

**June 2015**







































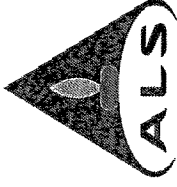






# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client : VW-VES(HK) LTD  
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Project : ----  
Order number : ----  
C-O-C number : ----  
Site : ----

Laboratory : ALS Technichem (HK) Pty Ltd  
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Telephone : +852 2610 1044  
Facsimile : +852 2610 2021  
Quote number : ----

Page : 1 of 19  
Work Order : HK1518647

Date Samples Received : 03-JUN-2015  
Issue Date : 05-JUN-2015  
No. of samples received : 31  
No. of samples analysed : 31

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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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Client : VW-VES(HK) LTD  
Work Order : HK1518647

**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: 04-JUN-2015

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: **HK1518647**

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

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

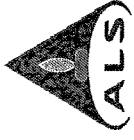
pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.







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 Client : VW-VES(HK) LTD  
 Work Order : HK1518647

Compound	Client sample ID		Client sampling date / time		Client sampling date / time		Client sampling date / time		Client sampling date / time	
	CAS Number	LOR	Unit	Value	Value	Value	Value	Value	Value	Value
EA/ED: Physical and Aggregate Properties										
EA002: pH Value	----	0.1	pH Unit	10.5	10.5	10.4	10.5	10.5	10.5	10.5
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	22.5	15.6	20.0	21.3	21.3	22.9	22.9

Sub-Matrix: SOLID

RESIDUE AF

RESIDUE AF

RESIDUE AF

RESIDUE AF

RESIDUE AF

RESIDUE AF

RESIDUE AF

RESIDUE AF

RESIDUE AF



Page Number : 5 of 19  
 Client : VW-VBS(HK) LTD  
 Work Order : HK1518647

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sampling date / time		Client sample ID	
			Unit	Value	Unit	Value
EA/ED: Physical and Aggregate Properties						
EA002: pH Value	----	0.1	pH Unit	10.5	RESIDUE AE	RESIDUE BF
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	21.7	01-JUN-2015 14:50 HK1518647-011	01-JUN-2015 14:45 HK1518647-014
				10.5	01-JUN-2015 17:40 HK1518647-012	01-JUN-2015 18:20 HK1518647-013
				20.1		
				18.4		
				10.6		
				21.8		
				10.4		
				22.2		





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 Client : VW-VES(HK) LTD  
 Work Order : HK1518647

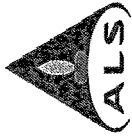
Compound	Client sample ID		CAS Number	Client sampling date / time		LOR	Unit
	RESIDUE BF	RESIDUE BF		RESIDUE BF	RESIDUE BF		
EA/ED: Physical and Aggregate Properties							
EA002: pH Value	10.4	10.4	----	0.1	pH Unit		
EA055: Moisture Content (dried @ 103 °C)	16.1	21.2	----	0.1	%		
	10.4	10.4					
	21.2	18.9					
	10.4	10.4					
	21.5	21.5					
	10.5	10.5					
	19.0	19.0					



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 Client : VW-VES(HK) LTD  
 Work Order : HK1518647

Compound	CAS Number	LOR	Client sample ID		RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AE
			Client sampling date / time	Unit				
EA/ED: Physical and Aggregate Properties								
EA002: pH Value	----	0.1	0.1	09:00	10.5	10.5	10.4	10.4
EA055: Moisture Content (dried @ 103°C)	----	0.1	0.1	09:00	20.5	19.3	14.4	23.2
				15:40				
				15:55				
				16:20				



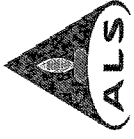


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 Client : VW-VES(HK) LTD  
 Work Order : HK1518647

Sub-Matrix: TCLP LEACHATE		Client sample ID					
Compound	CAS Number	LOR	Client sampling date / time	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
			Unit	HK1518647-001	HK1518647-002	HK1518647-003	HK1518647-004
EG: Metals and Major Cations - Filtered							
EG020: Antimony	7440-36-0	1	ng/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	ng/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	ng/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	ng/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	ng/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	ng/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	ng/kg	2	2	<1	<1
EG020: Lead	7439-92-1	1	ng/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	ng/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	ng/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	ng/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	ng/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	ng/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	ng/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	ng/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	ng/kg	2	2	<1	<1
Sample Preparation Method							
E-TCLP: Extraction Fluid	.....	-	..	2	2	1	1
Number							







Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LOR	Client sampling date / time	Client sample ID					
				RESIDUE AE 01-JUN-2015 12:00 HK1518647-011	RESIDUE AE 01-JUN-2015 12:00 HK1518647-012	RESIDUE AE 01-JUN-2015 12:00 HK1518647-013	RESIDUE BF 01-JUN-2015 12:00 HK1518647-014	RESIDUE BF 01-JUN-2015 12:00 HK1518647-015	
<b>EG: Metals and Major Cations - Filtered</b>									
EG020: Antimony	7440-36-0	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Arsenic	7440-38-2	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Barium	7440-39-3	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Beryllium	7440-41-7	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Cadmium	7440-43-9	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Chromium	7440-47-3	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Copper	7440-50-8	1	ng/kg	<1	<1	1	1	1	
EG020: Lead	7439-92-1	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Mercury	7439-97-6	0.2	ng/kg	<0.2	<0.2	<0.2	<0.2	<0.2	
EG020: Nickel	7440-02-0	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Selenium	7782-49-2	0.2	ng/kg	<0.2	<0.2	<0.2	<0.2	<0.2	
EG020: Silver	7440-22-4	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Thallium	7440-28-0	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Tin	7440-31-5	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Vanadium	7440-62-2	1	ng/kg	<1	<1	<1	<1	<1	
EG020: Zinc	7440-66-6	1	ng/kg	<1	<1	<1	2	1	
<b>Sample Preparation Method</b>									
E-TCLP: Extraction Fluid Number	----	-	..	1	2	1	2	2	



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 Client : VW-VES(HK) LTD  
 Work Order : HK1518647

Compound	Client sample ID		Client sampling date / time		Client sample ID		Client sampling date / time		
	CAS Number	LOR	Unit	ASH AF	ASH AF	ASH AF	ASH AF	ASH BE	ASH B 中間灰
Sub-Matrix: TCLP LEACHATE									
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	ng/kg	1	1	1	1	1	1
EG020: Lead	7439-92-1	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	ng/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	ng/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	ng/kg	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	ng/kg	1	2	2	2	1	2
Sample Preparation Method									
E-TCLP: Extraction Fluid									
Number	-----	-	---	1	1	1	1	1	1

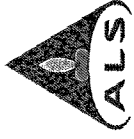




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 Client : VW-VBS(HK) LTD  
 Work Order : HK1518647

Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LOR	Client sampling date / time		Client sample ID	
			Unit	RESIDUE AE	RESIDUE AE	RESIDUE AE
<b>EG: Metals and Major Cations - Filtered</b>						
EG020: Antimony	7440-36-0	1	ng/kg	<1	<1	<1
EG020: Arsenic	7440-38-2	1	ng/kg	<1	<1	<1
EG020: Barium	7440-39-3	1	ng/kg	<1	<1	<1
EG020: Beryllium	7440-41-7	1	ng/kg	<1	<1	<1
EG020: Cadmium	7440-43-9	1	ng/kg	<1	<1	<1
EG020: Chromium	7440-47-3	1	ng/kg	<1	<1	<1
EG020: Copper	7440-50-8	1	ng/kg	2	2	2
EG020: Lead	7439-92-1	1	ng/kg	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	ng/kg	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	ng/kg	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	ng/kg	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	ng/kg	<1	<1	<1
EG020: Thallium	7440-28-0	1	ng/kg	<1	<1	<1
EG020: Tin	7440-31-5	1	ng/kg	<1	<1	<1
EG020: Vanadium	7440-62-2	1	ng/kg	<1	<1	<1
EG020: Zinc	7440-66-6	1	ng/kg	1	<1	1
<b>Sample Preparation Method</b>						
E-TCLP: Extraction Fluid	----	-	--	2	1	2
Number						



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 Client : VW-VES(HK) LTD  
 Work Order : HK1518647

Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AB
Compound	CAS Number	LOR	Client sampling date / time	HK1518647-031
<b>EG: Metals and Major Cations - Filtered</b>				
EG020: Antimony	7440-36-0	1	ng/kg	<1
EG020: Arsenic	7440-38-2	1	ng/kg	<1
EG020: Barium	7440-39-3	1	ng/kg	<1
EG020: Beryllium	7440-41-7	1	ng/kg	<1
EG020: Cadmium	7440-43-9	1	ng/kg	<1
EG020: Chromium	7440-47-3	1	ng/kg	<1
EG020: Copper	7440-50-8	1	ng/kg	2
EG020: Lead	7439-92-1	1	ng/kg	<1
EG020: Mercury	7439-97-6	0.2	ng/kg	<0.2
EG020: Nickel	7440-02-0	1	ng/kg	<1
EG020: Selenium	7782-49-2	0.2	ng/kg	<0.2
EG020: Silver	7440-22-4	1	ng/kg	<1
EG020: Thallium	7440-28-0	1	ng/kg	<1
EG020: Tin	7440-31-5	1	ng/kg	<1
EG020: Vanadium	7440-63-2	1	ng/kg	<1
EG020: Zinc	7440-66-6	1	ng/kg	1
<b>Sample Preparation Method</b>				
E-TCLP: Extraction Fluid	----	-	--	2



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 Client : VW-VES(HK) LTD  
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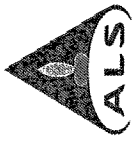
**Laboratory Duplicate (DUP) Report**

Laboratory sample ID		Client sample ID		Method: Compound		Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Client sample ID	Method: Compound	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits	Value	Control Limit
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3950401)</b>													
HK1518647-001	RESIDUE AF	EA002: pH Value	0.1	pH Unit	10.4	10.4	0.0						
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3950403)</b>													
HK1518647-021	RESIDUE BF	EA002: pH Value	0.1	pH Unit	10.4	10.4	0.0						
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3950769)</b>													
HK1518647-001	RESIDUE AF	EA055: Moisture Content (dried @ 103°C)	0.1	%	17.3	17.7	2.0						
HK1518647-011	RESIDUE AE	EA055: Moisture Content (dried @ 103°C)	0.1	%	21.7	21.6	0.8						
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3950770)</b>													
HK1518647-021	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	0.1	%	16.1	15.7	2.2						
HK1518647-031	RESIDUE AE	EA055: Moisture Content (dried @ 103°C)	0.1	%	19.4	19.4	0.0						

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

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report									
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits	Value	RPD (%)	Control Limit		
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3950954)</b>													
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	98.3	----	76	118	----	----		
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	94.2	----	72	124	----	----		
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	96.9	----	80	120	----	----		
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	90.2	----	74	122	----	----		
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	94.0	----	79	117	----	----		
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	96.8	----	78	120	----	----		
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	98.6	----	78	118	----	----		
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	95.5	----	79	115	----	----		
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	111	----	76	120	----	----		
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	95.0	----	78	120	----	----		
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	99.0	----	81	119	----	----		
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	102	----	76	114	----	----		
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	96.9	----	81	113	----	----		
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	101	----	79	119	----	----		
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	96.8	----	78	124	----	----		
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	97.0	----	70	130	----	----		
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3950955)</b>													
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	96.5	----	76	118	----	----		
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	92.5	----	72	124	----	----		
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	96.8	----	80	120	----	----		
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	90.4	----	74	122	----	----		

MATRIX: WATER



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 Client : VW-VES(HK) LTD  
 Work Order : HK1518647

Method Blank (MB) Report

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

Matrix: WATER

Method Compound	CAS Number	LOR	Unit	Result	Spike Concentration		Spike Recovery (%)		Recovery Limits		Value	RPD (%)	Control Limit
					LCS	DCS	Low	High					
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3950955) - Continued</b>													
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	90.7	---	79	117	---	---	---	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	96.5	---	78	120	---	---	---	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	98.4	---	78	118	---	---	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	95.6	---	79	115	---	---	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	108	---	76	120	---	---	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	96.0	---	78	120	---	---	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	97.2	---	81	119	---	---	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	102	---	76	114	---	---	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	96.5	---	81	113	---	---	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	101	---	79	119	---	---	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	99.4	---	78	124	---	---	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	91.6	---	70	130	---	---	---	---



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 Client : VW-VES(HK) LTD  
 Work Order : HK1518647

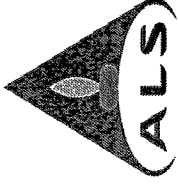
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	MS	MSD	Recovery (%)	Low (%)	High	Value
EG: Metals and Major Cations - Filtered (QC Lot: 3950954)										
HK1518647-001		RESIDUE AF								
		EG020: Antimony	7440-36-0	1 mg/L	103	----	75	125	----	----
		EG020: Arsenic	7440-38-2	1 mg/L	101	----	75	125	----	----
		EG020: Barium	7440-39-3	1 mg/L	91.6	----	75	125	----	----
		EG020: Beryllium	7440-41-7	1 mg/L	93.9	----	75	125	----	----
		EG020: Cadmium	7440-43-9	1 mg/L	95.0	----	75	125	----	----
		EG020: Chromium	7440-47-3	1 mg/L	100	----	75	125	----	----
		EG020: Copper	7440-50-8	1 mg/L	77.7	----	75	125	----	----
		EG020: Lead	7439-92-1	1 mg/L	87.4	----	75	125	----	----
		EG020: Mercury	7439-97-6	0.02 mg/L	102	----	75	125	----	----
		EG020: Nickel	7440-02-0	1 mg/L	97.2	----	75	125	----	----
		EG020: Selenium	7782-49-2	1 mg/L	120	----	75	125	----	----
		EG020: Silver	7440-22-4	1 mg/L	77.8	----	75	125	----	----
		EG020: Thallium	7440-28-0	1 mg/L	89.7	----	75	125	----	----
		EG020: Tin	7440-31-5	1 mg/L	106	----	75	125	----	----
		EG020: Vanadium	7440-62-2	1 mg/L	106	----	75	125	----	----
		EG020: Zinc	7440-66-6	1 mg/L	95.8	----	75	125	----	----
EG: Metals and Major Cations - Filtered (QC Lot: 3950955)										
HK1518647-021		RESIDUE BF								
		EG020: Antimony	7440-36-0	1 mg/L	100	----	75	125	----	----
		EG020: Arsenic	7440-38-2	1 mg/L	98.7	----	75	125	----	----
		EG020: Barium	7440-39-3	1 mg/L	95.8	----	75	125	----	----
		EG020: Beryllium	7440-41-7	1 mg/L	89.9	----	75	125	----	----
		EG020: Cadmium	7440-43-9	1 mg/L	92.9	----	75	125	----	----
		EG020: Chromium	7440-47-3	1 mg/L	98.2	----	75	125	----	----
		EG020: Copper	7440-50-8	1 mg/L	78.2	----	75	125	----	----
		EG020: Lead	7439-92-1	1 mg/L	85.9	----	75	125	----	----
		EG020: Mercury	7439-97-6	0.02 mg/L	106	----	75	125	----	----
		EG020: Nickel	7440-02-0	1 mg/L	94.9	----	75	125	----	----
		EG020: Selenium	7782-49-2	1 mg/L	115	----	75	125	----	----
		EG020: Silver	7440-22-4	1 mg/L	77.3	----	75	125	----	----
		EG020: Thallium	7440-28-0	1 mg/L	85.7	----	75	125	----	----
		EG020: Tin	7440-31-5	1 mg/L	101	----	75	125	----	----
		EG020: Vanadium	7440-62-2	1 mg/L	103	----	75	125	----	----
		EG020: Zinc	7440-66-6	1 mg/L	104	----	75	125	----	----



# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client	: VW-VES(HK) LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 17
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1518954
Address	: UNIT 7601, THE CENTER, 99 QUEEN'S ROAD CENTRAL HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 05-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 09-JUN-2015
Project	: ----	Quote number	: ----	No. of samples received	: 28
Order number	: ----			No. of samples analysed	: 28
C-O-C number	: ----				
Site	: ----				

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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

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group

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Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com



Page Number : 2 of 17  
Client : VW-VES(HK) LTD  
Work Order : HK1518954

#### *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: 08-JUN-2015  
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: **HK1518954**

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



Page Number : 3 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1518954

**Analytical Results**

Sub-Matrix: SOLID

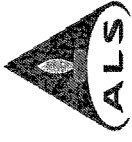
Compound	CAS Number	LOR	Client sampling date / time		Client sample ID	
			Unit	Value	Unit	Value
EA002: pH Value	----	0.1	pH Unit	9.4	ASH B 中間灰	03-JUN-2015 10:20
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	16.4	HK1518954-001	03-JUN-2015 14:15
				9.5	ASH BE	03-JUN-2015 12:00
				18.1	HK1518954-002	03-JUN-2015 14:15
				9.7	ASH BE	03-JUN-2015 12:00
				14.7	HK1518954-003	03-JUN-2015 11:20
				9.3	ASH BE	03-JUN-2015 11:20
				21.3	HK1518954-004	03-JUN-2015 14:30
				10.7	RESIDUE AF	03-JUN-2015 14:30
				22.4	HK1518954-005	03-JUN-2015 14:30



Page Number : 4 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1518954

Sub-Matrix: SOLID

Compound	Client sample ID		LOR	Unit	RESIDUE AE					
	Client sampling date / time	Client sampling date / time			RESIDUE AF	RESIDUE AE	RESIDUE AE	RESIDUE AE		
EA/ED: Physical and Aggregate Properties										
EA002: pH Value	----	0.1	pH Unit	10.6	10.6	10.6	10.6	10.6	10.6	10.8
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	23.9	23.9	24.9	25.5	25.5	25.5	19.1



Page Number : 5 of 17  
 Client : VW-YES(HK) LTD  
 Work Order : HK1518954

Compound	CAS Number	LOR	Client sample ID		RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AE
			Client sampling date / time	Unit				
EA/ED: Physical and Aggregate Properties								
EA002: pH Value	----	0.1	pH Unit	03-JUN-2015 15:30	10.6	10.7	10.9	10.7
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	03-JUN-2015 15:30	25.5	27.3	26.0	27.1
				03-JUN-2015 15:50				
				04-JUN-2015 13:30				
				04-JUN-2015 11:30				
				04-JUN-2015 07:40				

Sub-Matrix: SOLID

HK1518954-011

HK1518954-012

HK1518954-013

HK1518954-014

HK1518954-015

RESIDUE AE

RESIDUE AE

RESIDUE AE

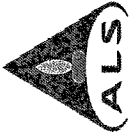
RESIDUE AE

RESIDUE AE



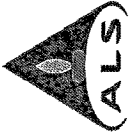
Page Number : 6 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1518954

Compound	CAS Number	LOR	Client sample ID		RESIDUE AE	RESIDUE AE	RESIDUE BF	RESIDUE BF	ASH A 中灰
			Client sampling date / time	Unit					
EA/ED: Physical and Aggregate Properties									
EA002: pH Value	----	0.1	10.7	pH Unit	10.6	10.8	10.8	10.0	
EA055: Moisture Content (dried @ 103°C)	----	0.1	26.2	%	22.5	21.3	26.6	19.4	



Page Number : 7 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1518954

Compound	CAS Number	LOR	Client sample ID		ASH A 中灰 [04-JUN-2015] HK1518954-021	ASH AE 04-JUN-2015 10:10 HK1518954-022	ASH AE 04-JUN-2015 10:30 HK1518954-023	ASH BE 04-JUN-2015 11:00 HK1518954-024	ASH BE 04-JUN-2015 16:10 HK1518954-025
			Client sampling date / time	Unit					
Sub-Matrix: SOLID									
EA/ED: Physical and Aggregate Properties									
EA002: pH Value	---	0.1	pH Unit		10.0	9.7	9.5	9.8	9.8
EA055: Moisture Content (dried @ 105°C)	---	0.1	%		23.4	16.8	16.7	16.5	23.0



Page Number : 8 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1518954

Compound	CIS Number	LOR	Client sample ID		
			Client sampling date / time	ASH BE	ASH BE
			04-JUN-2015 08:40	04-JUN-2015 09:40	04-JUN-2015 09:30
			HK1518954-026	HK1518954-027	HK1518954-028
<b>EA/ED: Physical and Aggregate Properties</b>					
EA002: pH Value	---	0.1	pH Unit	9.7	9.7
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	22.7	18.9









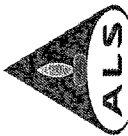


Page Number : 12 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1518954

Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LOR	Client sample ID			
			Client sampling date / time	RESIDUE AE	RESIDUE AE	RESIDUE BF
EG: Metals and Major Cations - Filtered						
EG020: Antimony	7440-36-0	1	04-JUN-2015 12:00	HK1518954-016	04-JUN-2015 12:00	04-JUN-2015 12:00
EG020: Arsenic	7440-38-2	1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	2	2	1	1
EG020: Lead	7439-92-1	1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	1	1	<1	1
Sample Preparation Method						
E-TCLP: Extraction Fluid	----	-	2	2	2	2
Number						1





Page Number : 14 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1518954

Sub-Matrix: TCLP LEACHATE

Compound	Client sample ID		LOR	Unit	Client sampling date / time		
	CAS Number	ASH BE			ASH BE	ASH BE	ASH BE
<b>EG: Metals and Major Cations - Filtered</b>							
EG020: Antimony	7440-36-0	<1	1	ng/kg	04-JUN-2015 12:00 HK1518954-026	04-JUN-2015 12:00 HK1518954-027	04-JUN-2015 12:00 HK1518954-028
EG020: Arsenic	7440-38-2	<1	1	ng/kg	<1	<1	<1
EG020: Barium	7440-39-3	<1	1	ng/kg	<1	<1	<1
EG020: Beryllium	7440-41-7	<1	1	ng/kg	<1	<1	<1
EG020: Cadmium	7440-43-9	<1	1	ng/kg	<1	<1	<1
EG020: Chromium	7440-47-3	<1	1	ng/kg	<1	<1	<1
EG020: Copper	7440-50-8	<1	1	ng/kg	<1	<1	<1
EG020: Lead	7439-92-1	<1	1	ng/kg	<1	<1	<1
EG020: Mercury	7439-97-6	<0.2	0.2	ng/kg	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	<1	1	ng/kg	<1	<1	<1
EG020: Selenium	7782-49-2	<0.2	0.2	ng/kg	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	<1	1	ng/kg	<1	<1	<1
EG020: Thallium	7440-28-0	<1	1	ng/kg	<1	<1	<1
EG020: Tin	7440-31-5	<1	1	ng/kg	<1	<1	<1
EG020: Vanadium	7440-62-2	<1	1	ng/kg	<1	<1	<1
EG020: Zinc	7440-66-6	1	1	ng/kg	1	1	1
<b>Sample Preparation Method</b>							
E-TCLP: Extraction Fluid Number	-----	1	-	-	1	1	1



Page Number : 15 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1518954

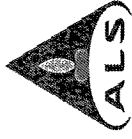
Laboratory Duplicate (DUP) Report

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3952339)</b>								
HK1518954-001	ASH B 中固灰	EA055: Moisture Content (dried @ 103 °C)	----	0.1	%	16.4	16.2	1.2
HK1518954-011	RESIDUE AE	EA055: Moisture Content (dried @ 103 °C)	----	0.1	%	25.5	25.8	0.9
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3952340)</b>								
HK1518954-021	ASH A 中灰	EA055: Moisture Content (dried @ 103 °C)	----	0.1	%	23.4	23.8	1.8
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3952849)</b>								
HK1518954-001	ASH B 中固灰	EA002: pH Value	----	0.1	pH Unit	9.4	9.4	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3952850)</b>								
HK1518954-021	ASH A 中灰	EA002: pH Value	----	0.1	pH Unit	10.0	9.9	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 Concentration	LCS	DCS	Recovery Low	Recovery High	Value
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3953213)</b>										
EG020: Antimony	7440-36-0	1	mg/L	<1	113	----	76	118	----	----
EG020: Arsenic	7440-38-2	1	mg/L	<1	98.4	----	72	124	----	----
EG020: Barium	7440-39-3	1	mg/L	<1	102	----	80	120	----	----
EG020: Beryllium	7440-41-7	1	mg/L	<1	95.0	----	74	122	----	----
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	94.9	----	79	117	----	----
EG020: Chromium	7440-47-3	1	mg/L	<1	96.0	----	78	120	----	----
EG020: Copper	7440-50-8	1	mg/L	<1	98.4	----	78	118	----	----
EG020: Lead	7439-92-1	1	mg/L	<1	99.4	----	79	115	----	----
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	110	----	76	120	----	----
EG020: Nickel	7440-02-0	1	mg/L	<1	100	----	78	120	----	----
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	110	----	81	119	----	----
EG020: Silver	7440-22-4	1	mg/L	<1	95.7	----	76	114	----	----
EG020: Thallium	7440-28-0	1	mg/L	<1	100	----	81	113	----	----
EG020: Tin	7440-31-5	1	mg/L	<1	101	----	79	119	----	----
EG020: Vanadium	7440-62-2	1	mg/L	<1	94.4	----	78	124	----	----
EG020: Zinc	7440-66-6	1	mg/L	<1	89.1	----	70	130	----	----
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3953214)</b>										
EG020: Antimony	7440-36-0	1	mg/L	<1	115	----	76	118	----	----
EG020: Arsenic	7440-38-2	1	mg/L	<1	103	----	72	124	----	----
EG020: Barium	7440-39-3	1	mg/L	<1	102	----	80	120	----	----
EG020: Beryllium	7440-41-7	1	mg/L	<1	100	----	74	122	----	----
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	93.1	----	79	117	----	----
EG020: Chromium	7440-47-3	1	mg/L	<1	100	----	78	120	----	----

MATRIX: WATER



Page Number : 16 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1518954

Method Blank (MB) Report

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

Method Compound	CAS Number	LOR	Unit	Result	Spike Concentration		Spike Recovery (%)		Recovery Limits		Value	RPD (%)	Control Limit
					LCS	DCS	Low	High					
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3953214) - Continued.</b>													
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	101	---	78	118	---	---	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	101	---	79	115	---	---	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	109	---	76	120	---	---	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	101	---	78	120	---	---	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	118	---	81	119	---	---	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	97.5	---	76	114	---	---	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	101	---	81	113	---	---	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	104	---	79	119	---	---	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	98.5	---	78	124	---	---	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	103	---	70	130	---	---	---	---

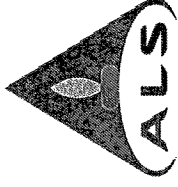
MATRIX: WATER





# ALS Technichem (HK) Pty Ltd

**ALS Laboratory Group**  
ANALYTICAL CHEMISTRY & TESTING SERVICES



## CERTIFICATE OF ANALYSIS

Client	: VW-VES(HK) LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 15
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1519245
Address	: UNIT 7601, THE CENTER, 99 QUEEN'S ROAD CENTRAL HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 08-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 12-JUN-2015
Project	: ----	Quote number	: ----	No. of samples received	: 21
Order number	: ----			No. of samples analysed	: 21
C-O-C number	: ----				
Site	: ----				

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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

Fung Lim Chee, Richard

General Manager

Authorised results for

Inorganics

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group

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



Page Number : 2 of 15  
Client : VW-VES(HK) LTD  
Work Order : HK1519245

**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: 11-JUN-2015

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: **HK1519245**

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



Page Number : 3 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1519245

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sample ID		Unit
			Client sampling date / time	Client sample ID	
EA002: pH Value	---	0.1	06-JUN-2015 12:10	ASH A MIDDLE	pH Unit
EA055: Moisture Content (dried @ 103°C)	---	0.1	06-JUN-2015 14:10	ASH A MIDDLE	%
			06-JUN-2015 15:10	ASH A MIDDLE	
			06-JUN-2015 17:50	ASH A MIDDLE	
			05-JUN-2015 16:40	ASH A MIDDLE	

**EA/ED: Physical and Aggregate Properties**

EA002: pH Value	9.9	9.8	9.8	9.7	9.7
EA055: Moisture Content (dried @ 103°C)	33.3	24.4	19.5	23.9	21.0







Page Number : 6 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1519245

Compound	CAS Number	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
		Client sampling date / time	Unit				
EA/ED: Physical and Aggregate Properties							
EA002: pH Value	—	0.1	pH Unit	10.6	10.7	10.8	10.9
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	21.8	25.0	21.9	8.0



Page Number : 7 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1519245

Compound	CAS Number	Client sample ID		RESIDUE BF
		Client sampling date / time	Unit	
		LOR		07-JUN-2015 14:00
				HK1519245-021
<b>EA/ED: Physical and Aggregate Properties</b>				
EA002: pH Value	---	0.1	pH Unit	10.9
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	8.5

Sub-Matrix: SOLID







Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AE
Compound	CAS Number	LOR	Client sampling date / time	Unit	ASH A MIDDLE	RESIDUE AE	RESIDUE AE	RESIDUE AE
<b>EG: Metals and Major Cations - Filtered</b>								
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	3	2	<1	<1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1		mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	3	1	<1	<1
<b>Sample Preparation Method</b>								
E-TCLP: Extraction Fluid Number								
					2	2	2	1



Page Number : 10 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1519245

Sub-Matrix: TCLP LEACHATE

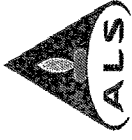
Compound	CAS Number	Client sampling date / time		RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AE
		LOR	Unit					
<b>EG: Metals and Major Cations - Filtered</b>								
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-8	1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	<1	2	2	2	2
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	0.2	<0.2	0.2	<0.2	0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-8	1	mg/kg	<1	1	<1	1	<1
<b>Sample Preparation Method</b>								
E-TCLP: Extraction Fluid Number								
				1	2	2	2	2





