

KIN WING CONSTRUCTION CO., LTD.

**Contamination Assessment
Report (CAR) for the
Ex-GFS Building**

Contract No. : KL/2008/02

Rev. No. : 1

Effective Date : 05 August 2009

Contract No. : KL/2008/02	Revision No. : 1
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1.0 Introduction

1.1 Background

1.1.1 The ex-Government Flying Services (GFS) building was found to be located within the planning boundary of Kai Tak Development and has not been assessed for land contamination in the previous EIA studies and land contamination studies. As commissioned by the Civil Engineering and Development Department (CEDD) to assess the extent of residual land contamination associated with the historical operation of the former Kai Tak Airport under *Agreement No. CE 35/2006(CE) Kai Tak Development Engineering Study cum Design and Construction of Cruise Terminal Advance Works – Investigation, Design and Construction*, a Contamination Assessment Plan (CAP) for the ex-GFS building (hereinafter called the "Study Area" was prepared. Since the generator room and the transformer room were still in operation at the time of the site investigation, 3 potential contamination hotspots within the transformer room and generator room could not be completed. Therefore, this supplementary land contamination investigation was carried out to confirm any existence of land contamination at the areas of concerns in accordance with Appendix 5.2b of the EIA Report for Kai Tak Development – Contamination Assessment Report / Remediation Action Plan (CAR/RAP) for the ex-GFS Building.

1.1.2 The CAP which outlined the sampling locations and the testing schedule for site investigation (SI) in the Study Area was approved by Environmental Protection Department (EPD). A total of 3 trial pits have been proposed to supplement the approved CAP and constructed within the Study Area for soil and groundwater sampling and testing.

1.1.3 The SI for land contamination assessment in the Study Area was commenced on 3 May 2009 and completed on 10 July 2009. The trial pits excavation and reinstatement of excavations, were all conducted by Kin Wing Construction Ltd and laboratory analyses were carried out by ALS Laboratory Group.

1.2 Objectives

1.2.1 The objectives of this Contamination assessment Report is to summarize findings of the SI (including fieldworks and laboratory analyses) and to determine the nature and extent of contamination based on the findings of the SI (Section 3). Once contamination is confirmed, remediation proposal suggesting appropriate remediation actions for the contaminated area will be provided.

1.2.2 This CAR is submitted to seek endorsement from the Director of Environmental Protection (DEP) in accordance with Condition 2.7 of Environmental Permit No. EP-339/2009.

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2.0 Findings of Contamination Assessment Plan

2.1.1 According to the approved CAP, the activities identified at the Study Area are summarized in Table 2.1

Table 2.1 Potential Sources of Land Contamination Identified in the Study Area

Contamination Site Concern	Potential Source of Land Contamination	No. of SI
Transformer Room	Spillage from improper handling of Polychlorinated Biphenyls (PCBs) / transformer fluids	1 trial pit is proposed in this area
Generator Room	Not Applicable	2 trial pits are proposed to assess for potential land contamination within the area

2.1.2 A total of 2 locations were identified as potential land contamination hotspots. The criteria for identification of contamination hotspots were based upon the site observation of stain / ground discolourization, machine / chemical storage locations or areas with contamination activities undertaken.

2.1.3 The concrete floor of the generator room was broken up during the site investigation and the underground chamber was found underneath the generator room. Visual inspection at the bottom of the underground chamber (i.e. void between concrete floor slab and top side of the concrete footing) identified no apparent evidence of oil staining and oil leakage and the presence of underground chamber has prevented a direct contact of potential contaminants with the soil underneath. No issue of land contamination is therefore expected and thus no soil sampling was proposed at the generator room. Record photos were taken during the site investigation at the generator room as presented in Appendix B.

2.1.4 The transformer room was well paved with concrete and no apparent stains have been observed. Based on the site observation and findings of the generator room, a similar underground chamber (i.e. void between concrete floor slab and the top side of concrete footing) was expected underneath the transformer room. Therefore, no issue of land contamination is expected within the transformer room and the original sampling location was then relocated outside the transformer room as shown in Drawing No. A2.1. The record photos were taken during the site investigation near the transformer room as presented in Appendix B.

3.0 Contamination Assessment Report

3.1 Assessment Methodology

Soil Sampling

3.1.1 The SI works were carried out from 5 May 2009 to 3 June 2009 at GFSA-05, GFSA-06 and GFSA-07 according to the approved CAP.

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- 3.1.2 Only 1 trial pit was constructed within the Study Area as illustrated in Drawing 2.1. Soil samples were collected at about 0.5m and 1.5m BBC for trial pit located at GFSA-05. No soil sampling was conducted at GFSA-06 & 07 due to the presence of concrete slab.
- 3.1.3 Before excavation, the sampler and all equipment in contact with the ground were thoroughly decontaminated prior to use at each borehole by laboratory-grade detergent and steam-cleaning/high-pressure hot water jet.
- 3.1.4 Soil samples were properly labeled and stored in cool boxes at around 4°C until delivered to the analytical laboratory. All of the collected soil samples in the SI were analyzed in accordance with the analysis schedules detailed in the approved CAP.
- 3.1.5 Groundwater has not been encountered in all sampling points.

3.2 Assessment Criteria

Criteria for Soil Contamination

- 3.2.1 The assessment methodology of this Study was developed in accordance with the Practice Note ProPECC PN3/94 "Contaminated Land Assessment and Remediation" and "Guidance Notes for Investigation and Remediation of Contamination Sites of Petrol Filling Stations, Boatyards, and Car Repair / Dismantling Workshops" issued by the EPD.
- 3.2.2 The Practice Note was used in setting the soil contamination criteria. The Practice Note makes reference to criteria developed in the Netherlands (Dutch 'ABC' Levels), which are most comprehensive and widely used for contaminated site assessment. The preliminary screening approach adopted in this study was based on the Dutch criteria which consist of 3 levels of guidelines, namely A, B, and C. The simplified explanation of the ABC levels is as follows:
- 'A' level implies unpolluted;
 - 'B' level implies potential pollution present that requires further investigation or remediation; and
 - 'C' level implies pollution which requires remediation.
- 3.2.3 The Dutch Criteria are very stringent as they are developed based on a 'good for all uses' philosophy. The EPD generally requires remediation for soil contamination above the Dutch B level. In order words, the Dutch B level is the cleanup target for remediation of soil. Relevant soil Dutch 'ABC' levels for this Study are presented in Table 3.1.

Table 3.1 Dutch ABC Values for Soil Contamination

Parameter	Soil (mg/kg)		
	Dutch A	Dutch B	Dutch C
Total Petroleum Hydrocarbons (TPH) (as mineral oil)	1000	1000	5000
BTEX			

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Benzene	0.01	0.5	5
Toluene	0.05	3	30
Ethylbenzene	0.05	5	50
Xylenes	0.05	5	50
Polyaromatic Hydrocarbons (PAHs)			
Naphthalene	0.1	5	50

Parameter	Soil (mg/kg)		
	Dutch A	Dutch B	Dutch C
Metals			
Phenanthrene	0.1	10	100
Anthracene	0.1	10	100
Fluoranthene	0.1	10	100
Benzo(a)pyrene	0.05	1	10
Pyrene	0.1	10	100
Phenols	0.02	1	10
Chlorinated Hydrocarbons – Aliphatics (for individual)	0.1	5	50
Cadmium (Cd)	1	5	20
Lead (Pb)	50	150	600
Copper (Cu)	50	100	500
Tin (Sn)	20	50	300
Chromium (Cr)	100	250	800
Nickel (Ni)	50	100	500
Zinc (Zn)	200	500	3000
Cobalt (Co)	20	50	300
Arsenic (As)	20	30	50
Molybdenum (Mo)	10	40	200
Barium (Ba)	200	400	2000
Mercury (Hg)	0.5	2	10

3.3 Analytical Results and Interpretation

Laboratory Analytical Results

Results of Soil Analysis

- 3.3.1 A total of 2 soil samples excluding those for QA/QC purpose were collected in the SI for laboratory analysis and the laboratory testing results for the soil samples are presented in Appendix A.
- 3.3.2 No exceedance was found in all soil samples collected at GFSA-05. The testing results are summarized in Table 3.2 below.

Table 3.2 Summary of Test Results of Soil Sample

Sample No.	Testing Parameter	Dutch Level (mg/kg) B	Concentration (mg/kg)	Dutch Level Exceeded
GFSA-05/BBC0.5M/18-05-09	TPH	1000	252	<B
GFSA-05/BBC0.5M/18-05-09	Benzene	0.5	0.2	<B
GFSA-05/BBC0.5M/18-05-09	Toluene	3	0.2	<B
GFSA-05/BBC0.5M/18-05-09	Ethylbenzene	5	0.2	<B
GFSA-05/BBC0.5M/18-05-09	Xylene	5	0.6	<B
GFSA-05/BBC0.5M/18-05-09	Napthalene	5	0.5	<B

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GFSA-05/BBC0.5M/18-05-09	Phenanthrene	10	0.5	<B
GFSA-05/BBC0.5M/18-05-09	Anthracene	10	0.5	<B
GFSA-05/BBC0.5M/18-05-09	Fluoranthene	10	0.5	<B
GFSA-05/BBC0.5M/18-05-09	Benzo(a)pyrene	1	0.5	<B
GFSA-05/BBC0.5M/18-05-09	Pyrene	10	0.5	<B
GFSA-05/BBC0.5M/18-05-09	Phenols	1	0.5	<B
GFSA-05/BBC0.5M/18-05-09	Chlorinated Hydrocarbon	5	0.5	<B
GFSA-05/BBC0.5M/18-05-09	Arsenic	30	2	<B
GFSA-05/BBC0.5M/18-05-09	Cadmium	5	0.3	<B
GFSA-05/BBC0.5M/18-05-09	Cobalt	50	2.4	<B

