0.10
VC14a	NA	1.90	2.90	NA	<0.20	33	10	22	46	63	0.11	5.5	<0.10
VC14a	NA	4.90	5.90	NA	<0.20	32	9.3	21	30	59	0.09	4.6	<0.10
VC14a	NA	7.90	8.90	NA	<0.20	31	10	21	27	58	0.08	4.0	<0.10
VC14a	NA	10.90	11.90	NA	<0.20	36	13	21	44	63	0.28	8.9	<0.10
VC5-a	NA	0.00	0.90	NA	0.38	45	140	22	38	110	0.30	7.3	1.4
VC5-a	NA	0.90	1.90	NA	<0.20	25	8.3	18	46	54	0.09	4.4	<0.10
VC5-a	NA	1.90	2.90	NA	<0.20	33	9.4	23	24	63	0.08	5.2	0.16
VC5-a	NA	4.90	5.90	NA	<0.20	29	9.4	20	28	57	0.06	5.1	<0.10
VC15a	NA	0.00	0.90	NA	<0.20	26	36	16	21	62	0.11	4.6	0.40
VC15a	NA	0.90	1.90	NA	<0.20	28	7.5	22	17	59	0.06	3.8	<0.10
VC15a	NA	1.90	2.90	NA	<0.20	27	7.7	20	19	59	0.06	4.7	<0.10
VC15a	NA	4.90	5.90	NA	<0.20	30	10	20	28	55	0.10	5.2	<0.10
VC15a	NA	7.90	8.90	NA	<0.20	30	10	20	32	57	0.06	6.2	0.10
VC15a	NA	10.90	11.90	NA	<0.20	29	11	15	27	50	0.07	15	<0.10
VC5a	NA	7.90	8.90	NA	<0.20	21	7.6	15	22	49	0.08	3.7	<0.10
VC5a	NA	10.90	11.90	NA	<0.20	23	8.3	17	31	52	0.28	6.1	<0.10
VC13a	NA	0.00	0.90	NA	0.25	21	55	9.2	55	98	0.25	4.8	1.7
VC13a	NA	0.90	1.90	NA	0.84	60	270	22	110	190	0.89	6.6	2.4

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Customer Ref. Drillhole No.	Sample				Cd mg/kg	Cr mg/kg	Cu mg/kg	Ni mg/kg	Pb mg/kg	Zn mg/kg	Hg mg/kg	As mg/kg	Ag mg/kg
	Depth, m			Type Specimen Depth, m									
	No.	From	To										
VC13a	NA	1.90	2.90	NA	<0.20	21	7.2	21	21	50	0.09	4.8	<0.10
VC13a	NA	4.90	5.90	NA	2.8	29	12	23	34	70	0.15	6.6	<0.10
VC13a	NA	7.70	8.70	NA	<0.20	20	7.1	12	20	38	0.05	4.7	<0.10
VC4a	NA	0.00	0.90	NA	0.36	26	77	13	130	190	0.28	5.5	2.1
VC4a	NA	0.90	1.90	NA	<0.20	22	9.4	18	22	54	0.08	5.6	<0.10
VC4a	NA	1.90	2.90	NA	<0.20	18	<7.0	15	20	44	<0.05	3.4	<0.10
VC4a	NA	4.90	5.90	NA	<0.20	33	13	26	35	75	0.07	6.8	<0.10
VC4a	NA	7.90	8.90	NA	<0.20	21	9.5	15	26	50	0.14	7.2	<0.10
VC4a	NA	10.90	11.90	NA	<0.20	<8.0	<7.0	<4.0	62	<20	0.62	5.0	<0.10
VC6a	NA	0.00	0.90	NA	0.45	23	360	13	69	250	0.63	6.3	1.70
VC6a	NA	0.90	1.90	NA	<0.20	23	10	19	25	64	0.23	2.7	<0.10
VC6a	NA	1.90	2.90	NA	<0.20	26	9.6	21	30	56	0.11	5.4	<0.10
VC6a	NA	4.90	5.90	NA	<0.20	27	12	23	28	56	0.10	6.4	<0.10
VC6a	NA	7.90	8.90	NA	<0.20	29	17	22	40	68	0.15	7.6	0.11
VC3a	NA	0.00	0.90	NA	<0.20	17	<7.0	14	17	45	0.07	4.2	<0.10
VC3a	NA	0.90	1.90	NA	<0.20	29	10	23	37	78	0.13	6.2	<0.10
VC3a	NA	1.90	2.90	NA	<0.20	29	12	25	33	68	0.09	10	0.11
VC7a	NA	0.00	0.90	NA	<0.20	16	11	13	38	46	0.17	4.2	0.15
VC7a	NA	0.90	1.90	NA	<0.20	20	<7.0	17	17	42	0.08	3.0	<0.10
VC7a	NA	1.90	2.90	NA	<0.20	20	<7.0	18	17	49	0.09	3.9	<0.10

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Customer Ref. Drillhole No.	Sample				Cd mg/kg	Cr mg/kg	Cu mg/kg	Ni mg/kg	Pb mg/kg	Zn mg/kg	Hg mg/kg	As mg/kg	Ag mg/kg
	Depth, m			Type Specimen Depth, m									
	No.	From	To										
VC7a	NA	4.90	5.90	NA	<0.20	31	14	23	40	70	0.09	9.1	<0.10
VC7a	NA	7.90	8.90	NA	<0.20	12	<7.0	<4.0	10	<20	<0.05	2.3	<0.10
VC2a	NA	0.00	0.90	NA	<0.20	19	8.5	17	20	47	0.16	2.5	<0.10
VC2a	NA	0.90	1.90	NA	<0.20	16	<7.0	12	18	39	0.06	3.7	<0.10
VC2a	NA	1.90	2.90	NA	<0.20	22	7.4	18	20	50	0.07	3.9	<0.10
VC2a	NA	4.90	5.90	NA	<0.20	33	13	26	34	68	0.09	7.8	<0.10
VC2a	NA	7.90	8.90	NA	<0.20	28	11	17	30	51	0.08	11	<0.10
VC2a	NA	10.90	11.30	NA	<0.20	18	7.7	<4.0	48	37	0.05	7.4	<0.10
Ref. Sediment	NA	NA	NA	NA	<0.20	24	12	17	32	64	0.07	5.2	0.11
VC11a	NA	0.00	0.90	NA	0.39	24	61	11	46	120	0.58	7.6	2.4
VC11a	NA	0.90	1.90	NA	0.29	36	50	18	78	130	0.62	7.2	1.1
VC11a	NA	1.90	2.90	NA	<0.20	23	7.1	19	18	53	0.06	5.6	<0.10
VC11a	NA	4.90	5.90	NA	<0.20	29	11	20	31	60	0.14	8.9	0.45
VC11a	NA	7.90	8.90	NA	<0.20	28	13	20	31	68	0.09	11	<0.10
VC11a	NA	10.90	11.90	NA	<0.20	18	8.5	10	24	37	0.06	12	<0.10
VC12a	NA	0.00	0.90	NA	<0.20	15	58	7.3	28	65	0.28	7.3	1.3
VC12a	NA	0.90	1.90	NA	<0.20	32	14	23	38	69	0.19	10	0.14
VC12a	NA	1.90	2.90	NA	<0.20	20	7.2	15	23	43	0.12	4.3	<0.10
VC12a	NA	4.90	5.90	NA	<0.20	29	12	18	35	61	0.24	9.6	<0.10
VC12a	NA	7.90	8.90	NA	<0.20	28	12	18	38	60	0.12	9.4	<0.10