Page Number : 12 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1519245

Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE BF
Compound	CAS Number	LOR	Client sampling date / time	07-JUN-2015 12:00
			Unit	HK1519245-021
<b>EG: Metals and Major Cations - Filtered</b>				
EG020: Antimony	7440-38-0	1	mg/kg	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1
EG020: Barium	7440-39-3	1	mg/kg	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1
EG020: Copper	7440-50-8	1	mg/kg	<1
EG020: Lead	7439-92-1	1	mg/kg	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1
EG020: Tin	7440-31-5	1	mg/kg	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1
<b>Sample Preparation Method</b>				
E-TCLP: Extraction Fluid Number				1



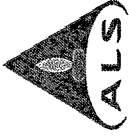
Page Number : 13 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1519245

**Laboratory Duplicate (DUP) Report**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report		
				LOR	Unit	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3954369)</b>						
HK1519245-001	ASH A MIDDLE	EA055: Moisture Content (dried @ 103°C)	—	33.3	33.4	0.3
HK1519245-011	RESIDUE AE	EA055: Moisture Content (dried @ 103°C)	—	24.6	24.8	0.8
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3954370)</b>						
HK1519245-021	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	—	8.5	8.9	5.1
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3954376)</b>						
HK1519245-001	ASH A MIDDLE	EA002: pH Value	—	9.9	9.8	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3954377)</b>						
HK1519245-021	RESIDUE BF	EA002: pH Value	—	10.9	11.0	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 Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Control Limit	
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955763)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	98.7	—	76	118	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	98.5	—	72	124	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	102	—	80	120	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	112	—	74	122	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	100	—	79	117	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	103	—	78	120	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	96.5	—	78	118	—	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	103	—	79	115	—	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	97.8	—	76	120	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	91.7	—	78	120	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	110	—	81	119	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	97.4	—	76	114	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	98.0	—	81	113	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	98.6	—	79	119	—	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	102	—	78	124	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	89.0	—	70	130	—	—
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955764)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	91.5	—	76	118	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	98.2	—	72	124	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	98.9	—	80	120	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	88.1	—	74	122	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	98.1	—	79	117	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	96.5	—	78	120	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	96.0	—	78	118	—	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	104	—	79	115	—	—



Page Number : 14 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1519245

Method Blank (MB) Report

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

Metric: WATER

Method: Compound	CAS Number	LOR	Unit	Result	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	Control Limit
					LCS	DCS	Low	High		
EG: Metals and Major Cations - Filtered (QC Lot: 3955764) - Continued										
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	99.7	---	76	120	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	92.3	---	78	120	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	104	---	81	119	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	96.8	---	76	114	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	102	---	81	113	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	95.2	---	79	119	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	94.9	---	78	124	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	80.0	---	70	130	---	---



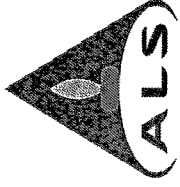
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report				
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)
				Value	High	Low	High	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955763)</b>								
HK1519245-001	ASH A MIDDLE							
		EG020: Antimony	7440-38-0	1 mg/L	93.6	75	125	125
		EG020: Arsenic	7440-38-2	1 mg/L	97.2	75	125	125
		EG020: Barium	7440-39-3	1 mg/L	94.4	75	125	125
		EG020: Beryllium	7440-41-7	1 mg/L	92.0	75	125	125
		EG020: Cadmium	7440-43-9	1 mg/L	92.4	75	125	125
		EG020: Chromium	7440-47-3	1 mg/L	92.8	75	125	125
		EG020: Copper	7440-50-8	1 mg/L	98.7	75	125	125
		EG020: Lead	7439-92-1	1 mg/L	89.1	75	125	125
		EG020: Mercury	7439-97-6	0.02 mg/L	96.2	75	125	125
		EG020: Nickel	7440-02-0	1 mg/L	86.9	75	125	125
		EG020: Selenium	7782-49-2	1 mg/L	98.7	75	125	125
		EG020: Silver	7440-22-4	1 mg/L	80.4	75	125	125
		EG020: Thallium	7440-28-0	1 mg/L	88.3	75	125	125
		EG020: Tin	7440-31-5	1 mg/L	97.8	75	125	125
		EG020: Vanadium	7440-62-2	1 mg/L	97.9	75	125	125
		EG020: Zinc	7440-66-6	1 mg/L	76.2	75	125	125
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955764)</b>								
HK1519245-021	RESIDUE BF							
		EG020: Antimony	7440-38-0	1 mg/L	102	75	125	125
		EG020: Arsenic	7440-38-2	1 mg/L	98.8	75	125	125
		EG020: Barium	7440-39-3	1 mg/L	106	75	125	125
		EG020: Beryllium	7440-41-7	1 mg/L	93.2	75	125	125
		EG020: Cadmium	7440-43-9	1 mg/L	103	75	125	125
		EG020: Chromium	7440-47-3	1 mg/L	97.2	75	125	125
		EG020: Copper	7440-50-8	1 mg/L	80.0	75	125	125
		EG020: Lead	7439-92-1	1 mg/L	82.8	75	125	125
		EG020: Mercury	7439-97-6	0.02 mg/L	110	75	125	125
		EG020: Nickel	7440-02-0	1 mg/L	87.2	75	125	125
		EG020: Selenium	7782-49-2	1 mg/L	107	75	125	125
		EG020: Silver	7440-22-4	1 mg/L	82.9	75	125	125
		EG020: Thallium	7440-28-0	1 mg/L	82.0	75	125	125
		EG020: Tin	7440-31-5	1 mg/L	102	75	125	125
		EG020: Vanadium	7440-62-2	1 mg/L	97.0	75	125	125
		EG020: Zinc	7440-66-6	1 mg/L	86.2	75	125	125



# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 24
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1519316
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong	Amendment	: 1
E-mail	: Jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 08-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 07-JUL-2015
Project	: ----	Quote number	: ----	No. of samples received	: 45
Order number	: ----			No. of samples analysed	: 45
C-O-C number	: ----				
Site	: ----				

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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

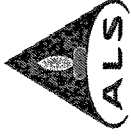
General Manager

Authorised results for

Inorganics

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group

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Page Number : 2 of 24  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order : HK1519316, Amendment 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 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:

23-JUN-2015

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: **HK1519316**

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.

Dioxins and Furans were subcontracted to and analysed by ALS Czech Republic.

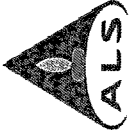


Page Number : 3 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	Client sampling date / time		Client sample ID	ASH BE	ASH BE	ASH BE	ASH BE	RESIDUE BE
		LOR	Unit						
EA002: pH Value	—	0.1	pH Unit	HK1519316-001	6.9	10.5	10.4	10.3	10.1
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	HK1519316-002	3.1	0.2	<0.1	<0.1	0.5
				HK1519316-003					
				HK1519316-004					
				HK1519316-005					



Page Number : 4 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

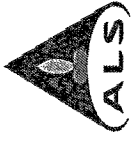
Compound	Client sample ID		RESIDUE BE	RESIDUE BE	RESIDUE BE	RESIDUE BE DAY C	RESIDUE BE DAY C
	CAS Number	Client sampling date / time					
	LOR	Unit					
EA002: pH Value	0.1	pH Unit	10.9	10.8	10.8	10.3	10.8
EA055: Moisture Content (dried @ 103°C)	0.1	%	0.2	0.1	0.4	<0.1	0.2
			HK1519316-006	HK1519316-007	HK1519316-008	HK1519316-009	HK1519316-010
			04-JUN-2015 06:10	05-JUN-2015 00:10	05-JUN-2015 06:05	08-JUN-2015 10:15	08-JUN-2015 10:25

Sub-Matrix: SOLID



Page Number : 5 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

Compound	CAS Number	LOR	Client sample ID				
			Client sampling date / time	ASH BE	ASH BE	ASH BE	
	Unit		05-JUN-2015 23:00	06-JUN-2015 11:00	06-JUN-2015 15:00	06-JUN-2015 19:00	
			HK1519316-011	HK1519316-012	HK1519316-013	HK1519316-014	HK1519316-015
<b>EA/ED: Physical and Aggregate Properties</b>							
EA002: pH Value	---	0.1	10.3	10.6	10.5	10.6	10.4
EA055: Moisture Content (dried @ 103°C)	---	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
<b>EP: Aggregate Organics</b>							
EP005: Total Organic Carbon	---	0.05	---	---	---	---	<0.05



Page Number : 6 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

Compound	CAS Number	LOR	Client sample ID												
			Client sampling date / time	ASH BE	ASH BE	RESIDUE BE	RESIDUE BE								
			Unit												
EA/ED: Physical and Aggregate Properties															
EA002: pH Value	—	0.1	pH Unit	10.6	07-JUN-2015 15:00	HK1519316-016	10.6	07-JUN-2015 19:00	HK1519316-017	05-JUN-2015 23:00	HK1519316-018	06-JUN-2015 11:00	HK1519316-019	06-JUN-2015 15:00	HK1519316-020
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	<0.1			<0.1					10.9	11.0	11.0	0.2



Page Number : 7 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

Compound	CAS Number	LOR	Client sampling date / time	Unit	Client sample ID				ASH BE
					RESIDUE BE	RESIDUE BE	RESIDUE BE	RESIDUE BE	
Sub-Matrix: SOLID									
EA/ED: Physical and Aggregate Properties									
EA002: pH Value	---	0.1		ph Unit	11.0	10.9	10.9	10.9	10.2
EA055: Moisture Content (dried @ 103°C)	---	0.1		%	0.2	<0.1	0.2	0.1	19.0
EP: Aggregate Organics									
EP006: Total Organic Carbon	---	0.05		%	---	0.56	---	---	---



Page Number : 8 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

Compound	CAS Number	LOR	Client sample ID			
			Client sampling date / time	ASH BE	ASH BE	ASH BE
	Unit		06-JUN-2015 11:00	06-JUN-2015 15:10	06-JUN-2015 16:30	06-JUN-2015 17:20
EA/ED: Physical and Aggregate Properties			HK1519316-026	HK1519316-027	HK1519316-029	HK1519316-030
EA002: pH Value	--	0.1	10.1	10.0	10.0	10.0
EA055: Moisture Content (dried @ 103°C)	--	0.1	18.6	19.8	19.5	20.8





Page Number : 9 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

Compound	CAS Number	LOR	Client sample ID				ASH BE	ASH BE	ASH BE	ASH BE								
			Client sampling date / time	Unit	Client sampling date / time	Unit												
EA/ED: Physical and Aggregate Properties																		
EA002: pH Value	—	0.1		pH Unit	07-JUN-2015 08:40	HK1519316-031	10.0	05-JUN-2015 10:50	HK1519316-032	10.1	05-JUN-2015 11:50	HK1519316-033	10.0	05-JUN-2015 12:40	HK1519316-034	10.0	05-JUN-2015 13:30	HK1519316-035
EA055: Moisture Content (dried @ 103°C)	—	0.1		%			21.7	17.0		18.2		17.4			17.4			16.2



Page Number : 10 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

Compound	CAS Number	Client sampling date / time		ASH BE	ASH BE	ASH BE	RESIDUE BE	RESIDUE BE
		LOR	Unit					
Sub-Matrix: SOLID								
EA/ED: Physical and Aggregate Properties								
EA002: pH Value	---	0.1	pH Unit	10.1	10.0	10.1	10.7	10.7
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	14.4	19.0	16.8	22.4	25.3



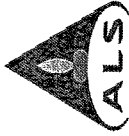
Page Number : 11 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

Compound	CAS Number	LOR	Client sample ID			
			Client sampling date / time	RESIDUE BE	RESIDUE BE	RESIDUE BE
	Unit		RESIDUE BE	RESIDUE BE	RESIDUE BE	
EA002: pH Value	---	0.1	05-JUN-2015 09:50 HK1519316-041	05-JUN-2015 16:00 HK1519316-042	06-JUN-2015 07:45 HK1519316-043	06-JUN-2015 17:30 HK1519316-045
EA055: Moisture Content (dried @ 103°C)	---	0.1	10.6 18.3	10.7 21.8	10.7 22.5	10.8 15.6



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 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

Sub-Matrix: TCLP LEACHATE		Client sample ID		ASH BE	ASH BE	ASH BE	ASH BE	RESIDUE BE
Compound	CAS Number	Client sampling date / time	Unit	04-JUN-2015 12:00	04-JUN-2015 12:00	05-JUN-2015 12:00	05-JUN-2015 12:00	04-JUN-2015 12:00
		LOF		HK1519316-001	HK1519316-002	HK1519316-003	HK1519316-004	HK1519316-005
<b>EG: Metals and Major Cations - Filtered</b>								
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	6	4	5	4	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	317	11	5	4	<1
<b>Sample Preparation Method</b>								
E-TCLP: Extraction Fluid Number				2	2	2	2	1



Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE BE	RESIDUE BE	RESIDUE BE	RESIDUE BE	ASH BE DAY C	RESIDUE BE DAY C
Compound	CAS Number	Client sampling date / time	Unit	04-JUN-2015 12:00	05-JUN-2015 12:00	05-JUN-2015 12:00	05-JUN-2015 12:00	08-JUN-2015 12:00	08-JUN-2015 12:00
		LOF		HK1519316-006	HK1519316-007	HK1519316-008	HK1519316-009		HK1519316-010
<b>EG: Metals and Major Cations - Filtered</b>									
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	<1	1	<1	4	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	0.2	0.3	0.3	<0.2	0.2	0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	<1	<1	11	<1	<1
<b>Sample Preparation Method</b>									
E-TCLP: Extraction Fluid Number				1	1	1	2	1	1



Page Number : 14 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

Compound	CAS Number	LOR	Client sample ID				
			Client sampling date / time	ASH BE	ASH BE	ASH BE	ASH BE
Sub-Matrix: TCLP LEACHATE							
EG: Metals and Major Cations - Filtered							
EG020: Antimony	7440-36-0	1	05-JUN-2015 12:00	06-JUN-2015 12:00	06-JUN-2015 12:00	07-JUN-2015 12:00	
EG020: Arsenic	7440-38-2	1	HK1519316-011	HK1519316-012	HK1519316-013	HK1519316-014	
EG020: Barium	7440-39-3	1	<1	<1	<1	<1	
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	
EG020: Copper	7440-50-8	1	mg/kg	4	2	2	
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	
EG020: Zinc	7440-66-6	1	mg/kg	8	3	4	
Sample Preparation Method							
E-TCLP: Extraction Fluid Number							
			2	2	2	2	



Page Number : 15 of 24  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519316, Amendment 1

Sub-Matrix: TCLP LEACHATE		Client sample ID			
Compound	CAS Number	Client sampling date / time		Residue BE	Residue BE
		LOR	Unit		
<b>EG: Metals and Major Cations - Filtered</b>					
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1
EG020: Cadmium	7440-43-8	1	mg/kg	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	2	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	0.3
EG020: Silver	7440-22-4	1	mg/kg	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	4	<1
<b>Sample Preparation Method</b>					
E-TCLP: Extraction Fluid Number					
				2	2
				1	1
				1	1
				06-JUN-2015 12:00	06-JUN-2015 12:00
				HK1519316-016	HK1519316-019
				07-JUN-2015 12:00	05-JUN-2015 12:00
				HK1519316-017	HK1519316-018
				06-JUN-2015 12:00	06-JUN-2015 12:00
				HK1519316-020	HK1519316-020



Sub-Matrix: TCLP LEACHATE		Client sample ID			
Compound	CAS Number	Client sampling date / time		RESIDUE BE	
		LOR	Unit	RESIDUE BE	RESIDUE BE
<b>EG: Metals and Major Cations - Filtered</b>					
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	<1
<b>Sample Preparation Method</b>					
E-TCLP: Extraction Fluid Number					
		-	-	1	1
		-	-	1	2

ASH BE

RESIDUE BE

RESIDUE BE

RESIDUE BE

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Sub-Matrix: TCLP LEACHATE

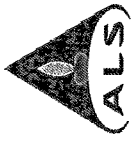
Compound	CAS Number	LOR	Client sampling date / time				Client sample ID
			ASH BE	ASH BE	ASH BE	ASH BE	
			06-JUN-2015 12:00	06-JUN-2015 12:00	06-JUN-2015 12:00	06-JUN-2015 12:00	06-JUN-2015 12:00
			Unit	Unit	Unit	Unit	Unit
<b>EG: Metals and Major Cations - Filtered</b>							
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	3	3	2	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-48-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	2	2	2	<1
<b>Sample Preparation Method</b>							
E-TCLP: Extraction Fluid Number							
			2	2	2	2	2





Sub-Matrix: TCLP LEACHATE		Client sample ID		Client sampling date / time		Client sampling date / time		Client sampling date / time		Client sampling date / time	
Compound	CAS Number	LOR	Unit	ASH BE	ASH BE	ASH BE	ASH BE	RESIDUE BE	RESIDUE BE	RESIDUE BE	RESIDUE BE
EG: Metals and Major Cations - Filtered											
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	2	2	2	2	<1	<1	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-52-2	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	2	2	2	2	2	2	2	2
Sample Preparation Method											
E-TCLP: Extraction Fluid Number											
				2	2	2	2	1	1	1	1





**Laboratory Duplicate (DUP) Report**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EAJED: Physical and Aggregate Properties (QC Lot: 3954373)</b>								
HK1519316-001	ASH BE	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	3.1	3.3	7.5
HK1519316-011	ASH BE	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	<0.1	<0.1	0.0
<b>EAJED: Physical and Aggregate Properties (QC Lot: 3954374)</b>								
HK1519316-021	RESIDUE BE	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	0.2	0.3	0.0
HK1519316-031	ASH BE	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	21.7	21.5	0.6
<b>EAJED: Physical and Aggregate Properties (QC Lot: 3954375)</b>								
HK1519316-041	RESIDUE BE	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	18.3	17.8	2.6
<b>EAJED: Physical and Aggregate Properties (QC Lot: 3954378)</b>								
HK1519316-001	ASH BE	EA002: pH Value	---	0.1	pH Unit	6.9	7.0	1.6
<b>EAJED: Physical and Aggregate Properties (QC Lot: 3954379)</b>								
HK1519316-021	RESIDUE BE	EA002: pH Value	---	0.1	pH Unit	11.0	11.0	0.0
<b>EAJED: Physical and Aggregate Properties (QC Lot: 3954380)</b>								
HK1519316-041	RESIDUE BE	EA002: pH Value	---	0.1	pH Unit	10.6	10.7	0.0
<b>EP: Aggregate Organics (QC Lot: 3965844)</b>								
HK1520470-001	Anonymous	EP005: Total Organic Carbon	---	0.05	%	1.06	1.08	1.6
HK1521127-001	Anonymous	EP005: Total Organic Carbon	---	0.05	%	<0.05	<0.05	0.0

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

Method: Compound	CAS Number	LOR	Unit	Result	Method Blank (MB) Report						
					Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	RPD (%)
<b>EP: Aggregate Organics (QC Lot: 3965844)</b>											
EP005: Total Organic Carbon	---	0.05	%	<0.05	40 %	98.5	91	115	---	---	---
<b>Matrix: WATER</b>											
<b>Method Blank (MB) Report</b>											
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	RPD (%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955766)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	83.9	76	118	---	---	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	91.1	72	124	---	---	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	92.3	80	120	---	---	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	79.7	74	122	---	---	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	88.2	79	117	---	---	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	87.6	78	120	---	---	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	94.7	78	118	---	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	87.0	79	115	---	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	101	76	120	---	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	87.8	78	120	---	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	87.4	81	119	---	---	---

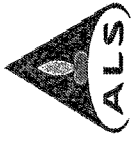


Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report										
Matrix	Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955766) - Continued</b>												
	EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	82.9	---	76	114	---	---
	EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	86.0	---	81	113	---	---
	EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	81.4	---	79	119	---	---
	EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	88.7	---	78	124	---	---
	EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	85.8	---	70	130	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955766)</b>												
	EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	91.5	---	76	118	---	---
	EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	103	---	72	124	---	---
	EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	106	---	80	120	---	---
	EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	89.4	---	74	122	---	---
	EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	106	---	79	117	---	---
	EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	98.1	---	78	120	---	---
	EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	108	---	78	118	---	---
	EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	106	---	79	115	---	---
	EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	96.5	---	76	120	---	---
	EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	98.9	---	78	120	---	---
	EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	109	---	81	119	---	---
	EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	94.6	---	78	114	---	---
	EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	104	---	81	113	---	---
	EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	91.2	---	79	119	---	---
	EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	106	---	78	124	---	---
	EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	92.7	---	70	130	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955767)</b>												
	EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	102	---	76	118	---	---
	EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	102	---	72	124	---	---
	EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	105	---	80	120	---	---
	EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	84.2	---	74	122	---	---
	EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	102	---	79	117	---	---
	EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	100	---	78	120	---	---
	EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	102	---	78	118	---	---
	EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	98.9	---	79	115	---	---
	EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	97.4	---	76	120	---	---
	EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	100	---	78	120	---	---
	EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	102	---	81	119	---	---
	EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	98.8	---	76	114	---	---
	EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	99.0	---	81	113	---	---
	EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	91.8	---	79	119	---	---
	EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	101	---	78	124	---	---
	EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	103	---	70	130	---	---



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

Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)	
EP: Aggregate Organics (QC Lot: 3965844)				MS	MSD	Low	High	Value	Control Limit
HK1519316-015	ASH BE	EP005: Total Organic Carbon	---	40 %	110	75	125	---	---
Matrix: SOIL									
Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)	
EG: Metals and Major Cations - Filtered (QC Lot: 3955765)				MS	MSD	Low	High	Value	Control Limit
HK1519316-001	ASH BE	EG020: Antimony	7440-38-0	1 mg/L	97.5	75	125	---	---
		EG020: Arsenic	7440-38-2	1 mg/L	111	75	125	---	---
		EG020: Barium	7440-39-3	1 mg/L	105	75	125	---	---
		EG020: Beryllium	7440-41-7	1 mg/L	81.7	75	125	---	---
		EG020: Cadmium	7440-43-9	1 mg/L	95.5	75	125	---	---
		EG020: Chromium	7440-47-3	1 mg/L	94.2	75	125	---	---
		EG020: Copper	7440-50-8	1 mg/L	# Not Determined	75	125	---	---
		EG020: Lead	7439-92-1	1 mg/L	93.8	75	125	---	---
		EG020: Mercury	7439-97-6	0.02 mg/L	100	75	125	---	---
		EG020: Nickel	7440-02-0	1 mg/L	100	75	125	---	---
		EG020: Selenium	7782-49-2	1 mg/L	108	75	125	---	---
		EG020: Silver	7440-22-4	1 mg/L	85.9	75	125	---	---
		EG020: Thallium	7440-28-0	1 mg/L	94.9	75	125	---	---
		EG020: Tin	7440-31-5	1 mg/L	97.2	75	125	---	---
		EG020: Vanadium	7440-62-2	1 mg/L	103	75	125	---	---
		EG020: Zinc	7440-66-6	1 mg/L	# Not Determined	75	125	---	---
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 3965766)				MS	MSD	Low	High	Value	Control Limit
HK1519316-021	RESIDUE BE	EG020: Antimony	7440-38-0	1 mg/L	102	75	125	---	---
		EG020: Arsenic	7440-38-2	1 mg/L	123	75	125	---	---
		EG020: Barium	7440-39-3	1 mg/L	116	75	125	---	---
		EG020: Beryllium	7440-41-7	1 mg/L	86.9	75	125	---	---
		EG020: Cadmium	7440-43-9	1 mg/L	107	75	125	---	---
		EG020: Chromium	7440-47-3	1 mg/L	98.5	75	125	---	---
		EG020: Copper	7440-50-8	1 mg/L	104	75	125	---	---
		EG020: Lead	7439-92-1	1 mg/L	85.1	75	125	---	---
		EG020: Mercury	7439-97-6	0.02 mg/L	102	75	125	---	---
		EG020: Nickel	7440-02-0	1 mg/L	98.4	75	125	---	---
		EG020: Selenium	7782-49-2	1 mg/L	109	75	125	---	---
		EG020: Silver	7440-22-4	1 mg/L	86.6	75	125	---	---



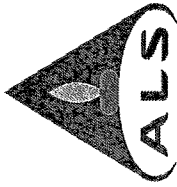
Matrix: WATER

Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike Concentration	MS	Spike Recovery (%)	MSD	Low	High	Value	RPD (%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955766) - Continued</b>											
HK1519316-021	RESIDUE BE	EG020: Thallium	7440-28-0	1 mg/L	89.4	—	—	75	125	—	—
		EG020: Tin	7440-31-5	1 mg/L	94.4	—	—	75	125	—	—
		EG020: Vanadium	7440-62-2	1 mg/L	113	—	—	75	125	—	—
		EG020: Zinc	7440-66-6	1 mg/L	101	—	—	75	125	—	—
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955767)</b>											
HK1519316-041	RESIDUE BE	EG020: Antimony	7440-36-0	1 mg/L	103	—	—	75	125	—	—
		EG020: Arsenic	7440-38-2	1 mg/L	110	—	—	75	125	—	—
		EG020: Barium	7440-39-3	1 mg/L	113	—	—	75	125	—	—
		EG020: Beryllium	7440-41-7	1 mg/L	87.2	—	—	75	125	—	—
		EG020: Cadmium	7440-43-9	1 mg/L	114	—	—	75	125	—	—
		EG020: Chromium	7440-47-3	1 mg/L	97.6	—	—	75	125	—	—
		EG020: Copper	7440-50-8	1 mg/L	101	—	—	75	125	—	—
		EG020: Lead	7439-92-1	1 mg/L	88.0	—	—	75	125	—	—
		EG020: Mercury	7439-97-6	0.02 mg/L	110	—	—	75	125	—	—
		EG020: Nickel	7440-02-0	1 mg/L	103	—	—	75	125	—	—
		EG020: Selenium	7782-49-2	1 mg/L	106	—	—	75	125	—	—
		EG020: Silver	7440-22-4	1 mg/L	80.6	—	—	75	125	—	—
		EG020: Thallium	7440-28-0	1 mg/L	91.3	—	—	75	125	—	—
		EG020: Tin	7440-31-5	1 mg/L	98.2	—	—	75	125	—	—
		EG020: Vanadium	7440-62-2	1 mg/L	115	—	—	75	125	—	—
		EG020: Zinc	7440-66-6	1 mg/L	107	—	—	75	125	—	—



# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 11
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1519591
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com	Date Samples Received	: 10-JUN-2015
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Issue Date	: 15-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	No. of samples received	: 13
Project	: *****	Quote number	: *****	No. of samples analysed	: 13
Order number	: *****				
C-O-C number	: *****				
Site	: *****				

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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

General Manager

Authorised results for

Inorganics

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group

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Page Number : 2 of 11  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order : HK1519591

**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: 11-JUN-2015

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: **HK1519591**

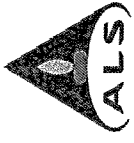
Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



Page Number : 3 of 11  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519591

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	Client sampling date / time		ASH BE	ASH BE	ASH BE	ASH BE	ASH BE
		LOR	Unit					
EA002: pH Value	---	0.1	pH Unit	10.2	10.2	10.1	10.2	10.2
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	15.6	21.6	22.0	28.0	16.8

**EA/ED: Physical and Aggregate Properties**

Client sample ID	ASH BE	ASH BE	ASH BE	ASH BE
08-JUN-2015 07:45	HK1519591-001	HK1519591-002	HK1519591-003	HK1519591-004
08-JUN-2015 08:45				
08-JUN-2015 09:30				
08-JUN-2015 10:30				
08-JUN-2015 11:30				





Page Number : 5 of 11  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519591

Compound	CAS Number	Client sampling date / time		Client sample ID	
		LOR	Unit	ASH BE	ASH BE
				09-JUN-2015 13:20	09-JUN-2015 16:50
				HK1519591-011	HK1519591-013
<b>EA/ED: Physical and Aggregate Properties</b>					
EA002: pH Value	---	0.1	pH Unit	10.0	10.2
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	24.9	20.2

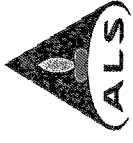


Page Number : 6 of 11  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519591

Compound	CAS Number	Client sampling date / time		Client sample ID				
		LOR	Unit	ASH BE 08-JUN-2015 12:00 HK1519591-001	ASH BE 08-JUN-2015 12:00 HK1519591-002	ASH BE 08-JUN-2015 12:00 HK1519591-003	ASH BE 08-JUN-2015 12:00 HK1519591-004	ASH BE 08-JUN-2015 12:00 HK1519591-005
<b>Sub-Matrix: TCLP LEACHATE</b>								
<b>EG: Metals and Major Cations - Filtered</b>								
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	1	<1	1	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	1	<1	1	<1	1
<b>Sample Preparation Method</b>								
<b>E-TCLP: Extraction Fluid Number</b>								
				1	1	1	1	1



Compound	CAS Number	LOR	Client sampling date / time		Client sample ID	Sub-Matrix: TCLP LEACHATE			
			Unit	ASH BE		RESIDUE BE	ASH BE	ASH BE	ASH BE
<b>EG: Metals and Major Cations - Filtered</b>									
EG020: Antimony	7440-36-0	1	mg/kg	08-JUN-2015 12:00	09-JUN-2015 12:00	09-JUN-2015 12:00	09-JUN-2015 12:00	09-JUN-2015 12:00	09-JUN-2015 12:00
EG020: Arsenic	7440-38-2	1	mg/kg	HK1519591-006	HK1519591-007	HK1519591-008	HK1519591-009	HK1519591-010	HK1519591-010
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	1	<1	<1	1	<1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	1	<1	1	1	<1	1
<b>Sample Preparation Method</b>									
<b>E-TCLP: Extraction Fluid Number</b>									
				1	2	1	1	1	1