Sample No.	Testing Parameter	Dutch Level (mg/kg) B	Concentration (mg/kg)	Dutch Level Exceeded
GFSA-05/BBC0.5M/18-05-09	Copper	100	15	<B
GFSA-05/BBC0.5M/18-05-09	Lead	150	68	<B
GFSA-05/BBC0.5M/18-05-09	Nickel	100	3	<B
GFSA-05/BBC0.5M/18-05-09	Zinc	500	140	<B
GFSA-05/BBC0.5M/18-05-09	Barium	400	33	<B
GFSA-05/BBC0.5M/18-05-09	Chromium	250	6	<B
GFSA-05/BBC0.5M/18-05-09	Mercury	2	0.05	<B
GFSA-05/BBC0.5M/18-05-09	Molybdenum	40	3	<B
GFSA-05/BBC0.5M/18-05-09	Tin	50	4	<B
GFSA-05/BBC1.5M/18-05-09	TPH	1000	252	<B
GFSA-05/BBC1.5M/18-05-09	Benzene	0.5	0.2	<B
GFSA-05/BBC1.5M/18-05-09	Toluene	3	0.2	<B
GFSA-05/BBC1.5M/18-05-09	Ethylbenzene	5	0.2	<B
GFSA-05/BBC1.5M/18-05-09	Xylene	5	0.6	<B
GFSA-05/BBC1.5M/18-05-09	Napthalene	5	0.5	<B
GFSA-05/BBC1.5M/18-05-09	Phenanthrene	10	0.5	<B
GFSA-05/BBC1.5M/18-05-09	Anthracene	10	0.5	<B
GFSA-05/BBC1.5M/18-05-09	Fluoranthene	10	0.5	<B
GFSA-05/BBC1.5M/18-05-09	Benzo(a)pyrene	1	0.5	<B
GFSA-05/BBC1.5M/18-05-09	Pyrene	10	0.5	<B
GFSA-05/BBC1.5M/18-05-09	Phenols	1	0.5	<B
GFSA-05/BBC1.5M/18-05-09	Chlorinated Hydrocarbon	5	0.5	<B
GFSA-05/BBC1.5M/18-05-09	Arsenic	30	1	<B
GFSA-05/BBC1.5M/18-05-09	Cadmium	5	0.2	<B
GFSA-05/BBC1.5M/18-05-09	Cobalt	50	1.8	<B
GFSA-05/BBC1.5M/18-05-09	Copper	100	4	<B
GFSA-05/BBC1.5M/18-05-09	Lead	150	57	<B
GFSA-05/BBC1.5M/18-05-09	Nickel	100	1	<B
GFSA-05/BBC1.5M/18-05-09	Zinc	500	52	<B
GFSA-05/BBC1.5M/18-05-09	Barium	400	26.5	<B
GFSA-05/BBC1.5M/18-05-09	Chromium	250	3	<B
GFSA-05/BBC1.5M/18-05-09	Mercury	2	0.05	<B
GFSA-05/BBC1.5M/18-05-09	Molybdenum	40	2	<B
GFSA-05/BBC1.5M/18-05-09	Tin	50	4.1	<B

Remarks:

BBC=Below Base of Existing Concrete Pavement

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Results of QA/QC Analysis

- 3.3.3 QA/QC is the practice of making sure that collection and analysis techniques provide precise and accurate information. This process is to ensure the levels of contamination measured in the environmental samples reflect the actual environmental levels and are not due to accidental contamination of the sample or sample container. In this study, 3 sets of field blank, equipment blank and trip blank were collected and analyzed during the course of sampling. The laboratory results for QA/QC samples are presented in Appendix A.
- 3.3.4 The laboratory results showed that no detectable metals and TPH were found among the QA/QC samples. QA/QC procedures for sample collection and preparation are therefore considered acceptable.
- 3.4 Conclusions and Recommendations
- 3.4.1 According to the results of site investigation, only 1 soil sample was collected at GFSA-05 (Transformer Room). No soil contamination was found exceeding the Dutch B/C levels.
- 3.4.2 Based on the results of samples analysis, no significant contamination was found around the area of concerns, therefore no decontamination work is considered necessary and Remediation Action Plan will not be required.

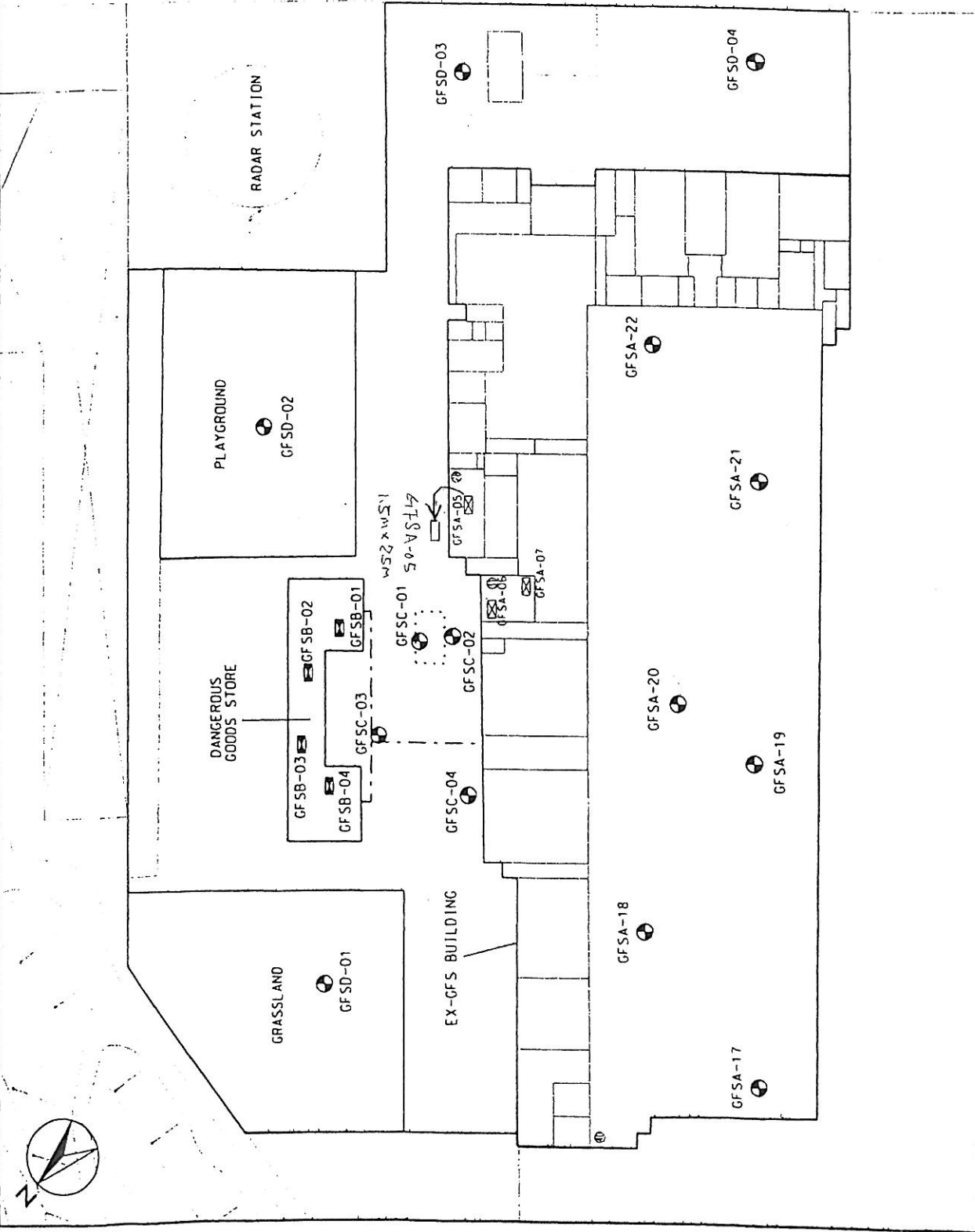
Contract No. : KL/2008/02	Revision No. : 1 Effective Date : 05 August 09
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Drawing A2.1

**Proposed Supplementary SI
Locations at Potential
Contaminated Hotspots**

POTENTIAL CONTAMINATED ROOMS/
WORKSHOPS INSIDE THE EX-GFS BUILDING

⊕ TRANSFORMER ROOM
⊙ GENERATOR ROOM



SCALE	A3 1:600	DATE	APR 08
CHECK	ELYC	DESIGNED BY	POHMI
DRAWN BY	60022503	PROJECT NO.	A 2.1

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AGREEMENT NO. CE 35/2006 (CE)
 A/E/T/AS DEVELOPMENT ENGINEERING STUDY (UM DESIGN AND CONSTRUCTION OF ADVANCE WORKS-INVESTIGATION, DESIGN AND CONSTRUCTION)

PROPOSED SUPPLEMENTARY SI LOCATIONS AT POTENTIAL CONTAMINATED HOTSPOTS

P: /60022503/DRAWING/DRAWING/REPORT/ATA DECOMMISSIONING EIA/CAP/BUILDING/SI.LOCA.DWG

Contract No. : KL/2008/02	Revision No. : 1
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Appendix A

Laboratory Results



CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 3
Contact	: MR ERIC WONG	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK0913030
Address	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Erickkwong7@yahoo.com.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2785 8152	Telephone	: +852 2610 1044		
Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: CONTRACT KL_2008_02 DECOMMISSIONING OF KAI TAK AIRPORT	Quote number	: ---	Date Samples Received	: 19-MAY-2009
Order number	: ---			Issue Date	: 09-JUL-2009
C-O-C number	: H006128			No. of samples received	: 2
Site	: ---			No. of samples analysed	: 2

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 date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is:

06-JUL-2009

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: HK0913030

Sample(s) were picked up from client by ALS Technichem (HK) staff 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.