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Test Result

Customer Ref. Drillhole No.	Sample				Cd mg/kg	Cr mg/kg	Cu mg/kg	Ni mg/kg	Pb mg/kg	Zn mg/kg	Hg mg/kg	As mg/kg	Ag mg/kg
	Depth, m			Type Specimen Depth, m									
	No.	From	To										
VC12a	NA	10.90	11.90	NA	<0.20	9.5	<7.0	6.1	16	22	0.07	4.9	<0.10
VC8a	NA	0.00	0.90	NA	0.69	55	190	22	84	180	0.92	7.6	3.1
VC8a	NA	0.90	1.90	NA	<0.20	24	9.0	19	33	62	0.26	3.8	<0.10
VC8a	NA	1.90	2.90	NA	<0.20	22	<7.0	17	19	52	0.07	4.4	<0.10
VC8a	NA	4.90	5.90	NA	<0.20	26	12	20	32	60	0.10	8.5	<0.10
VC8a	NA	7.90	8.90	NA	<0.20	26	12	19	38	60	0.11	9.4	<0.10
VC8a	NA	10.90	11.90	NA	<0.20	24	12	17	38	58	0.09	13	<0.10
VC10a	NA	0.00	0.90	NA	0.69	52	170	21	78	190	0.99	7.3	2.9
VC10a	NA	0.90	1.90	NA	<0.20	23	7.6	17	20	50	0.10	5.0	<0.10
VC10a	NA	1.90	2.90	NA	<0.20	22	<7.0	16	20	46	0.07	4.9	<0.10
VC10a	NA	4.90	5.90	NA	<0.20	27	9.8	20	35	58	0.10	7.2	<0.10
VC10a	NA	7.90	8.90	NA	<0.20	27	10	20	28	59	0.10	7.4	<0.10
VC10a	NA	10.90	11.90	NA	<0.20	27	12	18	32	58	0.08	9.7	<0.10
VC1a	NA	0.00	0.90	NA	<0.20	21	9.8	18	39	61	1.2	4.5	0.10
VC1a	NA	0.90	1.90	NA	<0.20	24	<7.0	19	18	52	0.06	3.3	<0.10
VC1a	NA	1.90	2.90	NA	<0.20	26	7.9	20	24	62	0.08	4.7	<0.10
VC1a	NA	4.90	5.90	NA	<0.20	27	10	19	30	59	0.09	7.1	<0.10
VC1a	NA	7.90	8.90	NA	<0.20	21	7.5	16	26	48	0.07	5.3	<0.10
VC1a	NA	10.90	11.90	NA	<0.20	27	12	20	37	63	0.08	10	<0.10
VC9a	NA	0.00	0.90	NA	0.40	26	65	15	100	120	1.1	8.2	1.8

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Test Result

Customer Ref. Drillhole No.	Sample				Cd mg/kg	Cr mg/kg	Cu mg/kg	Ni mg/kg	Pb mg/kg	Zn mg/kg	Hg mg/kg	As mg/kg	Ag mg/kg
	Depth, m			Type Specimen Depth, m									
	No.	From	To										
VC9a	NA	0.90	1.90	NA	<0.20	22	<7.0	19	20	57	0.12	3.7	<0.10
VC9a	NA	1.90	2.90	NA	<0.20	25	7.4	19	22	61	0.06	4.2	<0.10
VC9a	NA	4.90	5.90	NA	<0.20	28	12	20	30	60	0.08	8.0	<0.10
VC9a	NA	7.90	8.90	NA	<0.20	22	7.8	17	26	48	0.09	5.2	<0.10
VC9a	NA	10.90	11.90	NA	<0.20	23	11	17	30	56	0.07	9.4	<0.10

----End of Report----

QUALITY CONTROL REPORT

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Test Results**1.1 Sample Duplicate (Relative deviation)**

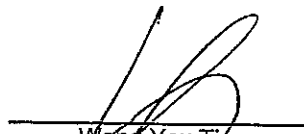
Customer Ref. Drillhole No.	Sample					Batch	Cd %	Cr %	Cu %	Ni %	Pb %	Zn %	Hg %	As %	Ag %
	Depth, m			Type	Specimen Depth m										
	No.	From	To												
VC14a	NA	10.90	11.90		NA	1	*na	2.8	0.0	4.3	25	1.0	9.3	3.9	*na
VC13a	NA	0.00	0.90		NA	2	20	1.3	15	6.3	21	25	3	4.8	25
VC2a	NA	0.90	1.90		NA	3	*na	18	*na	17	2.2	18	12	14	*na
Ref. Sediment	NA	NA	NA		NA	4	*na	1.9	2.5	1.7	2	4.3	15	2.6	1.1
VC10a	NA	0.00	0.90		NA	5	0.6	19	7.2	5.2	14	6.7	9.8	7.1	13
Control Limits							+/- 30 % of the mean								

1.2 Method Spike (Standard Addition)

Customer Ref. Drillhole No.	Sample					Batch	Cd %	Cr %	Cu %	Ni %	Pb %	Zn %	Hg %	As %	Ag %
	Depth, m			Type	Specimen Depth m										
	No.	From	To												
VC14a	NA	10.90	11.90		NA	1	98	99	89	93	108	95	99	89	97
VC13a	NA	0.00	0.90		NA	2	99	89	113	94	114	98	110	91	84
VC2a	NA	0.90	1.90		NA	3	101	101	98	110	108	107	107	91	90
Ref. Sediment	NA	NA	NA		NA	4	101	105	99	101	97	106	103	105	102
VC10a	NA	0.00	0.90		NA	5	105	90	83	95	98	99	108	110	113
Control Limits							75 - 125 %								

Note: 1. *na = Relative deviation(RD) for duplicates cannot be evaluated as the value determined is lower than reporting limits.
 2. Results are based on dry sample weight
 3. < = less than

Authorized Signatory :


 Wong Yau Tim
 (Operations Manager)

Issue Date: 27 Dec. 2006

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Test Results**1.3 Sample Reference Material (ISE 2005.3.1)**

Reference	Sample				Batch	Cd	Cr	Cu	Ni	Pb	Zn	Hg	As	Ag									
	Depth, m			Type											Specimen Depth m	%	%	%	%	%	%	%	%
	No.	From	To																				
ISE 2005.3.1	N/A	N/A	N/A		N/A	1	98	109	90	100	85	86	95	83	92								
ISE 2005.3.1	N/A	N/A	N/A		N/A	2	104	94	82	81	103	83	120	85	93								
ISE 2005.3.1	N/A	N/A	N/A		N/A	3	101	77	76	86	101	76	100	89	121								
ISE 2005.3.1	N/A	N/A	N/A		N/A	4	102	98	80	88	93	77	106	85	101								
ISE 2005.3.1	N/A	N/A	N/A		N/A	5	105	98	88	93	106	84	119	94	103								
Control Limits						75 - 125% of nominal value																	

1.4 Method Blank

Reference	Sample				Batch	Cd	Cr	Cu	Ni	Pb	Zn	Hg	As	Ag								
	Depth, m			Type											Specimen Depth m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	No.	From	To																			
N/A	N/A	N/A	N/A		N/A	1	<0.20	<8.0	<7.0	<4.0	<8.0	<20	<0.05	<1.0	<0.10							
N/A	N/A	N/A	N/A		N/A	2	<0.20	<8.0	<7.0	<4.0	<8.0	<20	<0.05	<1.0	<0.10							
N/A	N/A	N/A	N/A		N/A	3	<0.20	<8.0	<7.0	<4.0	<8.0	<20	<0.05	<1.0	<0.10							
N/A	N/A	N/A	N/A		N/A	4	<0.20	<8.0	<7.0	<4.0	<8.0	<20	<0.05	<1.0	<0.10							
N/A	N/A	N/A	N/A		N/A	5	<0.20	<8.0	<7.0	<4.0	<8.0	<20	<0.05	<1.0	<0.10							
Control Limits						Less than reporting limit																

Note: 1. Results are based on dry sample weight
 2. < = less than

PAHs

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Address : 8/F Civil Engineering and Development Building, 101 Princess Margaret Road,
 Kowloon, Hong Kong

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019
Sample Description : 85 samples said to be sediment
Sample Receipt Date : 06 September 2006 - 26 September 2006
Test Period : 07 September 2006 - 09 October 2006

Test Information**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs**

CODE	Test Parameter	Reporting Limit	Test Procedure
		ug/kg	
NAP	Naphthalene	55	S/O/PAH
ANY	Acenaphthylene	55	S/O/PAH
ANA	Acenaphthene	55	S/O/PAH
FLU	Fluorene	55	S/O/PAH
PHE	Phenanthrene	55	S/O/PAH
ANT	Anthracene	55	S/O/PAH
LMW PAH	Total LMW PAH	55	S/O/PAH

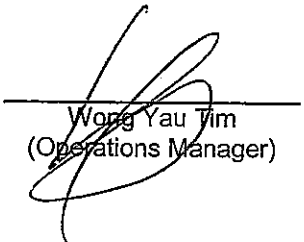
2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs

CODE	Test Parameter	Reporting Limit	Test Procedure
		ug/kg	
CHR	Chrysene	170	S/O/PAH
BaA	Benzo(a)anthracene	170	S/O/PAH
BbF	Benzo(b)fluoranthene	170	S/O/PAH
BkF	Benzo(k)fluoranthene	170	S/O/PAH
BaP	Benzo(a)pyrene	170	S/O/PAH
DBA	Dibenz(ah)anthracene	170	S/O/PAH
FLT	Fluoranthene	170	S/O/PAH
IPY	Indeno(1,2,3-cd)pyrene	170	S/O/PAH
PYR	Pyrene	170	S/O/PAH
BPE	Benzo(ghi)perylene	170	S/O/PAH
HMW PAH	Total HMW PAH	170	S/O/PAH

- Notes :
1. This report shall not be reproduced, except in full, without prior approval from Lam Laboratories Ltd.
 2. Results relate to samples as received.
 3. Results are based on dry sample weight.
 4. < = less than
 5. N/A = Not applicable
 6. Test results satisfy all in-house QA/QC protocols as attached.
 7. Test description (for in-house methods only) as follows:
S/O/PAH: Ultra-Sonic extraction and GC-MS Quantification.
 8. Total LMW PAH Equals to the summary of NAP, ANY, ANA, FLU, PHE, ANT.
 9. Total HMW PAH Equals to the summary of CHR, BaA, BbF, BkF, BaP, DBA, FLT, IPY, PYR, BPE.