Compound	CAS Number	LOR	Client sampling date / time		Unit	Client sample ID		
			09-JUN-2015 12:00	09-JUN-2015 12:00		ASH BE	ASH BE	ASH BE
Sub-Matrix: TCLP LEACHATE								
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-38-0	1			mg/kg	<1	<1	<1
EG020: Arsenic	7440-38-2	1			mg/kg	<1	<1	<1
EG020: Barium	7440-39-3	1			mg/kg	<1	<1	<1
EG020: Beryllium	7440-41-7	1			mg/kg	<1	<1	<1
EG020: Cadmium	7440-43-9	1			mg/kg	<1	<1	<1
EG020: Chromium	7440-47-3	1			mg/kg	<1	<1	<1
EG020: Copper	7440-50-8	1			mg/kg	<1	1	1
EG020: Lead	7439-92-1	1			mg/kg	<1	<1	<1
EG020: Mercury	7439-97-6	0.2			mg/kg	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1			mg/kg	<1	<1	<1
EG020: Selenium	7782-49-2	0.2			mg/kg	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1			mg/kg	<1	<1	<1
EG020: Thallium	7440-28-0	1			mg/kg	<1	<1	<1
EG020: Tin	7440-31-5	1			mg/kg	<1	<1	<1
EG020: Vanadium	7440-62-2	1			mg/kg	<1	<1	<1
EG020: Zinc	7440-66-6	1			mg/kg	1	1	1
Sample Preparation Method								
E-TCLP: Extraction Fluid Number								
						1	1	1





**Laboratory Duplicate (DUP) Report**

Laboratory sample ID	Client sample ID	Method: Compound	Laboratory Duplicate (DUP) Report					
			CAS Number	LOR	Unit	RPD (%)		
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3955775)</b>								
HK1519591-001	ASH BE	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	15.6	15.6	0.0
HK1519591-011	ASH BE	EA056: Moisture Content (dried @ 103°C)	---	0.1	%	24.9	24.7	0.8
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3955920)</b>								
HK1519591-001	ASH BE	EA002: pH Value	---	0.1	pH Unit	10.2	10.2	0.0

**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	LCS	DCS	Recovery Limits (%)	Value	RPD (%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3956425)</b>										
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	95.1	---	76	118	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	97.0	---	72	124	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	97.2	---	80	120	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	96.1	---	74	122	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	99.2	---	79	117	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	95.4	---	78	120	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	96.4	---	78	118	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	99.1	---	79	115	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	97.4	---	76	120	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	88.1	---	78	120	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	102	---	81	119	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	97.6	---	76	114	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	95.1	---	81	113	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	96.8	---	79	119	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	94.6	---	78	124	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	79.7	---	70	130	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3956426)</b>										
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	93.0	---	76	118	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	97.0	---	72	124	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	94.0	---	80	120	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	90.5	---	74	122	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	101	---	79	117	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	94.2	---	78	120	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	95.6	---	78	118	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	100	---	79	115	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	100	---	78	120	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	86.9	---	78	120	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	110	---	81	119	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	95.3	---	76	114	---



Page Number : 10 of 11  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1519591

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicates (DCS) Report								
Matrix	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3956426) - Continued												
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	95.7	---	---	81	113	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	98.0	---	---	79	119	---	---
EG020: Vanadium	7440-82-2	1	mg/L	<1	1 mg/L	100	---	---	78	124	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	85.1	---	---	70	130	---	---



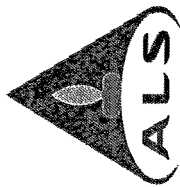
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)	
				MS	MSD	Low	High	Value	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3956425)</b>									
HK1519587-001	Anonymous								
		EG020: Antimony	7440-36-0	1 mg/L	105	---	75	125	---
		EG020: Arsenic	7440-38-2	1 mg/L	110	---	75	125	---
		EG020: Barium	7440-39-3	1 mg/L	110	---	75	125	---
		EG020: Beryllium	7440-41-7	1 mg/L	84.2	---	75	125	---
		EG020: Cadmium	7440-43-9	1 mg/L	108	---	75	125	---
		EG020: Chromium	7440-47-3	1 mg/L	102	---	75	125	---
		EG020: Copper	7440-50-8	1 mg/L	90.6	---	75	125	---
		EG020: Lead	7439-92-1	1 mg/L	88.8	---	75	125	---
		EG020: Mercury	7439-97-6	0.02 mg/L	119	---	75	125	---
		EG020: Nickel	7440-02-0	1 mg/L	95.0	---	75	125	---
		EG020: Selenium	7782-49-2	1 mg/L	116	---	75	125	---
		EG020: Silver	7440-22-4	1 mg/L	78.9	---	75	125	---
		EG020: Thallium	7440-28-0	1 mg/L	86.7	---	75	125	---
		EG020: Tin	7440-31-5	1 mg/L	107	---	75	125	---
		EG020: Vanadium	7440-62-2	1 mg/L	103	---	75	125	---
		EG020: Zinc	7440-66-6	1 mg/L	92.3	---	75	125	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3956426)</b>									
HK1519591-004	ASH BE								
		EG020: Antimony	7440-36-0	1 mg/L	103	---	75	125	---
		EG020: Arsenic	7440-38-2	1 mg/L	107	---	75	125	---
		EG020: Barium	7440-39-3	1 mg/L	105	---	75	125	---
		EG020: Beryllium	7440-41-7	1 mg/L	104	---	75	125	---
		EG020: Cadmium	7440-43-9	1 mg/L	99.4	---	75	125	---
		EG020: Chromium	7440-47-3	1 mg/L	99.2	---	75	125	---
		EG020: Copper	7440-50-8	1 mg/L	87.5	---	75	125	---
		EG020: Lead	7439-92-1	1 mg/L	93.4	---	75	125	---
		EG020: Mercury	7439-97-6	0.02 mg/L	105	---	75	125	---
		EG020: Nickel	7440-02-0	1 mg/L	84.6	---	75	125	---
		EG020: Selenium	7782-49-2	1 mg/L	120	---	75	125	---
		EG020: Silver	7440-22-4	1 mg/L	89.1	---	75	125	---
		EG020: Thallium	7440-28-0	1 mg/L	92.7	---	75	125	---
		EG020: Tin	7440-31-5	1 mg/L	98.5	---	75	125	---
		EG020: Vanadium	7440-62-2	1 mg/L	98.7	---	75	125	---
		EG020: Zinc	7440-66-6	1 mg/L	86.5	---	75	125	---

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client : VW-VES(HK) LTD  
 Contact : MS JENNIFER CHAN  
 Address : UNIT 7601,  
 THE CENTER,  
 99 QUEEN'S ROAD CENTRAL  
 HONG KONG

E-mail : jennifer.chan@veolia.com  
 Telephone : +852 2910 9709  
 Facsimile : +852 2430 8011  
 Project : ----  
 Order number : ----  
 C-O-C number : ----  
 Site : ----

Laboratory : ALS Technichem (HK) Pty Ltd  
 Contact : Fung Lim Chee, Richard  
 Address : 11/F., Chung Shun Knitting Centre, 1  
 - 3 Wing Yip Street, Kwai Chung,  
 N.T., Hong Kong

Quote number : ----  
 E-mail : Richard.Fung@alsglobal.com  
 Telephone : +852 2610 1044  
 Facsimile : +852 2610 2021

Page : 1 of 8  
 Work Order : HK1520034

Date Samples Received : 12-JUN-2015  
 Issue Date : 16-JUN-2015  
 No. of samples received : 9  
 No. of samples analysed : 9

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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*

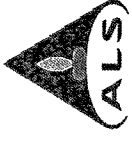
General Manager

*Authorised results for*

Inorganics

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Page Number : 2 of 8  
Client : VW-VES(HK) LTD  
Work Order : HK1520034

#### *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: 15-JUN-2015

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: HK1520034

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



Page Number : 3 of 8  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520034

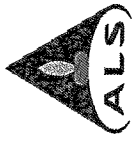
**Analytical Results**

Compound	CAS Number	LQR	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE AF
			Client sample date / time	Unit				
Sub-Matrix: SOLID			ASH A 中國灰	10-JUN-2015 10:20	10-JUN-2015 11:30	10-JUN-2015 15:00	10-JUN-2015 17:50	10-JUN-2015 07:40
			HK1520034-001	HK1520034-002	HK1520034-003	HK1520034-004	HK1520034-005	
<b>EA/ED: Physical and Aggregate Properties</b>								
EA002: pH Value	----	0.1	9.8	11.0	10.8	10.8	10.8	10.8
EA055: Moisture Content (dried @ 103°C)	----	0.1	26.8	4.6	22.5	20.4	18.8	18.8

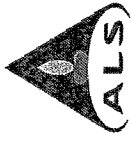








Sub-Matrix: TCLP LEACHATE		Client sample ID			
Compound	CAS Number	LOR	Unit	RESIDUE AE	RESIDUE AE
		Client sampling date / time	Client sampling date / time	Client sampling date / time	Client sampling date / time
<b>EG: Metals and Major Cations - Filtered</b>					
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	<1
<b>Sample Preparation Method</b>					
<b>E-TCLP: Extraction Fluid</b>					
Number	----	-	--	1	1
				10-JUN-2015 12:00	10-JUN-2015 12:00
				HK1520034-006	HK1520034-008
				10-JUN-2015 12:00	10-JUN-2015 12:00
				HK1520034-007	HK1520034-009

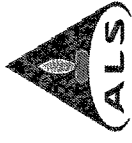


Laboratory Duplicate (DUP) Report

Laboratory sample ID		Client sample ID	Method/Comment	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
Matrix: SOIL									
EA/ED: Physical and Aggregate Properties (QC Lot: 3957906)									
HK1520034-001	ASH A 中間灰		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	26.8	26.9	0.4
HK1520038-002	Anonymous		EA055: Moisture Content (dried @ 103°C)	----	0.1	%	21.4	21.4	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 3958169)									
HK1520034-001	ASH A 中間灰		EA002: pH Value	----	0.1	pH Unit	9.8	9.8	0.0

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

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method/Comment	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits	RPD (%)
					LCS	Low	High	Value	Control Limit
Matrix: WATER									
EG: Metals and Major Cations - Filtered (QC Lot: 3958410)									
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	93.3	76	118	----
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	98.6	72	124	----
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	101	80	120	----
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	97.6	74	122	----
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	90.2	79	117	----
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	95.5	78	120	----
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	90.5	78	118	----
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	90.8	79	115	----
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	102	76	120	----
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	92.7	78	120	----
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	94.3	81	119	----
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	87.7	76	114	----
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	90.3	81	113	----
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	93.7	79	119	----
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	98.8	78	124	----
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	98.6	70	130	----



Page Number : 8 of 8  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520034

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

Matrix: WATER

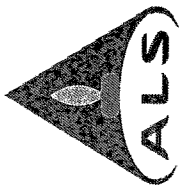
Laboratory sample ID	Client sample ID	Method Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPD(%)	Control Limit		
				Spike Concentration	MS	MSD			Recovery Limits Low (%)	High
EG020: Antimony	7440-36-0	EG020: Antimony	7440-36-0	1 mg/L	99.9	----	75	125	----	----
EG020: Arsenic	7440-38-2	EG020: Arsenic	7440-38-2	1 mg/L	101	----	75	125	----	----
EG020: Barium	7440-39-3	EG020: Barium	7440-39-3	1 mg/L	104	----	75	125	----	----
EG020: Beryllium	7440-41-7	EG020: Beryllium	7440-41-7	1 mg/L	93.2	----	75	125	----	----
EG020: Cadmium	7440-43-9	EG020: Cadmium	7440-43-9	1 mg/L	95.8	----	75	125	----	----
EG020: Chromium	7440-47-3	EG020: Chromium	7440-47-3	1 mg/L	98.3	----	75	125	----	----
EG020: Copper	7440-50-8	EG020: Copper	7440-50-8	1 mg/L	87.6	----	75	125	----	----
EG020: Lead	7439-92-1	EG020: Lead	7439-92-1	1 mg/L	90.1	----	75	125	----	----
EG020: Mercury	7439-97-6	EG020: Mercury	7439-97-6	0.02 mg/L	112	----	75	125	----	----
EG020: Nickel	7440-02-0	EG020: Nickel	7440-02-0	1 mg/L	91.4	----	75	125	----	----
EG020: Selenium	7782-49-2	EG020: Selenium	7782-49-2	1 mg/L	106	----	75	125	----	----
EG020: Silver	7440-22-4	EG020: Silver	7440-22-4	1 mg/L	85.1	----	75	125	----	----
EG020: Thallium	7440-28-0	EG020: Thallium	7440-28-0	1 mg/L	89.9	----	75	125	----	----
EG020: Tin	7440-31-5	EG020: Tin	7440-31-5	1 mg/L	99.3	----	75	125	----	----
EG020: Vanadium	7440-62-2	EG020: Vanadium	7440-62-2	1 mg/L	105	----	75	125	----	----
EG020: Zinc	7440-66-6	EG020: Zinc	7440-66-6	1 mg/L	90.6	----	75	125	----	----

EG: Metals and Major Cations - Filtered (QC Lot: 3958410)

HK1520034-001 ASH A 中間灰

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 6
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1520038
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 12-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 16-JUN-2015
Project	: -----	Quote number	: -----	No. of samples received	: 4
Order number	: -----			No. of samples analysed	: 4
C-O-C number	: -----				
Site	: -----				

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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**

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group  
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Page Number : 2 of 6  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order HK1520038

**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: 15-JUN-2015

Key: Lcr = 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: **HK1520038**

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



Page Number : 3 of 6  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520038

**Analytical Results**

Compound	CAS Number	LOR	Client sample ID		
			Client sampling date / time	ASH BE	RESIDUE BE
	Unit		10-JUN-2015 09:30	10-JUN-2015 15:10	10-JUN-2015 14:00
EA002: pH Value	---	0.1	10.2	10.0	10.9
EA055: Moisture Content (dried @ 103°C)	---	0.1	24.2	21.4	20.2
<b>EA055: Physical and Aggregate Properties</b> Unit: %					
			10.8	14.9	20.2
			10.8	14.9	20.2





**Laboratory Duplicate (DUP) Report**

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EAIJED: Physical and Aggregate Properties (QC Lot: 3957906)</b>									
HK1520034-001	Anonymous		EA055: Moisture Content (dried @ 103°C)		0.1	%	26.8	26.9	0.4
HK1520038-002	ASH BE		EA055: Moisture Content (dried @ 103°C)		0.1	%	21.4	21.4	0.0
<b>EAIJED: Physical and Aggregate Properties (QC Lot: 3958169)</b>									
HK1520034-001	Anonymous		EA002: pH Value		0.1	pH Unit	9.8	9.8	0.0

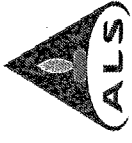
**Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report**

Matrix: WATER									
Method Blank (MB) Report									
Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3958410)</b>									
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	93.3	—	76 - 118	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	98.6	—	72 - 124	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	101	—	80 - 120	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	97.6	—	74 - 122	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	90.2	—	79 - 117	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	95.5	—	78 - 120	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	90.5	—	78 - 118	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	90.8	—	79 - 115	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	102	—	76 - 120	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	92.7	—	78 - 120	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	94.3	—	81 - 119	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	87.7	—	76 - 114	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	90.3	—	81 - 113	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	93.7	—	79 - 119	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	98.8	—	78 - 124	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	98.6	—	70 - 130	—

Method Blank (MB) Report

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





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

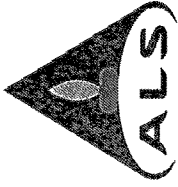
Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)	
				Value	High	Low	High	Control Limit	
EG: Metals and Major Cations - Filtered (QC Lot: 3958410)									
HK1520034-001	Anonymous	EG020: Antimony	7440-36-0	1 mg/L	99.9	—	75	125	—
		EG020: Arsenic	7440-38-2	1 mg/L	101	—	75	125	—
		EG020: Barium	7440-39-3	1 mg/L	104	—	75	125	—
		EG020: Beryllium	7440-41-7	1 mg/L	93.2	—	75	125	—
		EG020: Cadmium	7440-43-9	1 mg/L	95.8	—	75	125	—
		EG020: Chromium	7440-47-3	1 mg/L	98.3	—	75	125	—
		EG020: Copper	7440-50-8	1 mg/L	87.6	—	75	125	—
		EG020: Lead	7439-92-1	1 mg/L	90.1	—	75	125	—
		EG020: Mercury	7439-97-6	0.02 mg/L	112	—	75	125	—
		EG020: Nickel	7440-02-0	1 mg/L	91.4	—	75	125	—
		EG020: Selenium	7782-49-2	1 mg/L	106	—	75	125	—
		EG020: Silver	7440-22-4	1 mg/L	85.1	—	75	125	—
		EG020: Thallium	7440-28-0	1 mg/L	89.9	—	75	125	—
		EG020: Tin	7440-31-5	1 mg/L	99.3	—	75	125	—
		EG020: Vanadium	7440-62-2	1 mg/L	105	—	75	125	—
		EG020: Zinc	7440-66-6	1 mg/L	90.6	—	75	125	—

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client : VW-VES(HK) LTD  
Contact : MS JENNIFER CHAN  
Address : UNIT 7601,  
THE CENTER,  
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E-mail : jennifer.chan@veolia.com  
Telephone : +852 2910 9709  
Facsimile : +852 2430 8011  
Project : ----  
Order number : ----  
C-O-C number : ----  
Site : ----

Laboratory : ALS Technichem (HK) Pty Ltd  
Contact : Fung Lim Chee, Richard  
Address : 11/F., Chung Shun Knitting Centre, 1  
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Telephone : +852 2610 1044  
Facsimile : +852 2610 2021  
Quote number : ----

Page : 1 of 24  
Work Order : HK1520299

Date Samples Received : 15-JUN-2015  
Issue Date : 19-JUN-2015  
No. of samples received : 43  
No. of samples analysed : 43

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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

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong  
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Page Number : 2 of 24  
Client : VW-VES(HK) LTD  
Work Order : HKI520299

### *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: 17-JUN-2015

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: **HKI520299**

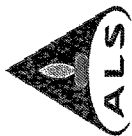
Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



Page Number : 3 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520299

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	LQR	Client sampling date / time		Client sample ID	
			Unit	Unit	Unit	Unit
EA002: pH Value	---	0.1	pH Unit	11-JUN-2015 11:40	ASH 中間灰	RESIDUE AE
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	11-JUN-2015 14:40	ASH A 中間灰	RESIDUE AE
				11-JUN-2015 15:20	HK1520299-003	HK1520299-005
				11-JUN-2015 14:40	HK1520299-002	HK1520299-004
				11-JUN-2015 11:40	HK1520299-001	HK1520299-005
				9.5	9.4	10.4
				16.5	22.1	25.4
				9.4	27.9	10.4
						23.7

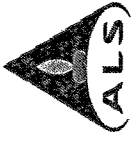




Page Number : 5 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520299

Compound	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
	CAS Number	LQR					
EA002: pH Value	----	0.1	11-JUN-2015 15:10	11-JUN-2015 16:10	11-JUN-2015 17:20	12-JUN-2015 12:10	RESIDUE BF
			HK1520299-011	HK1520299-012	HK1520299-013	HK1520299-014	12-JUN-2015 17:10
EA055: Moisture Content (dried @ 103°C)	----	0.1	10.8	10.8	10.8	10.7	RESIDUE BF
			22.1	20.7	13.1	22.0	25.0

EA/ED: Physical and Aggregate Properties



Page Number : 6 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520299

Sub-Matrix: SOLID

Compound	CAS Number	LQR	Client sampling date / time		Client sample ID					
			Unit	Unit	RESIDUE BF	RESIDUE AE	RESIDUE AE	RESIDUE AE		
EA002: pH Value	----	0.1	12-JUN-2015	10:10	12-JUN-2015	16:20	12-JUN-2015	15:30	12-JUN-2015	15:30
EA055: Moisture Content (dried @ 103°C)	----	0.1	HK1520299-016	HK1520299-017	HK1520299-018	HK1520299-019	HK1520299-020			
			10.7	10.5	10.5	10.5	10.5	10.5	10.5	10.5
			26.7	22.7	21.9	24.0	24.7			24.7

EA/ED: Physical and Aggregate Properties







Page Number : 8 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520299

Sub-Matrix: SOLID		Client sample ID		RESIDUE BF		RESIDUE AF	
Compound	CAS Number	LOR	Unit	Client sampling date / time	ASH A 中灰	RESIDUE BF	RESIDUE AF
EA002: pH Value	----	0.1	pH Unit	13-JUN-2015 10:45	13-JUN-2015 10:00	13-JUN-2015 14:45	13-JUN-2015 14:20
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	13-JUN-2015 10:45	13-JUN-2015 14:40	13-JUN-2015 14:45	13-JUN-2015 14:20
				HK1520299-026	HK1520299-027	HK1520299-028	HK1520299-030
				9.7	10.7	10.6	10.6
				22.7	25.8	20.8	21.8
							20.1

EA/ED: Physical and Aggregate Properties



Page Number : 9 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520299

Compound	Client sample ID		Client sampling date / time		LQR	Unit	RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AE
	CAS Number	---	---	---						
EA/ED: Physical and Aggregate Properties										
EA002: pH Value	---	0.1	10.6	13-JUN-2015 08:45	HK1520299-031	13-JUN-2015 08:45	13-JUN-2015 13:40	13-JUN-2015 08:00	13-JUN-2015 11:15	14-JUN-2015 14:10
EA055: Moisture Content (dried @ 103°C)	---	0.1	25.3							
			10.6				10.6	10.6	10.6	10.6
			25.6				25.6	22.9	26.1	23.6



Page Number : 11 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520299



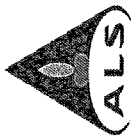
Compound	CAS Number	LOR	Client sample ID		
			Client sampling date / time	RESIDUE BF	RESIDUE BF
			14-JUN-2015 16:20	14-JUN-2015 16:20	14-JUN-2015 10:20
			HK1520299-041	HK1520299-042	HK1520299-043
<b>EA/ED: Physical and Aggregate Properties</b>					
EA002: pH Value	----	0.1	10.8	10.7	10.7
EA055: Moisture Content (dried @ 103°C)	----	0.1	10.5	19.1	18.2





Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LQR	Client sampling date / time		RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE BF
			Unit	Unit					
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Arsenic	7440-38-2	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Barium	7440-39-3	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Beryllium	7440-41-7	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Cadmium	7440-43-9	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Chromium	7440-47-3	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Copper	7440-50-8	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Lead	7439-92-1	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	11-JUN-2015 12:00	<0.2	11-JUN-2015 12:00	<0.2	11-JUN-2015 12:00	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	11-JUN-2015 12:00	<0.2	11-JUN-2015 12:00	0.3	11-JUN-2015 12:00	<0.2
EG020: Silver	7440-22-4	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Thallium	7440-28-0	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Tin	7440-31-5	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Vanadium	7440-52-2	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
EG020: Zinc	7440-66-6	1	mg/kg	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1	11-JUN-2015 12:00	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid	----	.	--	11-JUN-2015 12:00	1	11-JUN-2015 12:00	1	11-JUN-2015 12:00	2



Sub-Matrix: TCLP LEACHATE

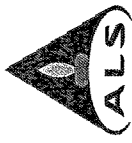
Compound	Client sampling date / time		Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
	C/S Number	LQR	Unit	Unit					
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0	1	mg/kg		<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg		<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg		<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg		<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg		<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg		1	1	1	1	<1
EG020: Lead	7439-92-1	1	mg/kg		<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg		<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg		<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg		<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg		<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg		<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg		<1	<1	<1	<1	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid									
Number	----	-	..		2	2	2	2	1



Compound	Client sample ID		LOR	Unit	RESIDUE BF [12-JUN-2015] HK1520299-016	RESIDUE AE 12-JUN-2015 12:00 HK1520299-017	RESIDUE AE 12-JUN-2015 12:00 HK1520299-018	RESIDUE AE 12-JUN-2015 12:00 HK1520299-019	RESIDUE AE 12-JUN-2015 12:00 HK1520299-020
	CAS Number	Client sampling date / time							
Sub-Matrix: TCLP LEACHATE									
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2		1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3		1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7		1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9		1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3		1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8		1	mg/kg	<1	<1	<1	<1	<1
EG020: Lead	7439-92-1		1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6		0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2		0.2	mg/kg	<0.2	0.2	0.2	<0.2	<0.2
EG020: Silver	7440-22-4		1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5		1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2		1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6		1	mg/kg	<1	<1	<1	<1	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid									
Number					1	1	1	1	1





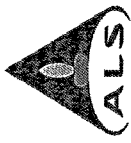


Sub-Matrix: TCLP LEACHATE

Compound	Client sample ID		LOR	Unit	ASH A 中灰		RESIDUE BF		RESIDUE AF		
	CAS Number	Client sampling date / time			13-JUN-2015 12:00	HK1520299-026	13-JUN-2015 12:00	HK1520299-027	13-JUN-2015 12:00	HK1520299-028	13-JUN-2015 12:00
EG: Metals and Major Cations - Filtered											
EG020: Antimony	7440-36-0		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8		1	mg/kg	<1	1	<1	<1	<1	<1	<1
EG020: Lead	7439-92-1		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6		0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2		0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
EG020: Silver	7440-22-4		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2		1	mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6		1	mg/kg	1	<1	<1	<1	<1	<1	<1
Sample Preparation Method											
E-TCLP: Extraction Fluid											
Number	----		-	--	1	1	1	1	1	1	1



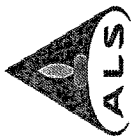
Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AE
Compound	CAS Number	LQR	Client sampling date / time	Unit	13-JUN-2015 12:00	13-JUN-2015 12:00	13-JUN-2015 12:00	13-JUN-2015 12:00
					HK1520299-031	HK1520299-032	HK1520299-033	HK1520299-034
<b>EG: Metals and Major Cations - Filtered</b>								
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	<1	<1	<1	<1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1		mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	<1	<1	<1	<1
<b>Sample Preparation Method</b>								
E-TCLP: Extraction Fluid								
Number	----	-	---		1	1	1	1



Page Number : 19 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520299

Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LGR	Client sampling date / time		Client sample ID	
			Unit	RESIDUE AE	RESIDUE AE	RESIDUE BF
EG: Metals and Major Cations - Filtered						
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	<1	<1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	<1	1
Sample Preparation Method						
E-TCLP: Extraction Fluid						
Number	----	-	--	1	1	2



Page Number : 20 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520299

Sub-Matrix: TCLP LEACHATE

Compound	Client sampling date / time		Client sample ID	
	CAS Number	LQR	Unit	Thrt
<b>EG: Metals and Major Cations - Filtered</b>				
EG020: Antimony	7440-36-0	1	mg/kg	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1
EG020: Barium	7440-39-3	1	mg/kg	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1
EG020: Copper	7440-50-8	1	mg/kg	1
EG020: Lead	7439-92-1	1	mg/kg	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1
EG020: Tin	7440-31-5	1	mg/kg	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1
<b>Sample Preparation Method</b>				
E-TCLP: Extraction Fluid	----	-	---	1
Number				2

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 14-JUN-2015 12:00  
 HK1520299-041

RESIDUE BF  
 14-JUN-2015 12:00  
 HK1520299-042

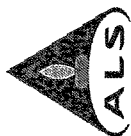
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 14-JUN-2015 12:00  
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RESIDUE BF  
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 HK1520299-042

RESIDUE BF  
 14-JUN-2015 12:00  
 HK1520299-043

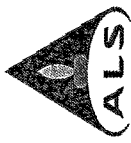


Laboratory Duplicate (DUP) Report

Matrix: SOIL		Laboratory Duplicate (DUP) Report												
Laboratory sample ID	Client sample ID	Method/Compound	LOR	Unit	Original Result	Duplicate Result	RPD (%)	CAS Number	Method/Compound	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3959262)</b>														
HK1520299-001	ASH 中間灰	EA055: Moisture Content (dried @ 103°C)	0.1	%	16.5	16.5	0.0	----	EA055: Moisture Content (dried @ 103°C)	0.1	%	16.5	16.5	0.0
HK1520299-011	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	0.1	%	22.1	22.0	0.5	----	EA055: Moisture Content (dried @ 103°C)	0.1	%	22.1	22.0	0.5
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3959263)</b>														
HK1520299-021	ASH A 中間灰	EA055: Moisture Content (dried @ 103°C)	0.1	%	20.7	20.7	0.0	----	EA055: Moisture Content (dried @ 103°C)	0.1	%	20.7	20.7	0.0
HK1520299-031	RESIDUE AE	EA055: Moisture Content (dried @ 103°C)	0.1	%	25.3	25.0	1.0	----	EA055: Moisture Content (dried @ 103°C)	0.1	%	25.3	25.0	1.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3959264)</b>														
HK1520299-041	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	0.1	%	10.5	10.4	1.3	----	EA055: Moisture Content (dried @ 103°C)	0.1	%	10.5	10.4	1.3
HK1520305-008	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	13.0	12.9	0.0	----	EA055: Moisture Content (dried @ 103°C)	0.1	%	13.0	12.9	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3959935)</b>														
HK1520299-001	ASH 中間灰	EA002: pH Value	0.1	pH Unit	9.5	9.5	0.0	----	EA002: pH Value	0.1	pH Unit	9.5	9.5	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3959936)</b>														
HK1520299-021	ASH A 中間灰	EA002: pH Value	0.1	pH Unit	9.5	9.4	0.0	----	EA002: pH Value	0.1	pH Unit	9.5	9.4	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3959937)</b>														
HK1520299-041	RESIDUE BF	EA002: pH Value	0.1	pH Unit	10.8	10.9	0.0	----	EA002: pH Value	0.1	pH Unit	10.8	10.9	0.0