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group

ALS Technichem (HK) Pty Ltd

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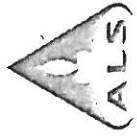
A Campbell Brothers Limited Company



Analytical Results

Sub-Matrix: SOIL

Compound	Client sample ID		Client sampling date / time	
	CAS Number	LOR	Unit	Unit
EA/ED: Physical and Aggregate Properties				
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	14.0
EG: Metals and Major Cations				
EG020: Barium	7440-39-3	0.5	mg/kg	26.5
EG020: Chromium	7440-47-3	1	mg/kg	3
EG020: Mercury	7439-97-6	0.05	mg/kg	<0.05
EG020: Molybdenum	7439-98-7	1	mg/kg	2
EG020: Tin	7440-31-5	0.5	mg/kg	4.1



Laboratory Duplicate (DUP) Report

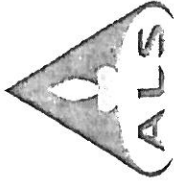
Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EAVED: Physical and Aggregate Properties (QC Lot: 1027617)									
EA055: Moisture Content (dried @ 103°C)									
HK0913030-001	GFSA-05/BBC	0.5M/18-05-09			0.1	%	14.2	14.8	4.5
EG: Metals and Major Cations (QC Lot: 1027623)									
HK0913030-001	GFSA-05/BBC	0.5M/18-05-09	EG020: Mercury	7439-97-6	0.05	mg/kg	<0.05	<0.05	0.0
			EG020: Barium	7440-39-3	0.5	mg/kg	33.0	41.6	23.2
			EG020: Tin	7440-31-5	0.5	mg/kg	4.0	3.2	20.7
			EG020: Chromium	7440-47-3	1	mg/kg	6	6	16.9
			EG020: Molybdenum	7439-98-7	1	mg/kg	3	2	0.0

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

Matrix: SOIL									
Method Blank (MB) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	RPD (%)
Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Matrix: SOIL									
Method Blank (MB) Report									
EG: Metals and Major Cations (QC Lot: 1027623)	7440-39-3	1	mg/kg	<1	5 mg/kg	88.5	85	115	—
EG020: Barium	7440-47-3	1	mg/kg	<1	5 mg/kg	112	85	115	—
EG020: Chromium	7439-97-6	0.05	mg/kg	<0.05	0.1 mg/kg	94.8	85	115	—
EG020: Mercury	7439-98-7	1	mg/kg	<1	5 mg/kg	94.1	85	115	—
EG020: Molybdenum	7440-31-5	1	mg/kg	<1	5 mg/kg	87.8	85	115	—

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

Matrix: SOIL									
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	RPD (%)
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
Matrix: SOIL									
Method Blank (MB) Report									
EG: Metals and Major Cations (QC Lot: 1027623)	Anonymous	EG020: Barium	7440-39-3	5 mg/kg	90.4	75	125	75	—
HK0912854-004		EG020: Chromium	7440-47-3	5 mg/kg	87.6	75	125	75	—
		EG020: Mercury	7439-97-6	0.1 mg/kg	86.1	75	125	75	—
		EG020: Molybdenum	7439-98-7	5 mg/kg	95.6	75	125	75	—
		EG020: Tin	7440-31-5	5 mg/kg	83.1	75	125	75	—



CERTIFICATE OF ANALYSIS

Client : KIN WING CONSTRUCTION COMPANY LIMITED
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 Project : CONTRACT KL_2008_02 DECOMMISSIONING
 OF KAI TAK AIRPORT
 Order number : ----
 C-O-C number : H006129
 Site : ----

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 Telephone : +852 2610 1044
 Facsimile : +852 2610 2021
 Quote number : ----

Page : 1 of 6
 Work Order : HK0912998

Date Samples Received : 26-JUN-2009
 Issue Date : 10-JUL-2009
 No. of samples received : 6
 No. of samples analysed : 6

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics



Page Number : 2 of 6
Client : KIN WING CONSTRUCTION COMPANY LIMITED
Work Order : HK0912998

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 date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is:

06-JUL-2009

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: HK0912998

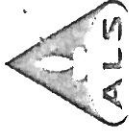
Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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

Water sample(s) were filtered prior to dissolved metal analysis.

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	LOR	Unit	Client sample ID		
				Client sampling date / time	Client sampling date / time	Client sampling date / time
EA055: Physical and Aggregate Properties EA055: Moisture Content (dried @ 103°C)	---	0.1	%	E4-E1 (R1) O/S 2.0M/BBC 2.35M/ 25-06-09 [25-JUN-2009]	E3-E4 (R1) O/S 1.0M/BBC 2.15M/ 25-06-09 [25-JUN-2009]	E1-E2 (R1) O/S 1.0M/BBC 2.15M/ 25-06-09 [25-JUN-2009]
EG: Metals and Major Cations				HK0912998-001	HK0912998-002	HK0912998-003
EG020: Cadmium	7440-43-9	0.2	mg/kg	14.5	18.1	16.6
EG020: Lead	7439-92-1	1	mg/kg	<0.2	<0.2	<0.2
				52	138	95



Page Number : 4 of 6
 Client : KIN WING CONSTRUCTION COMPANY LIMITED
 Work Order : HK0912998

Sub-Matrix: WATER	Client sample ID		Client sampling date / time	
	CAS Number	LOR	Unit	Unit
EG: Metals and Major Cations - Filtered	7440-43-9	0.2	µg/L	µg/L
	7439-92-1	1	µg/L	µg/L
E1-EZ/WATER/BBC	E1-EZ		E1-EZ	
	2.15M/25-06-09	FIELD/25-06-09	EQUIPMENT/25-06-09	EQUIPMENT/25-06-09
	[25-JUN-2009]	[25-JUN-2009]	[25-JUN-2009]	[25-JUN-2009]
	HK0912998-004	HK0912998-005	HK0912998-006	HK0912998-006
	0.2	<0.2	<0.2	<0.2
	5	<1	<1	<1



Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EATED: Physical and Aggregate Properties (QC Lot: 1028932)									
HK0912998-001	E4-E1 (R1) O/S 2.0M/BBC	2.35M/ 25-06-09	EA055: Moisture Content (dried @ 103°C)		0.1	%	14.5	14.6	1.1
EG: Metals and Major Cations (QC Lot: 1027792)									
HK0912639-002	Anonymous		EG020: Cadmium	7440-43-9	0.2	mg/kg	<0.2	<0.2	0.0
			EG020: Lead	7439-92-1	1	mg/kg	44	53	19.3
HK0913028-005	Anonymous		EG020: Cadmium	7440-43-9	0.2	mg/kg	<0.2	<0.2	0.0
			EG020: Lead	7439-92-1	1	mg/kg	24	27	9.8

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: WATER									
Laboratory Duplicate (DUP) Report									
EG: Metals and Major Cations - Filtered (QC Lot: 1027747)									
HK0912998-005	E-ZONE FIELD/25-06-09		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
			EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0

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

Method: Compound		CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)
Method Blank (MB) Report														
EG: Metals and Major Cations (QC Lot: 1027792)		7440-43-9	0.2	mg/kg	<0.2	5 mg/kg	89.7	85	115	85	115	—	—	—
EG020: Cadmium		7439-92-1	1	mg/kg	<1	5 mg/kg	88.7	85	115	85	115	—	—	—
EG020: Lead														
Method Blank (MB) Report														
Matrix: WATER														
Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report														
EG: Metals and Major Cations (QC Lot: 1027747)														
EG020: Cadmium														
EG020: Lead														

Method: Compound		CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)
Method Blank (MB) Report														
EG: Metals and Major Cations - Filtered (QC Lot: 1027747)														
EG020: Cadmium		7440-43-9	0.2	µg/L	<0.2	100 µg/L	100	85	115	85	115	—	—	—
EG020: Lead		7439-92-1	1	µg/L	<1	100 µg/L	97.9	85	115	85	115	—	—	—

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Spike Recovery (%)	Recovery Limits (%)	Low	High	Value	Control Limit
Matrix: SOIL													
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report													
EG: Metals and Major Cations (QC Lot: 1027792)													
HK0912639-001	Anonymous		EG020: Cadmium	7440-43-9	5 mg/kg	95.9	75	75	125	75	125	—	—
			EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	75	75	125	75	125	—	—

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Spike Recovery (%)	Recovery Limits (%)	Low	High	Value	Control Limit
Matrix: WATER													
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report													
EG: Metals and Major Cations (QC Lot: 1027792)													
HK0912639-001	Anonymous		EG020: Cadmium	7440-43-9	5 mg/kg	95.9	75	75	125	75	125	—	—
			EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	75	75	125	75	125	—	—

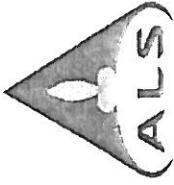
Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Spike Recovery (%)	Recovery Limits (%)	Low	High	Value	Control Limit
Matrix: WATER													
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report													
EG: Metals and Major Cations (QC Lot: 1027792)													
HK0912639-001	Anonymous		EG020: Cadmium	7440-43-9	5 mg/kg	95.9	75	75	125	75	125	—	—
			EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	75	75	125	75	125	—	—



Page Number : 6 of 6
 Client : KIN WING CONSTRUCTION COMPANY LIMITED
 Work Order : HK0912998

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration		Spike Recovery (%)			Recovery Limits (%)			RPD (%)	Control Limit
				MS	MSD	MS	MSD	Low	High	Value			
EG: Metals and Major Cations - Filtered (QC Lot: 1027747)													
HK0912998-004	E1-E2/WATER/BBC	EG020: Cadmium	7440-43-9	100	100	100	100	75	125	75	125	---	---
	2.15M/25-06-09	EG020: Lead	7439-92-1	92.0	92.0	92.0	92.0	75	125	75	125	---	---



CERTIFICATE OF ANALYSIS

Client : KIN WING CONSTRUCTION COMPANY LIMITED Contact : MR ERIC WONG Address : FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, HONG KONG E-mail : Erickkwong7@yahoo.com.hk Telephone : +852 2785 8152 Facsimile : +852 2725 9316 Project : CONTRACT KL_2008_02 DECOMMISSIONING OF KAI TAK AIRPORT Order number : --- C-O-C number : H006126 Site : ---	Laboratory : ALS Technichem HK Pty Ltd Contact : Chan Kwok Fai, Godfrey Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong E-mail : Godfrey.Chan@alsenviro.com Telephone : +852 2610 1044 Facsimile : +852 2610 2021 Quote number : ---	Page : 1 of 3 Work Order : HK0912630 Date Samples Received : 23-JUN-2009 Issue Date : 06-JUL-2009 No. of samples received : 4 No. of samples analysed : 4
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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 date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is:

29-JUN-2009

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: HK0912630

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.
 Soil sample(s) analysed on an as received basis. Result(s) reported on a dry weight basis.