Authorized Signatory :

Issue Date: 27 Dec. 2006


 Wong Yau Tim
 (Operations Manager)

TEST REPORT

Report No. : 100973N
Project Name : Chemical and Biological Testing of Sediment (Service Contract)
 Agreement No. CE 42/2005 (WS) Laying of Western Cross Harbour Main
 and Associated Land Mains From West Kowloon To Sai Ying Pung - Investigation
 Chemical, Elutriate and Biological Testing of Marine Sediment and Seawater Samples
Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs**

Customer Ref. Drillhole No.	Sample				NAP ug/kg	ANY ug/kg	ANA ug/kg	FLU ug/kg	PHE ug/kg	ANT ug/kg	LMW PAH ug/kg	
	Depth, m			Type								Specimen Depth m
	No.	From	To									
VC14a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	
VC14a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	
VC14a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	
VC14a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	
VC14a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	
VC14a	NA	10.90	11.90		NA	<55	<55	<55	<55	<55	<55	
VC5-a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	
VC5-a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	
VC5-a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	
VC5-a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	
VC15a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	
VC15a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	
VC15a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	
VC15a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	
VC15a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	
VC15a	NA	10.90	11.90		NA	<55	<55	<55	<55	<55	<55	
VC5a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	
VC5a	NA	10.90	11.90		NA	<55	<55	<55	<55	<55	<55	
VC13a	NA	0.00	0.90		NA	<55	<55	<55	<55	95	140	
VC13a	NA	0.90	1.90		NA	<55	<55	<55	<55	110	69	

TEST REPORT

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 Civil Engineering and Development Department

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs**

Customer Ref. Drillhole No.	Sample				CHR ug/kg	BaA ug/kg	BbF ug/kg	BkF ug/kg	BaP ug/kg	DBA ug/kg	FLT ug/kg	IPY ug/kg	PYR ug/kg	BPE ug/kg	HMW PAH ug/kg
	Depth, m			Type Specimen Depth m											
	No.	From	To												
VC14a	NA	0.00	0.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC14a	NA	0.90	1.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC14a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC14a	NA	4.90	5.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC14a	NA	7.90	8.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC14a	NA	10.90	11.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC5-a	NA	0.00	0.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC5-a	NA	0.90	1.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC5-a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC5-a	NA	4.90	5.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC15a	NA	0.00	0.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC15a	NA	0.90	1.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC15a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC15a	NA	4.90	5.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC15a	NA	7.90	8.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC15a	NA	10.90	11.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC5a	NA	7.90	8.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC5a	NA	10.90	11.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC13a	NA	0.00	0.90	NA	250	320	280	340	340	<170	390	<170	640	<170	2600
VC13a	NA	0.90	1.90	NA	<170	190	210	<170	210	<170	<170	<170	370	<170	1300

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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs**

Customer Ref. Drillhole No.	Sample			Type	Specimen Depth m	NAP ug/kg	ANY ug/kg	ANA ug/kg	FLU ug/kg	PHE ug/kg	ANT ug/kg	LMW PAH ug/kg
	Depth, m											
	No.	From	To									
VC13a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	<55
VC13a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	<55
VC13a	NA	7.70	8.70		NA	<55	<55	<55	<55	<55	<55	<55
VC4a	NA	0.00	0.90		NA	<55	<55	<55	<55	65	<55	99
VC4a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	<55
VC4a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	<55
VC4a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	<55
VC4a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	<55
VC4a	NA	10.90	11.90		NA	<55	<55	<55	<55	<55	<55	<55
VC6a	NA	0.00	0.90		NA	330	<55	<55	<55	250	<55	690
VC6a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	<55
VC6a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	<55
VC6a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	<55
VC6a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	<55
VC3a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	<55
VC3a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	<55
VC3a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	<55
VC7a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	<55
VC7a	NA	0.90	1.90		NA	<55	150	<55	<55	430	200	780
VC7a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	<55

TEST REPORT

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Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs**

Customer Ref. Drillhole No.	Sample				CHR ug/kg	BaA ug/kg	BbF ug/kg	BkF ug/kg	BaP ug/kg	DBA ug/kg	FLT ug/kg	IPY ug/kg	PYR ug/kg	BPE ug/kg	HMW PAH ug/kg
	Depth, m			Type Specimen Depth m											
	No.	From	To												
VC13a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC13a	NA	4.90	5.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC13a	NA	7.70	8.70	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC4a	NA	0.00	0.90	NA	<170	<170	210	<170	190	<170	<170	<170	200	<170	1000
VC4a	NA	0.90	1.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC4a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC4a	NA	4.90	5.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC4a	NA	7.90	8.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC4a	NA	10.90	11.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC6a	NA	0.00	0.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC6a	NA	0.90	1.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC6a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC6a	NA	4.90	5.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC6a	NA	7.90	8.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC3a	NA	0.00	0.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC3a	NA	0.90	1.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC3a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC7a	NA	0.00	0.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC7a	NA	0.90	1.90	NA	770	1200	1700	480	1200	<170	1300	340	1600	670	9200
VC7a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170

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Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs**

Customer Ref. Drillhole No.	Sample				Type	Specimen Depth m	NAP ug/kg	ANY ug/kg	ANA ug/kg	FLU ug/kg	PHE ug/kg	ANT ug/kg	LMW PAH ug/kg
	Depth, m												
	No.	From	To										
VC7a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC7a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC2a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC2a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC2a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC2a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC2a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC2a	NA	10.90	11.30		NA	<55	<55	<55	<55	<55	<55	<55	
Ref. Sediment	NA	NA	NA		NA	<55	<55	<55	<55	<55	<55	<55	
VC11a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC11a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC11a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC11a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC11a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC11a	NA	10.90	11.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC12a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC12a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC12a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC12a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	<55	
VC12a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	<55	

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Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs**

Customer Ref. Drillhole No.	Sample				CHR ug/kg	BaA ug/kg	BbF ug/kg	BkF ug/kg	BaP ug/kg	DBA ug/kg	FLT ug/kg	IPY ug/kg	PYR ug/kg	BPE ug/kg	HMW PAH ug/kg
	Depth, m			Type Specimen Depth m											
	No.	From	To												
VC7a	NA	4.90	5.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC7a	NA	7.90	8.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC2a	NA	0.00	0.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC2a	NA	0.90	1.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC2a	NA	1.90	2.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC2a	NA	4.90	5.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC2a	NA	7.90	8.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC2a	NA	10.90	11.30		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
Ref. Sediment	NA	NA	NA		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC11a	NA	0.00	0.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC11a	NA	0.90	1.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC11a	NA	1.90	2.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC11a	NA	4.90	5.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC11a	NA	7.90	8.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC11a	NA	10.90	11.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC12a	NA	0.00	0.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC12a	NA	0.90	1.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC12a	NA	1.90	2.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC12a	NA	4.90	5.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC12a	NA	7.90	8.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170

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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs**

Customer Ref. Drillhole No.	Sample				NAP ug/kg	ANY ug/kg	ANA ug/kg	FLU ug/kg	PHE ug/kg	ANT ug/kg	LMW PAH ug/kg	
	Depth, m			Type								Specimen Depth m
	No.	From	To									
VC12a	NA	10.90	11.90		NA	<55	<55	<55	<55	<55	<55	
VC8a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	
VC8a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	
VC8a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	
VC8a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	
VC8a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	
VC8a	NA	10.90	11.90		NA	<55	<55	<55	<55	<55	<55	
VC10a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	
VC10a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	
VC10a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	
VC10a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	
VC10a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	
VC10a	NA	10.90	11.90		NA	<55	<55	<55	<55	<55	<55	
VC1a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	<55	
VC1a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55	
VC1a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55	
VC1a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55	
VC1a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55	
VC1a	NA	10.90	11.90		NA	<55	<55	<55	<55	<55	<55	
VC9a	NA	0.00	0.90		NA	<55	<55	<55	<55	<55	130	