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

Matrix: WATER										Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report										
Method Blank (MB) Report					Laboratory Control Spike (LCS) Report					Laboratory Control Spike Duplicate (DCS) Report										
Method/Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits	RPD (%)	Method/Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits	RPD (%)	
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961165)</b>																				
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	106	----	76	118	----	7440-36-0	1	mg/L	<1	1 mg/L	106	----	76	118	----
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	106	----	72	124	----	7440-38-2	1	mg/L	<1	1 mg/L	106	----	72	124	----
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	102	----	80	120	----	7440-39-3	1	mg/L	<1	1 mg/L	102	----	80	120	----
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	94.8	----	74	122	----	7440-41-7	1	mg/L	<1	1 mg/L	94.8	----	74	122	----
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	108	----	79	117	----	7440-43-9	0.1	mg/L	<0.1	1 mg/L	108	----	79	117	----
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	96.0	----	78	120	----	7440-47-3	1	mg/L	<1	1 mg/L	96.0	----	78	120	----
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	96.1	----	78	118	----	7440-50-8	1	mg/L	<1	1 mg/L	96.1	----	78	118	----
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	90.8	----	79	115	----	7439-92-1	1	mg/L	<1	1 mg/L	90.8	----	79	115	----
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	107	----	76	120	----	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	107	----	76	120	----
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	98.5	----	78	120	----	7440-02-0	1	mg/L	<1	1 mg/L	98.5	----	78	120	----
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	102	----	81	119	----	7782-49-2	0.2	mg/L	<0.2	1 mg/L	102	----	81	119	----
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	98.6	----	76	114	----	7440-22-4	1	mg/L	<1	1 mg/L	98.6	----	76	114	----
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	90.8	----	81	113	----	7440-28-0	1	mg/L	<1	1 mg/L	90.8	----	81	113	----
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	99.0	----	79	119	----	7440-31-5	1	mg/L	<1	1 mg/L	99.0	----	79	119	----



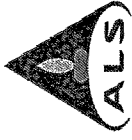
Matrix: WATER

Method: Comond

Method Blank (MB) Report

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

Method: Comond	CAS Number	LOR	Unit	Result	Spike Recovery (%)			Recovery Limits		RPD (%)	Control Limit
					LCS	DCS	Value	Low	High		
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961165) - Continued</b>											
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	97.0	---	78	124	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	95.2	---	70	130	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961166)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	104	---	76	118	---	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	96.1	---	72	124	---	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	99.6	---	80	120	---	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	98.3	---	74	122	---	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	107	---	79	117	---	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	93.9	---	78	120	---	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	93.4	---	78	118	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	91.2	---	79	115	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	98.6	---	76	120	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	96.2	---	78	120	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	106	---	81	119	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	98.1	---	76	114	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	90.9	---	81	113	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	97.0	---	79	119	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	97.3	---	78	124	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	97.4	---	70	130	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961167)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	110	---	76	118	---	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	106	---	72	124	---	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	106	---	80	120	---	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	102	---	74	122	---	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	111	---	79	117	---	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	102	---	78	120	---	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	101	---	78	118	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	98.6	---	79	115	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	101	---	76	120	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	102	---	78	120	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	108	---	81	119	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	104	---	76	114	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	99.0	---	81	113	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	104	---	79	119	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	105	---	78	124	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	102	---	70	130	---	---



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

Matrix: WATER

Laboratory sample ID	Client sample ID	Method Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	MS	MSD	Recovery Limits Low (%)	High	Value	RPD(%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961165)</b>										
HK1520299-001	ASH 中間灰	EG020: Antimony	7440-36-0	1 mg/L	105	----	75	125	----	----
		EG020: Arsenic	7440-38-2	1 mg/L	102	----	75	125	----	----
		EG020: Barium	7440-39-3	1 mg/L	99.3	-----	75	125	-----	-----
		EG020: Beryllium	7440-41-7	1 mg/L	93.4	-----	75	125	-----	-----
		EG020: Cadmium	7440-43-9	1 mg/L	104	----	75	125	----	----
		EG020: Chromium	7440-47-3	1 mg/L	94.6	----	75	125	----	----
		EG020: Copper	7440-50-8	1 mg/L	92.8	----	75	125	----	----
		EG020: Lead	7439-92-1	1 mg/L	88.6	----	75	125	----	----
		EG020: Mercury	7439-97-6	0.02 mg/L	107	----	75	125	----	----
		EG020: Nickel	7440-02-0	1 mg/L	95.2	----	75	125	----	----
		EG020: Selenium	7782-49-2	1 mg/L	119	----	75	125	----	----
		EG020: Silver	7440-22-4	1 mg/L	91.4	----	75	125	----	----
		EG020: Thallium	7440-28-0	1 mg/L	89.0	----	75	125	----	----
		EG020: Tin	7440-31-5	1 mg/L	97.6	----	75	125	----	----
		EG020: Vanadium	7440-62-2	1 mg/L	95.7	----	75	125	----	----
		EG020: Zinc	7440-66-6	1 mg/L	83.6	----	75	125	----	----
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961166)</b>										
HK1520299-021	ASH A 中間灰	EG020: Antimony	7440-36-0	1 mg/L	109	----	75	125	----	----
		EG020: Arsenic	7440-38-2	1 mg/L	99.7	----	75	125	----	----
		EG020: Barium	7440-39-3	1 mg/L	99.5	----	75	125	----	----
		EG020: Beryllium	7440-41-7	1 mg/L	93.4	----	75	125	----	----
		EG020: Cadmium	7440-43-9	1 mg/L	107	----	75	125	----	----
		EG020: Chromium	7440-47-3	1 mg/L	93.5	----	75	125	----	----
		EG020: Copper	7440-50-8	1 mg/L	93.8	----	75	125	----	----
		EG020: Lead	7439-92-1	1 mg/L	89.7	----	75	125	----	----
		EG020: Mercury	7439-97-6	0.02 mg/L	97.6	----	75	125	----	----
		EG020: Nickel	7440-02-0	1 mg/L	93.9	----	75	125	----	----
		EG020: Selenium	7782-49-2	1 mg/L	102	----	75	125	----	----
		EG020: Silver	7440-22-4	1 mg/L	91.2	----	75	125	----	----
		EG020: Thallium	7440-28-0	1 mg/L	89.7	----	75	125	----	----
		EG020: Tin	7440-31-5	1 mg/L	97.9	----	75	125	----	----
		EG020: Vanadium	7440-62-2	1 mg/L	97.4	----	75	125	----	----
		EG020: Zinc	7440-66-6	1 mg/L	91.3	----	75	125	----	----
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961167)</b>										
HK1520299-041	RESIDUE BF	EG020: Antimony	7440-36-0	1 mg/L	108	----	75	125	----	----
		EG020: Arsenic	7440-38-2	1 mg/L	105	----	75	125	----	----
		EG020: Barium	7440-39-3	1 mg/L	99.0	----	75	125	----	----
		EG020: Beryllium	7440-41-7	1 mg/L	90.7	----	75	125	----	----
		EG020: Cadmium	7440-43-9	1 mg/L	105	----	75	125	----	----





Page Number : 24 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520299

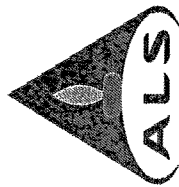
MATRIX: WATER

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		RPD(%)	Control Limit
				MS	MSD	Low (%)	High	Value			
EG: Metals and Major Cations - Filtered (QC Lot: 3961167) - Continued											
HK1520299-041	RESIDUE BF	EG020: Chromium	7440-47-3	1 mg/L	96.5	75	125	75	125	----	----
		EG020: Copper	7440-50-8	1 mg/L	86.1	75	125	75	125	----	----
		EG020: Lead	7439-92-1	1 mg/L	88.0	75	125	75	125	----	----
		EG020: Mercury	7439-97-6	0.02 mg/L	98.9	75	125	75	125	----	----
		EG020: Nickel	7440-02-0	1 mg/L	95.2	75	125	75	125	----	----
		EG020: Selenium	7782-49-2	1 mg/L	122	75	125	75	125	----	----
		EG020: Silver	7440-22-4	1 mg/L	79.7	75	125	75	125	----	----
		EG020: Thallium	7440-28-0	1 mg/L	86.5	75	125	75	125	----	----
		EG020: Tin	7440-31-5	1 mg/L	101	75	125	75	125	----	----
		EG020: Vanadium	7440-62-2	1 mg/L	98.8	75	125	75	125	----	----
		EG020: Zinc	7440-66-6	1 mg/L	91.1	75	125	75	125	----	----

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 15
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1520305
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 15-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 19-JUN-2015
Project	: -----	Quote number	: -----	No. of samples received	: 21
Order number	: -----			No. of samples analysed	: 21
C-O-C number	: -----				
Site	: -----				

This report may not be reproduced except with prior written approval from the testing laboratory.

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

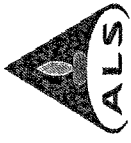
Fung Lim Chee, Richard

General Manager

Inorganics

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong  
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Page Number : 2 of 15  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order HK1520305

**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: 17-JUN-2015

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: HK1520305

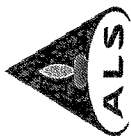
Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



Page Number : 3 of 15  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520305

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sampling date / time		Client sample ID			
			Unit	Unit	ASH BE	ASH BE		
EA002: pH Value	—	0.1	pH Unit	11-JUN-2015 09:00	11-JUN-2015 11:40	11-JUN-2015 12:50	11-JUN-2015 13:20	11-JUN-2015 15:30
EA056: Moisture Content (dried @ 103°C)	—	0.1	%	HK1520305-001	HK1520305-002	HK1520305-003	HK1520305-004	HK1520305-005
				9.9	10.9	9.8	9.8	9.6
				27.7	9.0	24.2	15.4	22.6



Page Number : 4 of 15  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520305

Compound	CAS Number	Client sample ID		ASH BE	RESIDUE BE	RESIDUE BE	ASH BE	ASH BE
		Client sampling date / time	Unit					
EA002: pH Value	---	0.1	pH Unit	11-JUN-2015 17:00	11-JUN-2015 14:30	11.0	12-JUN-2015 11:00	12-JUN-2015 10:40
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	HK1520305-006	HK1520305-007	13.0	HK1520305-009	HK1520305-010
				10.0	10.8	11.0	9.8	9.8
				18.4	21.9	13.0	26.8	19.3

Sub-Matrix: SOLID

EA/ED: Physical and Aggregate Properties



Page Number : 5 of 15  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520305

Compound	CAS Number	Client sample ID		ASH BE	ASH BE	ASH BE	ASH BE	ASH BE
		Client sampling date / time	Unit					
EA002: pH Value	---	0.1	pH Unit	13-JUN-2015 07:45	13-JUN-2015 13:10	13-JUN-2015 12:00	13-JUN-2015 09:30	13-JUN-2015 08:30
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	HK1520305-011	HK1520305-012	HK1520305-013	HK1520305-014	HK1520305-015
				9.8	9.8	9.8	9.8	9.8
				22.5	24.8	23.0	19.5	21.5

Sub-Matrix: SOLID



Page Number : 6 of 15  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520305

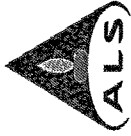
Compound	CAS Number	Client sampling date / time		ASH BE	ASH BE	ASH BE	ASH BE	ASH BE
		LOR	Unit					
Sub-Matrix: SOLID								
EA/ED: Physical and Aggregate Properties								
EA002: pH Value	--	0.1	pH Unit	9.8	9.9	9.9	9.9	9.9
EA056: Moisture Content (dried @ 103°C)	--	0.1	%	21.2	20.0	16.6	20.9	20.3
				13-JUN-2015 15:50	14-JUN-2015 14:50	14-JUN-2015 15:50	14-JUN-2015 17:30	14-JUN-2015 11:40
				HK1520305-016	HK1520305-017	HK1520305-018	HK1520305-019	HK1520305-020



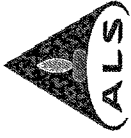
Page Number : 7 of 15  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520305

Compound	CAS Number	Client sample ID		Client sample date / time	LOR	Unit
		Sub-Matrix: SOLID	ASH BE			
EA/ED: Physical and Aggregate Properties				14-JUN-2015 12:20		
EA002: pH Value	---	0.1			pH Unit	9.9
EA055: Moisture Content (dried @ 103°C)	---	0.1			%	18.1

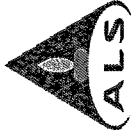




Sub-Matrix: TCLP LEACHATE		Client sample ID				
Compound	CAS Number	Client sampling date / time	ASH BE	ASH BE	ASH BE	ASH BE
		Unit	11-JUN-2015 12:00	11-JUN-2015 12:00	11-JUN-2015 12:00	11-JUN-2015 12:00
		Unit	HK1520305-001	HK1520305-002	HK1520305-003	HK1520305-004
<b>EG: Metals and Major Cations - Filtered</b>						
EG020: Antimony	7440-36-0	1 mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1 mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1 mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1 mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1 mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1 mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1 mg/kg	1	1	1	1
EG020: Lead	7439-92-1	1 mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2 mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1 mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2 mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1 mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1 mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1 mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1 mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1 mg/kg	1	1	1	1
<b>Sample Preparation Method</b>						
E-TCLP: Extraction Fluid Number						
			1	1	1	1

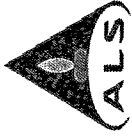


Sub-Matrix: TCLP LEACHATE		Client sample ID							
Compound	CAS Number	Client sampling date / time		Unit	ASH BE	RESIDUE BE	RESIDUE BE	ASH BE	ASH BE
		LOR							
<b>EG: Metals and Major Cations - Filtered</b>									
EG020: Antimony	7440-36-0	1		mg/kg	11-JUN-2015 12:00 HK1520305-006	11-JUN-2015 12:00 HK1520305-007	12-JUN-2015 12:00 HK1520305-008	12-JUN-2015 12:00 HK1520305-009	12-JUN-2015 12:00 HK1520305-010
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	1	1	1	1	1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1		mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	1	<1	<1	1	1
<b>Sample Preparation Method</b>									
E-TCLP: Extraction Fluid Number									
					1	2	2	1	1



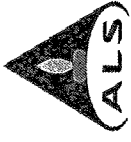
Page Number : 10 of 15  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520305

Compound	CAS Number	LOR	Client sample ID			
			Client sampling date / time	Unit	ASH BE	ASH BE
Sub-Matrix: TCLP LEACHATE						
EG: Metals and Major Cations - Filtered						
EG020: Antimony	7440-36-0	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Arsenic	7440-38-2	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Barium	7440-39-3	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Beryllium	7440-41-7	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Cadmium	7440-43-9	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Chromium	7440-47-3	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Copper	7440-50-8	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Lead	7439-92-1	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Mercury	7439-97-6	0.2	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Nickel	7440-02-0	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Selenium	7782-49-2	0.2	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Silver	7440-22-4	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Thallium	7440-28-0	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Tin	7440-31-5	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Vanadium	7440-62-2	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
EG020: Zinc	7440-66-6	1	13-JUN-2015 12:00	mg/kg	13-JUN-2015 12:00	13-JUN-2015 12:00
Sample Preparation Method						
E-TCLP: Extraction Fluid Number						
			1	1	1	1



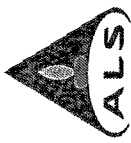
Page Number : 11 of 15  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520305

Compound	CAS Number	LOR	Client sample ID			
			Client sampling date / time	ASH BE	ASH BE	ASH BE
Sub-Matrix: TCLP LEACHATE						
EG: Metals and Major Cations - Filtered						
EG020: Antimony	7440-36-0	1	13-JUN-2015 12:00	14-JUN-2015 12:00	14-JUN-2015 12:00	14-JUN-2015 12:00
EG020: Arsenic	7440-38-2	1	HK1520305-016	HK1520305-017	HK1520305-018	HK1520305-019
EG020: Barium	7440-39-3	1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	2	2	2	2
EG020: Lead	7439-92-1	1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	<1	<1	<1	<1
EG020: Tin	7440-51-5	1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	<1	<1	<1	<1
EG020: Zinc	7440-66-8	1	2	2	2	2
Sample Preparation Method						
E-TCLP: Extraction Fluid Number						
			1	1	1	1



Page Number : 12 of 15  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520305

Sub-Matrix: TCLP LEACHATE		Client sample ID		Client sampling date / time	
		ASH BE		14-JUN-2015 12:00	
		HK1520305-021			
Compound	CAS Number	LOR	Unit		
<b>EG: Metals and Major Cations - Filtered</b>					
EG020: Antimony	7440-38-0	1	mg/kg	<1	
EG020: Arsenic	7440-38-2	1	mg/kg	<1	
EG020: Barium	7440-39-3	1	mg/kg	<1	
EG020: Beryllium	7440-41-7	1	mg/kg	<1	
EG020: Cadmium	7440-43-9	1	mg/kg	<1	
EG020: Chromium	7440-47-3	1	mg/kg	<1	
EG020: Copper	7440-50-8	1	mg/kg	2	
EG020: Lead	7439-92-1	1	mg/kg	<1	
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	
EG020: Nickel	7440-02-0	1	mg/kg	<1	
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	
EG020: Silver	7440-22-4	1	mg/kg	<1	
EG020: Thallium	7440-28-0	1	mg/kg	<1	
EG020: Tin	7440-31-5	1	mg/kg	<1	
EG020: Vanadium	7440-62-2	1	mg/kg	<1	
EG020: Zinc	7440-66-6	1	mg/kg	2	
<b>Sample Preparation Method</b>					
E-TCLP: Extraction Fluid Number					
				1	



**Laboratory Duplicate (DUP) Report**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report		
				LOR	Unit	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3959264)</b>						
HK1520299-041	Anonymous	EA055: Moisture Content (dried @ 103°C)	—	10.5	10.4	1.3
HK1520305-008	RESIDUE BE	EA055: Moisture Content (dried @ 103°C)	—	13.0	12.9	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3959265)</b>						
HK1520305-018	ASH BE	EA055: Moisture Content (dried @ 103°C)	—	16.6	16.8	1.2
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3959937)</b>						
HK1520299-041	Anonymous	EA002: pH Value	—	10.8	10.9	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3959938)</b>						
HK1520305-021	ASH BE	EA002: pH Value	—	9.9	9.9	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	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
						LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961168)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	101	—	—	76	118	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	94.6	—	—	72	124	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	98.0	—	—	80	120	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	90.2	—	—	74	122	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	105	—	—	79	117	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	86.4	—	—	78	120	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	85.0	—	—	78	118	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	92.5	—	—	79	115	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	96.1	—	—	76	120	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	95.3	—	—	78	120	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	102	—	—	81	119	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	97.8	—	—	76	114	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	93.1	—	—	81	113	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	96.7	—	—	79	119	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	97.4	—	—	78	124	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	97.4	—	—	70	130	—
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961169)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	101	—	—	76	118	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	101	—	—	72	124	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	99.5	—	—	80	120	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	96.7	—	—	74	122	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	101	—	—	79	117	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	102	—	—	78	120	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	98.9	—	—	78	118	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	92.7	—	—	79	115	—



Page Number : 14 of 15  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520305

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
Matrix	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961169) - Continued</b>											
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	96.1	—	76	120	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	93.0	—	78	120	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	102	—	81	119	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	96.3	—	76	114	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	92.1	—	81	113	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	94.0	—	79	119	—	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	97.2	—	78	124	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	104	—	70	130	—	—



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

Matrix: WATER

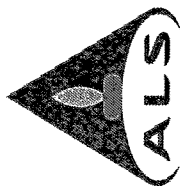
Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report															
				Spike Concentration	MS	Spike Recovery (%)	MSD	Low	High	Value	RPD (%)								
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961168)</b>																			
HK1520305-001	ASH BE	EG020: Antimony	7440-36-0	1 mg/L	95.8	---	---	75	125	---	---								
		EG020: Arsenic	7440-38-2	1 mg/L	98.8	---	---	75	125	---	---								
		EG020: Barium	7440-39-3	1 mg/L	99.3	---	---	75	125	---	---								
		EG020: Beryllium	7440-41-7	1 mg/L	95.9	---	---	75	125	---	---								
		EG020: Cadmium	7440-43-9	1 mg/L	106	---	---	75	125	---	---								
		EG020: Chromium	7440-47-3	1 mg/L	93.9	---	---	75	125	---	---								
		EG020: Copper	7440-50-8	1 mg/L	91.0	---	---	75	125	---	---								
		EG020: Lead	7439-92-1	1 mg/L	93.6	---	---	75	125	---	---								
		EG020: Mercury	7439-97-6	0.02 mg/L	94.5	---	---	75	125	---	---								
		EG020: Nickel	7440-02-0	1 mg/L	99.2	---	---	75	125	---	---								
		EG020: Selenium	7782-49-2	1 mg/L	99.7	---	---	75	125	---	---								
		EG020: Silver	7440-22-4	1 mg/L	78.9	---	---	75	125	---	---								
		EG020: Thallium	7440-28-0	1 mg/L	93.4	---	---	75	125	---	---								
		EG020: Tin	7440-31-5	1 mg/L	89.8	---	---	75	125	---	---								
		EG020: Vanadium	7440-62-2	1 mg/L	98.0	---	---	75	125	---	---								
		EG020: Zinc	7440-66-6	1 mg/L	85.7	---	---	75	125	---	---								
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3961169)</b>																			
HK1520305-021	ASH BE	EG020: Antimony	7440-36-0	1 mg/L	103	---	---	75	125	---	---								
		EG020: Arsenic	7440-38-2	1 mg/L	104	---	---	75	125	---	---								
		EG020: Barium	7440-39-3	1 mg/L	104	---	---	75	125	---	---								
		EG020: Beryllium	7440-41-7	1 mg/L	103	---	---	75	125	---	---								
		EG020: Cadmium	7440-43-9	1 mg/L	105	---	---	75	125	---	---								
		EG020: Chromium	7440-47-3	1 mg/L	104	---	---	75	125	---	---								
		EG020: Copper	7440-50-8	1 mg/L	91.1	---	---	75	125	---	---								
		EG020: Lead	7439-92-1	1 mg/L	97.1	---	---	75	125	---	---								
		EG020: Mercury	7439-97-6	0.02 mg/L	110	---	---	75	125	---	---								
		EG020: Nickel	7440-02-0	1 mg/L	99.8	---	---	75	125	---	---								
		EG020: Selenium	7782-49-2	1 mg/L	103	---	---	75	125	---	---								
		EG020: Silver	7440-22-4	1 mg/L	91.0	---	---	75	125	---	---								
		EG020: Thallium	7440-28-0	1 mg/L	97.3	---	---	75	125	---	---								
		EG020: Tin	7440-31-5	1 mg/L	99.5	---	---	75	125	---	---								
		EG020: Vanadium	7440-62-2	1 mg/L	105	---	---	75	125	---	---								
		EG020: Zinc	7440-66-6	1 mg/L	75.5	---	---	75	125	---	---								



# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client : VW-VES(HK) LTD  
Contact : MS JENNIFER CHAN  
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Telephone : +852 2910 9709  
Facsimile : +852 2430 8011  
Project : ----  
Order number : ----  
C-O-C number : ----  
Site : ----

Laboratory : ALS Technichem (HK) Pty Ltd  
Contact : Fung Lim Chee, Richard  
Address : 11/F., Chung Shun Knitting Centre, 1  
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E-mail : Richard.Fung@alsglobal.com  
Telephone : +852 2610 1044  
Facsimile : +852 2610 2021  
Quote number : ----

Page : 1 of 18  
Work Order : HK1520626

Date Samples Received : 17-JUN-2015  
Issue Date : 07-JUL-2015  
No. of samples received : 25  
No. of samples analysed : 25

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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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Part of the ALS Laboratory Group

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Page Number : 2 of 18  
Client : VW-VES(HK) LTD  
Work Order : HK1520626

**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: 23-JUN-2015

Key: 108 = 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: HK1520626

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.

Dioxins and Furans were subcontracted to and analysed by ALS Czech Republic.



Page Number : 3 of 18  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520626

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sample ID			
			Client sampling date / time	RESIDUE AE	RESIDUE AE	RESIDUE AF
			15-JUN-2015 07:50	15-JUN-2015 08:10	15-JUN-2015 08:40	15-JUN-2015 10:40
			HK1520626-001	HK1520626-002	HK1520626-003	HK1520626-004
<b>EA/ED: Physical and Aggregate Properties</b>						
EA002: pH Value	---	0.1	10.5	10.5	10.6	10.4
EA055: Moisture Content (dried @ 103 °C)	---	0.1	26.0	25.7	26.6	23.4
<b>EP: Aggregate Organics</b>						
EP005: Total Organic Carbon	---	0.05	0.51	---	---	---



Page Number : 4 of 18  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520626

Sub-Matrix: SOLID	Client sample ID		Client sampling date / time		RESIDUE AF		RESIDUE BF		RESIDUE BF	
	CAS Number	LOR	Unit	Unit	15-JUN-2015 17:25	15-JUN-2015 18:10	15-JUN-2015 10:30	15-JUN-2015 11:00	15-JUN-2015 16:20	HK1520626-010
EA/ED: Physical and Aggregate Properties					HK1520626-006	HK1520626-007	HK1520626-008	HK1520626-009	HK1520626-010	
EA002: pH Value	---	0.1	pH Unit		10.5	10.5	10.7	10.8	10.8	
EA055: Moisture Content (dried @ 103 °C)	---	0.1	%		24.3	25.0	24.5	26.4	24.2	



Page Number : 5 of 18  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520626

Compound	CAS Number	LOR	Client sampling date / time		Client sample ID	
			Unit	Value	Unit	Value
EA002: pH Value	----	0.1	pH Unit	16-JUN-2015 16:25	RESIDUE BF	16-JUN-2015 13:10
	----	0.1	%	HK1520626-011	HK1520626-012	HK1520626-015
EA055: Moisture Content (dried @ 103 °C)	----	0.1	%	16-JUN-2015 16:35	RESIDUE BF	16-JUN-2015 08:20
	----	0.1	%	HK1520626-013	HK1520626-014	HK1520626-015

Sub-Matrix: SOLID

EA/ED: Physical and Aggregate Properties

Property	Value	Unit
EA002: pH Value	10.8	pH Unit
EA055: Moisture Content (dried @ 103 °C)	24.0	%
RESIDUE BF	10.9	
RESIDUE BF	10.8	
RESIDUE BF	10.7	
RESIDUE BF	25.6	
RESIDUE BF	19.6	
RESIDUE BF	10.7	
RESIDUE BF	23.0	



Page Number : 6 of 18  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520626

Sub-Matrix: SOLID

Compound	Client sample ID		LOR	Unit	Client sampling date / time			
	CAS Number	RESIDUE BF			RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
EA002: pH Value	----	16-JUN-2015 09:40	0.1	pH unit	16-JUN-2015 15:00	16-JUN-2015 14:30	16-JUN-2015 12:05	16-JUN-2015 14:40
EA055: Moisture Content (dried @ 103 °C)	----	16-JUN-2015 09:40	0.1	%	16-JUN-2015 15:00	16-JUN-2015 14:30	16-JUN-2015 12:05	16-JUN-2015 14:40
		HK1520626-016			HK1520626-017	HK1520626-018	HK1520626-019	HK1520626-020
					10.8	10.5	10.5	10.4
					24.7	26.5	23.5	23.2

EA/ED: Physical and Aggregate Properties



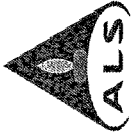
Page Number : 7 of 18  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520626

Sub-Matrix: SOLID	Client sample ID		Client sampling data / time		Client sampling data / time		Client sampling data / time	
	Compound	CAS Number	LOR	Unit	RESIDUE AF	RESIDUE AF	ASH 中聞灰	ASH A 中聞灰
EA/ED: Physical and Aggregate Properties					16-JUN-2015 17:45	16-JUN-2015 12:30	16-JUN-2015 11:20	16-JUN-2015 10:50
EA002: pH Value	----		0.1	pH Unit	HK1520626-021	HK1520626-022	HK1520626-024	HK1520626-025
EA055: Moisture Content (dried @ 103°C)	----		0.1	%	10.4	10.6	9.4	9.4
					24.9	24.1	17.7	26.8



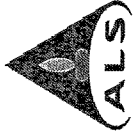
Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AF	RESIDUE AF
Compound	CAS Number	LOR	Client sampling date / time	Unit	15-JUN-2015 12:00	15-JUN-2015 12:00	15-JUN-2015 12:00	15-JUN-2015 12:00
					HK1520626-001	HK1520626-002	HK1520626-003	HK1520626-004
<b>EG: Metals and Major Cations - Filtered</b>								
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	<1	<1	1	<1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1		mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	<1	<1	<1	<1
<b>Sample Preparation Method</b>								
<b>E-TCLP: Extraction Fluid</b>								
Number	----	.		---	1	1	1	1





Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE BF	RESIDUE BF	RESIDUE BF
Compound	CAS Number	LOR	Client sampling date / time	Unit	15-JUN-2015 12:00	15-JUN-2015 12:00	15-JUN-2015 12:00	15-JUN-2015 12:00
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	<1	<1	1	<1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1		mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	<1	1	<1	<1
Sample Preparation Method								
E-TCLP: Extraction Fluid								
Number	----	-	-	..	1	1	2	2



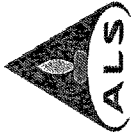


Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE BF		RESIDUE AF		RESIDUE AF		RESIDUE AF	
Compound	CGS Number	LGR	Client sampling date / time	Unit	16-JUN-2015 12:00	16-JUN-2015 12:00	16-JUN-2015 12:00	16-JUN-2015 12:00	16-JUN-2015 12:00	16-JUN-2015 12:00	16-JUN-2015 12:00
EG: Metals and Major Cations - Filtered											
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	1	<1	<1	2	<1	1	<1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	<1	<1	<1	<1	1	<1	<1
Sample Preparation Method											
E-TCLP: Extraction Fluid											
Number					2	1	1	1	2	1	1



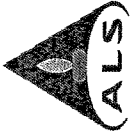
Sub-Matrix: TCLP LEACHATE

Compound	Client sample ID		LOR	Unit	RESIDUE AF	RESIDUE AF	ASH 中閘灰	ASH A 中閘灰	ASH A 中閘灰
	CAS Number	Client sampling date / time			16-JUN-2015 12:00	16-JUN-2015 12:00	16-JUN-2015 12:00	16-JUN-2015 12:00	16-JUN-2015 12:00
<b>EG: Metals and Major Cations - Filtered</b>									
EG020: Antimony	7440-36-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2		1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3		1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7		1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9		1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3		1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8		1	mg/kg	<1	<1	1	1	1
EG020: Lead	7439-92-1		1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6		0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2		0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4		1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5		1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2		1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6		1	mg/kg	<1	<1	<1	<1	<1
<b>Sample Preparation Method</b>									
E-TCLP: Extraction Fluid									
Number	----		-	..	1	1	1	1	1