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Signatories Anh Ngoc Huynh Fung Lim Chee, Richard	Position Senior Chemist General Manager	Authorised results for Organics Inorganics
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ALS Laboratory Group
 Trading Name: ALS Technichem (HK) Pty Ltd
 11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong
 Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com
 A Campbell Brothers Limited Company



Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID		Unit
			CAS Number	Unit	
EA/ED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103° C)					
		0.1	11.3	11.9	10.9
EP-075B: Polycyclic Aromatic Hydrocarbons (PAHs)					
Phenanthrene	85-01-8	0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene	50-32-8	0.5	<0.5	<0.5	<0.5
Surrogate control limits listed at end of this report.					
EP-075S: Acid Extractable Surrogates					
2-Fluorophenol	367-12-4	0.1	87.1	84.4	93.1
Phenol-d6	13127-88-3	0.1	66.4	69.4	67.0
2,4,6-Tribromophenol	118-79-6	0.1	75.1	82.4	76.8
Surrogate control limits listed at end of this report.					
EP-075T: Base/Neutral Extractable Surrogates					
Nitrobenzene -d5	4165-60-0	0.1	61.4	67.4	60.5
2-Fluorobiphenyl	321-60-8	0.1	79.8	88.6	81.4
4-Terphenyl-d14	1718-51-0	0.1	105	102	100



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	Laboratory Duplicate (DUP) Report					
			CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1020783)								
HK0912450-002	Anonymous	EA055: Moisture Content (dried @ 103°C)	—	0.1	%	16.0	16.0	0.0
EP-075B: Polyaromatic Hydrocarbons (PAHs) (QC Lot: 1020239)								
HK0912450-002	Anonymous	Phenanthrene	85-01-8	0.5	mg/kg	2.0	1.9	0.0
		Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0
		Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0
		Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0

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

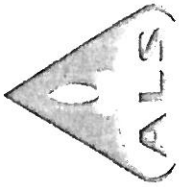
Method: Compound	CAS Number	LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentratio	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High
Method Blank (MB) Report											
Matrix: SOIL											
Method: Compound											
EP-075B: Polyaromatic Hydrocarbons (PAHs) (QC Lot: 1020239)											
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	0.25 mg/kg	89.0	72	108	—	—	—
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	0.25 mg/kg	91.8	85	108	—	—	—
Pyrene	129-00-0	0.5	mg/kg	<0.5	0.25 mg/kg	90.8	66	109	—	—	—
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	0.25 mg/kg	79.9	58	115	—	—	—

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

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Surrogate Control Limits

Sub-Matrix: SOIL	Compound	CAS Number	Recovery Limits (%)	
Compound			Low	High
EP-075S: Acid Extractable Surrogates				
2-Fluorophenol		367-12-4	25	121
Phenol-d6		13127-88-3	24	113
2,4,6-Tribromophenol		118-79-6	20	122
EP-075T: Base/Neutral Extractable Surrogates				
Nitrobenzene-d5		4165-60-0	23	120
2-Fluorobiphenyl		321-60-8	30	115
4-Terphenyl-d14		1718-51-0	20	137



CERTIFICATE OF ANALYSIS

Client	: KIM WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 5
Contact	: MR ERIC WONG	Contact	: Wong Wai Man, Alice	Work Order	: HK0911962
Address	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Erickwong7@yahoo.com.hk	E-mail	: Alice.Wong@alsenviro.com		
Telephone	: +852 2785 8152	Telephone	: +852 2610 1044		
Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: CONTRACT KL_2008_02 DECOMMISSIONING OF KAI TAK AIRPORT	Quote number	: —	Date Samples Received	: 15-JUN-2009
Order number	: —			Issue Date	: 24-JUN-2009
C-O-C number	: H006125			No. of samples received	: 5
Site	: —			No. of samples analysed	: 5

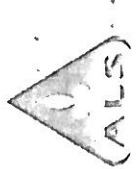
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Signatories
Fung Lim Chee, Richard

Position
General Manager

Authorised results for
Inorganics



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 date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 23-JUN-2008

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: HK0911962

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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

Water sample(s) were filtered prior to dissolved metal analysis.

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

Client sample ID	Client sampling date / time	LOR	Unit
F1-F2/BBC	2.25M/15-06-09 [15-JUN-2009]	HK0911962-001	
F2-F3/BBC	2.25M/15-06-09 [15-JUN-2009]	HK0911962-002	
F3-F4/BBC	2.25M/15-06-09 [15-JUN-2009]	HK0911962-003	
F4-F1/BBC	2.25M/15-06-09 [15-JUN-2009]	HK0911962-004	

EA055: Physical and Aggregate Properties

EA055: Moisture Content (dried @ 103°C)

EG: Metals and Major Cations

EG020: Lead

CAS Number	Value	Unit
—	0.1	%
7439-92-1	1	mg/kg
	17.2	
	16.4	
	15.5	
	19.1	
	91	
	90	
	114	



Page Number : 4 of 5
 Client : KIN WING CONSTRUCTION COMPANY LIMITED
 Work Order : HK0911962

Sub-Matrix: WATER

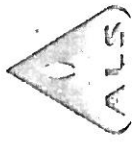
Client sample ID : ZONE F/BBC
 2.25MMWATER/

Client sampling date / time : 15-06-09
 [15-JUN-2009]

CAS Number : LOR
 Unit : HK0911962-005

Compound : EG: Metals and Major Cations - Filtered
 EG020: Lead

7439-92-1 1 1 µg/L 2



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
						Original Result	Duplicate Result	
EAVED: Physical and Aggregate Properties (QC Lot: 1013443)								
HK0911962-001	F1-F2/BBC 2.25M/15-06-09	EA055: Moisture Content (dried @ 103°C)	—	0.1	%	17.2	17.2	0.0
EG: Metals and Major Cations (QC Lot: 1012777)								
HK0911962-002	F2-F3/BBC 2.25M/15-06-09	EG020: Lead	7439-92-1	1	mg/kg	91	105	14.4
Matrix: WATER								
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 1018510)								
HK0911989-005	Anonymous	EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0

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

Method Blank (MB) Report	CAS Number	LOR	Unit	Result	Spike Concentration	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report				RPD (%)
						LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	
Method Blank (MB) Report										
EG: Metals and Major Cations (QC Lot: 1012777)	7439-92-1	1	mg/kg	<1	5 mg/kg	89.3	85	115	—	—
Method Blank (MB) Report										
EG: Metals and Major Cations - Filtered (QC Lot: 1018510)	7439-92-1	1	µg/L	<1	100 µg/L	84.3	85	115	—	—

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report				RPD (%)
						MS	Spike Recovery (%)	MSD	Recovery Limits (%)	
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
EG: Metals and Major Cations (QC Lot: 1012777)	F1-F2/BBC 2.25M/15-06-09	EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	75	125	—	—	—
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 1018510)	ZONE F1/BBC 2.25M/WATER/15-06-09	EG020: Lead	7439-92-1	100 µg/L	91.0	75	125	—	—	—



CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 6
Contact	: MR ERIC WONG	Contact	: Wong Wai Man, Alice	Work Order	: HK0911405
Address	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUJ WAN STREET, FOTAN, SHATIN, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Erickkwong7@yahoo.com.hk	E-mail	: Alice.Wong@alsenviro.com		
Telephone	: +852 2785 8152	Telephone	: +852 2610 1044		
Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: CONTRACT KL_2008_02 DECOMMISSIONING OF KAI TAK AIRPORT	Quote number	: ---	Date Samples Received	: 08-JUN-2009
Order number	: ---			Issue Date	: 17-JUN-2009
C-O-C number	: H006124			No. of samples received	: 5
Site	: ---			No. of samples analysed	: 5

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics



Page Number : 2 of 6
Client : KIN WING CONSTRUCTION COMPANY LIMITED
Work Order : HK0911405

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 date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is:

16-JUN-2009
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: HK0911405

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) analysed and reported on an as received basis.

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

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

Water sample(s) were filtered prior to dissolved metal analysis.



Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number	LOR	Client sample ID		E1-E2/BBC	E2-E3/BBC	E3-E4/BBC	E4-E1/BBC
			Client sampling date / time	Unit				
EAIED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)	—	0.1	%		27.6	30.9	38.4	46.6
EG: Metals and Major Cations								
EG020: Cadmium	7440-43-9	0.2	mg/kg		1.2	1.8	5.5	7.5
EG020: Lead	7439-92-1	1	mg/kg		192	88	460	2810



Page Number : 4 of 6
 Client : KIN WING CONSTRUCTION COMPANY LIMITED
 Work Order : HK0911405

Sub-Matrix: WATER

Compound	Client sample ID		Client sampling date / time	LOR	Unit	Result	Remarks
	CAS Number	Unit					
EG: Metals and Major Cations - Filtered		EZ-E3/BBC	2.95MWATER/08-06-09				
EG020: Cadmium	7440-43-9		[08-JUN-2009]	0.2	µg/L	<0.2	
EG020: Lead	7439-92-1	HK0911405-005		1	µg/L	2	



Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
						Original Result	Duplicate Result	
EA/ED: Physical and Aggregate Properties (QC Lot: 1005860)								
HK0911206-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	10.5	10.9	3.9
HK0911405-004	E4-E1/BBC 2.95M/08-06-09	EA055: Moisture Content (dried @ 103°C)		0.1	%	46.6	49.3	5.6
EG: Metals and Major Cations (QC Lot: 1005857)								
HK0911405-002	E2-E3/BBC 2.95M/08-06-09	EG020: Cadmium	7440-43-9	0.2	mg/kg	1.8	2.1	15.3
		EG020: Lead	7439-92-1	1	mg/kg	88	95	7.5

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
						Original Result	Duplicate Result	
EG: Metals and Major Cations - Filtered (QC Lot: 1005873)								
HK0911335-002	Anonymous	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0

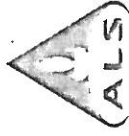
Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method: Compound	CAS Number	LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report				RPD (%)
					Spike Concentration	LCS	DCS	Recovery Limits (%)	
Method Blank (MB) Report									
EG: Metals and Major Cations (QC Lot: 1005857)	7440-43-9	0.2	mg/kg	<0.2	5 mg/kg	88.2	85	115	
EG020: Cadmium	7439-92-1	1	mg/kg	<1	5 mg/kg	86.4	85	115	
Method Blank (MB) Report									
EG: Metals and Major Cations (QC Lot: 1005873)	7440-43-9	0.2	µg/L	<0.2	100 µg/L	99.7	85	115	
EG020: Cadmium	7439-92-1	1	µg/L	<1	100 µg/L	104	85	115	