TEST REPORT

Report No. : 100973N
 Project Name : Chemical and Biological Testing of Sediment (Service Contract)
 Agreement No. CE 42/2005 (WS) Laying of Western Cross Harbour Main
 and Associated Land Mains From West Kowloon To Sai Ying Pung - Investigation
 Chemical, Elutriate and Biological Testing of Marine Sediment and Seawater Samples
 Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department

Lab Job No. : J469
 Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs**

Customer Ref. Drillhole No.	Sample				CHR ug/kg	BaA ug/kg	BbF ug/kg	BkF ug/kg	BaP ug/kg	DBA ug/kg	FLT ug/kg	IPY ug/kg	PYR ug/kg	BPE ug/kg	HMW PAH ug/kg
	Depth, m			Type Specimen Depth m											
	No.	From	To												
VC12a	NA	10.90	11.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC8a	NA	0.00	0.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC8a	NA	0.90	1.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC8a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC8a	NA	4.90	5.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC8a	NA	7.90	8.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC8a	NA	10.90	11.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC10a	NA	0.00	0.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	420
VC10a	NA	0.90	1.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC10a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC10a	NA	4.90	5.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC10a	NA	7.90	8.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC10a	NA	10.90	11.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC1a	NA	0.00	0.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC1a	NA	0.90	1.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC1a	NA	1.90	2.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC1a	NA	4.90	5.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC1a	NA	7.90	8.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC1a	NA	10.90	11.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC9a	NA	0.00	0.90	NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	1100

TEST REPORT

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Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs**

Customer Ref. Drillhole No.	Sample				NAP ug/kg	ANY ug/kg	ANA ug/kg	FLU ug/kg	PHE ug/kg	ANT ug/kg	LMW PAH ug/kg
	Depth, m			Type Specimen Depth m							
	No.	From	To								
VC9a	NA	0.90	1.90		NA	<55	<55	<55	<55	<55	<55
VC9a	NA	1.90	2.90		NA	<55	<55	<55	<55	<55	<55
VC9a	NA	4.90	5.90		NA	<55	<55	<55	<55	<55	<55
VC9a	NA	7.90	8.90		NA	<55	<55	<55	<55	<55	<55
VC9a	NA	10.90	11.90		NA	<55	<55	<55	<55	<55	<55

TEST REPORT

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Lab Job No. : J469
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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs**

Customer Ref. Drillhole No.	Sample				CHR ug/kg	BaA ug/kg	BbF ug/kg	BkF ug/kg	BaP ug/kg	DBA ug/kg	FLT ug/kg	IPY ug/kg	PYR ug/kg	BPE ug/kg	HMW PAH ug/kg	
	Depth, m			Type Specimen Depth m												
	No.	From	To													
VC9a	NA	0.90	1.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC9a	NA	1.90	2.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC9a	NA	4.90	5.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC9a	NA	7.90	8.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
VC9a	NA	10.90	11.90		NA	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170

-----End of Report-----

QUALITY CONTROL REPORT

Report No. : 100973N
 Project Name : Chemical and Biological Testing of Sediment (Service Contract)
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 Customer : Geotechnical Projects Division, Geotechnical Engineering office,
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 Lab Job No. : J469
 Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs****1.1 Sample Duplicate**

Customer Ref. Drillhole No.	Sample				Batch	NAP	ANY	ANA	FLU	PHE	ANT
	Depth, m			Type Specimen Depth m		%	%	%	%	%	%
	No.	From	To								
VC14a	N/A	0.00	0.90		N/A	1	na*	na*	na*	na*	na*
VC13a	N/A	0.00	0.90		N/A	2	na*	na*	na*	3.6	na*
Ref. Sediment	N/A	N/A	N/A		N/A	3	na*	na*	na*	na*	na*
Control Limits						+/- 30 % of the mean					


1.2 Sample Spike (Spike Level = 5 ug)

Customer Ref. Drillhole No.	Sample				Batch	NAP	ANY	ANA	FLU	PHE	ANT	
	Depth, m			Type Specimen Depth m		%	%	%	%	%	%	
	No.	From	To									
VC14a	N/A	0.00	0.90		N/A	1	102	109	107	98	99	103
VC13a	N/A	0.00	0.90		N/A	2	105	107	105	90	113	114
Ref. Sediment	N/A	N/A	N/A		N/A	3	109	108	111	98	110	95
Control Limits						70 - 130 %						

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

Authorized Signatory :


 Wong Yau Tim
 (Operations Manager)

Issue Date: : 27 Dec. 2006

QUALITY CONTROL REPORT

Report No. : 100973N
Project Name : Chemical and Biological Testing of Sediment (Service Contract)
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Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department
Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs****2.1 Sample Duplicate**

Customer Ref. Drillhole No.	Sample				Batch	CHR %	BaA %	BbF %	BkF %	BaP %	DBA %	FLT %	IPY %	PYR %	BPE %	
	Depth, m			Type												Specimen Depth m
	No.	From	To													
VC14a	N/A	0.00	0.90		N/A	1	na*	na*	na*	na*	na*	na*	na*	na*	na*	
VC13a	N/A	0.00	0.90		N/A	2	7.1	15	9.0	8.6	3.7	na*	8.0	na*	8.1	na*
Ref. Sediment	N/A	N/A	N/A		N/A	3	na*	na*	na*	na*	na*	na*	na*	na*	na*	
Control Limits						+/- 30 % of the mean										

2.2 Sample Spike (Spike Level = 5 ug)

Customer Ref. Drillhole No.	Sample				Batch	CHR %	BaA %	BbF %	BkF %	BaP %	DBA %	FLT %	IPY %	PYR %	BPE %	
	Depth, m			Type												Specimen Depth m
	No.	From	To													
VC14a	N/A	0.00	0.90		N/A	1	90	102	113	99	98	85	99	87	106	83
VC13a	N/A	0.00	0.90		N/A	2	90	83	87	89	94	87	76	90	93	92
Ref. Sediment	N/A	N/A	N/A		N/A	3	96	107	81	94	95	87	81	91	93	86
Control Limits						70 - 130 %										

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

QUALITY CONTROL REPORT

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Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs****1.3 QC Sample (SETOC 2002.3.3)**

Customer Ref. Drillhole No.	Sample				Batch	NAP	ANY	ANA	FLU	PHE	ANT	
	Depth, m			Type		Specimen Depth m	%	%	%	%	%	%
	No.	From	To				%	%	%	%	%	%
SETOC 2002.3.3	N/A	N/A	N/A		N/A	1	92	95	108	75	99	94
SETOC 2002.3.3	N/A	N/A	N/A		N/A	2	96	100	96	92	93	102
SETOC 2002.3.3	N/A	N/A	N/A		N/A	3	92	95	108	100	85	104
Control Limits						70 - 130 % of nominal value						

1.4 Method Blank

Customer Ref. Drillhole No.	Sample				Batch	NAP	ANY	ANA	FLU	PHE	ANT	
	Depth, m			Type		Specimen Depth m	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	No.	From	To				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
N/A	N/A	N/A	N/A		N/A	1	<55	<55	<55	<55	<55	<55
N/A	N/A	N/A	N/A		N/A	2	<55	<55	<55	<55	<55	<55
N/A	N/A	N/A	N/A		N/A	3	<55	<55	<55	<55	<55	<55
Control Limits						Less than reporting limit						

QUALITY CONTROL REPORT

Report No. : 100973N
Project Name : Chemical and Biological Testing of Sediment (Service Contract)
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Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs****2.3 QC Sample (SETOC 2002.3.3)**

Customer Ref. Drillhole No.	Sample					Batch	CHR	BaA	BbF	BkF	BaP	DBA	FLT	IPY	PYR	BPE
	Depth, m			Type	Specimen		%	%	%	%	%	%	%	%	%	%
	No.	From	To		Depth m											
SETOC 2002.3.3	N/A	N/A	N/A		N/A	1	91	93	93	87	98	92	97	83	101	89
SETOC 2002.3.3	N/A	N/A	N/A		N/A	2	90	87	84	102	84	98	106	91	115	90
SETOC 2002.3.3	N/A	N/A	N/A		N/A	3	89	100	81	99	93	98	100	82	118	97
Control Limits							70 - 130% of nominal value									

2.4 Method Blank

Customer Ref. Drillhole No.	Sample					Batch	CHR	BaA	BbF	BkF	BaP	DBA	FLT	IPY	PYR	BPE
	Depth, m			Type	Specimen		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	No.	From	To		Depth m											
N/A	N/A	N/A	N/A		N/A	1	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
N/A	N/A	N/A	N/A		N/A	2	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
N/A	N/A	N/A	N/A		N/A	3	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
Control Limits							Less than reporting limit									