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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3961335)</b>								
HK1520626-001	RESIDUE AE	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	26.0	25.9	0.5
HK1520626-011	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	24.0	24.2	0.7
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3961336)</b>								
HK1520626-021	RESIDUE AF	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	24.9	24.9	0.0
HK1520628-006	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	20.2	20.3	0.6
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3961353)</b>								
HK1520626-001	RESIDUE AE	EA002: pH Value	----	0.1	pH Unit	10.5	10.5	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3961354)</b>								
HK1520626-021	RESIDUE AF	EA002: pH Value	----	0.1	pH Unit	10.4	10.4	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3963410)</b>								
HK1520626-001	RESIDUE AE	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	26.0	25.9	0.5
<b>EP: Aggregate Organics (QC Lot: 3965844)</b>								
HK1520470-001	Anonymous	EP005: Total Organic Carbon	----	0.05	%	1.06	1.08	1.6
HK1521127-001	Anonymous	EP005: Total Organic Carbon	----	0.05	%	<0.05	<0.05	0.0
<b>Matrix: WATER</b>								
Laboratory sample ID	Client sample ID	Method/Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3962120)</b>								
HK1520626-002	RESIDUE AE	EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2	0.0
		EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	<0.2	0.0
		EG020: Antimony	7440-36-0	1	mg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	1	mg/L	<1	<1	0.0
		EG020: Barium	7440-39-3	1	mg/L	<1	<1	0.0
		EG020: Beryllium	7440-41-7	1	mg/L	<1	<1	0.0
		EG020: Cadmium	7440-43-9	1	mg/L	<1	<1	0.0
		EG020: Chromium	7440-47-3	1	mg/L	<1	<1	0.0
		EG020: Copper	7440-50-8	1	mg/L	<1	<1	0.0
		EG020: Lead	7439-92-1	1	mg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	mg/L	<1	<1	0.0
		EG020: Silver	7440-22-4	1	mg/L	<1	<1	0.0
		EG020: Thallium	7440-28-0	1	mg/L	<1	<1	0.0
		EG020: Tin	7440-31-5	1	mg/L	<1	<1	0.0
		EG020: Vanadium	7440-62-2	1	mg/L	<1	<1	0.0
		EG020: Zinc	7440-66-6	1	mg/L	<1	<1	0.0
HK1520626-010	RESIDUE BF	EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2	0.0
		EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	<0.2	0.0



Page Number : 14 of 18  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520626

Laboratory Duplicate (DP) Report									
Laboratory sample ID	Client sample ID	Method/Compound	CS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3962120) - Continued</b>									
HK1520626-010	RESIDUE BF	EG020: Antimony	7440-36-0	1	mg/L	<L	<L	0.0	
		EG020: Arsenic	7440-38-2	1	mg/L	<L	<L	0.0	
		EG020: Barium	7440-39-3	1	mg/L	<L	<L	0.0	
		EG020: Beryllium	7440-41-7	1	mg/L	<L	<L	0.0	
		EG020: Cadmium	7440-43-9	1	mg/L	<L	<L	0.0	
		EG020: Chromium	7440-47-3	1	mg/L	<L	<L	0.0	
		EG020: Copper	7440-50-8	1	mg/L	1	1	0.0	
		EG020: Lead	7439-92-1	1	mg/L	<L	<L	0.0	
		EG020: Nickel	7440-02-0	1	mg/L	<L	<L	0.0	
		EG020: Silver	7440-22-4	1	mg/L	<L	<L	0.0	
		EG020: Thallium	7440-28-0	1	mg/L	<L	<L	0.0	
		EG020: Tin	7440-31-5	1	mg/L	<L	<L	0.0	
		EG020: Vanadium	7440-62-2	1	mg/L	<L	<L	0.0	
		EG020: Zinc	7440-66-6	1	mg/L	<L	<L	0.0	
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3962121)</b>									
HK1520626-022	RESIDUE AF	EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2	0.0	
		EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	0.2	0.0	
		EG020: Antimony	7440-36-0	1	mg/L	<L	<L	0.0	
		EG020: Arsenic	7440-38-2	1	mg/L	<L	<L	0.0	
		EG020: Barium	7440-39-3	1	mg/L	<L	<L	0.0	
		EG020: Beryllium	7440-41-7	1	mg/L	<L	<L	0.0	
		EG020: Cadmium	7440-43-9	1	mg/L	<L	<L	0.0	
		EG020: Chromium	7440-47-3	1	mg/L	<L	<L	0.0	
		EG020: Copper	7440-50-8	1	mg/L	<L	<L	0.0	
		EG020: Lead	7439-92-1	1	mg/L	<L	<L	0.0	
		EG020: Nickel	7440-02-0	1	mg/L	<L	<L	0.0	
		EG020: Silver	7440-22-4	1	mg/L	<L	<L	0.0	
		EG020: Thallium	7440-28-0	1	mg/L	<L	<L	0.0	
		EG020: Tin	7440-31-5	1	mg/L	<L	<L	0.0	
		EG020: Vanadium	7440-62-2	1	mg/L	<L	<L	0.0	
		EG020: Zinc	7440-66-6	1	mg/L	<L	<L	0.0	
HK1520628-005	Anonymous	EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2	0.0	
		EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	<0.2	0.0	
		EG020: Antimony	7440-36-0	1	mg/L	<L	<L	0.0	
		EG020: Arsenic	7440-38-2	1	mg/L	<L	<L	0.0	
		EG020: Barium	7440-39-3	1	mg/L	<L	<L	0.0	
		EG020: Beryllium	7440-41-7	1	mg/L	<L	<L	0.0	
		EG020: Cadmium	7440-43-9	1	mg/L	<L	<L	0.0	
		EG020: Chromium	7440-47-3	1	mg/L	<L	<L	0.0	
		EG020: Copper	7440-50-8	1	mg/L	1	1	0.0	
		EG020: Lead	7439-92-1	1	mg/L	<L	<L	0.0	
		EG020: Nickel	7440-02-0	1	mg/L	<L	<L	0.0	
		EG020: Silver	7440-22-4	1	mg/L	<L	<L	0.0	



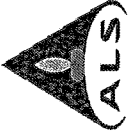
Matrix: WATER		Laboratory Duplicate (DLP) Report						
Laboratory Sample ID	Client Sample ID	Method/Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3962121) - Continued</b>								
HK1520628-005	Anonymous	EG020: Thallium	7440-28-0	1	mg/L	<1	<1	0.0
		EG020: Tin	7440-31-5	1	mg/L	<1	<1	0.0
		EG020: Vanadium	7440-62-2	1	mg/L	<1	<1	0.0
		EG020: Zinc	7440-66-6	1	mg/L	2	1	0.0

**Method Blank (MB), 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	Spike Recovery (%)	DCS	Recovery Limits Low	Recovery Limits High	Value	RPD (%)	Control Limit
EP: Aggregate Organics (QC Lot: 3965844)			%	<0.05	40 %	98.5	----	91	115	----	----	----
EP005: Total Organic Carbon		0.05	%									

Matrix: WATER		Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method/Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits Low	Recovery Limits High	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3962120)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	96.8	----	76	118	----	----	----
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	104	----	72	124	----	----	----
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	96.3	----	80	120	----	----	----
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	97.3	----	74	122	----	----	----
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	93.0	----	79	117	----	----	----
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	91.7	----	78	120	----	----	----
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	107	----	78	118	----	----	----
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	95.5	----	79	115	----	----	----
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	92.8	----	76	120	----	----	----
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	93.4	----	78	120	----	----	----
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	104	----	81	119	----	----	----
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	99.7	----	76	114	----	----	----
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	96.7	----	81	113	----	----	----
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	95.7	----	79	119	----	----	----
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	111	----	78	124	----	----	----
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	107	----	70	130	----	----	----

Matrix: WATER		Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method/Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits Low	Recovery Limits High	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3962121)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	95.2	----	76	118	----	----	----
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	103	----	72	124	----	----	----
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	98.8	----	80	120	----	----	----
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	88.7	----	74	122	----	----	----
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	96.7	----	79	117	----	----	----
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	89.5	----	78	120	----	----	----
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	104	----	78	118	----	----	----
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	95.4	----	79	115	----	----	----



Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	Recovery Limits	RPD (%)		
					LCS	DCS	Low	High	Value	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3962121) - Continued</b>										
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	106	76	120	----	----
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	91.2	78	120	----	----
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	102	81	119	----	----
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	97.0	76	114	----	----
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	95.9	81	113	----	----
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	97.6	79	119	----	----
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	105	78	124	----	----
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	86.4	70	130	----	----

Matrix: WATER

Method: Chromad





Page Number : 17 of 18  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520626

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

Matrix: SOIL

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MSD	Recovery Limits Low (%)	High (%)	Value	RPD (%)
HK1519316-015	Anonymous	EP005: Total Organic Carbon	----	40 %	110	75	125	----	----

Method: WATER

HP: Aggregate Organics (QC Lot: 3965844)

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MSD	Recovery Limits Low (%)	High (%)	Value	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 3962120)									
HK1520626-001	RESIDUE AE	EG020: Antimony	7440-36-0	1 mg/L	103	75	125	----	----
		EG020: Arsenic	7440-38-2	1 mg/L	110	75	125	----	----
		EG020: Barium	7440-39-3	1 mg/L	102	75	125	----	----
		EG020: Beryllium	7440-41-7	1 mg/L	95.9	75	125	----	----
		EG020: Cadmium	7440-43-9	1 mg/L	98.2	75	125	----	----
		EG020: Chromium	7440-47-3	1 mg/L	96.2	75	125	----	----
		EG020: Copper	7440-50-8	1 mg/L	91.8	75	125	----	----
		EG020: Lead	7439-92-1	1 mg/L	94.7	75	125	----	----
		EG020: Mercury	7439-97-6	0.02 mg/L	94.0	75	125	----	----
		EG020: Nickel	7440-02-0	1 mg/L	95.3	75	125	----	----
		EG020: Selenium	7782-49-2	1 mg/L	116	75	125	----	----
		EG020: Silver	7440-22-4	1 mg/L	91.9	75	125	----	----
		EG020: Thallium	7440-28-0	1 mg/L	100	75	125	----	----
		EG020: Tin	7440-31-5	1 mg/L	99.8	75	125	----	----
		EG020: Vanadium	7440-62-2	1 mg/L	118	75	125	----	----
		EG020: Zinc	7440-66-6	1 mg/L	89.8	75	125	----	----

EG: Metals and Major Cations - Filtered (QC Lot: 3962121)

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MSD	Recovery Limits Low (%)	High (%)	Value	RPD (%)
HK1520626-021	RESIDUE AF	EG020: Antimony	7440-36-0	1 mg/L	102	75	125	----	----
		EG020: Arsenic	7440-38-2	1 mg/L	106	75	125	----	----
		EG020: Barium	7440-39-3	1 mg/L	104	75	125	----	----
		EG020: Beryllium	7440-41-7	1 mg/L	87.6	75	125	----	----
		EG020: Cadmium	7440-43-9	1 mg/L	97.5	75	125	----	----
		EG020: Chromium	7440-47-3	1 mg/L	93.4	75	125	----	----
		EG020: Copper	7440-50-8	1 mg/L	90.3	75	125	----	----
		EG020: Lead	7439-92-1	1 mg/L	92.2	75	125	----	----
		EG020: Mercury	7439-97-6	0.02 mg/L	102	75	125	----	----
		EG020: Nickel	7440-02-0	1 mg/L	88.2	75	125	----	----
		EG020: Selenium	7782-49-2	1 mg/L	117	75	125	----	----
		EG020: Silver	7440-22-4	1 mg/L	93.1	75	125	----	----
		EG020: Thallium	7440-28-0	1 mg/L	92.9	75	125	----	----
		EG020: Tin	7440-31-5	1 mg/L	96.4	75	125	----	----
		EG020: Vanadium	7440-62-2	1 mg/L	105	75	125	----	----



Page Number : 18 of 18  
 Client : VW-VES(HK) LTD  
 Work Order : HK1520626

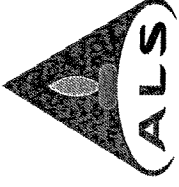
Matrix: WATER Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory Sample ID	Client Sample ID	Method: Compound	CAS Number	Spike Recovery(%)		Recovery Limits		RPD(%)	Control Limit
				MS	MSD	Low (%)	High		
EG: Metals and Major Cations - Filtered (QC Lot: 3962121) - Continued									
HK1520626-021 RESIDUE AF		EG020: Zinc	7440-66-6	89.0	----	75	125	----	----

1 mg/L

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 9
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1520628
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 17-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 19-JUN-2015
Project	: *****	Quote number	: *****	No. of samples received	: 9
Order number	: *****			No. of samples analysed	: 9
C-C-C number	: *****				
Site	: *****				

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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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Page Number : 2 of 9  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order : HK1520628

#### 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: 18-JUN-2015

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: **HK1520628**

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

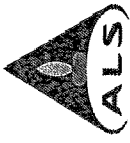
Sample(s) analysed and reported on an as received basis.

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98.





Page Number : 4 of 9  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520628

Sub-Matrix: SOLID

Compound	CAS Number	LOF	Client sampling date / time		Unit
			ASH BE	ASH BE	
			16-JUN-2015 13:40	16-JUN-2015 10:10	
			HK1520628-006	HK1520628-007	
<b>EA/ED: Physical and Aggregate Properties</b>					
EA002: pH Value	--	0.1	9.7	9.7	9.9
EA055: Moisture Content (dried @ 103°C)	--	0.1	20.2	37.3	18.4

ASH BE	ASH BE	ASH BE
16-JUN-2015 09:00	16-JUN-2015 15:45	
HK1520628-008	HK1520628-009	



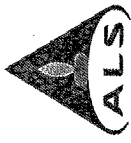






**Laboratory Duplicate (DUP) Report**

Laboratory sample ID		Client sample ID	Method/Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
<b>Matrix: SOIL</b>											
<b>EA1ED: Physical and Aggregate Properties (QC Lot: 3961336)</b>											
HK1520626-021	Anonymous		EA055: Moisture Content (dried @ 103°C)		0.1	%	24.9	24.9	0.0		
HK1520628-006	ASH BE		EA055: Moisture Content (dried @ 103°C)		0.1	%	20.2	20.3	0.6		
<b>EA1ED: Physical and Aggregate Properties (QC Lot: 3961354)</b>											
HK1520626-021	Anonymous		EA002: pH Value		0.1	pH Unit	10.4	10.4	0.0		
<b>Matrix: WATER</b>											
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3962121)</b>											
<b>Matrix: WATER</b>											
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3962121)</b>											
Anonymous											
HK1520626-022	Anonymous	EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2	<0.2	0.0		
		EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	0.2	0.2	0.0		
		EG020: Antimony	7440-36-0	1	mg/L	<1	<1	<1	0.0		
		EG020: Arsenic	7440-38-2	1	mg/L	<1	<1	<1	0.0		
		EG020: Barium	7440-39-3	1	mg/L	<1	<1	<1	0.0		
		EG020: Beryllium	7440-41-7	1	mg/L	<1	<1	<1	0.0		
		EG020: Cadmium	7440-43-9	1	mg/L	<1	<1	<1	0.0		
		EG020: Chromium	7440-47-3	1	mg/L	<1	<1	<1	0.0		
		EG020: Copper	7440-50-8	1	mg/L	<1	<1	<1	0.0		
		EG020: Lead	7439-92-1	1	mg/L	<1	<1	<1	0.0		
		EG020: Nickel	7440-02-0	1	mg/L	<1	<1	<1	0.0		
		EG020: Silver	7440-22-4	1	mg/L	<1	<1	<1	0.0		
		EG020: Thallium	7440-28-0	1	mg/L	<1	<1	<1	0.0		
		EG020: Tin	7440-31-5	1	mg/L	<1	<1	<1	0.0		
		EG020: Vanadium	7440-62-2	1	mg/L	<1	<1	<1	0.0		
		EG020: Zinc	7440-66-6	1	mg/L	<1	<1	<1	0.0		
		HK1520628-005	ASH BE	EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2	<0.2	0.0
				EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	<0.2	<0.2	0.0
				EG020: Antimony	7440-36-0	1	mg/L	<1	<1	<1	0.0
				EG020: Arsenic	7440-38-2	1	mg/L	<1	<1	<1	0.0
				EG020: Barium	7440-39-3	1	mg/L	<1	<1	<1	0.0
				EG020: Beryllium	7440-41-7	1	mg/L	<1	<1	<1	0.0
				EG020: Cadmium	7440-43-9	1	mg/L	<1	<1	<1	0.0
EG020: Chromium	7440-47-3			1	mg/L	<1	<1	<1	0.0		
EG020: Copper	7440-50-8			1	mg/L	<1	<1	<1	0.0		
EG020: Lead	7439-92-1			1	mg/L	<1	<1	<1	0.0		
EG020: Nickel	7440-02-0			1	mg/L	<1	<1	<1	0.0		
EG020: Silver	7440-22-4			1	mg/L	<1	<1	<1	0.0		
EG020: Thallium	7440-28-0			1	mg/L	<1	<1	<1	0.0		
EG020: Tin	7440-31-5			1	mg/L	<1	<1	<1	0.0		
EG020: Vanadium	7440-62-2			1	mg/L	<1	<1	<1	0.0		
EG020: Zinc	7440-66-6			1	mg/L	2	1	1	0.0		



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

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 (%)	
						Low	High				
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3962121)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	95.2	—	76	118	—	
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	103	—	72	124	—	
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	98.8	—	80	120	—	
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	88.7	—	74	122	—	
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	96.7	—	79	117	—	
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	89.5	—	78	120	—	
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	104	—	78	118	—	
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	95.4	—	79	115	—	
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	106	—	76	120	—	
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	91.2	—	78	120	—	
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	102	—	81	119	—	
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	97.0	—	76	114	—	
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	95.9	—	81	113	—	
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	97.6	—	79	119	—	
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	105	—	78	124	—	
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	86.4	—	70	130	—	



Page Number : 9 of 9  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1520628

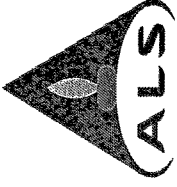
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
				Spike Concentration	MS	MSD	Recovery Limits (%)	Value	RPD (%)	Control Limit			
EG: Metals and Major Cations - Filtered (QC Lot: 3962121)													
HK1520626-021	Anonymous												
		EG020: Antimony	7440-36-0	1 mg/L	102	---	75	125	---	---	---	---	
		EG020: Arsenic	7440-38-2	1 mg/L	106	---	75	125	---	---	---	---	
		EG020: Barium	7440-39-3	1 mg/L	104	---	75	125	---	---	---	---	
		EG020: Beryllium	7440-41-7	1 mg/L	87.6	---	75	125	---	---	---	---	
		EG020: Cadmium	7440-43-9	1 mg/L	97.5	---	75	125	---	---	---	---	
		EG020: Chromium	7440-47-3	1 mg/L	93.4	---	75	125	---	---	---	---	
		EG020: Copper	7440-50-8	1 mg/L	90.3	---	75	125	---	---	---	---	
		EG020: Lead	7439-92-1	1 mg/L	92.2	---	75	125	---	---	---	---	
		EG020: Mercury	7439-97-6	0.02 mg/L	102	---	75	125	---	---	---	---	
		EG020: Nickel	7440-02-0	1 mg/L	88.2	---	75	125	---	---	---	---	
		EG020: Selenium	7782-49-2	1 mg/L	117	---	75	125	---	---	---	---	
		EG020: Silver	7440-22-4	1 mg/L	93.1	---	75	125	---	---	---	---	
		EG020: Thallium	7440-28-0	1 mg/L	92.9	---	75	125	---	---	---	---	
		EG020: Tin	7440-31-5	1 mg/L	96.4	---	75	125	---	---	---	---	
		EG020: Vanadium	7440-62-2	1 mg/L	105	---	75	125	---	---	---	---	
		EG020: Zinc	7440-66-6	1 mg/L	89.0	---	75	125	---	---	---	---	

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client	: VW-VES(HK) LTD	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 15
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1521124
Address	: UNIT 7601, THE CENTER, 99 QUEEN'S ROAD CENTRAL HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044		
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021		
Project	: *****	Quote number	: *****	Date Samples Received	: 19-JUN-2015
Order number	: *****			Issue Date	: 24-JUN-2015
C-O-C number	: *****			No. of samples received	: 21
Site	: *****			No. of samples analysed	: 21

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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

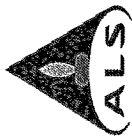
General Manager

Authorised results for

Inorganics

ALS Technichem (HK) Pty Ltd  
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Page Number : 2 of 15  
Client : VW-VES(HK) LTD  
Work Order : HK1521124

#### 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: 23-JUN-2015

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: **HK1521124**

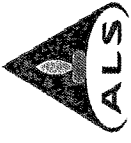
Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



Page Number : 3 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521124

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	Client sampling date / time		LOR	Unit	Client sample ID				
		ASH A MIDDLE	ASH A MIDDLE			RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	
EA002: pH Value	---	17-JUN-2015 11:00	17-JUN-2015 11:00	0.1	pH Unit	9.2	9.4	10.6	10.6	10.6
EA055: Moisture Content (dried @ 103°C)	---	17-JUN-2015 11:00	17-JUN-2015 15:00	0.1	%	17.6	18.3	21.3	22.2	27.1

EA002: pH Value

EA055: Moisture Content (dried @ 103°C)

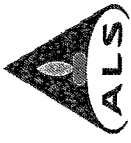


Page Number : 4 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521124

Compound	CAS Number	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE BF	RESIDUE BF	RESIDUE BF
		Client sampling date / time	Unit					
EA/ED: Physical and Aggregate Properties								
EA002: pH Value	—	0.1	pH Unit	10.6	10.6	10.8	10.8	10.8
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	23.5	24.0	23.5	18.1	23.9



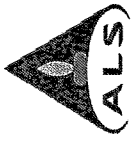




Page Number : 6 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521124

Compound	CAS Number	Client sampling date / time		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE BF
		LOR	Unit					
EA002: pH Value	---	0.1	pH Unit	18-JUN-2015 08:10	18-JUN-2015 08:40	18-JUN-2015 15:05	18-JUN-2015 16:30	18-JUN-2015 10:40
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	HK1521124-016	HK1521124-017	HK1521124-018	HK1521124-019	HK1521124-020
EA/ED: Physical and Aggregate Properties								
				10.7	10.6	10.6	10.7	10.7
				26.7	26.5	25.1	28.7	14.7

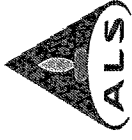
Sub-Matrix: SOLID



Page Number : 7 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521124

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
			RESIDUE BF	
			17-JUN-2015 12:00	
			HK1521124-021	
<b>EA/ED: Physical and Aggregate Properties</b>				
EA002: pH Value	---	0.1	pH Unit	10.8
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	24.7



Page Number : 8 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521124

Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
		Client sampling date / time	Unit				
		LOR					
<b>EG: Metals and Major Cations - Filtered</b>							
EG020: Antimony	7440-36-0	1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-8	1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	1	1	2	2	2
EG020: Lead	7439-92-1	1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	<1	1	1	1	1
<b>Sample Preparation Method</b>							
E-TCLP: Extraction Fluid Number							
		-	1	1	2	2	2



Sub-Matrix: TCLP LEACHATE

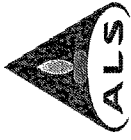
Compound	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE BF	RESIDUE BF	RESIDUE BF
	CAS Number	Unit					
<b>EG: Metals and Major Cations - Filtered</b>							
EG020: Antimony	7440-36-0	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	mg/kg	2	1	1	1	1
EG020: Lead	7439-92-1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	mg/kg	<0.2	<0.2	<0.2	<0.2	0.2
EG020: Silver	7440-22-4	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	mg/kg	1	1	1	1	<1
<b>Sample Preparation Method</b>							
E-TCLP: Extraction Fluid Number	---	-	2	2	2	2	2







Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE BF
Compound	CAS Number	LOR	Client sampling date / time	Unit
<b>EC: Metals and Major Cations - Filtered</b>				
EG020: Antimony	7440-36-0	1		mg/kg
EG020: Arsenic	7440-38-2	1		mg/kg
EG020: Barium	7440-39-3	1		mg/kg
EG020: Beryllium	7440-41-7	1		mg/kg
EG020: Cadmium	7440-43-9	1		mg/kg
EG020: Chromium	7440-47-3	1		mg/kg
EG020: Copper	7440-50-8	1		mg/kg
EG020: Lead	7439-92-1	1		mg/kg
EG020: Mercury	7439-97-6	0.2		mg/kg
EG020: Nickel	7440-02-0	1		mg/kg
EG020: Selenium	7782-49-2	0.2		mg/kg
EG020: Silver	7440-22-4	1		mg/kg
EG020: Thallium	7440-28-0	1		mg/kg
EG020: Tin	7440-31-5	1		mg/kg
EG020: Vanadium	7440-62-2	1		mg/kg
EG020: Zinc	7440-66-6	1		mg/kg
<b>Sample Preparation Method</b>				
E-TCLP: Extraction Fluid Number				
				2



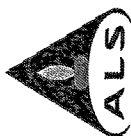
**Laboratory Duplicate (DUP) Report**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report		
				LOR	Original Result	Duplicate Result
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964335)</b>						
HK1521124-001	ASH A MIDDLE	EA055: Moisture Content (dried @ 103°C)	—	17.6	17.4	1.2
HK1521124-011	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	—	24.0	23.9	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964336)</b>						
HK1521124-021	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	—	24.7	24.1	2.4
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964337)</b>						
HK1521124-001	ASH A MIDDLE	EA002: pH Value	—	9.2	9.3	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964338)</b>						
HK1521124-021	RESIDUE BF	EA002: pH Value	—	10.8	10.8	0.0

**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	LCS	DCS	Recovery Limits (%)	Value	Control Limit	RPD (%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955546)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	99.7	—	76	118	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	101	—	72	124	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	105	—	80	120	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	101	—	74	122	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	98.0	—	79	117	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	102	—	78	120	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	106	—	78	118	—	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	97.5	—	79	115	—	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	97.8	—	76	120	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	100	—	78	120	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	107	—	81	119	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	105	—	76	114	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	95.1	—	81	113	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	104	—	79	119	—	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	102	—	78	124	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	94.4	—	70	130	—	—
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3955547)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	105	—	76	118	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	114	—	72	124	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	107	—	80	120	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	117	—	74	122	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	103	—	79	117	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	113	—	78	120	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	110	—	78	118	—	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	96.0	—	79	115	—	—





Page Number : 14 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521124

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicates (DCS) Report								
Matrix	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
Method: Compound												
EG: Metals and Major Cations - Filtered (QC Lot: 3965547) - Continued												
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	98.1	—	—	76	120	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	106	—	—	78	120	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	102	—	—	81	119	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	107	—	—	76	114	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	93.8	—	—	81	113	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	107	—	—	79	119	—	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	113	—	—	78	124	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	102	—	—	70	130	—	—



Page Number : 15 of 15  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521124

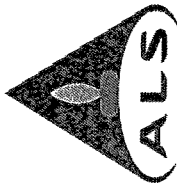
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)	
				Low	High	Value	Control Limit		
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965546)</b>									
HK1521124-001	ASH A MIDDLE	EG020: Antimony	7440-36-0	1 mg/L	103	---	75	125	---
		EG020: Arsenic	7440-38-2	1 mg/L	113	---	75	125	---
		EG020: Barium	7440-39-3	1 mg/L	106	---	75	125	---
		EG020: Beryllium	7440-41-7	1 mg/L	102	---	75	125	---
		EG020: Cadmium	7440-43-9	1 mg/L	102	---	75	125	---
		EG020: Chromium	7440-47-3	1 mg/L	105	---	75	125	---
		EG020: Copper	7440-50-8	1 mg/L	82.6	---	75	125	---
		EG020: Lead	7439-92-1	1 mg/L	89.3	---	75	125	---
		EG020: Mercury	7439-97-6	0.02 mg/L	95.7	---	75	125	---
		EG020: Nickel	7440-02-0	1 mg/L	99.3	---	75	125	---
		EG020: Selenium	7782-49-2	1 mg/L	117	---	75	125	---
		EG020: Silver	7440-22-4	1 mg/L	95.5	---	75	125	---
		EG020: Thallium	7440-28-0	1 mg/L	88.4	---	75	125	---
		EG020: Tin	7440-31-5	1 mg/L	103	---	75	125	---
		EG020: Vanadium	7440-62-2	1 mg/L	110	---	75	125	---
		EG020: Zinc	7440-66-6	1 mg/L	80.5	---	75	125	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965547)</b>									
HK1521124-021	RESIDUE BF	EG020: Antimony	7440-36-0	1 mg/L	112	---	75	125	---
		EG020: Arsenic	7440-38-2	1 mg/L	124	---	75	125	---
		EG020: Barium	7440-39-3	1 mg/L	114	---	75	125	---
		EG020: Beryllium	7440-41-7	1 mg/L	122	---	75	125	---
		EG020: Cadmium	7440-43-9	1 mg/L	109	---	75	125	---
		EG020: Chromium	7440-47-3	1 mg/L	117	---	75	125	---
		EG020: Copper	7440-50-8	1 mg/L	88.3	---	75	125	---
		EG020: Lead	7439-92-1	1 mg/L	87.6	---	75	125	---
		EG020: Mercury	7439-97-6	0.02 mg/L	116	---	75	125	---
		EG020: Nickel	7440-02-0	1 mg/L	106	---	75	125	---
		EG020: Selenium	7782-49-2	1 mg/L	102	---	75	125	---
		EG020: Silver	7440-22-4	1 mg/L	76.7	---	75	125	---
		EG020: Thallium	7440-28-0	1 mg/L	85.7	---	75	125	---
		EG020: Tin	7440-31-5	1 mg/L	113	---	75	125	---
		EG020: Vanadium	7440-62-2	1 mg/L	89.8	---	75	125	---
		EG020: Zinc	7440-66-6	1 mg/L	90.6	---	75	125	---

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 8
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1521127
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 22-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 07-JUL-2015
Project	: -----	Quote number	: -----	No. of samples received	: 8
Order number	: -----			No. of samples analysed	: 8
C-O-C number	: -----				
Site	: -----				

This report may not be reproduced except with prior written approval from the testing laboratory.