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	LCS	DCS	Recovery Limits (%)		Value	Control Limit
							Low	High		
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
EG: Metals and Major Cations (QC Lot: 1005857)	E1-E2/BBC 2.95M/08-06-09	EG020: Cadmium	7440-43-9	5 mg/kg	85.0	75.0	75	125	125	
EG020: Lead		EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	75	75	125	125	

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)		Value	Control Limit
							Low	High		
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
EG: Metals and Major Cations (QC Lot: 1005857)	E1-E2/BBC 2.95M/08-06-09	EG020: Cadmium	7440-43-9	5 mg/kg	85.0	75.0	75	125	125	
EG020: Lead		EG020: Lead	7439-92-1	5 mg/kg	# Not Determined	75	75	125	125	



Page Number : 6 of 6
 Client : KIN WING CONSTRUCTION COMPANY LIMITED
 Work Order : HK0911405

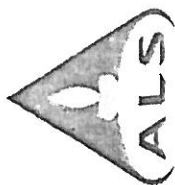
Matrix: WATER Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		Value	RPD (%)	Control Limit
					MS	MSD	Low	High			
HK0911335-001	Anonymous	EG020: Cadmium	7440-43-9	100 µg/L	100	—	75	125	—	—	—
		EG020: Lead	7439-92-1	100 µg/L	101	—	75	125	—	—	—

EG: Metals and Major Cations - Filtered (QC Lot: 1005873)

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client : KIN WING CONSTRUCTION COMPANY LIMITED
Contact : MR ERIC WONG
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KIN HO INDUSTRIAL BUILDING,
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Telephone : +852 2785 8152
Facsimile : +852 2725 9316
Project : CONTRACT KL_2008_02 DECOMMISSIONING
OF KAI TAK AIRPORT
Order number : ---
C-O-C number : H004938
Site : ---

Laboratory : ALS Technichem HK Pty Ltd
Contact : Wong Wai Man, Alice
Address : 11/F., Chung Shun Knitting Centre,
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E-mail : Alice.Wong@alsenviro.com
Telephone : +852 2610 1044
Facsimile : +852 2610 2021
Quote number : ---
Page : 1 of 5
Work Order : HK0910651
Date Samples Received : 29-MAY-2009
Issue Date : 09-JUN-2009
No. of samples received : 5
No. of samples analysed : 5

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Signatories

Fung Lim Chee, Richard

Position

General Manager

Authorised results for

Inorganics

ALS Laboratory Group
Trading Name: ALS Technichem (HK) Pty Ltd
11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong
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A Campbell Brothers Limited Company



Page Number : 2 of 5
Client : KIN WING CONSTRUCTION COMPANY LIMITED
Work Order : HK0910651

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 date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is:

04-JUN-2009

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: HK0910651

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Water sample(s) were filtered prior to dissolved metal analysis.

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

Water sample(s) analysed and reported on an as received basis.

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	LOR	Client sample ID		Unit
			Client sampling date / time		
EA/ED: Physical and Aggregate Properties					
EA055: Moisture Content (dried @ 103°C)	—	0.1	%		
EG: Metals and Major Cations					
EG020: Copper	7440-50-8	1	mg/kg		
				G1-G2/BBC 2.65M/29-05-09 [29-MAY-2009] HK0910651-001	
				G2-G3/BBC 2.65M/29-05-09 [29-MAY-2009] HK0910651-002	
				G3-G4/BBC 2.65M/29-05-09 [29-MAY-2009] HK0910651-003	
				G4-G1/BBC 2.65M/29-05-09 [29-MAY-2009] HK0910651-004	
					21.0
					21.7
					23.1
					22.2
					1
					2
					1
					2



Page Number : 4 of 5
 Client : KIN WING CONSTRUCTION COMPANY LIMITED
 Work Order : HK0910651

Sub-Matrix: WATER

Compound	Client sample ID		Client sampling date / time	Unit
	CAS Number	LOR		
EG: Metals and Major Cations - Filtered EG020: Copper	7440-50-8	1	29-05-09 [29-MAY-2009]	µg/L
			ZONE G/BBC 2.65M/WATER/ [29-MAY-2009]	<1
			HK0910651-005	



Laboratory Duplicate (DUP) Report

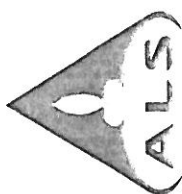
Matrix: SOIL		Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EATED: Physical and Aggregate Properties (QC Lot: 996339)								
HK0910563-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	20.4	20.4	0.0
EG: Metals and Major Cations (QC Lot: 996341)								
HK0910344-002	Anonymous	EG020: Copper	7440-50-8	1	mg/kg	3	3	0.0

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

Matrix: SOIL		Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 996341)													
EG020: Copper	7440-50-8	1	mg/kg	<1	5 mg/kg	95.2	—	—	85	115	—	—	—
Matrix: WATER													
EG: Metals and Major Cations - Filtered (QC Lot: 996350)													
EG020: Copper	7440-50-8	1	µg/L	<1	100 µg/L	94.6	—	—	85	115	—	—	—

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

Matrix: SOIL		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 996341)											
HK0910344-001	Anonymous	EG020: Copper	7440-50-8	5 mg/kg	# Not Determined	—	75	125	—	—	—
Matrix: WATER											
EG: Metals and Major Cations - Filtered (QC Lot: 996350)											
HK0910651-005	ZONE G/BBC 2.65M/WATER/ 29-05-09	EG020: Copper	7440-50-8	100 µg/L	91.6	—	75	125	—	—	—



CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 10
Contact	: MR ERIC WONG	Contact	: Wong Wai Man, Alice	Work Order	: HK0909921
Address	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, HONG KONG	Address	: 1/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Erickkwong7@yahoo.com.hk	E-mail	: Alice.Wong@alsenviro.com		
Telephone	: +852 2785 8152	Telephone	: +852 2610 1044		
Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: CONTRACT KL_2008_02 DECOMMISSIONING OF KAI TAK AIRPORT	Quote number	: ----	Date Samples Received	: 19-MAY-2009
Order number	: ----			Issue Date	: 29-MAY-2009
C-O-C number	: H004933			No. of samples received	: 2
Site	: ----			No. of samples analysed	: 2

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 date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 28-MAY-2009
 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: HK0909921

Sample(s) were picked up from client by ALS Technichem (HK) staff 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.

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Signatories

Anh Ngoc Huynh
 Fung Lim Chee, Richard

Position

Senior Chemist
 General Manager

Authorised results for

Organics
 Inorganics



Analytical Results

Sub-Matrix: SOIL

Compound	CAS Number		Client sampling date / time		Client sample ID	GFSAs	
	LOR	Unit	LOR	Unit		0.5M/18-05-09 [18-MAY-2009]	1.5M/18-05-09 [18-MAY-2009]
EA/ED: Physical and Aggregate Properties							
EA055: Moisture Content (dried @ 103°C)	---	0.1	---	%	14.6	12.4	
EG: Metals and Major Cations							
EG020: Arsenic	7440-38-2	1	---	mg/kg	2	<1	
EG020: Cadmium	7440-43-9	0.2	---	mg/kg	0.3	<0.2	
EG020: Cobalt	7440-48-4	0.5	---	mg/kg	2.4	1.8	
EG020: Copper	7440-50-8	1	---	mg/kg	15	4	
EG020: Lead	7439-92-1	1	---	mg/kg	68	57	
EG020: Nickel	7440-02-0	1	---	mg/kg	3	1	
EG020: Zinc	7440-66-6	1	---	mg/kg	140	52	
EP-071: Total Petroleum Hydrocarbons (TPH)							
C6 - C9 Fraction	---	2	---	mg/kg	<2	<2	
C10 - C14 Fraction	---	50	---	mg/kg	<50	<50	
C15 - C28 Fraction	---	100	---	mg/kg	<100	<100	
C29 - C36 Fraction	---	100	---	mg/kg	<100	<100	
EP-080: BTEX							
Benzene	71-43-2	0.2	---	mg/kg	<0.2	<0.2	
Toluene	108-88-3	0.2	---	mg/kg	<0.2	<0.2	
Chlorobenzene	108-90-7	0.2	---	mg/kg	<0.2	<0.2	
Ethylbenzene	100-41-4	0.2	---	mg/kg	<0.2	<0.2	
meta- & para-Xylene	108-38-3	0.4	---	mg/kg	<0.4	<0.4	
ortho-Xylene	95-47-6	0.2	---	mg/kg	<0.2	<0.2	
EP-074E: Halogenated Aliphatics							
1,1-Dichloroethene	75-35-4	0.5	---	mg/kg	<0.5	<0.5	
trans-1,2-Dichloroethene	156-60-5	0.5	---	mg/kg	<0.5	<0.5	
1,1-Dichloroethane	75-34-3	0.5	---	mg/kg	<0.5	<0.5	
cis-1,2-Dichloroethane	156-59-2	0.5	---	mg/kg	<0.5	<0.5	
1,1,1-Trichloroethane	71-55-6	0.5	---	mg/kg	<0.5	<0.5	
1,1-Dichloropropylene	563-58-6	0.5	---	mg/kg	<0.5	<0.5	
Carbon Tetrachloride	56-23-5	0.5	---	mg/kg	<0.5	<0.5	
1,2-Dichloroethane	107-06-2	0.5	---	mg/kg	<0.5	<0.5	
Trichloroethene	79-01-6	0.5	---	mg/kg	<0.5	<0.5	
Dibromomethane	74-95-3	0.5	---	mg/kg	<0.5	<0.5	
1,1,2-Trichloroethane	79-00-5	0.5	---	mg/kg	<0.5	<0.5	
1,3-Dichloropropane	142-28-9	0.5	---	mg/kg	<0.5	<0.5	
Tetrachloroethene	127-18-4	0.5	---	mg/kg	<0.5	<0.5	
1,1,1,2-Tetrachloroethane	630-20-6	0.5	---	mg/kg	<0.5	<0.5	
1,1,2,2-Tetrachloroethane	79-34-5	0.5	---	mg/kg	<0.5	<0.5	
1,2,3-Trichloropropane	96-18-4	0.5	---	mg/kg	<0.5	<0.5	
1,2-Dibromo-3-chloropropane	96-12-8	0.5	---	mg/kg	<0.5	<0.5	
Hexachlorobutadiene	87-68-3	0.5	---	mg/kg	<0.5	<0.5	