QUALITY CONTROL REPORT

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Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs****1.5 Sample Duplicate**

Customer Ref. Drillhole No.	Sample				Batch	NAP %	ANY %	ANA %	FLU %	PHE %	ANT %
	Depth, m			Type Specimen Depth m							
	No.	From	To								
VC2a	N/A	0.00	0.90		N/A	4	na*	na*	na*	na*	na*
18072/1	N/A	N/A	N/A		N/A	5	na*	na*	na*	na*	na*
Control Limits						+/- 30 % of the mean					

1.6 Sample Spike (Spike Level = 5 ug)

Customer Ref. Drillhole No.	Sample				Batch	NAP %	ANY %	ANA %	FLU %	PHE %	ANT %	
	Depth, m			Type Specimen Depth m								
	No.	From	To									
VC2a	N/A	0.00	0.90		N/A	4	101	111	111	95	103	99
18072/1	N/A	N/A	N/A		N/A	5	110	93	109	102	110	113
Control Limits						70 - 130 %						

Notes :

- na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

QUALITY CONTROL REPORT

Report No. : 100973N
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Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs****2.5 Sample Duplicate**

Customer Ref. Drillhole No.	Sample					Batch	CHR %	BaA %	BbF %	BkF %	BaP %	DBA %	FLT %	IPY %	PYR %	BPE %
	Depth, m			Type	Specimen Depth m											
	No.	From	To													
VC2a	N/A	0.00	0.90		N/A	4	na*	na*	na*	na*	na*	na*	na*	na*	na*	na*
18072/1	N/A	N/A	N/A		N/A	5	na*	na*	na*	na*	na*	na*	na*	na*	na*	na*
Control Limits							+/- 30 % of the mean									

2.6 Sample Spike (Spike Level = 5 ug)

Customer Ref. Drillhole No.	Sample					Batch	CHR %	BaA %	BbF %	BkF %	BaP %	DBA %	FLT %	IPY %	PYR %	BPE %
	Depth, m			Type	Specimen Depth m											
	No.	From	To													
VC2a	N/A	0.00	0.90		N/A	4	89	91	94	99	96	89	84	88	97	98
18072/1	N/A	N/A	N/A		N/A	5	100	101	103	107	97	95	96	101	105	101
Control Limits							70 - 130 %									

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

QUALITY CONTROL REPORT

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Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1. Low Molecular Weight Polyaromatic Hydrocarbons, LMW PAHs****1.7 QC Sample (SETOC 2002.3.3)**

Customer Ref.	Sample					Batch	NAP	ANY	ANA	FLU	PHE	ANT
Drillhole No.	Depth, m			Type	Specimen Depth m		%	%	%	%	%	%
	No.	From	To				%	%	%	%	%	%
SETOC 2002.3.3	N/A	N/A	N/A		N/A	4	100	90	96	75	98	101
SETOC 2002.3.3	N/A	N/A	N/A		N/A	5	86	99	96	117	97	101
Control Limits							70 - 130 % of nominal value					

1.8 Method Blank

Customer Ref.	Sample					Batch	NAP	ANY	ANA	FLU	PHE	ANT
Drillhole No.	Depth, m			Type	Specimen Depth m		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	No.	From	To				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
N/A	N/A	N/A	N/A		N/A	4	<55	<55	<55	<55	<55	<55
N/A	N/A	N/A	N/A		N/A	5	<55	<55	<55	<55	<55	<55
Control Limits							Less than reporting limit					

QUALITY CONTROL REPORT

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Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**2. High Molecular Weight Polyaromatic Hydrocarbons, HMW PAHs****2.7 QC Sample (SETOC 2002.3.3)**

Customer Ref. Drillhole No.	Sample					Batch	CHR %	BaA %	BbF %	BkF %	BaP %	DBA %	FLT %	IPY %	PYR %	BPE %
	Depth, m			Type	Specimen Depth m											
	No.	From	To													
SETOC 2002.3.3	N/A	N/A	N/A		N/A	4	84	85	102	87	84	86	84	79	111	103
SETOC 2002.3.3	N/A	N/A	N/A		N/A	5	85	105	92	102	93	92	90	79	101	84
Control Limits							70 - 130% of nominal value									

2.8 Method Blank

Customer Ref. Drillhole No.	Sample					Batch	CHR ug/kg	BaA ug/kg	BbF ug/kg	BkF ug/kg	BaP ug/kg	DBA ug/kg	FLT ug/kg	IPY ug/kg	PYR ug/kg	BPE ug/kg
	Depth, m			Type	Specimen Depth m											
	No.	From	To													
N/A	N/A	N/A	N/A		N/A	4	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
N/A	N/A	N/A	N/A		N/A	5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
Control Limits							Less than reporting limit									



PCBs

TEST REPORT

Report No. : 100974N
Project Name : Chemical and Biological Testing of Sediment (Service Contract)
 Agreement No. CE 42/2005 (WS) Laying of Western Cross Harbour Main
 and Associated Land Mains From West Kowloon To Sai Ying Pung - Investigation
 Chemical, Elutriate and Biological Testing of Marine Sediment and Seawater Samples
Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department
Address : 8/F Civil Engineering and Development Building, 101 Princess Margaret Road,
 Kowloon, Hong Kong

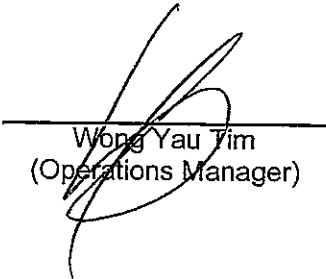
Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019
Sample Description : 85 samples said to be sediment
Sample Receipt Date : 06 September 2006 - 26 September 2006
Test Period : 07 September 2006 - 09 October 2006

Test Information

CODE	Test Parameter	Reporting Limit	Test Procedure
		ug/kg	
8	2,4' dichlorobiphenyl	3.0	S/O/PCB
18	2,2',5 trichlorobiphenyl	3.0	S/O/PCB
28	2,4,4' trichlorobiphenyl	3.0	S/O/PCB
44	2,2',3,5' tetrachlorobiphenyl	3.0	S/O/PCB
52	2,2',5,5' tetrachlorobiphenyl	3.0	S/O/PCB
66	2,3',4,4' tetrachlorobiphenyl	3.0	S/O/PCB
77	3,3',4,4' tetrachlorobiphenyl	3.0	S/O/PCB
101	2,2',4,5,5' pentachlorobiphenyl	3.0	S/O/PCB
105	2,3,3',4,4' pentachlorobiphenyl	3.0	S/O/PCB
118	2,3',4,4',5 pentachlorobiphenyl	3.0	S/O/PCB
126	3,3',4,4',5 pentachlorobiphenyl	3.0	S/O/PCB
128	2,2',3,3',4,4' hexachlorobiphenyl	3.0	S/O/PCB
138	2,2',3,4,4',5' hexachlorobiphenyl	3.0	S/O/PCB
153	2,2',4,4',5,5' hexachlorobiphenyl	3.0	S/O/PCB
169	3,3',4,4',5,5' hexachlorobiphenyl	3.0	S/O/PCB
170	2,2',3,3',4,4',5 heptachlorobiphenyl	3.0	S/O/PCB
180	2,2',3,4,4',5,5' heptachlorobiphenyl	3.0	S/O/PCB
187	2,2',3,4',5,5',6 heptachlorobiphenyl	3.0	S/O/PCB
Total PCB	Total PCB	3.0	S/O/PCB

- Notes :
1. This report shall not be reproduced, except in full, without prior approval from Lam Laboratories Ltd.
 2. Results relate to samples as received.
 3. Results are based on dry sample weight.
 4. < = less than
 5. N/A = Not applicable
 6. Test results satisfy all in-house QA/QC protocols as attached.
 7. Test description (for in-house methods only) as follows:
S/O/PCB: Ultra-Sonic extraction and GC-MS Quantification.
 8. Total PCB Equals to the summary of individual reported PCBs.

