



CERTIFICATE OF ANALYSIS

Client : CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
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Project : AGREEMENT NO CE 61_2007 (CE) - NORTH EAST NEW TERRITORIES NEW DEVELOPMENT AREAS
Order number : GE/2009/16.38
C-O-C number : H028048
Site : NDA KTN

Laboratory : ALS Technichem HK Pty Ltd
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Quote number : ----

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Work Order : HK1205743

Date Samples Received : 01-MAR-2012
Issue Date : 12-MAR-2012
No. of samples received : 2
No. of samples analysed : 2

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This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics



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Work Order : HK1205743

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. The completion date of analysis is:

07-MAR-2012

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society. Specific comments for Work Order: **HK1205743**

Project Name: Agreement No. CE 61/2007 (CE) - North East New Territories New Development Areas. Planning an Engineering Study - Investigation, Chemical Testing.

Sample(s) were received in a chilled condition.

Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

Soil sample(s) as received, digested by In-house method E-ASTM D3974-81 based on ASTM D3974-81, prior to the determination of metals.



Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	Client sample ID		KTN-ASBH OFFSITE (A)	KTN-ASBH OFFSITE (A)
		LOR	Unit		
EAVED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	12.8	5.3
EG: Metals and Major Cations					
EG020: Arsenic	7440-38-2	1	mg/kg	17700	12200



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report		RPD (%)
				Original Result	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 2196339)						
HK1205699-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	19.9	19.5	2.0
HK1205730-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	47.7	46.0	3.7
EG: Metals and Major Cations (QC Lot: 2197293)						
HK1205743-002	KTN-ASBH OFFSITE (A) (27.40M)	EG020: Arsenic	7440-38-2	12200	10400	15.9

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
		LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	93.9	----	77	109	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPD (%)
					MS	MSD	Recovery Limits (%)	
HK1205743-001	KTN-ASBH OFFSITE (A) (25.10M)	EG020: Arsenic	7440-38-2	5 mg/kg	-----	75	125	-----