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

Fung Lim Chee, Richard

General Manager

Authorised results for

Inorganics

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group

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Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com



Page Number : 2 of 8  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order : HK1521127

**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: 23-JUN-2015

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: HK1521127

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

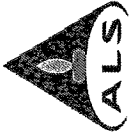
Sample(s) analysed and reported on an as received basis.

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.

Dioxins and Furans were subcontracted to and analysed by ALS Czech Republic.



**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sampling date / time	Client sample ID			
				ASH BE	ASH BE	ASH BE	ASH BE
				17-JUN-2015 09:00	17-JUN-2015 10:00	17-JUN-2015 12:10	17-JUN-2015 13:00
			Unit	HK1521127-001	HK1521127-002	HK1521127-003	HK1521127-004
<b>EA/ED: Physical and Aggregate Properties</b>							
EA002: pH Value	---	0.1	pH Unit	9.8	9.8	9.7	9.7
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	15.6	15.7	18.0	16.9
<b>EP: Aggregate Organics</b>							
EP005: Total Organic Carbon	---	0.05	%	<0.05	---	---	---



Page Number : 4 of 8  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521127

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
			ASH BE	ASH BE
			18-JUN-2015 09:20	18-JUN-2015 18:15
			HK1521127-006	HK1521127-008
<b>EAJED: Physical and Aggregate Properties</b>				
EA002: pH Value	---	0.1	9.7	9.7
EA055: Moisture Content (dried @ 103°C)	---	0.1	23.9	20.3
			9.6	17.1





Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LOR	Client sampling date / time			
			Unit	ASH BE	ASH BE	ASH BE
EG: Metals and Major Cations - Filtered						
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	2	2	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	1	2	1
Sample Preparation Method						
E-TCLP: Extraction Fluid Number						
				1	1	1





**Laboratory Duplicate (DUP) Report**

Laboratory sample ID		Client sample ID	Method: Compound	LOR	CAS Number	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964336)</b>									
HK1521124-021	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1		%	24.7	24.1	2.4
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964338)</b>									
HK1521124-021	Anonymous	EA002: pH Value		0.1		pH Unit	10.8	10.8	0.0
<b>EP: Aggregate Organics (QC Lot: 3965844)</b>									
HK1520470-001	Anonymous	EP005: Total Organic Carbon		0.05		%	1.06	1.08	1.6
HK1521127-001	ASH BE	EP005: Total Organic Carbon		0.05		%	<0.05	<0.05	0.0

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

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	RPD (%)
<b>EP: Aggregate Organics (QC Lot: 3965844)</b>										
EP005: Total Organic Carbon		0.05	%	<0.05	40 %	96.5		91 115		

Matrix: WATER

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	RPD (%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965548)</b>										
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	106		76 118		
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	117		72 124		
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	112		80 120		
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	120		74 122		
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	107		79 117		
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	115		78 120		
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	115		78 118		
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	95.7		79 115		
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	95.8		76 120		
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	106		78 120		
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	110		81 119		
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	109		76 114		
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	94.8		81 113		
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	109		79 119		
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	119		78 124		
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	102		70 130		

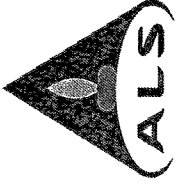


**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Laboratory sample ID		Client sample ID	Method: Compound	CAS Number	Spike Concentration	MS	Spike Recovery (%)	MSD	Low	High	Value	RPD (%)	Control Limit
Matrix: SOIL													
EP: Aggregate Organics (QC Lot: 3965844)													
HK1519316-015	Anonymous		EP006: Total Organic Carbon		40 %	110	---	---	75	125	---	---	---
Matrix: WATER													
EG: Metals and Major Cations - Filtered (QC Lot: 3965548)													
HK1521127-001	ASH BE												
			EG020: Antimony	7440-38-0	1 mg/L	107	---	---	75	125	---	---	---
			EG020: Arsenic	7440-38-2	1 mg/L	119	---	---	75	125	---	---	---
			EG020: Barium	7440-39-3	1 mg/L	109	---	---	75	125	---	---	---
			EG020: Beryllium	7440-41-7	1 mg/L	123	---	---	75	125	---	---	---
			EG020: Cadmium	7440-43-9	1 mg/L	105	---	---	75	125	---	---	---
			EG020: Chromium	7440-47-3	1 mg/L	114	---	---	75	125	---	---	---
			EG020: Copper	7440-50-8	1 mg/L	80.8	---	---	75	125	---	---	---
			EG020: Lead	7439-92-1	1 mg/L	90.6	---	---	75	125	---	---	---
			EG020: Mercury	7439-97-6	0.02 mg/L	93.0	---	---	75	125	---	---	---
			EG020: Nickel	7440-02-0	1 mg/L	104	---	---	75	125	---	---	---
			EG020: Selenium	7782-49-2	1 mg/L	108	---	---	75	125	---	---	---
			EG020: Silver	7440-22-4	1 mg/L	89.0	---	---	75	125	---	---	---
			EG020: Thallium	7440-28-0	1 mg/L	89.7	---	---	75	125	---	---	---
			EG020: Tin	7440-31-5	1 mg/L	110	---	---	75	125	---	---	---
			EG020: Vanadium	7440-62-2	1 mg/L	121	---	---	75	125	---	---	---
			EG020: Zinc	7440-66-6	1 mg/L	78.4	---	---	75	125	---	---	---

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client : VW-VES(HK) LTD  
Contact : MS JENNIFER CHAN  
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Telephone : +852 2910 9709  
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Project : ----  
Order number : ----  
C-O-C number : ----  
Site : ----

Laboratory : ALS Technichem (HK) Pty Ltd  
Contact : Fung Lim Chee, Richard  
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N.T., Hong Kong  
1  
E-mail : Richard.Fung@alsglobal.com  
Telephone : +852 2610 1044  
Facsimile : +852 2610 2021  
Quote number : ----

Page : 1 of 16  
Work Order : HK1521286

Date Samples Received : 22-JUN-2015  
Issue Date : 24-JUN-2015  
No. of samples received : 23  
No. of samples analysed : 23

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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

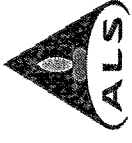
General Manager

#### Authorised results for

Inorganics

ALS Technichem (HK) Pty Ltd  
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Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com



Page Number : 2 of 16  
Client : VW-VES(HK) LTD  
Work Order : HK1521286

#### *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: 23-JUN-2015

Key: IOR = 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: **HK1521286**

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



Page Number : 3 of 16  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521286

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sample ID			
			Client sampling date / time	ASH A 中間灰	RESIDUE BF	RESIDUE BF
			Unit	Unit	Unit	Unit
EA002: pH Value	----	0.1	pH Unit	9.6	10.9	11.0
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	15.2	24.9	22.4
				9.5	20.5	10.8
				19-JUN-2015 13:40	19-JUN-2015 13:20	19-JUN-2015 11:20
				HK1521286-001	HK1521286-002	HK1521286-004
				19-JUN-2015 16:05	19-JUN-2015 16:05	19-JUN-2015 15:10
				HK1521286-003	HK1521286-003	HK1521286-005



Page Number : 4 of 16  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521286

Compound	Client sample ID		CAS Number	LGR	Client sampling date / time	Unit	RESIDUE AF					
	RESIDUE AF	RESIDUE AF					RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
	19-JUN-2015 18:00	19-JUN-2015 17:15			19-JUN-2015 16:30	19-JUN-2015 08:40	19-JUN-2015 07:30	HK1521286-006	HK1521286-007	HK1521286-008	HK1521286-009	HK1521286-010
EA/ED: Physical and Aggregate Properties												
EA002: pH Value	---	0.1			pH Unit	10.8	10.7	10.7	10.6	10.7	10.7	10.7
EA055: Moisture Content (dried @ 103°C)	---	0.1			%	29.6	27.7	24.7	24.7	24.7	23.4	23.4



Page Number : 5 of 16  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521286

Compound	Client sample ID		Client sampling date / time		RESIDUE BF		RESIDUE BF		RESIDUE AF		RESIDUE AF	
	CAS Number	LQR	Unit	Unit	20-JUN-2015 12:45	20-JUN-2015 11:00	20-JUN-2015 08:00	20-JUN-2015 15:15	20-JUN-2015 13:40	20-JUN-2015 15:15	20-JUN-2015 13:40	20-JUN-2015 13:40
EA/ED: Physical and Aggregate Properties					HK1521286-011	HK1521286-012	HK1521286-013	HK1521286-014	HK1521286-015			
EA002: pH Value	---	0.1	pH Unit		10.9	10.8	10.8	10.7	10.7			10.7
EA055: Moisture Content (dried @ 103°C)	---	0.1	%		24.8	23.0	23.3	27.3	26.9			26.9

Page Number : 6 of 16  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521286



Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sampling date / time		Client sample ID			
			Unit	Unit	RESIDUE AF	RESIDUE AF		
EA002: pH Value	---	0.1	pH Unit	20-JUN-2015 16:00	20-JUN-2015 13:20	21-JUN-2015 16:45	21-JUN-2015 08:20	21-JUN-2015 17:45
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	HK1521286-016	HK1521286-017	HK1521286-018	HK1521286-019	HK1521286-020
				10.7	10.7	10.7	10.6	10.6
				26.2	24.7	21.8	24.8	24.4

EA/ED: Physical and Aggregate Properties





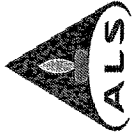
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 Client : VW-VES(HK) LTD  
 Work Order : HK1521286

Sub-Matrix: SOLID	Client sample ID		Client sampling date / time	
	CAS Number	LOR	Unit	Unit
			RESIDUE AF	ASH A 中灰
			21-JUN-2015 07:30	21-JUN-2015 16:00
			HK1521286-021	HK1521286-022
<b>EA/ED: Physical and Aggregate Properties</b>				
EA002: pH Value	---	0.1	pH Unit	10.6
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	23.2
				9.7
				15.8





Compound	Client sample ID		Client sampling date / time				Residue AF	Residue AF	Residue AF	Residue AF
	CAS Number	LOR	Unit	19-JUN-2015 12:00	19-JUN-2015 12:00	19-JUN-2015 12:00				
Sub-Matrix: TCLP LEACHATE										
EG: Metals and Major Cations - Filtered										
EG020: Antimony	7440-36-0	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	ng/kg	1	1	1	1	1	1	1
EG020: Lead	7439-92-1	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	ng/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	ng/kg	0.3	0.4	0.4	0.4	0.4	0.4	0.3
EG020: Silver	7440-22-4	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	ng/kg	<1	<1	<1	<1	<1	<1	<1
Sample Preparation Method										
E-TCLP: Extraction Fluid Number	----	-	--	2	2	2	2	2	2	2

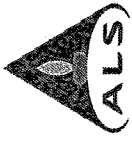


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 Client : VW-VBS(HK) LTD  
 Work Order : HK1521286

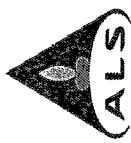
Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE AF	RESIDUE AF
Compound	CAS Number	LOR	Client sampling date / time	Unit	20-JUN-2015 12:00	20-JUN-2015 12:00	20-JUN-2015 12:00	20-JUN-2015 12:00
					HK1521286-011	HK1521286-012	HK1521286-013	HK1521286-014
<b>EG: Metals and Major Cations - Filtered</b>								
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	<1	<1	1	1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	0.4	0.4	0.4	0.3
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1		mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	<1	<1	<1	<1
<b>Sample Preparation Method</b>								
<b>E-TCLP: Extraction Fluid</b>								
Number	----	-		--	2	2	2	2



Sub-Matrix: TOLP LEACHATE		Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
Compound	CAS Number	LQR	Client sampling date / time	Unit	20-JUN-2015 12:00	20-JUN-2015 12:00	23-JUN-2015 12:00	23-JUN-2015 12:00
					HK1521286-016	HK1521286-017	HK1521286-018	HK1521286-019
<b>EG: Metals and Major Cations - Filtered</b>								
EG020: Antimony	7440-36-0	1		ng/kg	<1	<1	<1	<1
EG020: Arsenic	7440-33-2	1		ng/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		ng/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		ng/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		ng/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		ng/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		ng/kg	2	1	1	1
EG020: Lead	7439-92-1	1		ng/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		ng/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		ng/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		ng/kg	0.3	0.3	0.4	0.4
EG020: Silver	7440-22-4	1		ng/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		ng/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		ng/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1		ng/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		ng/kg	<1	<1	<1	<1
<b>Sample Preparation Method</b>								
E-TCLP: Extraction Fluid								
Number	----	-	--		2	2	2	2



Sub-Matrix: TOLP LEACHATE		Client sample ID		Client sampling date / time		
Compound	CAS Number	LOR	Unit	RESIDUE AF	ASH A 中灰	ASH A 中灰
<b>EG: Metals and Major Cations - Filtered</b>						
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	1	1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	0.4	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1
EG020: Vanadium	7440-02-2	1	mg/kg	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	1	<1
<b>Sample Preparation Method</b>						
E-TCLP: Extraction Fluid	----	-	--	2	1	1



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 Client : VW-VES(HK) LTD  
 Work Order : HK1521286

Laboratory Duplicate (DUP) Report

Matrix: SOIL		Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Client sample ID	Method/Compound	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964706)</b>							
HK1521286-001	ASH A 中閘灰	EA055: Moisture Content (dried @ 103°C)	0.1	%	15.2	15.1	0.0
HK1521286-011	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	0.1	%	24.8	24.9	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964707)</b>							
HK1521286-021	RESIDUE AF	EA055: Moisture Content (dried @ 103°C)	0.1	%	23.2	23.5	1.6
HK1521289-008	Anonymous	EA055: Moisture Content (dried @ 103°C)	0.1	%	17.7	17.3	2.3
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964875)</b>							
HK1521286-001	ASH A 中閘灰	EA002: pH Value	0.1	pH Unit	9.6	9.6	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964876)</b>							
HK1521286-021	RESIDUE AF	EA002: pH Value	0.1	pH Unit	10.6	10.7	0.0

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

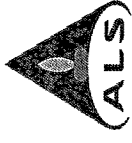
Matrix: WATER		Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method/Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Low	Recovery High	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965637)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	105	----	76	118	-----	-----	-----
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	113	----	72	124	-----	-----	-----
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	114	----	80	120	-----	-----	-----
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	113	----	74	122	-----	-----	-----
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	106	----	79	117	-----	-----	-----
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	106	----	78	120	-----	-----	-----
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	114	----	78	118	-----	-----	-----
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	107	----	79	115	-----	-----	-----
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	105	----	76	120	-----	-----	-----
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	107	----	78	120	-----	-----	-----
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	107	----	81	119	-----	-----	-----
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	114	----	76	114	-----	-----	-----
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	104	----	81	113	-----	-----	-----
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	108	----	79	119	-----	-----	-----
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	108	----	78	124	-----	-----	-----
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	97.4	----	70	130	-----	-----	-----
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965639)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	109	----	76	118	-----	-----	-----
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	119	----	72	124	-----	-----	-----
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	111	----	80	120	-----	-----	-----
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	116	----	74	122	-----	-----	-----



MATRIX: WATER

Method Compound		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits Low	Recovery Limits High	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965639) - Continued</b>												
EG020: Cadmium	7440-43-9	0.1 mg/L	<0.1	1 mg/L	107	---	---	79	117	---	---	---
EG020: Chromium	7440-47-3	1 mg/L	<1	1 mg/L	112	---	---	78	120	---	---	---
EG020: Copper	7440-50-8	1 mg/L	<1	1 mg/L	111	---	---	78	118	---	---	---
EG020: Lead	7439-92-1	1 mg/L	<1	1 mg/L	99.9	---	---	79	115	---	---	---
EG020: Mercury	7439-97-6	0.1 mg/L	<0.1	0.02 mg/L	102	---	---	76	120	---	---	---
EG020: Nickel	7440-02-0	1 mg/L	<1	1 mg/L	106	---	---	78	120	---	---	---
EG020: Selenium	7782-49-2	0.2 mg/L	<0.2	1 mg/L	118	---	---	81	119	---	---	---
EG020: Silver	7440-22-4	1 mg/L	<1	1 mg/L	109	---	---	76	114	---	---	---
EG020: Thallium	7440-28-0	1 mg/L	<1	1 mg/L	97.4	---	---	81	113	---	---	---
EG020: Tin	7440-31-5	1 mg/L	<1	1 mg/L	111	---	---	79	119	---	---	---
EG020: Vanadium	7440-62-2	1 mg/L	<1	1 mg/L	116	---	---	78	124	---	---	---
EG020: Zinc	7440-66-6	1 mg/L	<1	1 mg/L	102	---	---	70	130	---	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965642)</b>												
EG020: Antimony	7440-36-0	1 mg/L	<1	1 mg/L	105	---	---	76	118	---	---	---
EG020: Arsenic	7440-38-2	1 mg/L	<1	1 mg/L	118	---	---	72	124	---	---	---
EG020: Barium	7440-39-3	1 mg/L	<1	1 mg/L	112	---	---	80	120	---	---	---
EG020: Beryllium	7440-41-7	1 mg/L	<1	1 mg/L	103	---	---	74	122	---	---	---
EG020: Cadmium	7440-43-9	0.1 mg/L	<0.1	1 mg/L	106	---	---	79	117	---	---	---
EG020: Chromium	7440-47-3	1 mg/L	<1	1 mg/L	114	---	---	78	120	---	---	---
EG020: Copper	7440-50-8	1 mg/L	<1	1 mg/L	113	---	---	78	118	---	---	---
EG020: Lead	7439-92-1	1 mg/L	<1	1 mg/L	96.4	---	---	79	115	---	---	---
EG020: Mercury	7439-97-6	0.1 mg/L	<0.1	0.02 mg/L	104	---	---	76	120	---	---	---
EG020: Nickel	7440-02-0	1 mg/L	<1	1 mg/L	105	---	---	78	120	---	---	---
EG020: Selenium	7782-49-2	0.2 mg/L	<0.2	1 mg/L	108	---	---	81	119	---	---	---
EG020: Silver	7440-22-4	1 mg/L	<1	1 mg/L	108	---	---	76	114	---	---	---
EG020: Thallium	7440-28-0	1 mg/L	<1	1 mg/L	94.3	---	---	81	113	---	---	---
EG020: Tin	7440-31-5	1 mg/L	<1	1 mg/L	109	---	---	79	119	---	---	---
EG020: Vanadium	7440-62-2	1 mg/L	<1	1 mg/L	117	---	---	78	124	---	---	---
EG020: Zinc	7440-66-6	1 mg/L	<1	1 mg/L	108	---	---	70	130	---	---	---





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

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Conc'd	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report			RPD(%)	
				Spike Concentration	MSD	Recovery Limits		
				MS	Low (%)	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3965637)								
HK1521286-001	ASH A 中間灰	EG020: Antimony	7440-36-0	110	75	125	---	---
		EG020: Arsenic	7440-38-2	118	75	125	---	---
		EG020: Barium	7440-39-5	111	75	125	---	---
		EG020: Beryllium	7440-41-7	118	75	125	---	---
		EG020: Cadmium	7440-43-9	107	75	125	---	---
		EG020: Chromium	7440-47-3	109	75	125	---	---
		EG020: Copper	7440-50-8	98.4	75	125	---	---
		EG020: Lead	7439-92-1	101	75	125	---	---
		EG020: Mercury	7439-97-6	103	75	125	---	---
		EG020: Nickel	7440-02-0	106	75	125	---	---
		EG020: Selenium	7782-49-2	119	75	125	---	---
		EG020: Silver	7440-22-4	84.2	75	125	---	---
		EG020: Thallium	7440-28-0	100	75	125	---	---
		EG020: Tin	7440-31-5	111	75	125	---	---
		EG020: Vanadium	7440-62-2	118	75	125	---	---
		EG020: Zinc	7440-66-6	87.5	75	125	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 3965639)								
HK1521286-011	RESIDUE BF	EG020: Antimony	7440-36-0	113	75	125	---	---
		EG020: Arsenic	7440-38-2	123	75	125	---	---
		EG020: Barium	7440-39-5	114	75	125	---	---
		EG020: Beryllium	7440-41-7	121	75	125	---	---
		EG020: Cadmium	7440-43-9	107	75	125	---	---
		EG020: Chromium	7440-47-3	115	75	125	---	---
		EG020: Copper	7440-50-8	92.4	75	125	---	---
		EG020: Lead	7439-92-1	88.1	75	125	---	---
		EG020: Mercury	7439-97-6	112	75	125	---	---
		EG020: Nickel	7440-02-0	104	75	125	---	---
		EG020: Selenium	7782-49-2	125	75	125	---	---
		EG020: Silver	7440-22-4	86.2	75	125	---	---
		EG020: Thallium	7440-28-0	86.4	75	125	---	---
		EG020: Tin	7440-31-5	112	75	125	---	---
		EG020: Vanadium	7440-62-2	125	75	125	---	---
		EG020: Zinc	7440-66-6	95.9	75	125	---	---
EG: Metals and Major Cations - Filtered (QC Lot: 3965642)								
HK1521286-018	RESIDUE AF	EG020: Antimony	7440-36-0	114	75	125	---	---
		EG020: Arsenic	7440-38-2	121	75	125	---	---
		EG020: Barium	7440-39-5	114	75	125	---	---
		EG020: Beryllium	7440-41-7	117	75	125	---	---
		EG020: Cadmium	7440-43-9	108	75	125	---	---



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 Client : VW-VES(HK) LTD  
 Work Order : HK1521286

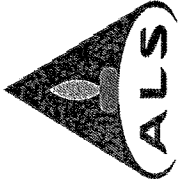
Matrix: WATER

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		RPD (%)	Control Limit
				MS	MSD	MSD	MS	Low (%)	High		
EG: Metals and Major Cations - Filtered (QC Lot: 3965642) - Continued HK1521286-018 RESIDUE AF		EG020: Chromium	7440-47-3	1 mg/L	117	-----	75	125	-----	-----	-----
		EG020: Copper	7440-50-8	1 mg/L	85.6	-----	75	125	-----	-----	-----
		EG020: Lead	7439-92-1	1 mg/L	89.2	-----	75	125	-----	-----	-----
		EG020: Mercury	7439-97-6	0.02 mg/L	102	-----	75	125	-----	-----	-----
		EG020: Nickel	7440-02-0	1 mg/L	106	-----	75	125	-----	-----	-----
		EG020: Selenium	7782-49-2	1 mg/L	123	-----	75	125	-----	-----	-----
		EG020: Silver	7440-22-4	1 mg/L	85.9	-----	75	125	-----	-----	-----
		EG020: Thallium	7440-28-0	1 mg/L	87.0	-----	75	125	-----	-----	-----
		EG020: Tin	7440-31-5	1 mg/L	112	-----	75	125	-----	-----	-----
		EG020: Vanadium	7440-62-2	1 mg/L	122	-----	75	125	-----	-----	-----
		EG020: Zinc	7440-66-6	1 mg/L	83.6	-----	75	125	-----	-----	-----

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 12
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1521289
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 22-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 14-JUL-2015
Project	: ----	Quote number	: ----	No. of samples received	: 14
Order number	: ----			No. of samples analysed	: 14
C-C-C number	: ----				
Site	: ----				

This report may not be reproduced except with prior written approval from the testing laboratory.

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

Fung Lim Chee, Richard

General Manager

Inorganics

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group

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Page Number : 2 of 12  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order HK1521289

**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: 24-JUN-2015

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: **HK1521289**

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.

Dioxins and Furans were subcontracted to and analysed by ALS Czech Republic.





Page Number : 4 of 12  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521289

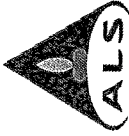
Compound	CAS Number	LOR	Client sample ID		ASH BE	ASH BE	ASH BE	ASH BE	ASH BE
			Client sampling date / time	Unit					
EA/ED: Physical and Aggregate Properties									
EA002: pH Value	---	0.1	pH Unit	19-JUN-2015 12:30	9.9	9.9	9.9	9.9	9.8
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	19-JUN-2015 12:30	18.8	18.7	17.7	20.7	17.9
				19-JUN-2015 12:30	HK1521289-006	HK1521289-007	HK1521289-008	HK1521289-009	HK1521289-010

Sub-Matrix: SOLID



Page Number : 5 of 12  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521289

Compound	CAS Number	Client sampling date / time		Client sample ID	
		LOR	Unit	ASH BE	RESIDUE BE
<b>Sub-Matrix: SOLID</b>					
<b>EA/ED: Physical and Aggregate Properties</b>					
EA002: pH Value	—	0.1	pH Unit	9.8	10.9
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	21.3	21.0
<b>EP: Aggregate Organics</b>					
EP005: Total Organic Carbon	—	0.05	%	—	0.78
				21-JUN-2015 12:30	21-JUN-2015 13:20
				HK1521289-012	HK1521289-014
				9.7	11.1
				16.0	4.4



Compound	CAS Number	Client sample ID		Unit	ASH BE	ASH BE	ASH BE	ASH BE	ASH BE
		Client sampling date / time	LOR						
Sub-Matrix: TCLP LEACHATE									
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-5	1		mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	1	1	1	1	1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-65-2	1		mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	1	1	1	1	1
Sample Preparation Method									
E-TCLP: Extraction Fluid Number									
					1	1	1	1	1





Sub-Matrix: TCLP LEACHATE		Client sample ID		ASH BE	ASH BE	ASH BE	ASH BE	ASH BE	ASH BE
Compound	CAS Number	LOR	Client sampling date / time	Unit	19-JUN-2015 12:00	20-JUN-2015 12:00	20-JUN-2015 12:00	21-JUN-2015 12:00	21-JUN-2015 12:00
					HK1521289-006	HK1521289-007	HK1521289-008	HK1521289-009	HK1521289-010
<b>EG: Metals and Major Cations - Filtered</b>									
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	1	1	1	1	1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1		mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	1	1	1	1	1
<b>Sample Preparation Method</b>									
E-TCLP: Extraction Fluid Number									
					1	1	1	1	1



Sub-Matrix: TCLP LEACHATE		Client sample ID		Client sampling date / time		Client sampling date / time		Client sampling date / time		Client sampling date / time	
Compound	CAS Number	LOR	Unit	ASH BE	ASH BE	ASH BE	RESIDUE BE	RESIDUE BE	RESIDUE BE	RESIDUE BE	RESIDUE BE
EG: Metals and Major Cations - Filtered											
EG020: Antimony	7440-38-0	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	1	1	1	1	1	1	1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-65-2	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	2	2	2	2	2	2	2	2
Sample Preparation Method											
E-TCLP: Extraction Fluid Number											
				1	1	1	2	2	2	2	2



**Laboratory Duplicate (DUP) Report**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicates (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964707)</b>								
HK1521286-021	Anonymous	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	23.2	23.5	1.6
HK1521289-008	ASH BE	EA055: Moisture Content (dried @ 103°C)	---	0.1	%	17.7	17.3	2.3
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3964876)</b>								
HK1521286-021	Anonymous	EA002: pH Value	---	0.1	pH Unit	10.6	10.7	0.0
<b>EP: Aggregate Organics (QC Lot: 3965844)</b>								
HK1520470-001	Anonymous	EP005: Total Organic Carbon	---	0.05	%	1.06	1.08	1.6
HK1521127-001	Anonymous	EP005: Total Organic Carbon	---	0.05	%	<0.05	<0.05	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 Concentration	Spike Recovery (%)	DCS	Low	High	Value	RPD (%)
<b>EP: Aggregate Organics (QC Lot: 3965844)</b>											
EP005: Total Organic Carbon	---	0.05	%	<0.05	40 %	98.5	91	115	---	---	---

Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)	DCS	Low	High	Value	RPD (%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965675)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	106	76	118	---	---	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	105	72	124	---	---	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	112	80	120	---	---	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	104	74	122	---	---	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	109	79	117	---	---	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	116	78	120	---	---	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	110	78	118	---	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	106	79	115	---	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	100	76	120	---	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	111	78	120	---	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	111	81	119	---	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	102	76	114	---	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	105	81	113	---	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	98.1	79	119	---	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	110	78	124	---	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	110	70	130	---	---	---

Method: Compound	CAS Number	LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)	DCS	Low	High	Value	RPD (%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965678)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	105	76	118	---	---	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	106	72	124	---	---	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	112	80	120	---	---	---