Authorized Signatory :


 Wong Yau Tim
 (Operations Manager)

Issue Date: 27 Dec. 2006

TEST REPORT

Report No. : 100974N
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Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref. Drillhole No.	Sample				8	18	28	44	52	66	77	101	105
	Depth, m			Type Specimen Depth m									
	No.	From	To										
VC14a	NA	0.00	0.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC14a	NA	0.90	1.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC14a	NA	1.90	2.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC14a	NA	4.90	5.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC14a	NA	7.90	8.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC14a	NA	10.90	11.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5-a	NA	0.00	0.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5-a	NA	0.90	1.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5-a	NA	1.90	2.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5-a	NA	4.90	5.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	0.00	0.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	0.90	1.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	1.90	2.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	4.90	5.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	7.90	8.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	10.90	11.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5a	NA	7.90	8.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5a	NA	10.90	11.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC13a	NA	0.00	0.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC13a	NA	0.90	1.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

TEST REPORT

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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref. Drillhole No.	Sample					118 ug/kg	126 ug/kg	128 ug/kg	138 ug/kg	153 ug/kg	169 ug/kg	170 ug/kg	180 ug/kg	187 ug/kg	Total PCB ug/kg
	Depth, m			Type	Specimen Depth m										
	No.	From	To												
VC14a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC14a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC14a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC14a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC14a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC14a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5-a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5-a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5-a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5-a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC15a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC5a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC13a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC13a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	7.5

TEST REPORT

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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref. Drillhole No.	Sample				Type Specimen Depth m	8	18	28	44	52	66	77	101	105
	Depth, m					ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	No.	From	To			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
VC13a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC13a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC13a	NA	7.70	8.70		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC4a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC4a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC4a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC4a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC4a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC4a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC6a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	4.4 <3.0	
VC6a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC6a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC6a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC6a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC3a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC3a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC3a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC7a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC7a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
VC7a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	

TEST REPORT

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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref.	Sample					118	126	128	138	153	169	170	180	187	Total PCB ug/kg
	Drillhole No.	Depth, m			Type Specimen Depth m	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	
		No.	From	To											
VC13a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC13a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC13a	NA	7.70	8.70		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC4a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC4a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC4a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC4a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC4a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC4a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC6a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	12	12	<3.0	3.0	6.6	<3.0	41
VC6a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC6a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC6a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC6a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC3a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC3a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC3a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC7a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC7a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC7a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref.	Sample				8	18	28	44	52	66	77	101	105		
	Drillhole No.	Depth, m												Type	Specimen Depth m
		No.	From	To											
VC7a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC7a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC2a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC2a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC2a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC2a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC2a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC2a	NA	10.90	11.30		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
Ref. Sediment	NA	NA	NA		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC11a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC11a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC11a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC11a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC11a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC11a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC12a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC12a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC12a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC12a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		
VC12a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		

TEST REPORT

Report No. : 100974N
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 and Associated Land Mains From West Kowloon To Sai Ying Pung - Investigation
 Chemical, Elutriate and Biological Testing of Marine Sediment and Seawater Samples
Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref. Drillhole No.	Sample				118 ug/kg	126 ug/kg	128 ug/kg	138 ug/kg	153 ug/kg	169 ug/kg	170 ug/kg	180 ug/kg	187 ug/kg	Total PCB ug/kg
	Depth, m			Type Specimen Depth m										
	No.	From	To											
VC7a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC7a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC2a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC2a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC2a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC2a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC2a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC2a	NA	10.90	11.30		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Ref. Sediment	NA	NA	NA		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC11a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC11a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	6.3
VC11a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC11a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC11a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC11a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC12a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC12a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC12a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC12a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC12a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

TEST REPORT

Report No. : 100974N
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Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref.	Sample				8	18	28	44	52	66	77	101	105
	Depth, m			Type	Specimen Depth m	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	No.	From	To										
VC12a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC9a	NA	0.00	0.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

TEST REPORT

Report No. : 100974N
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Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref. Drillhole No.	Sample				118 ug/kg	126 ug/kg	128 ug/kg	138 ug/kg	153 ug/kg	169 ug/kg	170 ug/kg	180 ug/kg	187 ug/kg	Total PCB ug/kg
	Depth, m			Type Specimen Depth m										
	No.	From	To											
VC12a	NA	10.90	11.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	0.00	0.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	0.90	1.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	1.90	2.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	4.90	5.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	7.90	8.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC8a	NA	10.90	11.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	0.00	0.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	6.0
VC10a	NA	0.90	1.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	1.90	2.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	4.90	5.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	7.90	8.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC10a	NA	10.90	11.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	0.00	0.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	0.90	1.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	1.90	2.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	4.90	5.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	7.90	8.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC1a	NA	10.90	11.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC9a	NA	0.00	0.90	NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	5.2

TEST REPORT

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Lab Job No. : J469
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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref.	Sample				8	18	28	44	52	66	77	101	105
	Depth, m			Type	Specimen Depth m	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	No.	From	To										
VC9a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC9a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC9a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC9a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC9a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

TEST REPORT

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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref.	Sample				118	126	128	138	153	169	170	180	187	Total
Drillhole No.	Depth, m			Type	Specimen	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	PCB
	No.	From	To		Depth m									
VC9a	NA	0.90	1.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC9a	NA	1.90	2.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	18
VC9a	NA	4.90	5.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC9a	NA	7.90	8.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
VC9a	NA	10.90	11.90		NA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

-----End of Report-----

QUALITY CONTROL REPORT

Report No. : 100974N
 Project Name : Chemical and Biological Testing of Sediment (Service Contract)
 Agreement No. CE 42/2005 (WS) Laying of Western Cross Harbour Main
 and Associated Land Mains From West Kowloon To Sai Ying Pung - Investigation
 Chemical, Elutriate and Biological Testing of Marine Sediment and Seawater Samples
 Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department
 Lab Job No. : J469
 Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1.1 Sample Duplicate**

Customer Ref.	Sample				Batch	8	18	28	44	52	66	77	101	105
	Drillhole No.	Depth, m				Specimen Depth m	%	%	%	%	%	%	%	%
		No.	From	To										
VC14a	N/A	0.00	0.90		N/A	1	na*	na*	na*	na*	na*	na*	na*	na*
VC13a	N/A	0.00	0.90		N/A	2	na*	na*	na*	na*	na*	na*	na*	na*
Ref. Sediment	N/A	N/A	N/A		N/A	3	na*	na*	na*	na*	na*	na*	na*	na*
Control Limit						+/- 30% of the mean								

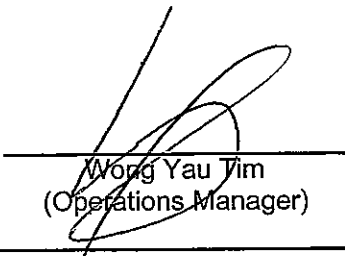
1.2 Sample Spike (Spike Level = 1 ug)

Customer Ref.	Sample				Batch	8	18	28	44	52	66	77	101	105	
	Drillhole No.	Depth, m				Specimen Depth m	%	%	%	%	%	%	%	%	
		No.	From	To											
VC14a	N/A	0.00	0.90		N/A	1	78	90	92	94	94	91	95	98	89
VC13a	N/A	0.00	0.90		N/A	2	90	111	95	97	107	79	108	81	78
Ref. Sediment	N/A	N/A	N/A		N/A	3	91	97	83	100	95	88	85	94	76
Control Limit						70-130 %									

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated
 as the value determined is lower than reporting limit.

Authorized Signatory :



Wong Yau Tim
 (Operations Manager)

Issue Date: : 27 Dec. 2006

QUALITY CONTROL REPORT

Report No. : 100974N
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Customer : Geotechnical Projects Division, Geotechnical Engineering office,
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Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1.3 Sample Duplicate**

Customer Ref.	Sample					Batch	118	126	128	138	153	169	170	180	187
	Depth, m			Type	Specimen Depth m		%	%	%	%	%	%	%	%	%
	No.	From	To				%	%	%	%	%	%	%	%	
VC14a	N/A	0.00	0.90		N/A	1	na*	na*	na*	na*	na*	na*	na*	na*	na*
VC13a	N/A	0.00	0.90		N/A	2	na*	na*	na*	na*	na*	na*	na*	na*	na*
Ref. Sediment	N/A	N/A	N/A		N/A	3	na*	na*	na*	na*	na*	na*	na*	na*	na*
Control Limit						+/- 30% of the mean									

1.4 Sample Spike (Spike Level = 1 ug)

Customer Ref.	Sample					Batch	118	126	128	138	153	169	170	180	187
	Depth, m			Type	Specimen Depth m		%	%	%	%	%	%	%	%	%
	No.	From	To				%	%	%	%	%	%	%	%	
VC14a	N/A	0.00	0.90		N/A	1	103	94	87	81	85	96	96	95	79
VC13a	N/A	0.00	0.90		N/A	2	86	86	96	88	92	87	91	87	92
Ref. Sediment	N/A	N/A	N/A		N/A	3	86	96	85	90	96	79	94	91	91
Control Limit						70-130 %									