Compound	Client sample ID		CAS Number	LOR	Unit	Client sampling date / time	GFSAs	
	Sub-Matrix: SOIL	Client sample ID					GFSAs	GFSAs
EP-075A: Phenols								
Phenol			108-95-2	0.5	mg/kg			<0.5
2-Chlorophenol			95-57-8	0.5	mg/kg			<0.5
2-Methylphenol			95-48-7	0.5	mg/kg			<0.5
4-Methylphenol			106-44-5	0.5	mg/kg			<0.5
2-Nitrophenol			88-75-5	0.5	mg/kg			<0.5
2,4-Dimethylphenol			105-67-9	0.5	mg/kg			<0.5
2,4-Dichlorophenol			120-83-2	0.5	mg/kg			<0.5
4-Chloro-3-Methylphenol			59-50-7	0.5	mg/kg			<0.5
2,4,6-Trichlorophenol			88-06-2	0.5	mg/kg			<0.5
2,4,5-Trichlorophenol			95-95-4	0.5	mg/kg			<0.5
Pentachlorophenol			87-86-5	2.5	mg/kg			<2.5
EP-075B: Polyaromatic Hydrocarbons (PAHs)								
Naphthalene			91-20-3	0.5	mg/kg			<0.5
2-Methylnaphthalene			91-57-6	0.5	mg/kg			<0.5
2-Chloronaphthalene			91-58-7	0.5	mg/kg			<0.5
Acenaphthylene			208-96-8	0.5	mg/kg			<0.5
Acenaphthene			83-32-9	0.5	mg/kg			<0.5
Fluorene			86-73-7	0.5	mg/kg			<0.5
Phenanthrene			85-01-8	0.5	mg/kg			<0.5
Anthracene			120-12-7	0.5	mg/kg			<0.5
Fluoranthene			206-44-0	0.5	mg/kg			<0.5
Pyrene			129-00-0	0.5	mg/kg			<0.5
N-2-Fluorenyl Acetamide			53-96-3	0.5	mg/kg			<0.5
Benz(a)anthracene			56-55-3	0.5	mg/kg			<0.5
Chrysene			218-01-9	0.5	mg/kg			<1
Benzo(b) & Benzo(k)fluoranthene			205-99-2	1	mg/kg			<1
7,12-Dimethylbenz(a)anthracene			57-97-6	0.5	mg/kg			<0.5
Benzo(a)pyrene			50-32-8	0.5	mg/kg			<0.5
3-Methylcholanthrene			56-49-5	0.5	mg/kg			<0.5
Indeno(1,2,3-cd)pyrene			193-39-5	0.5	mg/kg			<0.5
Dibenz(a,h)anthracene			53-70-3	0.5	mg/kg			<0.5
Benzo(g,h,i)perylene			191-24-2	0.5	mg/kg			<0.5
EP-066: Polychlorinated Biphenyls								
Total Polychlorinated biphenyls			----	0.1	mg/kg			<0.1
EP-080S: TPH(Volatile)/BTEX Surrogate								
Dibromofluoromethane			1868-53-7	0.1	%			97.9
Toluene-D8			2037-26-5	0.1	%			99.9
4-Bromofluorobenzene			460-00-4	0.1	%			106
EP-074S: VOC Surrogates								
Dibromofluoromethane			1868-53-7	0.1	%			97.9
Toluene-D8			2037-26-5	0.1	%			99.9

Surrogate control limits listed at end of this report.

Surrogate control limits listed at end of this report.

Sub-Matrix: SOIL

GFSAs: 05/BBC
1.5M/18-05-09
[18-MAY-2009]
HK0909921-002

GFSAs: 05/BBC
0.5M/18-05-09
[18-MAY-2009]
HK0909921-001

Compound	CAS Number	LOR	Client sample ID		Unit	Surrogate control limits listed at end of this report.
			CAS Number	LOR		
EP-074S: VOC Surrogates - Continued						
4-Bromofluorobenzene	460-00-4	0.1			%	106
EP-075S: Acid Extractable Surrogates						
2-Fluorophenol	367-12-4	0.1			%	78.7
Phenol-d6	13127-88-3	0.1			%	76.9
2,4,6-Tribromophenol	118-79-6	0.1			%	75.3
EP-075T: Base/Neutral Extractable Surrogates						
Nitrobenzene -d5	4165-60-0	0.1			%	78.3
2-Fluorobiphenyl	321-60-8	0.1			%	79.6
4-Terphenyl-d14	1718-51-0	0.1			%	92.4
EP-066S: PCB Surrogate						
Tetrachlorometaxylene	877-09-8	0.1			%	81.6
Dibutylchlorendate	1770-80-5	0.1			%	59.4



Laboratory Duplicate (DUP) Report

Matrix: SOIL		Method: Compound		Laboratory Duplicate (DUP) Report				RPD (%)
Laboratory sample ID	Client sample ID	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	
EAJED: Physical and Aggregate Properties (QC Lot: 986452)								
HK0909344-001	Anonymous	-----	0.1	%	27.2	27.2	1.7	
HK0909953-008	Anonymous	-----	0.1	%	14.3	14.3	2.5	
EG: Metals and Major Cations (QC Lot: 989334)								
HK0909891-002	Anonymous	7440-43-9	0.2	mg/kg	<0.2	<0.2	0.0	
		7440-48-4	0.5	mg/kg	11.9	12.1	1.4	
		7440-38-2	1	mg/kg	5	5	0.0	
		7440-50-8	1	mg/kg	26	27	5.8	
		7439-92-1	1	mg/kg	44	42	3.1	
		7440-02-0	1	mg/kg	29	28	0.0	
		7440-66-6	1	mg/kg	127	131	2.9	
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 985467)								
HK0909873-001	Anonymous	-----	2	mg/kg	<2	<2	0.0	
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 986490)								
HK0909921-001	GFSA-05/BBC 0.5M/18-05-09	-----	100	mg/kg	<100	<100	0.0	
EP-080: BTEX (QC Lot: 985467)								
HK0909873-001	Anonymous	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	
		108-88-3	0.2	mg/kg	<0.2	<0.2	0.0	
		108-90-7	0.2	mg/kg	<0.2	<0.2	0.0	
		100-41-4	0.2	mg/kg	<0.2	<0.2	0.0	
		95-47-6	0.2	mg/kg	<0.2	<0.2	0.0	
		108-38-3	0.4	mg/kg	<0.2	<0.2	0.0	
		106-42-3	0.4	mg/kg	<0.4	<0.4	0.0	
EP-074E: Halogenated Aliphatics (QC Lot: 986487)								
HK0909921-001	GFSA-05/BBC 0.5M/18-05-09	75-35-4	0.5	mg/kg	<0.5	<0.5	0.0	
		156-60-5	0.5	mg/kg	<0.5	<0.5	0.0	
		75-34-3	0.5	mg/kg	<0.5	<0.5	0.0	
		156-59-2	0.5	mg/kg	<0.5	<0.5	0.0	
		71-55-6	0.5	mg/kg	<0.5	<0.5	0.0	
		563-58-6	0.5	mg/kg	<0.5	<0.5	0.0	
		56-23-5	0.5	mg/kg	<0.5	<0.5	0.0	
		107-06-2	0.5	mg/kg	<0.5	<0.5	0.0	
		79-01-6	0.5	mg/kg	<0.5	<0.5	0.0	
		74-95-3	0.5	mg/kg	<0.5	<0.5	0.0	
		79-00-5	0.5	mg/kg	<0.5	<0.5	0.0	
		142-28-9	0.5	mg/kg	<0.5	<0.5	0.0	
		127-18-4	0.5	mg/kg	<0.5	<0.5	0.0	
		630-20-6	0.5	mg/kg	<0.5	<0.5	0.0	
		79-34-5	0.5	mg/kg	<0.5	<0.5	0.0	

Matrix: SOIL

Laboratory sample ID Client sample ID Method: Compound

EP-074E: Halogenated Aliphatics (QC Lot: 986487) - Continued

HK0909921-001 GFSA-05/BBC 0.5M/18-05-09
 1.2,3-Trichloropropane
 1.2-Dibromo-3-chloropropane
 Hexachlorobutadiene

EP-075A: Phenols (QC Lot: 986491)

HK0909921-001 GFSA-05/BBC 0.5M/18-05-09

Phenol
 2-Chlorophenol
 2-Methylphenol
 4-Methylphenol
 2-Nitrophenol
 2,4-Dimethylphenol
 2,4-Dichlorophenol
 4-Chloro-3-Methylphenol
 2,4,6-Trichlorophenol
 2,4,5-Trichlorophenol
 Pentachlorophenol

EP-075B: Polyaromatic Hydrocarbons (PAHs) (QC Lot: 986491)

HK0909921-001 GFSA-05/BBC 0.5M/18-05-09

Naphthalene
 2-Methylnaphthalene
 2-Chloronaphthalene
 Acenaphthylene
 Acenaphthene
 Fluorene
 Phenanthrene
 Anthracene
 Fluoranthene
 Pyrene
 N-2-Fluorenyl Acetamide
 Benz(a)anthracene
 Chrysene
 7,12-Dimethylbenz(a)anthracene
 Benzo(a)pyrene
 3-Methylcholanthrene
 Indeno(1,2,3-cd)pyrene
 Dibenz(a,h)anthracene
 Benzo(g,h,i)perylene
 Benzo(b) & Benzo(k)fluoranthene

EP-066: Polychlorinated Biphenyls (QC Lot: 980547)