Method: Compound		CAS Number		LOR		Unit		Result		Spike Concentration		Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
												LCS		DCS		Value	
Matrix: WATER																	
Method Blank (MB) Report																	
Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report																	
EG: Metals and Major Cations - Filtered (QC Lot: 3955678) - Continued																	
EG020: Beryllium		7440-41-7		1	mg/L		<1		1 mg/L	108		74	122				
EG020: Cadmium		7440-43-9		0.1	mg/L		<0.1		1 mg/L	107		79	117				
EG020: Chromium		7440-47-3		1	mg/L		<1		1 mg/L	116		78	120				
EG020: Copper		7440-50-8		1	mg/L		<1		1 mg/L	111		78	118				
EG020: Lead		7439-92-1		1	mg/L		<1		1 mg/L	104		79	115				
EG020: Mercury		7439-97-6		0.1	mg/L		<0.1		0.02 mg/L	108		76	120				
EG020: Nickel		7440-02-0		1	mg/L		<1		1 mg/L	109		78	120				
EG020: Selenium		7782-49-2		0.2	mg/L		<0.2		1 mg/L	114		81	119				
EG020: Silver		7440-22-4		1	mg/L		<1		1 mg/L	99.6		76	114				
EG020: Thallium		7440-28-0		1	mg/L		<1		1 mg/L	103		81	113				
EG020: Tin		7440-31-5		1	mg/L		<1		1 mg/L	96.8		79	119				
EG020: Vanadium		7440-62-2		1	mg/L		<1		1 mg/L	110		78	124				
EG020: Zinc		7440-66-6		1	mg/L		<1		1 mg/L	113		70	130				
EG: Metals and Major Cations - Filtered (QC Lot: 3955681)																	
EG020: Antimony		7440-36-0		1	mg/L		<1		1 mg/L	111		76	118				
EG020: Arsenic		7440-38-2		1	mg/L		<1		1 mg/L	100		72	124				
EG020: Barium		7440-39-3		1	mg/L		<1		1 mg/L	111		80	120				
EG020: Beryllium		7440-41-7		1	mg/L		<1		1 mg/L	104		74	122				
EG020: Cadmium		7440-43-9		0.1	mg/L		<0.1		1 mg/L	108		79	117				
EG020: Chromium		7440-47-3		1	mg/L		<1		1 mg/L	117		78	120				
EG020: Copper		7440-50-8		1	mg/L		<1		1 mg/L	109		78	118				
EG020: Lead		7439-92-1		1	mg/L		<1		1 mg/L	102		79	115				
EG020: Mercury		7439-97-6		0.1	mg/L		<0.1		0.02 mg/L	100		76	120				
EG020: Nickel		7440-02-0		1	mg/L		<1		1 mg/L	107		78	120				
EG020: Selenium		7782-49-2		0.2	mg/L		<0.2		1 mg/L	106		81	119				
EG020: Silver		7440-22-4		1	mg/L		<1		1 mg/L	103		76	114				
EG020: Thallium		7440-28-0		1	mg/L		<1		1 mg/L	101		81	113				
EG020: Tin		7440-31-5		1	mg/L		<1		1 mg/L	102		79	119				
EG020: Vanadium		7440-62-2		1	mg/L		<1		1 mg/L	111		78	124				
EG020: Zinc		7440-66-6		1	mg/L		<1		1 mg/L	110		70	130				



Page Number : 11 of 12  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521289

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

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)					
EP: Aggregate Organics (QC Lot: 3965844)													
HK1519316-015	Anonymous	EP005: Total Organic Carbon		40 %	110		75	125					
Matrix: WATER													
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)					
EG: Metals and Major Cations - Filtered (QC Lot: 3965675)													
HK1521289-001	ASH BE												
		EG020: Antimony	7440-36-0	1 mg/L	107		75	125					
		EG020: Arsenic	7440-38-2	1 mg/L	99.1		75	125					
		EG020: Barium	7440-39-3	1 mg/L	111		75	125					
		EG020: Beryllium	7440-41-7	1 mg/L	106		75	125					
		EG020: Cadmium	7440-43-9	1 mg/L	105		75	125					
		EG020: Chromium	7440-47-3	1 mg/L	113		75	125					
		EG020: Copper	7440-50-8	1 mg/L	99.7		75	125					
		EG020: Lead	7439-92-1	1 mg/L	99.6		75	125					
		EG020: Mercury	7439-97-6	0.02 mg/L	91.8		75	125					
		EG020: Nickel	7440-02-0	1 mg/L	106		75	125					
		EG020: Selenium	7782-49-2	1 mg/L	114		75	125					
		EG020: Silver	7440-22-4	1 mg/L	80.4		75	125					
		EG020: Thallium	7440-28-0	1 mg/L	99.0		75	125					
		EG020: Tin	7440-31-5	1 mg/L	95.2		75	125					
		EG020: Vanadium	7440-62-2	1 mg/L	116		75	125					
		EG020: Zinc	7440-68-6	1 mg/L	108		75	125					
EG: Metals and Major Cations - Filtered (QC Lot: 3965678)													
HK1521289-007	ASH BE												
		EG020: Antimony	7440-36-0	1 mg/L	110		75	125					
		EG020: Arsenic	7440-38-2	1 mg/L	101		75	125					
		EG020: Barium	7440-39-3	1 mg/L	110		75	125					
		EG020: Beryllium	7440-41-7	1 mg/L	106		75	125					
		EG020: Cadmium	7440-43-9	1 mg/L	106		75	125					
		EG020: Chromium	7440-47-3	1 mg/L	117		75	125					
		EG020: Copper	7440-50-8	1 mg/L	98.9		75	125					
		EG020: Lead	7439-92-1	1 mg/L	101		75	125					
		EG020: Mercury	7439-97-6	0.02 mg/L	99.4		75	125					
		EG020: Nickel	7440-02-0	1 mg/L	108		75	125					
		EG020: Selenium	7782-49-2	1 mg/L	117		75	125					
		EG020: Silver	7440-22-4	1 mg/L	87.4		75	125					
		EG020: Thallium	7440-28-0	1 mg/L	99.4		75	125					
		EG020: Tin	7440-31-5	1 mg/L	100		75	125					

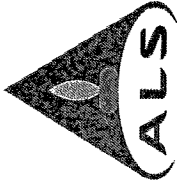


Page Number : 12 of 12  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521289

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		Value	RPD (%)
					MS	MSD	Low	High		
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965678) - Continued</b>										
HK1521289-007	ASH BE	EG020: Vanadium	7440-62-2	1 mg/L	119	---	75	125	---	---
		EG020: Zinc	7440-66-6	1 mg/L	108	---	75	125	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3965681)</b>										
HK1521289-009	ASH BE	EG020: Antimony	7440-36-0	1 mg/L	103	---	75	125	---	---
		EG020: Arsenic	7440-38-2	1 mg/L	108	---	75	125	---	---
		EG020: Barium	7440-39-3	1 mg/L	112	---	75	125	---	---
		EG020: Beryllium	7440-41-7	1 mg/L	107	---	75	125	---	---
		EG020: Cadmium	7440-43-9	1 mg/L	107	---	75	125	---	---
		EG020: Chromium	7440-47-3	1 mg/L	117	---	75	125	---	---
		EG020: Copper	7440-50-8	1 mg/L	105	---	75	125	---	---
		EG020: Lead	7439-92-1	1 mg/L	98.7	---	75	125	---	---
		EG020: Mercury	7439-97-6	0.02 mg/L	97.0	---	75	125	---	---
		EG020: Nickel	7440-02-0	1 mg/L	109	---	75	125	---	---
		EG020: Selenium	7782-49-2	1 mg/L	117	---	75	125	---	---
		EG020: Silver	7440-22-4	1 mg/L	92.8	---	75	125	---	---
		EG020: Thallium	7440-28-0	1 mg/L	99.0	---	75	125	---	---
		EG020: Tin	7440-31-5	1 mg/L	95.1	---	75	125	---	---
		EG020: Vanadium	7440-62-2	1 mg/L	121	---	75	125	---	---
		EG020: Zinc	7440-66-6	1 mg/L	109	---	75	125	---	---

# ALS Technichem (HK) Pty Ltd

**ALS Laboratory Group**  
ANALYTICAL CHEMISTRY & TESTING SERVICES



## CERTIFICATE OF ANALYSIS

Client : VW-VES(HK) LTD  
Contact : MS JENNIFER CHAN  
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Telephone : +852 2910 9709  
Facsimile : +852 2430 8011  
Project : ----  
Order number : ----  
C-O-C number : ----  
Site : ----

Laboratory : ALS Technichem (HK) Pty Ltd  
Contact : Fung Lim Chee, Richard  
Address : 11/F., Chung Shun Knitting Centre, 1  
- 3 Wing Yip Street, Kwai Chung,  
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E-mail : Richard.Fung@alsglobal.com  
Telephone : +852 2610 1044  
Facsimile : +852 2610 2021  
Quote number : ----

Page : 1 of 19  
Work Order : HK1521575

Date Samples Received : 24-JUN-2015  
Issue Date : 26-JUN-2015  
No. of samples received : 34  
No. of samples analysed : 34

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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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Page Number : 2 of 19  
Client : VW-VES(HK) LTD  
Work Order HK1521575

**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: 25-JUN-2015

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: HK1521575

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.





Page Number : 3 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521575

**Analytical Results**

Sub-Matrix: SOLID

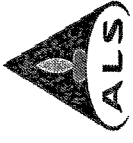
Compound	CAS Number	LQR	Unit	Client sample ID				
				Client sampling date / time	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
				22-JUN-2015 08:10	22-JUN-2015 16:40	22-JUN-2015 17:15	22-JUN-2015 07:30	22-JUN-2015 12:55
				HK1521575-001	HK1521575-002	HK1521575-003	HK1521575-004	HK1521575-005
<b>EA/ED: Physical and Aggregate Properties</b>								
EA002: pH Value	----	0.1	pH Unit	10.9	10.8	10.8	11.1	10.8
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	22.8	23.6	24.0	4.8	27.9

Page Number : 4 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521575



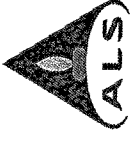
Compound	CAS Number	LOR	Client sampling date / time		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
			Unit	Unit				
EA/ED: Physical and Aggregate Properties								
EA002: pH Value	---	0.1	pH Unit	22-JUN-2015 14:00	22-JUN-2015 12:30	22-JUN-2015 10:00	22-JUN-2015 18:00	RESIDUE BF
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	HK1521575-006	HK1521575-007	HK1521575-008	HK1521575-009	RESIDUE BF
				11.0	11.0	11.0	11.0	11.0
				12.5	5.8	7.8	6.4	5.3

Sub-Matrix: SOLID



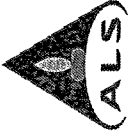
Page Number : 5 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521575

Compound	CAS Number	LQR	Client sampling date / time		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
			Unit	Unit				
EA002: pH Value	----	0.1	22-JUN-2015 11:00	23-JUN-2015 14:30	10.9	10.9	10.8	10.9
EA055: Moisture Content (dried @ 103 °C)	----	0.1	HK1521575-011	HK1521575-012	24.8	19.9	24.5	25.5
Sub-Matrix: SOLID								
EA/ED: Physical and Aggregate Properties								
Client sample ID								
RESIDUE BF								
23-JUN-2015 13:00								
HK1521575-015								



Compound	CAS Number	LQR	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	ASH BF
			Client sampling date / time	Unit					
Sub-Matrix: SOLID			23-JUN-2015 14:45	HK1521575-016	23-JUN-2015 12:20	23-JUN-2015 15:35	23-JUN-2015 15:15	23-JUN-2015 10:20	
					HK1521575-017	HK1521575-018	HK1521575-019	HK1521575-020	
<b>EA/ED: Physical and Aggregate Properties</b>									
EA002: pH Value	----	0.1	10.9		10.8	10.7	10.7	9.8	
EA055: Moisture Content (dried @ 103°C)	----	0.1	28.6		25.8	23.6	28.0	12.4	

Page Number : 7 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521575



Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sample ID				
			Client sampling date / time	ASH BF	ASH BF	ASH BF	
	Unit						
EA002: pH Value	---	0.1	pH Unit	23-JUN-2015 09:00	23-JUN-2015 10:40	23-JUN-2015 10:40	23-JUN-2015 10:00
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	HK1521575-021	HK1521575-022	HK1521575-024	HK1521575-025
				9.4	9.6	9.5	9.4
				15.2	12.9	12.1	14.4

EA/ED: Physical and Aggregate Properties





Page Number : 9 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521575

Compound	Client sample ID		Client sampling date / time		Client sampling date / time		Client sampling date / time	
	CAS Number	LQR	Unit	Unit	Unit	Unit	Unit	Unit
EA002: pH Value	----	0.1	pH Unit	9.5	9.6	9.6	9.5	9.5
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	14.8	17.3	26.9	16.6	16.6
Sub-Matrix: SOLID								
ASH BF 23-JUN-2015 07:30 HK1521575-031								
ASH A 中灰 23-JUN-2015 12:50 HK1521575-032								
ASH A COMMON 灰 23-JUN-2015 09:30 HK1521575-033								
ASH A COMMON 灰 23-JUN-2015 14:05 HK1521575-034								

EA/ED: Physical and Aggregate Properties



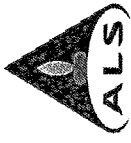
Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AF		RESIDUE AF		RESIDUE AF		RESIDUE AF	
Compound	CAS Number	LQR	Client sampling date / time	Unit	22-JUN-2015 12:00	22-JUN-2015 12:00	22-JUN-2015 12:00	22-JUN-2015 12:00	22-JUN-2015 12:00	22-JUN-2015 12:00	22-JUN-2015 12:00
					HK1521575-001	HK1521575-002	HK1521575-003	HK1521575-004	HK1521575-005	HK1521575-005	HK1521575-005
<b>EG: Metals and Major Cations - Filtered</b>											
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	<1	1	1	<1	<1	<1	<1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	0.2	<0.2	0.2	<0.2	<0.2	0.2	<1
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-52-2	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-56-6	1		mg/kg	<1	<1	<1	<1	<1	<1	<1
<b>Sample Preparation Method</b>											
E-TCLP: Extraction Fluid											
Number	----	-	--	--	2	2	2	2	2	2	2





Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LOR	Client sampling date / time		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
			Unit	Unit					
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Arsenic	7440-38-2	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Barium	7440-39-3	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Beryllium	7440-41-7	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Cadmium	7440-43-9	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Chromium	7440-47-3	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Copper	7440-50-8	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Lead	7439-92-1	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	22-JUN-2015 12:00	<0.2	22-JUN-2015 12:00	<0.2	22-JUN-2015 12:00	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	22-JUN-2015 12:00	0.3	22-JUN-2015 12:00	<0.2	22-JUN-2015 12:00	<0.2
EG020: Silver	7440-22-4	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Thallium	7440-28-0	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Tin	7440-31-5	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Vanadium	7440-62-2	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
EG020: Zinc	7440-66-6	1	mg/kg	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1	22-JUN-2015 12:00	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid									
Number	----	-	--		2		2		2



Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LOR	Client sampling date / time		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
			Unit	Unit					
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	22-JUN-2015 12:00	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	22-JUN-2015 12:00	0.2	<0.2	<0.2	<0.2	0.2
EG020: Silver	7440-22-4	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Vanadium	7440-02-2	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	22-JUN-2015 12:00	<1	<1	<1	<1	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid									
Number	----	.	--		2	2	2	2	2



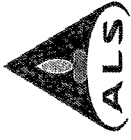
Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	ASH BF
ent sampling date / time		23-JUN-2015 12:00	23-JUN-2015 12:00	23-JUN-2015 12:00	23-JUN-2015 12:00	23-JUN-2015 12:00	23-JUN-2015 12:00
LQR	Unit	HK1521575-016	HK1521575-017	HK1521575-018	HK1521575-019	HK1521575-020	
1	mg/kg	<1	<1	<1	<1	<1	<1
1	mg/kg	<1	<1	<1	<1	<1	<1
1	mg/kg	<1	<1	<1	<1	<1	<1
1	mg/kg	<1	<1	<1	<1	<1	<1
1	mg/kg	<1	<1	<1	<1	<1	<1
1	mg/kg	1	1	<1	<1	<1	<1
1	mg/kg	<1	<1	<1	<1	<1	<1
0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1	mg/kg	<1	<1	<1	<1	<1	<1
0.2	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1	mg/kg	<1	<1	<1	<1	<1	<1
1	mg/kg	<1	<1	<1	<1	<1	<1
1	mg/kg	<1	<1	<1	<1	<1	<1
1	mg/kg	<1	<1	<1	<1	<1	<1
1	mg/kg	<1	<1	<1	<1	<1	<1
-	--	2	2	2	2	2	1





Compound	CAS Number	Client sampling date / time		Client sample ID			
		LOR	Unit	ASH BF	ASH BF	ASH BF	ASH BF
Sub-Matrix: TCLP LEACHATE							
EG: Metals and Major Cations - Filtered							
EG020: Antimony	7440-36-0	1	ng/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	<1	<1	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	<1	<1	<1
Sample Preparation Method							
E-TCLP: Extraction Fluid Number	----	-	..	1	1	1	1





Laboratory Duplicate (DUP) Report

Matrix: SOIL		Laboratory Duplicate (DUP) Report			
Laboratory sample ID	Client sample ID	Method/Compound	LOR	Unit	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3966568)</b>					
HK1521575-001	RESIDUE AF	EA055: Moisture Content (dried @ 103°C)	0.1	%	0.8
HK1521575-011	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	0.1	%	1.5
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3966569)</b>					
HK1521575-021	ASH BF	EA055: Moisture Content (dried @ 103°C)	0.1	%	6.9
HK1521575-031	ASH BF	EA055: Moisture Content (dried @ 103°C)	0.1	%	3.3
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3966577)</b>					
HK1521575-001	RESIDUE AF	EA002: pH Value	0.1	pH Unit	0.0
HK1521575-021	ASH BF	EA002: pH Value	0.1	pH Unit	0.0

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						
Method/Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3967579)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	96.8	---	---	76	118	---	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	109	---	---	80	124	---	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	100	---	---	74	120	---	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	104	---	---	79	122	---	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	98.5	---	---	78	117	---	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	107	---	---	78	120	---	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	99.4	---	---	78	118	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	91.2	---	---	79	115	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	95.0	---	---	76	120	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	99.5	---	---	78	120	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	110	---	---	81	119	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	102	---	---	76	114	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	89.9	---	---	81	113	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	99.1	---	---	79	119	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	107	---	---	78	124	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	100	---	---	70	130	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3967580)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	82.6	---	---	76	118	---	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	90.3	---	---	72	124	---	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	98.3	---	---	80	120	---	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	81.5	---	---	74	122	---	---



Method: WATER

Method Blank (MB) Report

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

Method: Compound	CAS Number	LOR	Unit	Result	Spike Recovery (%)		Recovery Limits		RPD (%)	Control Limit
					LCS	DCS	Low	High		
EG: Metals and Major Cations - Filtered (QC Lot: 3967580) - Continued										
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	89.5	---	79	117	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	96.0	---	78	120	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	97.5	---	78	118	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	89.1	---	79	115	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	104	---	76	120	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	99.6	---	78	120	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	98.6	---	81	119	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	85.8	---	76	114	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	98.8	---	81	113	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	96.9	---	79	119	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	97.1	---	78	124	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	96.2	---	70	130	---





Page Number : 19 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521575

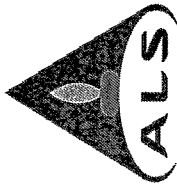
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory Sample ID	Client sample ID	Method/Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	MS	MSD	Recovery Limits	Value	RPD(%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3967579)</b>										
HK1521575-001	RESIDUE AF	EG020: Antimony	7440-36-0	1 mg/L	105	---	75	125	---	---
		EG020: Arsenic	7440-38-2	1 mg/L	108	---	75	125	---	---
		EG020: Barium	7440-39-3	1 mg/L	107	---	75	125	---	---
		EG020: Beryllium	7440-41-7	1 mg/L	116	---	75	125	---	---
		EG020: Cadmium	7440-43-9	1 mg/L	106	---	75	125	---	---
		EG020: Chromium	7440-47-3	1 mg/L	116	---	75	125	---	---
		EG020: Copper	7440-50-8	1 mg/L	85.4	---	75	125	---	---
		EG020: Lead	7439-92-1	1 mg/L	81.8	---	75	125	---	---
		EG020: Mercury	7439-97-6	0.02 mg/L	94.6	---	75	125	---	---
		EG020: Nickel	7440-02-0	1 mg/L	103	---	75	125	---	---
		EG020: Selenium	7782-49-2	1 mg/L	108	---	75	125	---	---
		EG020: Silver	7440-22-4	1 mg/L	88.2	---	75	125	---	---
		EG020: Thallium	7440-28-0	1 mg/L	80.6	---	75	125	---	---
		EG020: Tin	7440-31-5	1 mg/L	107	---	75	125	---	---
		EG020: Vanadium	7440-62-2	1 mg/L	122	---	75	125	---	---
		EG020: Zinc	7440-66-6	1 mg/L	94.0	---	75	125	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3967580)</b>										
HK1521575-021	ASH BF	EG020: Antimony	7440-36-0	1 mg/L	101	---	75	125	---	---
		EG020: Arsenic	7440-38-2	1 mg/L	108	---	75	125	---	---
		EG020: Barium	7440-39-3	1 mg/L	101	---	75	125	---	---
		EG020: Beryllium	7440-41-7	1 mg/L	120	---	75	125	---	---
		EG020: Cadmium	7440-43-9	1 mg/L	102	---	75	125	---	---
		EG020: Chromium	7440-47-3	1 mg/L	112	---	75	125	---	---
		EG020: Copper	7440-50-8	1 mg/L	95.8	---	75	125	---	---
		EG020: Lead	7439-92-1	1 mg/L	83.9	---	75	125	---	---
		EG020: Mercury	7439-97-6	0.02 mg/L	99.6	---	75	125	---	---
		EG020: Nickel	7440-02-0	1 mg/L	102	---	75	125	---	---
		EG020: Selenium	7782-49-2	1 mg/L	123	---	75	125	---	---
		EG020: Silver	7440-22-4	1 mg/L	88.0	---	75	125	---	---
		EG020: Thallium	7440-28-0	1 mg/L	82.0	---	75	125	---	---
		EG020: Tin	7440-31-5	1 mg/L	101	---	75	125	---	---
		EG020: Vanadium	7440-62-2	1 mg/L	117	---	75	125	---	---
		EG020: Zinc	7440-66-6	1 mg/L	95.7	---	75	125	---	---

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 9
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1521581
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 24-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 26-JUN-2015
Project	: ----	Quote number	: ----	No. of samples received	: 7
Order number	: ----			No. of samples analysed	: 7
C-O-C number	: ----				
Site	: ----				

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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**



Page Number : 2 of 9  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order HK1521581

**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: 25-JUN-2015

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: **HK1521581**

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98.



Page Number : 3 of 9  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521581

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sampling date / time		Unit	Client sample ID	ASH BE		ASH BE	
			22-JUN-2015 16:25	22-JUN-2015 15:20			23-JUN-2015 11:00	23-JUN-2015 11:30	23-JUN-2015 13:00	23-JUN-2015 13:00
EA002: pH Value	—	0.1	9.8	9.8	pH Unit	HK1521581-001	9.8	9.7	9.7	9.7
EA055: Moisture Content (dried @ 103°C)	—	0.1	17.0	21.4	%	HK1521581-002	17.0	22.3	16.0	16.8
						HK1521581-003				
						HK1521581-004				
						HK1521581-005				



Page Number : 4 of 9  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521581

Sub-Matrix: SOLID

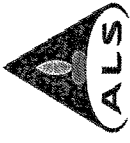
Compound	CAS Number	Client sampling date / time		LOR	Unit	Client sample ID	
		ASH BE	ASH BE			ASH BE	ASH BE
		23-JUN-2015 14:50	23-JUN-2015 11:20			HK1521581-006	HK1521581-007
<b>EA/ED: Physical and Aggregate Properties</b>							
EA002: pH Value	---	0.1	pH Unit	0.1		9.7	9.7
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	0.1		21.1	18.0



Page Number : 5 of 9  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521581

Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LOR	Client sampling date / time				Client sample ID
			ASH BE	ASH BE	ASH BE	ASH BE	
			22-JUN-2015 12:00	22-JUN-2015 12:00	23-JUN-2015 12:00	23-JUN-2015 12:00	23-JUN-2015 12:00
			Unit	Unit	Unit	Unit	Unit
<b>EG: Metals and Major Cations - Filtered</b>							
EG020: Antimony	7440-36-0	1	mg/L	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/L	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/L	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/L	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/L	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/L	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/L	1	1	1	1
EG020: Lead	7439-92-1	1	mg/L	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/L	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/L	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/L	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/L	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/L	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/L	1	1	1	1
<b>Sample Preparation Method</b>							
E-TCLP: Extraction Fluid Number							
				1	1	1	1



Sub-Matrix: TCLP LEACHATE		Client sample ID		Client sampling date / time	
Compound	CAS Number	LOR	Unit	ASH BE	ASH BE
<b>EG: Metals and Major Cations - Filtered</b>					
EG020: Antimony	7440-38-0	1	mg/L	<1	<1
EG020: Arsenic	7440-38-2	1	mg/L	<1	<1
EG020: Barium	7440-39-3	1	mg/L	<1	<1
EG020: Beryllium	7440-41-7	1	mg/L	<1	<1
EG020: Cadmium	7440-43-9	1	mg/L	<1	<1
EG020: Chromium	7440-47-3	1	mg/L	<1	<1
EG020: Copper	7440-50-8	1	mg/L	1	1
EG020: Lead	7439-92-1	1	mg/L	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/L	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/L	<1	<1
EG020: Thallium	7440-28-0	1	mg/L	<1	<1
EG020: Tin	7440-31-5	1	mg/L	<1	<1
EG020: Vanadium	7440-62-2	1	mg/L	<1	<1
EG020: Zinc	7440-66-6	1	mg/L	1	<1
<b>Sample Preparation Method</b>					
E-TCLP: Extraction Fluid Number					
		-	-	1	1



**Laboratory Duplicate (DUP) Report**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report			
				LOR	Unit	Original Result	Duplicate Result
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3966569)</b>							
HK1521575-021	Anonymous	EA055: Moisture Content (dried @ 103°C)	—	%	15.2	16.3	6.9
HK1521575-031	Anonymous	EA056: Moisture Content (dried @ 103°C)	—	%	14.8	15.4	3.3
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3966571)</b>							
HK1521581-007	ASH BE	EA056: Moisture Content (dried @ 103°C)	—	%	18.0	17.6	1.8
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3966578)</b>							
HK1521575-021	Anonymous	EA002: pH Value	—	pH Unit	9.4	9.5	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3966579)</b>							
HK1521581-007	ASH BE	EA002: pH Value	—	pH Unit	9.7	9.7	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 Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value
<b>Method Blank (MB) Report</b>												
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3967580)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	82.6	76	118	—	—	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	90.3	72	124	—	—	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	98.3	80	120	—	—	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	81.5	74	122	—	—	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	89.5	79	117	—	—	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	96.0	78	120	—	—	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	97.5	78	118	—	—	—	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	89.1	79	115	—	—	—	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	104	76	120	—	—	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	99.6	78	120	—	—	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	98.6	81	119	—	—	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	85.8	76	114	—	—	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	98.8	81	113	—	—	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	96.9	79	119	—	—	—	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	97.1	78	124	—	—	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	96.2	70	130	—	—	—	—
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3967581)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	92.9	76	118	—	—	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	102	72	124	—	—	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	99.4	80	120	—	—	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	115	74	122	—	—	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	98.6	79	117	—	—	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	108	78	120	—	—	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	98.6	78	118	—	—	—	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	86.0	79	115	—	—	—	—





Page Number : 8 of 9  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521581

Metric: WATER

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 Low (%)	Recovery High (%)	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3967581) - Continued</b>												
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	94.4	—	76	120	—	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	97.7	—	78	120	—	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	104	—	81	119	—	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	99.1	—	76	114	—	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	85.4	—	81	113	—	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	96.8	—	79	119	—	—	—
EG020: Vanadium	7440-82-2	1	mg/L	<1	1 mg/L	110	—	78	124	—	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	96.7	—	70	130	—	—	—



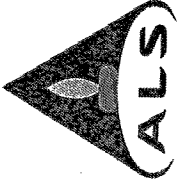
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
				Spike Concentration	MS	MSD	Recovery Limits (%)	RPD (%)	
				Value	High	Low	Control Limit		
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3967580)</b>									
HK1521575-021	Anonymous	EG020: Antimony	7440-36-0	1 mg/L	101	---	75	125	---
		EG020: Arsenic	7440-38-2	1 mg/L	108	---	75	125	---
		EG020: Barium	7440-39-3	1 mg/L	101	---	75	125	---
		EG020: Beryllium	7440-41-7	1 mg/L	120	---	75	125	---
		EG020: Cadmium	7440-43-9	1 mg/L	102	---	75	125	---
		EG020: Chromium	7440-47-3	1 mg/L	112	---	75	125	---
		EG020: Copper	7440-50-8	1 mg/L	95.8	---	75	125	---
		EG020: Lead	7439-92-1	1 mg/L	83.9	---	75	125	---
		EG020: Mercury	7439-97-6	0.02 mg/L	99.6	---	75	125	---
		EG020: Nickel	7440-02-0	1 mg/L	102	---	75	125	---
		EG020: Selenium	7782-49-2	1 mg/L	123	---	75	125	---
		EG020: Silver	7440-22-4	1 mg/L	88.0	---	75	125	---
		EG020: Thallium	7440-28-0	1 mg/L	82.0	---	75	125	---
		EG020: Tin	7440-31-5	1 mg/L	101	---	75	125	---
		EG020: Vanadium	7440-62-2	1 mg/L	117	---	75	125	---
		EG020: Zinc	7440-66-6	1 mg/L	95.7	---	75	125	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3967581)</b>									
HK1521581-007	ASH BE	EG020: Antimony	7440-36-0	1 mg/L	98.8	---	75	125	---
		EG020: Arsenic	7440-38-2	1 mg/L	112	---	75	125	---
		EG020: Barium	7440-39-3	1 mg/L	101	---	75	125	---
		EG020: Beryllium	7440-41-7	1 mg/L	122	---	75	125	---
		EG020: Cadmium	7440-43-9	1 mg/L	105	---	75	125	---
		EG020: Chromium	7440-47-3	1 mg/L	112	---	75	125	---
		EG020: Copper	7440-50-8	1 mg/L	91.0	---	75	125	---
		EG020: Lead	7439-92-1	1 mg/L	84.5	---	75	125	---
		EG020: Mercury	7439-97-6	0.02 mg/L	91.5	---	75	125	---
		EG020: Nickel	7440-02-0	1 mg/L	101	---	75	125	---
		EG020: Selenium	7782-49-2	1 mg/L	121	---	75	125	---
		EG020: Silver	7440-22-4	1 mg/L	89.6	---	75	125	---
		EG020: Thallium	7440-28-0	1 mg/L	83.4	---	75	125	---
		EG020: Tin	7440-31-5	1 mg/L	102	---	75	125	---
		EG020: Vanadium	7440-62-2	1 mg/L	117	---	75	125	---
		EG020: Zinc	7440-66-6	1 mg/L	93.8	---	75	125	---