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

QUALITY CONTROL REPORT

Report No. : 100974N
Project Name : Chemical and Biological Testing of Sediment (Service Contract)
 Agreement No. CE 42/2005 (WS) Laying of Western Cross Harbour Main
 and Associated Land Mains From West Kowloon To Sai Ying Pung - Investigation
 Chemical, Elutriate and Biological Testing of Marine Sediment and Seawater Samples
Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**2.1 QC Sample (SETOC 2002.4.4)**

Customer Ref.	Batch	28	52	101	105	118	128	138	153	180
Drillhole No.		%	%	%	%	%	%	%	%	%
SETOC 2002.4.4	1	114	116	89	113	99	104	97	90	105
SETOC 2002.4.4	2	104	93	88	92	98	99	106	80	105
SETOC 2002.4.4	3	117	97	84	106	106	83	85	84	87
Control Limit		70 - 130% of nominal value								

2.2 Method Blank

Customer Ref.	Sample				Batch	8	18	28	44	52	66	77	101	105
	Depth, m			Type Specimen		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	No.	From	To											
N/A	N/A	N/A	N/A		N/A	1	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
N/A	N/A	N/A	N/A		N/A	2	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
N/A	N/A	N/A	N/A		N/A	3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Control Limit						less than reporting limit								

Customer Ref.	Sample				Batch	118	126	128	138	153	169	170	180	187
	Depth, m			Type Specimen		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	No.	From	To											
N/A	N/A	N/A	N/A		N/A	1	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
N/A	N/A	N/A	N/A		N/A	2	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
N/A	N/A	N/A	N/A		N/A	3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Control Limit						less than reporting limit								

QUALITY CONTROL REPORT

Report No. : 100974N
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 Civil Engineering and Development Department

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1.5 Sample Duplicate**

Customer Ref.	Sample					Batch	8	18	28	44	52	66	77	101	105
	Depth, m			Type	Specimen Depth m		%	%	%	%	%	%	%	%	%
	No.	From	To				%	%	%	%	%	%	%	%	%
VC2a	N/A	0.00	0.90		N/A	4	na*	na*	na*	na*	na*	na*	na*	na*	
18072/1	N/A	N/A	N/A		N/A	5	na*	na*	na*	na*	na*	na*	na*	na*	
Control Limit						+/- 30% of the mean									

1.6 Sample Spike (Spike Level = 1 ug)

Customer Ref.	Sample					Batch	8	18	28	44	52	66	77	101	105
	Depth, m			Type	Specimen Depth m		%	%	%	%	%	%	%	%	%
	No.	From	To				%	%	%	%	%	%	%	%	
VC2a	N/A	0.00	0.90		N/A	4	85	99	79	92	95	95	92	97	
18072/1	N/A	N/A	N/A		N/A	5	84	100	99	90	98	99	95	88	
Control Limit						70-130 %									

Notes :

- na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

QUALITY CONTROL REPORT

Report No. : 100974N
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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1.7 Sample Duplicate**

Customer Ref.	Sample					Batch	118	126	128	138	153	169	170	180	187
	Depth, m			Type	Specimen Depth m		%	%	%	%	%	%	%	%	%
	No.	From	To				%	%	%	%	%	%	%	%	
VC2a	N/A	0.00	0.90		N/A	4	na*	na*	na*	na*	na*	na*	na*	na*	na*
18072/1	N/A	N/A	N/A		N/A	5	na*	na*	na*	na*	na*	na*	na*	na*	na*
Control Limit						+/- 30% of the mean									

1.8 Sample Spike (Spike Level = 1 ug)

Customer Ref.	Sample					Batch	118	126	128	138	153	169	170	180	187
	Depth, m			Type	Specimen Depth m		%	%	%	%	%	%	%	%	%
	No.	From	To				%	%	%	%	%	%	%	%	
VC2a	N/A	0.00	0.90		N/A	4	87	94	91	91	85	89	99	94	101
18072/1	N/A	N/A	N/A		N/A	5	84	76	85	94	91	82	101	85	92
Control Limit						70-130 %									

Notes :

1. na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

QUALITY CONTROL REPORT

Report No. : 100974N
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 Civil Engineering and Development Department
 Lab Job No. : J469
 Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**2.3 QC Sample (SETOC 2002.4.4)**

Customer Ref.	Batch	28	52	101	105	118	128	138	153	180
Drillhole No.		%	%	%	%	%	%	%	%	%
SETOC 2002.4.4	4	103	99	88	94	81	85	94	80	90
SETOC 2002.4.4	5	106	102	97	87	106	91	122	97	106
Control Limit		70 - 130% of nominal value								

2.4 Method Blank

Customer Ref.	Sample				Batch	8	18	28	44	52	66	77	101	105
	Depth, m			Type Specimen		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	No.	From	To											
N/A	N/A	N/A	N/A		N/A	4	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
N/A	N/A	N/A	N/A		N/A	5	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Control Limit						less than reporting limit								

Customer Ref.	Sample				Batch	118	126	128	138	153	169	170	180	187
	Depth, m			Type Specimen		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	No.	From	To											
N/A	N/A	N/A	N/A		N/A	4	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
N/A	N/A	N/A	N/A		N/A	5	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Control Limit						less than reporting limit								



Laboratories

TBT

TEST REPORT

Report No. : 100975N
Project Name : Chemical and Biological Testing of Sediment (Service Contract)
 Agreement No. CE 42/2005 (WS) Laying of Western Cross Harbour Main
 and Associated Land Mains From West Kowloon To Sai Ying Pung - Investigation
 Chemical, Elutriate and Biological Testing of Marine Sediment and Seawater Samples
Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department
Address : 8/F Civil Engineering and Development Building, 101 Princess Margaret Road,
 Kowloon, Hong Kong

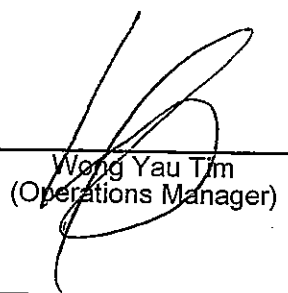
Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019
Sample Description : 85 samples said to be water
Sample Receipt Date : 06 September 2006 - 26 September 2006
Test Period : 07 September 2006 - 09 October 2006

Test Information

CODE	Test Parameter	Reporting Limit	Test Procedure
		ug/L	
TBT	Tri-Butyl Tin	0.015	W/O/TBT

- Notes :
1. This report shall not be reproduced, except in full, without prior approval from Lam Laboratories Ltd.
 2. < = less than
 3. N/A = Not applicable
 4. Test results satisfy all in-house QA/QC protocols as attached.
 5. Test description (for in-house methods) as follows:
 W/O/TBT: Solvent extraction and GC-MS Quantification.

Authorized Signator :



Wong Yau Tim
(Operations Manager)

Issue Date:

27 Dec. 2006

TEST REPORT

Report No. : 100975N
 Project Name : Chemical and Biological Testing of Sediment (Service Contract)
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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref. Drillhole No.	Sample			Type	Specimen Depth m	TBT
	No.	From	To			ug TBT / L
VC14a	NA	0.00	0.90		NA	<0.015
VC14a	NA	0.90	1.90		NA	<0.015
VC14a	NA	1.90	2.90		NA	<0.015
VC14a	NA	4.90	5.90		NA	<0.015
VC14a	NA	7.90	8.90		NA	<0.015
VC14a	NA	10.90	11.90		NA	<0.015
VC5-a	NA	0.00	0.90		NA	<0.015
VC5-a	NA	0.90	1.90		NA	<0.015
VC5-a	NA	1.90	2.90		NA	<0.015
VC5-a	NA	4.90	5.90		NA	<0.015
VC15a	NA	0.00	0.90		NA	<0.015
VC15a	NA	0.90	1.90		NA	<0.015
VC15a	NA	1.90	2.90		NA	<0.015
VC15a	NA	4.90	5.90		NA	<0.015
VC15a	NA	7.90	8.90		NA	<0.015
VC15a	NA	10.90	11.90		NA	<0.015
VC5a	NA	7.90	8.90		NA	<0.015
VC5a	NA	10.90	11.90		NA	<0.015
VC13a	NA	0.00	0.90		NA	<0.015
VC13a	NA	0.90	1.90		NA	<0.015