HK0909340-001 Anonymous

Total Polychlorinated biphenyls

CAS Number	LOR	Unit	Laboratory Duplicate (DUP) Report		RPD (%)
			Original Result	Duplicate Result	
96-18-4	0.5	mg/kg	<0.5	<0.5	0.0
96-12-8	0.5	mg/kg	<0.5	<0.5	0.0
87-68-3	0.5	mg/kg	<0.5	<0.5	0.0
108-95-2	0.5	mg/kg	<0.5	<0.5	0.0
95-57-8	0.5	mg/kg	<0.5	<0.5	0.0
95-48-7	0.5	mg/kg	<0.5	<0.5	0.0
106-44-5	0.5	mg/kg	<0.5	<0.5	0.0
88-75-5	0.5	mg/kg	<0.5	<0.5	0.0
105-67-9	0.5	mg/kg	<0.5	<0.5	0.0
120-83-2	0.5	mg/kg	<0.5	<0.5	0.0
59-50-7	0.5	mg/kg	<0.5	<0.5	0.0
88-06-2	0.5	mg/kg	<0.5	<0.5	0.0
95-95-4	0.5	mg/kg	<0.5	<0.5	0.0
87-86-5	2.5	mg/kg	<2.5	<2.5	0.0
91-20-3	0.5	mg/kg	<0.5	<0.5	0.0
91-57-6	0.5	mg/kg	<0.5	<0.5	0.0
91-58-7	0.5	mg/kg	<0.5	<0.5	0.0
208-96-8	0.5	mg/kg	<0.5	<0.5	0.0
83-32-9	0.5	mg/kg	<0.5	<0.5	0.0
86-73-7	0.5	mg/kg	<0.5	<0.5	0.0
85-01-8	0.5	mg/kg	<0.5	<0.5	0.0
120-12-7	0.5	mg/kg	<0.5	<0.5	0.0
206-44-0	0.5	mg/kg	<0.5	<0.5	0.0
129-00-0	0.5	mg/kg	<0.5	<0.5	0.0
53-96-3	0.5	mg/kg	<0.5	<0.5	0.0
56-55-3	0.5	mg/kg	<0.5	<0.5	0.0
218-01-9	0.5	mg/kg	<0.5	<0.5	0.0
57-97-6	0.5	mg/kg	<0.5	<0.5	0.0
50-32-8	0.5	mg/kg	<0.5	<0.5	0.0
56-49-5	0.5	mg/kg	<0.5	<0.5	0.0
193-39-5	0.5	mg/kg	<0.5	<0.5	0.0
53-70-3	0.5	mg/kg	<0.5	<0.5	0.0
191-24-2	0.5	mg/kg	<0.5	<0.5	0.0
205-99-2	1	mg/kg	<1	<1	0.0
207-08-9					
----	0.1	mg/kg	0.5	0.5	0.0

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

Matrix: SOIL

Method Blank (MB) Report

Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Low	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 9893334)													
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	88.8	---	---	85	115	---	---	---
EG020: Cadmium	7440-43-9	0.2	mg/kg	<0.2	5 mg/kg	87.3	---	---	85	115	---	---	---
EG020: Cobalt	7440-48-4	1	mg/kg	<0.5	5 mg/kg	89.9	---	---	85	115	---	---	---
EG020: Copper	7440-50-8	1	mg/kg	<1	5 mg/kg	93.1	---	---	85	115	---	---	---
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	91.6	---	---	85	115	---	---	---
EG020: Nickel	7440-02-0	1	mg/kg	<1	5 mg/kg	91.5	---	---	85	115	---	---	---
EG020: Zinc	7440-66-6	1	mg/kg	<1	5 mg/kg	85.4	---	---	85	115	---	---	---
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 985467)													
C6 - C9 Fraction	---	2	mg/kg	<2	4 mg/kg	94.5	---	---	81	120	---	---	---
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 986490)													
C10 - C14 Fraction	---	50	mg/kg	<50	16 mg/kg	94.5	---	---	58	138	---	---	---
C15 - C28 Fraction	---	100	mg/kg	<100	53 mg/kg	95.7	---	---	62	116	---	---	---
C29 - C36 Fraction	---	100	mg/kg	<100	45 mg/kg	98.2	---	---	40	122	---	---	---
EP-080: BTEX (QC Lot: 985467)													
Benzene	71-43-2	0.2	mg/kg	<0.2	0.2 mg/kg	91.3	---	---	40	120	---	---	---
Toluene	108-88-3	0.2	mg/kg	<0.2	0.2 mg/kg	98.0	---	---	45	132	---	---	---
Chlorobenzene	108-90-7	0.2	mg/kg	<0.2	0.2 mg/kg	95.6	---	---	64	121	---	---	---
Ethylbenzene	100-41-4	0.2	mg/kg	<0.2	0.2 mg/kg	91.4	---	---	61	120	---	---	---
meta- & para-Xylene	108-38-3	0.4	mg/kg	<0.4	0.4 mg/kg	100	---	---	56	134	---	---	---
ortho-Xylene	95-47-6	0.2	mg/kg	<0.2	0.2 mg/kg	92.5	---	---	58	125	---	---	---
EP-074E: Halogenated Aliphatics (QC Lot: 986487)													
1,1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	0.5 mg/kg	104	---	---	44	141	---	---	---
trans-1,2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	0.5 mg/kg	102	---	---	58	143	---	---	---
1,1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	0.5 mg/kg	97.2	---	---	67	141	---	---	---
cis-1,2-Dichloroethane	156-59-2	0.5	mg/kg	<0.5	0.5 mg/kg	95.7	---	---	67	140	---	---	---
1,1,1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	0.5 mg/kg	102	---	---	64	141	---	---	---
1,1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	0.5 mg/kg	98.1	---	---	71	136	---	---	---
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	0.5 mg/kg	100	---	---	65	137	---	---	---
1,2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	0.5 mg/kg	94.0	---	---	52	149	---	---	---
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	0.5 mg/kg	99.6	---	---	74	136	---	---	---
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	0.5 mg/kg	93.7	---	---	72	134	---	---	---
1,1,2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	0.5 mg/kg	96.2	---	---	74	150	---	---	---
1,3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	0.5 mg/kg	96.0	---	---	66	154	---	---	---
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	0.5 mg/kg	104	---	---	69	151	---	---	---
1,1,1,2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	0.5 mg/kg	102	---	---	81	129	---	---	---
1,1,2,2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	0.5 mg/kg	96.1	---	---	69	158	---	---	---
1,2,3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	0.5 mg/kg	91.2	---	---	63	155	---	---	---
1,2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	0.5 mg/kg	90.6	---	---	75	133	---	---	---
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	0.5 mg/kg	113	---	---	74	131	---	---	---
EP-075A: Phenols (QC Lot: 986491)													
Phenol	108-95-2	0.5	mg/kg	<0.5	0.25 mg/kg	74.7	---	---	46	109	---	---	---
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	0.25 mg/kg	75.2	---	---	57	104	---	---	---



Matrix: SOIL

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
EP-075A: Phenols (QC Lot: 98649†) - Continued											
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	0.25 mg/kg	77.1	---	43	---	---	---
4-Methylphenol	106-44-5	0.5	mg/kg	<0.5	0.25 mg/kg	77.9	---	43	---	---	---
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	0.25 mg/kg	75.2	---	48	---	---	---
2,4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	0.25 mg/kg	70.9	---	16	---	---	---
2,4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	0.25 mg/kg	80.3	---	52	---	---	---
4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	<0.5	0.25 mg/kg	86.5	---	54	---	---	---
2,4,6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	0.25 mg/kg	80.4	---	42	---	---	---
2,4,5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	0.25 mg/kg	86.6	---	51	---	---	---
Pentachlorophenol	87-86-5	2.5	mg/kg	<2.5	1.25 mg/kg	81.5	---	55	---	---	---
EP-075B: Polyaromatic Hydrocarbons (PAHs) (QC Lot: 98649†)											
Naphthalene	91-20-3	0.5	mg/kg	<0.5	0.25 mg/kg	78.3	---	61	---	---	---
2-Methylnaphthalene	91-57-6	0.5	mg/kg	<0.5	0.25 mg/kg	83.8	---	57	---	---	---
2-Chloronaphthalene	91-58-7	0.5	mg/kg	<0.5	0.25 mg/kg	83.9	---	57	---	---	---
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	0.25 mg/kg	83.6	---	64	---	---	---
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	0.25 mg/kg	85.4	---	72	---	---	---
Fluorene	86-73-7	0.5	mg/kg	<0.5	0.25 mg/kg	88.4	---	74	---	---	---
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	0.25 mg/kg	91.2	---	72	---	---	---
Anthracene	120-12-7	0.5	mg/kg	<0.5	0.25 mg/kg	90.6	---	65	---	---	---
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	0.25 mg/kg	92.6	---	65	---	---	---
Pyrene	129-00-0	0.5	mg/kg	<0.5	0.25 mg/kg	92.2	---	66	---	---	---
N-2-Fluorenyl Acetamide	53-96-3	0.5	mg/kg	<0.5	0.25 mg/kg	89.6	---	62	---	---	---
Benzo(a)anthracene	56-55-3	0.5	mg/kg	<0.5	0.25 mg/kg	90.5	---	70	---	---	---
Chrysene	218-01-9	0.5	mg/kg	<0.5	0.25 mg/kg	91.1	---	68	---	---	---
Benzo(b) & Benzo(k)fluoranthene	205-99-2	1.0	mg/kg	<1	0.50 mg/kg	83.5	---	70	---	---	---
7,12-Dimethylbenz(a)anthracene	57-97-6	0.5	mg/kg	<0.5	0.25 mg/kg	95.1	---	53	---	---	---
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	0.25 mg/kg	81.4	---	58	---	---	---
3-Methylcholanthrene	56-49-5	0.5	mg/kg	<0.5	0.25 mg/kg	70.8	---	55	---	---	---
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	<0.5	0.25 mg/kg	93.2	---	68	---	---	---
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	0.25 mg/kg	79.1	---	63	---	---	---
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	0.25 mg/kg	76.5	---	66	---	---	---
EP-066: Polychlorinated Biphenyls (QC Lot: 980547)											
Total Polychlorinated biphenyls	---	0.1	mg/kg	<0.1	0.5 mg/kg	119	---	71	---	---	---

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

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Value	RPD (%)	Control Limit
EG: Metals and Major Cations (QC Lot: 989334)	EG020: Arsenic	Anonymous	7440-38-2	5 mg/kg	98.4	---	75	---	---	---
HK0909891-001	Anonymous	EG020: Arsenic	7440-38-2	5 mg/kg	98.4	---	75	---	---	---

Matrix: SOIL

Laboratory sample ID Client sample ID Method: Compound

EG: Metals and Major Cations (QC Lot: 989334) - Continued

HK0909891-001 Anonymous EG020: Cadmium

EG020: Cobalt

EG020: Copper

EG020: Lead

EG020: Nickel

EG020: Zinc

EP-074: Total Petroleum Hydrocarbons (TPH) (QC Lot: 985467)

HK0909873-002 Anonymous C6 - C9 Fraction

EP-074: Total Petroleum Hydrocarbons (TPH) (QC Lot: 986490)

HK0909921-002 GFSA-05/BBC 1.5M/18-05-09 C10 - C14 Fraction

C15 - C28 Fraction

C29 - C36 Fraction

EP-080: BTEX (QC Lot: 985467)

HK0909873-002 Anonymous

Benzene

Toluene

Chlorobenzene

Ethylbenzene

meta- & para-Xylene

ortho-Xylene

Surrogate Control Limits

Sub-Matrix: SOIL

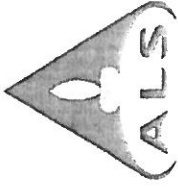
Compound	CAS Number	Recovery Limits (%)
		Low High
EP-080S: TPH(Volatile)/BTEX Surrogate		
Dibromofluoromethane	1868-53-7	80 120
Toluene-D8	2037-26-5	81 117
4-Bromofluorobenzene	460-00-4	74 121
EP-074S: VOC Surrogates		
Dibromofluoromethane	1868-53-7	80 120
Toluene-D8	2037-26-5	81 117
4-Bromofluorobenzene	460-00-4	74 121
EP-075S: Acid Extractable Surrogates		
2-Fluorophenol	367-12-4	25 121
Phenol-d6	13127-88-3	24 113
2,4,6-Tribromophenol	118-79-6	20 122
EP-075T: Base/Neutral Extractable Surrogates		

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	MSD	Recovery Limits (%)	Value	RPD (%)
							Low High		
7440-43-9		5 mg/kg	86.2	---	---	75 125			
7440-48-4		5 mg/kg	83.1	---	---	75 125			
7440-50-8		5 mg/kg	77.4	---	---	75 125			
7439-92-1		5 mg/kg	# Not Determined	---	---	75 125			
7440-02-0		5 mg/kg	# Not Determined	---	---	75 125			
7440-66-6		5 mg/kg	# Not Determined	---	---	75 125			
---		4 mg/kg	98.1	---	---	50 130			
---		16 mg/kg	88.9	---	---	50 130			
---		53 mg/kg	108	---	---	50 130			
---		45 mg/kg	123	---	---	50 130			
71-43-2		0.2 mg/kg	95.4	---	---	50 130			
108-88-3		0.2 mg/kg	94.2	---	---	50 130			
108-90-7		0.2 mg/kg	90.5	---	---	50 130			
100-41-4		0.2 mg/kg	99.3	---	---	50 130			
108-38-3		0.4 mg/kg	96.8	---	---	50 130			
106-42-3		0.2 mg/kg	97.5	---	---	50 130			
95-47-6		0.2 mg/kg	97.5	---	---	50 130			



Sub-Matrix: SOIL Compound	CAS Number	Recovery Limits (%)	
		Low	High
EP-075T: Base/Neutral Extractable Surrogates - Continued			
Nitrobenzene -d5	4165-60-0	23	120
2-Fluorobiphenyl	321-60-8	30	115
4-Terphenyl-d14	1718-51-0	20	137
EP-066S: PCB Surrogate			
Tetrachlorometaxylene	877-09-8	50	130
Dibutylchloroendate	1770-80-5	50	130



CERTIFICATE OF ANALYSIS

Client	: KIN WING CONSTRUCTION COMPANY LIMITED	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 3
Contact	: MR ERIC WONG	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK0914219
Address	: FLAT A, BLOCK 2, 6/F., KIN HO INDUSTRIAL BUILDING, 14-24 AU PUI WAN STREET, FOTAN, SHATIN, HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Erickkwong7@yahoo.com.hk	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2785 8152	Telephone	: +852 2610 1044		
Facsimile	: +852 2725 9316	Facsimile	: +852 2610 2021		
Project	: CONTRACT KL_2008_02 DECOMMISSIONING OF KAI TAK AIRPORT	Quote number	: —	Date Samples Received	: 14-JUL-2009
Order number	: —			Issue Date	: 23-JUL-2009
C-O-C number	: H006133			No. of samples received	: 1
Site	: —			No. of samples analysed	: 1

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 date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is:

16-JUL-2009

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: HK0914219

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.
Water sample(s) analysed and reported on an as received basis.

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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	Position	Authorised results for
Anh Ngoc Huynh	Senior Chemist	Organics



Laboratory Duplicate (DUP) Report

Matrix: WATER		Method: Compound		Laboratory Duplicate (DUP) Report		RPD (%)
Laboratory sample ID	Client sample ID	CAS Number	LOR	Original Result	Duplicate Result	
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1041538)						
HK0914219-001	GFSA-05 TRIP BLANK		20	<20	<20	0.0
EP-080: BTEX (QC Lot: 1041538)						
HK0914219-001	GFSA-05 TRIP BLANK		2	<2	<2	0.0
	Benzene	71-43-2	2	<2	<2	0.0
	Toluene	108-88-3	2	<2	<2	0.0
	Chlorobenzene	108-90-7	2	<2	<2	0.0
	Ethylbenzene	100-41-4	2	<2	<2	0.0
	ortho-Xylene	95-47-6	2	<2	<2	0.0
	meta- & para-Xylene	108-38-3	4	<4	<4	0.0
		106-42-3				

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

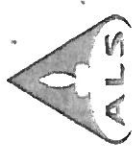
Matrix: WATER		Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report		Recovery Limits (%)		Control Limit	
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Value	
EP-071: Total Petroleum Hydrocarbons (TPH) (QC Lot: 1041538)									
C8 - C9 Fraction		20	µg/L	<20	200 µg/L	85.0		79	122
EP-080: BTEX (QC Lot: 1041538)									
Benzene	71-43-2	2	µg/L	<2	10 µg/L	91.4		63	105
Toluene	108-88-3	2	µg/L	<2	10 µg/L	85.4		71	101
Chlorobenzene	108-90-7	2	µg/L	<2	10 µg/L	84.4		71	107
Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	91.5		74	100
meta- & para-Xylene	108-38-3	4	µg/L	<4	20 µg/L	83.5		74	103
ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	83.8		76	97

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

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

Surrogate Control Limits

Sub-Matrix: WATER	Recovery Limits (%)	
Compound	Low	High
EP-080S: TPH(Volatile)/BTEX Surrogate		
Dibromofluoromethane	86	118
Toluene-D8	88	110
4-Bromofluorobenzene	86	115



Analytical Results

Sub-Matrix: WATER
 Client sample ID : GFSA-05 TRIP BLANK
 Client sampling date / time : [14-JUL-2009]
 CAS Number : LOR Unit : HK0914219-001

Compound	CAS Number	LOR	Unit	Result
EP-071: Total Petroleum Hydrocarbons (TPH)				
C6 - C8 Fraction	—	20	µg/L	<20
EP-080: BTEX				
Benzene	71-43-2	2	µg/L	<2
Toluene	108-88-3	2	µg/L	<2
Chlorobenzene	108-90-7	2	µg/L	<2
Ethylbenzene	100-41-4	2	µg/L	<2
meta- & para-Xylene	108-38-3	4	µg/L	<4
ortho-Xylene	95-47-6	2	µg/L	<2
EP-080S: TPH(Volatile)/BTEX Surrogate				
Dibromofluoromethane	1868-53-7	0.1	%	94.4
Toluene-D8	2037-26-5	0.1	%	95.6
4-Bromofluorobenzene	460-00-4	0.1	%	97.8

Surrogate control limits listed at end of this report.

Contract No. : KL/2008/02	Revision No. : 1
Title: Contamination Assessment Report for the Ex-GFS Building	Effective Date : 05 August 09

Appendix B

**Record Photos at Transformer
Room and Generator Room**

Contamination Assessment Report for the Ex-GFS Building

Record Photos at Transformer Room



General view of
relocated trial pit no.
GFSA-05



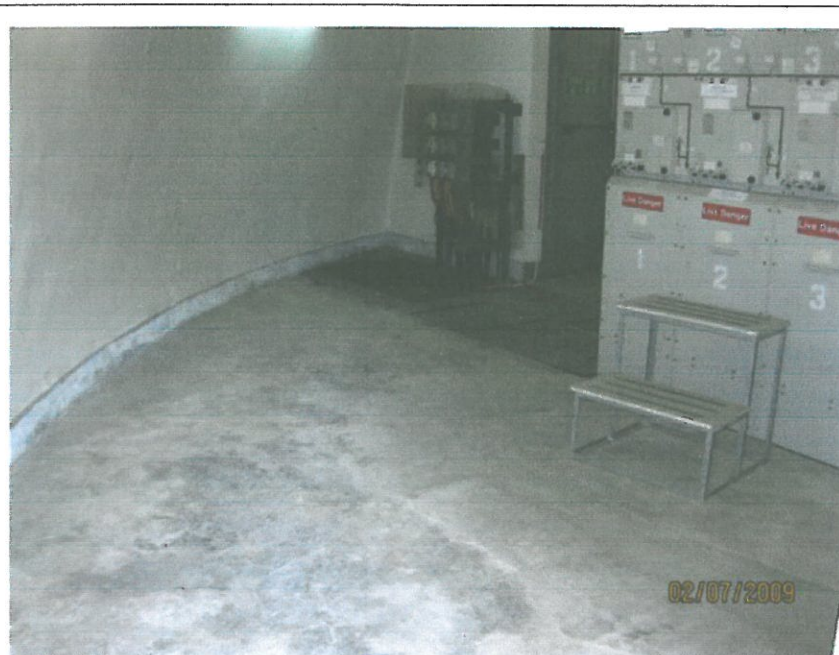
Top view of
sampling locations
at trial pit no.
GFSA-05 below
0.5m and 1.5m BBC

Contamination Assessment Report for the Ex-GFS Building

Record Photos at Transformer Room



No stain was observed inside the transformer room



Concrete paved area inside the transformer room

Contamination Assessment Report for the Ex-GFS Building

Record Photos at Generator Room



General view of
Generator Room



Trial pit no.
GFSA-07 inside the
Generator Room

Contamination Assessment Report for the Ex-GFS Building

Record Photos at Generator Room



Trial pit no.
GFSA-06 inside the
Generator Room



Top side of
reinforced concrete
footing