TEST REPORT

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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref. Drillhole No.	Sample				TBT ug TBT / L	
	Depth, m			Type		Specimen Depth m
	No.	From	To			
VC13a	NA	1.90	2.90		NA	<0.015
VC13a	NA	4.90	5.90		NA	<0.015
VC13a	NA	7.70	8.70		NA	<0.015
VC4a	NA	0.00	0.90		NA	<0.015
VC4a	NA	0.90	1.90		NA	<0.015
VC4a	NA	1.90	2.90		NA	<0.015
VC4a	NA	4.90	5.90		NA	<0.015
VC4a	NA	7.90	8.90		NA	<0.015
VC4a	NA	10.90	11.90		NA	<0.015
VC6a	NA	0.00	0.90		NA	<0.015
VC6a	NA	0.90	1.90		NA	<0.015
VC6a	NA	1.90	2.90		NA	<0.015
VC6a	NA	4.90	5.90		NA	<0.015
VC6a	NA	7.90	8.90		NA	<0.015
VC3a	NA	0.00	0.90		NA	<0.015
VC3a	NA	0.90	1.90		NA	<0.015
VC3a	NA	1.90	2.90		NA	<0.015
VC7a	NA	0.00	0.90		NA	<0.015
VC7a	NA	0.90	1.90		NA	<0.015
VC7a	NA	1.90	2.90		NA	<0.015

TEST REPORT

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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref. Drillhole No.	Sample			Type	Specimen Depth m	TBT
	No.	From	To			ug TBT / L
VC7a	NA	4.90	5.90		NA	<0.015
VC7a	NA	7.90	8.90		NA	<0.015
VC2a	NA	0.00	0.90		NA	<0.015
VC2a	NA	0.90	1.90		NA	<0.015
VC2a	NA	1.90	2.90		NA	<0.015
VC2a	NA	4.90	5.90		NA	<0.015
VC2a	NA	7.90	8.90		NA	<0.015
VC2a	NA	10.90	11.30		NA	<0.015
Ref. Sediment	NA	NA	NA		NA	<0.015
VC11a	NA	0.00	0.90		NA	<0.015
VC11a	NA	0.90	1.90		NA	<0.015
VC11a	NA	1.90	2.90		NA	<0.015
VC11a	NA	4.90	5.90		NA	<0.015
VC11a	NA	7.90	8.90		NA	<0.015
VC11a	NA	10.90	11.90		NA	<0.015
VC12a	NA	0.00	0.90		NA	<0.015
VC12a	NA	0.90	1.90		NA	<0.015
VC12a	NA	1.90	2.90		NA	<0.015
VC12a	NA	4.90	5.90		NA	<0.015
VC12a	NA	7.90	8.90		NA	<0.015

TEST REPORT

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Test Results

Customer Ref. Drillhole No.	Sample				TBT ug TBT / L	
	Depth, m			Type		Specimen Depth m
	No.	From	To			
VC12a	NA	10.90	11.90		NA	<0.015
VC8a	NA	0.00	0.90		NA	<0.015
VC8a	NA	0.90	1.90		NA	<0.015
VC8a	NA	1.90	2.90		NA	<0.015
VC8a	NA	4.90	5.90		NA	<0.015
VC8a	NA	7.90	8.90		NA	<0.015
VC8a	NA	10.90	11.90		NA	<0.015
VC10a	NA	0.00	0.90		NA	<0.015
VC10a	NA	0.90	1.90		NA	<0.015
VC10a	NA	1.90	2.90		NA	<0.015
VC10a	NA	4.90	5.90		NA	<0.015
VC10a	NA	7.90	8.90		NA	<0.015
VC10a	NA	10.90	11.90		NA	<0.015
VC1a	NA	0.00	0.90		NA	<0.015
VC1a	NA	0.90	1.90		NA	<0.015
VC1a	NA	1.90	2.90		NA	<0.015
VC1a	NA	4.90	5.90		NA	<0.015
VC1a	NA	7.90	8.90		NA	<0.015
VC1a	NA	10.90	11.90		NA	<0.015
VC9a	NA	0.00	0.90		NA	<0.015

TEST REPORT

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Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results

Customer Ref. Drillhole No.	Sample				Specimen Depth m	TBT ug TBT / L
	No.	From	To	Type		
VC9a	NA	0.90	1.90		NA	<0.015
VC9a	NA	1.90	2.90		NA	<0.015
VC9a	NA	4.90	5.90		NA	<0.015
VC9a	NA	7.90	8.90		NA	<0.015
VC9a	NA	10.90	11.90		NA	<0.015

-----End of report-----

QUALITY CONTROL REPORT

Report No. : 100975N
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 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1.1 Sample Duplicate (Relative deviation)**

Customer Ref. Drillhole No.	Sample					Batch	TBT %
	Depth, m			Type	Specimen Depth m		
	No.	From	To				
17965/1	N/A	N/A	N/A		N/A	1	na*
17998/1	N/A	N/A	N/A		N/A	2	na*
17986/1	N/A	N/A	N/A		N/A	3	na*
Control Limit							+/- 30% of the mean

1.2 Sample Spike (Spike Level = 50 ng)

Customer Ref. Drillhole No.	Sample					Batch	TBT %
	Depth, m			Type	Specimen Depth m		
	No.	From	To				
17965/1	N/A	N/A	N/A		N/A	1	89
17998/1	N/A	N/A	N/A		N/A	2	108
17986/1	N/A	N/A	N/A		N/A	3	104
Control Limit							70-130 %

Notes :

- na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

Authorized Signatory :



Wong Yau Tim
(Operations Manager)

Issue Date:

27 Dec. 2006

QUALITY CONTROL REPORT

Report No. : 100975N
Project Name : Chemical and Biological Testing of Sediment (Service Contract)
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Customer : Geotechnical Projects Division, Geotechnical Engineering office,
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Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1.3 QC Sample (Spike level = 50 ng)**

Customer Ref. Drillhole No.	Sample Depth, m			Type	Specimen Depth m	Batch	TBT %
	No.	From	To				
MB Spike	N/A	N/A	N/A		N/A	1	98
MB Spike	N/A	N/A	N/A		N/A	2	110
MB Spike	N/A	N/A	N/A		N/A	3	103
Control Limit							70 - 130 %

1.4 Method Blank

Customer Ref. Drillhole No.	Sample Depth, m			Type	Specimen Depth m	Batch	TBT ug TBT / L
	No.	From	To				
N/A	N/A	N/A	N/A		N/A	1	<0.015
N/A	N/A	N/A	N/A		N/A	2	<0.015
N/A	N/A	N/A	N/A		N/A	3	<0.015
Control Limit							Less than reporting limit

QUALITY CONTROL REPORT

Report No. : 100975N
Project Name : Chemical and Biological Testing of Sediment (Service Contract)
 Agreement No. CE 42/2005 (WS) Laying of Western Cross Harbour Main
 and Associated Land Mains From West Kowloon To Sai Ying Pung - Investigation
Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department
Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1.5 Sample Duplicate (Relative deviation)**

Customer Ref. Drillhole No.	Sample					Batch	TBT %
	Depth, m			Type	Specimen Depth m		
	No.	From	To				
17999/1	N/A	N/A	N/A		N/A	4	na*
VC12a	N/A	0.00	0.90		N/A	5	na*
Control Limit							+/- 30% of the mean

1.6 Sample Spike (Spike Level = 50 ng)

Customer Ref. Drillhole No.	Sample					Batch	TBT %
	Depth, m			Type	Specimen Depth m		
	No.	From	To				
17999/1	N/A	N/A	N/A		N/A	4	95
VC8a	N/A	0.00	0.90		N/A	5	81
Control Limit							70-130 %

Notes :

- na* = Relative deviation (RD) for duplicates cannot be evaluated as the value determined is lower than reporting limit.

QUALITY CONTROL REPORT

Report No. : 100975N
Project Name : Chemical and Biological Testing of Sediment (Service Contract)
 Agreement No. CE 42/2005 (WS) Laying of Western Cross Harbour Main
 and Associated Land Mains From West Kowloon To Sai Ying Pung - Investigation
 Chemical, Elutriate and Biological Testing of Marine Sediment and Seawater Samples
Customer : Geotechnical Projects Division, Geotechnical Engineering office,
 Civil Engineering and Development Department

Lab Job No. : J469
Lab Sample No. : 17970,17980,17985,17991,17996,18003,18022,18028,18036,
 18041,18053,18060,18073,18087,18089,18096,18107,18019

Test Results**1.7 QC Sample (Spike level = 50 ng)**

Customer Ref. Drillhole No.	Sample				Specimen Depth m	Batch	TBT
	Depth, m			Type			%
	No.	From	To				
MB Spike	N/A	N/A	N/A		N/A	4	91
MB Spike	N/A	N/A	N/A		N/A	5	108
Control Limit							70 - 130 %

1.8 Method Blank

Customer Ref. Drillhole No.	Sample				Specimen Depth m	Batch	TBT
	Depth, m			Type			ug TBT / L
	No.	From	To				
N/A	N/A	N/A	N/A		N/A	4	<0.015
N/A	N/A	N/A	N/A		N/A	5	<0.015
Control Limit							Less than reporting limit