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client : **VW-VES(HK) LTD**  
Contact : **MS JENNIFER CHAN**  
Address : **UNIT 7601,  
THE CENTER,  
99 QUEEN'S ROAD CENTRAL HONG KONG**  
E-mail : **jennifer.chan@veolia.com**  
Telephone : **+852 2910 9709**  
Facsimile : **+852 2430 8011**  
Project :  
Order number :  
C-O-C number :  
Site :

Laboratory : **ALS Technichem (HK) Pty Ltd**  
Contact : **Fung Lim Chee, Richard**  
Address : **11/F., Chung Shun Knitting Centre, 1 - 3 Wing  
Yip Street, Kwai Chung, N.T., Hong Kong**  
E-mail : **Richard.Fung@alsglobal.com**  
Telephone : **+852 2610 1044**  
Facsimile : **+852 2610 2021**  
Quote number :  
Date Samples Received : **26-JUN-2015**  
Issue Date : **30-JUN-2015**  
No. of samples received : **30**  
No. of samples analysed : **30**

Page : **1 of 17**  
Work Order : **HK1521862**

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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

**Fung Lim Chee, Richard**

**General Manager**

Authorised results for

**Inorganics**

ALS Technichem (HK) Pty Ltd  
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Page Number : 2 of 17  
Client : VW-VES(HK) LTD  
Work Order : HK1521862

**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: 29-JUN-2015

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: **HK1521862**

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sample ID				
			Client sampling date / time	Unit	Value	Residue	
EA002: pH Value	---	0.1	ASH A MIDDLE 24-JUN-2015 11:20 HK1521862-001	ASH A MIDDLE 24-JUN-2015 12:45 HK1521862-002	ASH A MIDDLE 24-JUN-2015 13:30 HK1521862-003	ASH A MIDDLE 24-JUN-2015 14:30 HK1521862-004	RESIDUE AF 24-JUN-2015 12:20 HK1521862-005
EA056: Moisture Content (dried @ 103°C)	---	0.1	9.7 18.9	9.6 21.9	9.6 18.0	9.7 19.5	10.7 30.2



Page Number : 4 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521862

Sub-Matrix: SOLID

Compound	Client sample ID		Client sampling date / time		RESIDUE AF		RESIDUE BF		RESIDUE BF		RESIDUE BF			
	CAS Number	LOR	Unit	Unit	24-JUN-2015 14:10	HK1521862-006	23-JUN-2015 14:50	HK1521862-007	23-JUN-2015 16:15	HK1521862-008	23-JUN-2015 16:50	HK1521862-009	23-JUN-2015 18:10	HK1521862-010
EA/ED: Physical and Aggregate Properties														
EA002: pH Value		0.1		pH Unit	10.8		10.9		10.7		10.9		10.9	
EA055: Moisture Content (dried @ 103°C)		0.1		%	23.2		12.3		31.8		28.6		30.6	





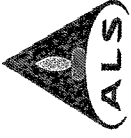
Page Number : 6 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521862

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sample ID		RESIDUE AE	RESIDUE AE	RESIDUE AE	RESIDUE AF	RESIDUE AF	RESIDUE AF
			Client sampling date / time	Unit						
EA(ED): Physical and Aggregate Properties			25-JUN-2015 17:15	HK1521862-016	25-JUN-2015 18:10	25-JUN-2015 10:50	25-JUN-2015 08:15	25-JUN-2015 12:50		
EA002: pH Value	--	0.1	10.6	10.6	10.6	10.7	10.7	10.7		
EA055: Moisture Content (dried @ 103°C)	--	0.1	29.2	23.1	28.2	22.8	26.1	26.1		

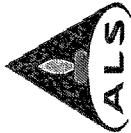


Page Number : 7 of 17  
 Client : VM-VES(HK) LTD  
 Work Order : HK1521862



Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
		LOR	Unit					
EA002: pH Value	—	0.1	ph Unit	25-JUN-2015 09:10	25-JUN-2015 11:15	25-JUN-2015 08:45	25-JUN-2015 07:55	25-JUN-2015 09:30
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	HK1521862-021	HK1521862-022	HK1521862-023	HK1521862-024	HK1521862-025
				10.6	10.6	10.6	10.6	10.7
				28.1	28.6	23.2	25.7	24.8



Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	ASH A MIDDLE
		LOR	Unit					
EA002: pH Value	--	0.1	ph Unit	25-JUN-2015 13:18	25-JUN-2015 12:20	25-JUN-2015 14:05	25-JUN-2015 02:34	[25-JUN-2015]
EA055: Moisture Content (dried @ 103°C)	--	0.1	%	HK1521862-026	HK1521862-027	HK1521862-028	HK1521862-029	HK1521862-030
				10.7	10.6	10.7	10.7	10.5
				32.0	24.5	28.4	32.8	28.2

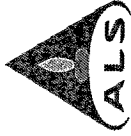
EA/ED: Physical and Aggregate Properties



Page Number : 9 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521862

Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	Client sampling date / time		Client sample ID		RESIDUE AF	
		LOR	Unit	ASH A MIDDLE	ASH A MIDDLE		ASH A MIDDLE
EG: Metals and Major Cations : Filtered							
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	<1	<1	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	1	1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<1	<1
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<0.2	<0.2
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<1	<1
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<0.2	<0.2
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	1	1	1	<1
Sample Preparation Method							
E-TCLP: Extraction Fluid Number							
				1	1	1	2



Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
Compound	CAS Number	LOR	Unit	24-JUN-2015 12:00	23-JUN-2015 12:00	23-JUN-2015 12:00	23-JUN-2015 12:00	23-JUN-2015 12:00
				HK1521862-006	HK1521862-007	HK1521862-008	HK1521862-009	HK1521862-010
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	1	<1	1	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-65-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	<1	2	<1	<1
Sample Preparation Method								
E-TCLP: Extraction Fluid Number								
				2	2	2	2	2



Page Number : 11 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521862

Compound	Client sample ID		LOR	Unit	RESIDUE BF 24-JUN-2015 12:00 HK1521862-011	RESIDUE BF 24-JUN-2015 12:00 HK1521862-012	RESIDUE BF 24-JUN-2015 12:00 HK1521862-013	RESIDUE BF 24-JUN-2015 12:00 HK1521862-014	ASH A MIDDLE [25-JUN-2015] HK1521862-015
	CAS Number	Client sampling date / time							
Sub-Matrix: TCLP LEACHATE									
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2		1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3		1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7		1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-8		1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3		1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8		1	mg/kg	1	1	1	1	1
EG020: Lead	7439-92-1		1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4		1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5		1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2		1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6		1	mg/kg	<1	<1	<1	<1	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid Number									
					2	2	2	2	2







Compound	Client sample ID		LOR	Unit	RESIDUE BF 25-JUN-2015 12:00 HK1521862-026	RESIDUE BF 25-JUN-2015 12:00 HK1521862-027	RESIDUE BF 25-JUN-2015 12:00 HK1521862-028	RESIDUE BF 25-JUN-2015 12:00 HK1521862-029	ASH A MIDDLE [25-JUN-2015] HK1521862-030
	CAS Number	Client sampling date / litre							
Sub-Matrix: TCLP LEACHATE									
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-38-0	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-6	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-9	1	mg/kg	1	1	<1	<1	<1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-65-2	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	1	1	<1	<1	<1	1
Sample Preparation Method									
E-TCLP: Extraction Fluid Number									
				2	2	1	1	1	2





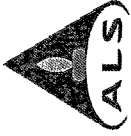
Page Number : 15 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521862

**Laboratory Duplicate (DUP) Report**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/IED: Physical and Aggregate Properties (QC Lot: 3968689)</b>								
HK1521862-001	ASH A MIDDLE	EA055: Moisture Content (dried @ 103°C)	—	0.1	%	18.9	19.2	1.8
HK1521862-011	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	—	0.1	%	24.9	24.8	0.0
<b>EA/IED: Physical and Aggregate Properties (QC Lot: 3968690)</b>								
HK1521862-021	RESIDUE AF	EA055: Moisture Content (dried @ 103°C)	—	0.1	%	28.1	27.8	1.0
HK1521865-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	—	0.1	%	36.7	37.1	1.2
<b>EA/IED: Physical and Aggregate Properties (QC Lot: 3968691)</b>								
HK1521862-001	ASH A MIDDLE	EA002: pH Value	—	0.1	pH Unit	9.7	9.6	0.0
<b>EA/IED: Physical and Aggregate Properties (QC Lot: 3968692)</b>								
HK1521862-011	RESIDUE BF	EA002: pH Value	—	0.1	pH Unit	10.6	10.6	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 Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	RPD (%)
<b>Method Blank (MB) Report</b>											
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3969572)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	90.8	—	76	118	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	95.3	—	72	124	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	90.1	—	80	120	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	93.9	—	74	122	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	94.2	—	79	117	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	92.9	—	78	120	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	97.4	—	78	118	—	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	96.4	—	79	115	—	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	95.5	—	76	120	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	93.3	—	78	120	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	88.4	—	81	119	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	90.7	—	76	114	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	95.3	—	81	113	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	95.0	—	79	119	—	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	103	—	78	124	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	88.4	—	70	130	—	—
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3969573)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	94.9	—	76	118	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	98.9	—	72	124	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	95.6	—	80	120	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	101	—	74	122	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	95.4	—	79	117	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	93.6	—	78	120	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	100	—	78	118	—	—



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 Client : VW-VES(HK) LTD  
 Work Order : HK1521862

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
EG: Metals and Major Cations - Filtered (QC Lot: 3969573) - Continued											
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	106	---	79	---	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	92.3	---	76	---	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	96.8	---	78	---	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	106	---	81	---	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	89.2	---	76	---	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	104	---	81	---	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	97.5	---	79	---	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	106	---	78	---	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	93.6	---	70	---	---	---



Page Number : 17 of 17  
 Client : VW-VES(HK) LTD  
 Work Order : HK1521862

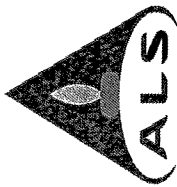
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3969572)</b>											
HK1521862-001	ASHA MIDDLE	EG020: Antimony	7440-36-0	1 mg/L	99.6	---	---	75	125	---	---
		EG020: Arsenic	7440-38-2	1 mg/L	104	---	---	75	125	---	---
		EG020: Barium	7440-39-3	1 mg/L	95.7	---	---	75	125	---	---
		EG020: Beryllium	7440-41-7	1 mg/L	99.9	---	---	75	125	---	---
		EG020: Cadmium	7440-43-9	1 mg/L	100	---	---	75	125	---	---
		EG020: Chromium	7440-47-3	1 mg/L	90.4	---	---	75	125	---	---
		EG020: Copper	7440-50-8	1 mg/L	95.2	---	---	75	125	---	---
		EG020: Lead	7439-92-1	1 mg/L	100	---	---	75	125	---	---
		EG020: Mercury	7439-97-6	0.02 mg/L	100	---	---	75	125	---	---
		EG020: Nickel	7440-02-0	1 mg/L	99.0	---	---	75	125	---	---
		EG020: Selenium	7782-49-2	1 mg/L	111	---	---	75	125	---	---
		EG020: Silver	7440-22-4	1 mg/L	86.8	---	---	75	125	---	---
		EG020: Thallium	7440-28-0	1 mg/L	97.1	---	---	75	125	---	---
		EG020: Tin	7440-31-5	1 mg/L	99.7	---	---	75	125	---	---
		EG020: Vanadium	7440-62-2	1 mg/L	105	---	---	75	125	---	---
		EG020: Zinc	7440-66-6	1 mg/L	86.6	---	---	75	125	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3969573)</b>											
HK1521862-021	RESIDUE AF	EG020: Antimony	7440-36-0	1 mg/L	101	---	---	75	125	---	---
		EG020: Arsenic	7440-38-2	1 mg/L	106	---	---	75	125	---	---
		EG020: Barium	7440-39-3	1 mg/L	97.1	---	---	75	125	---	---
		EG020: Beryllium	7440-41-7	1 mg/L	100	---	---	75	125	---	---
		EG020: Cadmium	7440-43-9	1 mg/L	97.4	---	---	75	125	---	---
		EG020: Chromium	7440-47-3	1 mg/L	94.7	---	---	75	125	---	---
		EG020: Copper	7440-50-8	1 mg/L	98.5	---	---	75	125	---	---
		EG020: Lead	7439-92-1	1 mg/L	96.7	---	---	75	125	---	---
		EG020: Mercury	7439-97-6	0.02 mg/L	106	---	---	75	125	---	---
		EG020: Nickel	7440-02-0	1 mg/L	97.5	---	---	75	125	---	---
		EG020: Selenium	7782-49-2	1 mg/L	116	---	---	75	125	---	---
		EG020: Silver	7440-22-4	1 mg/L	87.8	---	---	75	125	---	---
		EG020: Thallium	7440-28-0	1 mg/L	94.0	---	---	75	125	---	---
		EG020: Tin	7440-31-5	1 mg/L	101	---	---	75	125	---	---
		EG020: Vanadium	7440-62-2	1 mg/L	108	---	---	75	125	---	---
		EG020: Zinc	7440-66-6	1 mg/L	99.2	---	---	75	125	---	---

# ALS Technichem (HK) Pty Ltd

**ALS Laboratory Group**  
ANALYTICAL CHEMISTRY & TESTING SERVICES



## CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 6
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1521865
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 26-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 30-JUN-2015
Project	: ----	Quote number	: ----	No. of samples received	: 5
Order number	: ----			No. of samples analysed	: 5
C-O-C number	: ----				
Site	: ----				

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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**

**ALS Technichem (HK) Pty Ltd**  
Part of the **ALS Laboratory Group**

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



Page Number : 2 of 6  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order : HK1521865

**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: 29-JUN-2015

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: **HK1521865**

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98.



Page Number : 3 of 6  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521865

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		ASH BE	ASH BE	ASH BE	ASH BE
		Client sampling date / time	Unit				
EA002: pH Value	---	0.1	pH Unit	9.9	9.6	9.8	9.8
EA056: Moisture Content (dried @ 103°C)	---	0.1	%	36.7	19.8	20.8	16.0
				HK1521865-001	HK1521865-002	HK1521865-003	HK1521865-004
				23-JUN-2015 17:15	24-JUN-2015 08:50	24-JUN-2015 09:40	24-JUN-2015 10:30
				24-JUN-2015 10:45	24-JUN-2015 10:45	24-JUN-2015 10:45	24-JUN-2015 10:45
				HK1521865-005	HK1521865-006	HK1521865-007	HK1521865-008



Sub-Matrix: TCLP LEACHATE		Client sample ID		Client sampling date / time				
Compound	CAS Number	LOR	Unit	ASH BE 23-JUN-2015 12:00 HK1521865-001	ASH BE 24-JUN-2015 12:00 HK1521865-002	ASH BE 24-JUN-2015 12:00 HK1521865-003	ASH BE 24-JUN-2015 12:00 HK1521865-004	ASH BE 24-JUN-2015 12:00 HK1521865-005
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-45-8	1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	<1	<1	<1	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-9	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-65-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	1	<1	<1	1
Sample Preparation Method								
E-TCLP: Extraction Fluid Number								
				1	1	1	1	1



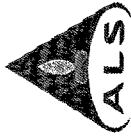
**Laboratory Duplicate (DUP) Report**

Matrix: SOIL		Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3988690)</b>								
HK1521862-021	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	28.1	27.8	1.0
HK1521865-001	ASH BE	EA055: Moisture Content (dried @ 103°C)		0.1	%	36.7	37.1	1.2
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3988692)</b>								
HK1521862-011	Anonymous	EA002: pH Value		0.1	pH Unit	10.6	10.6	0.0

**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						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Control Limit	
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3989573)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	94.9	—	—	76	118	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	98.9	—	—	72	124	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	95.6	—	—	80	120	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	101	—	—	74	122	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	95.4	—	—	79	117	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	93.6	—	—	78	120	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	100	—	—	78	118	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	106	—	—	79	115	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	92.3	—	—	76	120	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	96.8	—	—	78	120	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	106	—	—	81	119	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	89.2	—	—	76	114	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	104	—	—	81	113	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	97.5	—	—	79	119	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	106	—	—	78	124	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	93.6	—	—	70	130	—





Page Number : 6 of 6  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1521865

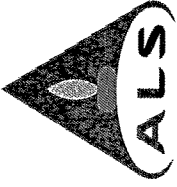
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	High	Value
EG: Metals and Major Cations - Filtered (QC Lot: 3969573)										
HK1521862-021		Anonymous								
		EG020: Antimony	7440-36-0	1 mg/L	101	—	—	75	125	—
		EG020: Arsenic	7440-38-2	1 mg/L	106	—	—	75	125	—
		EG020: Barium	7440-39-3	1 mg/L	97.1	—	—	75	125	—
		EG020: Beryllium	7440-41-7	1 mg/L	100	—	—	75	125	—
		EG020: Cadmium	7440-43-9	1 mg/L	97.4	—	—	75	125	—
		EG020: Chromium	7440-47-3	1 mg/L	94.7	—	—	75	125	—
		EG020: Copper	7440-50-8	1 mg/L	98.5	—	—	75	125	—
		EG020: Lead	7439-92-1	1 mg/L	96.7	—	—	75	125	—
		EG020: Mercury	7439-97-6	0.02 mg/L	106	—	—	75	125	—
		EG020: Nickel	7440-02-0	1 mg/L	97.5	—	—	75	125	—
		EG020: Selenium	7782-49-2	1 mg/L	116	—	—	75	125	—
		EG020: Silver	7440-22-4	1 mg/L	87.8	—	—	75	125	—
		EG020: Thallium	7440-28-0	1 mg/L	94.0	—	—	75	125	—
		EG020: Tin	7440-31-5	1 mg/L	101	—	—	75	125	—
		EG020: Vanadium	7440-62-2	1 mg/L	108	—	—	75	125	—
		EG020: Zinc	7440-66-6	1 mg/L	99.2	—	—	75	125	—

# ALS Technichem (HK) Pty Ltd

**ALS Laboratory Group**  
ANALYTICAL CHEMISTRY & TESTING SERVICES



## CERTIFICATE OF ANALYSIS

Client : **VW-VES(HK) LTD**  
Contact : **MS JENNIFER CHAN**  
Address : **UNIT 7601,  
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E-mail : **jennifer.chan@veolia.com**  
Telephone : **+852 2910 9709**  
Facsimile : **+852 2430 8011**  
Project : **----**  
Order number : **----**  
C-O-C number : **----**  
Site : **----**

Laboratory : **ALS Technichem (HK) Pty Ltd**  
Contact : **Fung Lim Chee, Richard**  
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Telephone : **+852 2610 1044**  
Facsimile : **+852 2610 2021**  
Quote number : **----**

Page : **1 of 19**  
Work Order : **HK1522075**

Date Samples Received : **29-JUN-2015**  
Issue Date : **02-JUL-2015**  
No. of samples received : **34**  
No. of samples analysed : **34**

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Signatories

Position

Authorised results for

**Fung Lim Chee, Richard**

**General Manager**

**Inorganics**

**ALS Technichem (HK) Pty Ltd**  
Part of the **ALS Laboratory Group**

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



Page Number : 2 of 19  
Client : VW-VES(HK) LTD  
Work Order : HK1522075

### 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: 30-JUN-2015

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: **HK1522075**

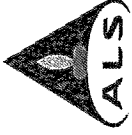
Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.

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

pH determined and reported on a 1:5 soil / water extract

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.83.



Page Number : 3 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	Client sampling date / time		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
		LOR	Unit				
EA002: pH Value	—	0.1	pH Unit	10.8	10.7	10.7	10.7
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	23.7	24.6	21.5	17.5
EAIED: Physical and Aggregate Properties							
				10.7	10.7	10.7	10.7
				21.5	21.5	21.5	19.7
				24.6	24.6	24.6	19.7
				26-JUN-2015 13:05	26-JUN-2015 14:05	26-JUN-2015 11:15	26-JUN-2015 08:55
				HK1522075-001	HK1522075-002	HK1522075-003	HK1522075-004
				26-JUN-2015 13:05	26-JUN-2015 14:05	26-JUN-2015 11:15	26-JUN-2015 08:55
				RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
				26-JUN-2015 13:05	26-JUN-2015 14:05	26-JUN-2015 11:15	26-JUN-2015 08:55
				HK1522075-001	HK1522075-002	HK1522075-003	HK1522075-004
				RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
				26-JUN-2015 13:05	26-JUN-2015 14:05	26-JUN-2015 11:15	26-JUN-2015 08:55
				HK1522075-001	HK1522075-002	HK1522075-003	HK1522075-004
				RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
				26-JUN-2015 13:05	26-JUN-2015 14:05	26-JUN-2015 11:15	26-JUN-2015 08:55
				HK1522075-001	HK1522075-002	HK1522075-003	HK1522075-004



Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		RESIDUE AF	ASH A MIDDLE	ASH A MIDDLE	RESIDUE BF	RESIDUE BF
		LOR	Unit					
EA002: pH Value	---	0.1	pH Unit	10.7	10.0	9.6	10.7	10.6
EA056: Moisture Content (dried @ 103°C)	---	0.1	%	23.0	19.4	19.3	29.5	18.3

EA/ED: Physical and Aggregate Properties



Page Number : 5 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

Compound	CAS Number	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
		Client sampling date / time	Unit					
Sub-Matrix: SOLID								
EAFED: Physical and Aggregate Properties								
EA002: pH Value	—	0.1	pH Unit	10.7	10.9	10.8	10.8	10.7
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	26.1	34.4	28.8	25.4	28.4



Page Number : 6 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

Compound	CAS Number	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
		LOR	Unit				
EA002: pH Value	—	0.1	pH Unit	26-JUN-2015 09:00	26-JUN-2015 07:40	27-JUN-2015 12:30	27-JUN-2015 16:15
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	HK1522075-016	HK1522075-017	HK1522075-018	HK1522075-020
EAI/ED: Physical and Aggregate Properties				10.8	10.7	10.7	10.8
				26.2	23.4	31.9	30.1
						10.9	
						31.3	

Sub-Matrix: SOLID



Page Number : 7 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		RESIDUE BF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
		Client sampling date / time	Unit					
		LOR		27-JUN-2015 17:30	28-JUN-2015 07:50	28-JUN-2015 09:00	28-JUN-2015 09:10	28-JUN-2015 09:20
				HK1522075-021	HK1522075-022	HK1522075-023	HK1522075-024	HK1522075-025
EA002: pH Value	---	0.1	pH Unit	10.8	10.7	10.6	10.6	10.7
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	26.1	23.5	27.6	22.1	26.5

EA002: pH Value

EA055: Moisture Content (dried @ 103°C)





Page Number : 8 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

Compound	CAS Number	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
		Client sampling date / time	Unit						
Sub-Matrix: SOLID									
EAJED: Physical and Aggregate Properties									
EA002: pH Value	---	0.1	pH Unit	10.8	10.7	10.8	10.8	10.8	10.3
EA056: Moisture Content (dried @ 103°C)	---	0.1	%	26.0	20.6	28.6	23.1	23.1	18.3



Page Number : 9 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF
		LOR	Unit			
EA002: pH Value	---	0.1	pH Unit	28-JUN-2015 14:00	28-JUN-2015 16:00	28-JUN-2015 17:45
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	HK1522075-031	HK1522075-032	HK1522075-034
EA/ED: Physical and Aggregate Properties						
				9.6	10.9	10.9
				15.0	28.3	25.8
					11.0	
					17.8	



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 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

Sub-Matrix: TCLP LEACHATE

Compound	Client sample ID		CAS Number	LOR	Unit	RESIDUE AF			
	Client sampling date / time	RESIDUE AF				RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Cadmium	7440-49-9	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-5	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	1	1	1	1	1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Vanadium	7440-65-2	1	mg/kg	<1	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	<1	1	2	<1	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid Number									
				2	2	2	2	2	2



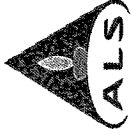
Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AF	ASH A MIDDLE	ASH A MIDDLE	RESIDUE BF	RESIDUE BF
Compound	CAS Number	LOR	Client sampling date / time	28-JUN-2015 12:00	26-JUN-2015 12:00	26-JUN-2015 12:00	26-JUN-2015 12:00	26-JUN-2015 12:00
			Unit	HK1522075-006	HK1522075-007	HK1522075-008	HK1522075-009	HK1522075-010
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-8	1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	1	<1	<1	<1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-68-6	1	mg/kg	<1	<1	1	<1	2
Sample Preparation Method								
E-TCLP: Extraction Fluid Number								
				2	1	1	1	2



Page Number : 12 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

Sub-Matrix: TCLP LEACHATE

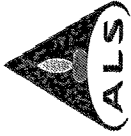
Compound	CAS Number	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
		Client sampling date / time	Unit					
		LOF		HK1522075-011	HK1522075-012	HK1522075-013	HK1522075-014	HK1522075-015
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	1	<1	1	1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	1	1	1	1	1
Sample Preparation Method								
E-TCLP: Extraction Fluid Number								
				2	2	2	2	2



Page Number : 13 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

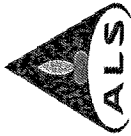
Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
Compound	CAS Number	LOR	Client sampling date / time	Unit	26-JUN-2015 12:00	26-JUN-2015 12:00	27-JUN-2015 12:00	27-JUN-2015 12:00
					HK1522075-016	HK1522075-017	HK1522075-018	HK1522075-019
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-45-9	1		mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	1	1	1	1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-65-2	1		mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	1	1	1	1
Sample Preparation Method								
E-TCLP: Extraction Fluid Number								
					2	2	1	2
					2	2	1	2





Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE BF	RESIDUE BF	ASH A MIDDLE
Compound	CAS Number	LOR	Client sampling date / time	Unit	28-JUN-2015 12:00	28-JUN-2015 12:00	28-JUN-2015 12:00	28-JUN-2015 12:00
				Unit	HK1522075-026	HK1522075-027	HK1522075-028	HK1522075-029
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-6	1		mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	1	1	2	<1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-82-2	1		mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	<1	<1	<1	<1
Sample Preparation Method								
E-TCLP: Extraction Fluid Number								
					2	2	2	2
					1	1	1	1





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 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

Sub-Matrix: TCLP LEACHATE		Client sample ID		ASH A MIDDLE	RESIDUE BF	RESIDUE BF	RESIDUE BF
Compound	CAS Number	LOR	Client sampling date / time	28-JUN-2015 12:00	28-JUN-2015 12:00	28-JUN-2015 12:00	28-JUN-2015 12:00
			Unit	HK1522075-031	HK1522075-032	HK1522075-033	HK1522075-034
EG: Metals and Major Cations - Filtered							
EG020: Antimony	7440-38-0	1	mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-45-9	1	mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	<1	1	<1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-65-2	1	mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	<1	<1	<1
Sample Preparation Method							
E-TCLP: Extraction Fluid Number							
				1	2	2	2



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 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

**Laboratory Duplicate (DUP) Report**

Laboratory sample ID	Client sample ID	Method: Compound	Laboratory Duplicate (DUP) Report				
			LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3969880)</b>							
HK1522075-001	RESIDUE AF	EA055: Moisture Content (dried @ 103°C)	0.1	%	23.7	24.2	2.2
HK1522075-011	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	0.1	%	26.1	25.8	1.2
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3969881)</b>							
HK1522075-021	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)	0.1	%	26.1	26.8	2.5
HK1522075-031	ASH A MIDDLE	EA055: Moisture Content (dried @ 103°C)	0.1	%	15.0	14.8	1.6
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3969886)</b>							
HK1522075-001	RESIDUE AF	EA002: pH Value	0.1	pH Unit	10.8	10.7	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3969887)</b>							
HK1522075-021	RESIDUE BF	EA002: pH Value	0.1	pH Unit	10.8	10.6	1.1

**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	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3970505)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	106	76	118	76	118	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	100	72	124	72	124	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	103	80	120	80	120	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	100	74	122	74	122	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	103	79	117	79	117	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	103	78	120	78	120	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	102	78	118	78	118	—	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	102	79	115	79	115	—	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	92.7	76	120	76	120	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	102	78	120	78	120	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	107	81	119	81	119	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	104	76	114	76	114	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	103	81	113	81	113	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	107	79	119	79	119	—	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	104	78	124	78	124	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	93.9	70	130	70	130	—	—
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3970506)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	104	76	118	76	118	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	98.7	72	124	72	124	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	106	80	120	80	120	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	102	74	122	74	122	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	104	79	117	79	117	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	100	78	120	78	120	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	104	78	118	78	118	—	—



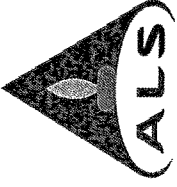
Page Number : 18 of 19  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522075

Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report								
Matrix	Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3970506) - Continued</b>												
EG020:	Lead	7439-92-1	1	mg/L	<1	1 mg/L	106	---	79	115	---	---
EG020:	Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	101	---	76	120	---	---
EG020:	Nickel	7440-02-0	1	mg/L	<1	1 mg/L	98.5	---	78	120	---	---
EG020:	Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	105	---	81	119	---	---
EG020:	Silver	7440-22-4	1	mg/L	<1	1 mg/L	104	---	76	114	---	---
EG020:	Thallium	7440-28-0	1	mg/L	<1	1 mg/L	104	---	81	113	---	---
EG020:	Tin	7440-31-5	1	mg/L	<1	1 mg/L	112	---	79	119	---	---
EG020:	Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	99.0	---	78	124	---	---
EG020:	Zinc	7440-66-6	1	mg/L	<1	1 mg/L	89.0	---	70	130	---	---



# ALS Technichem (HK) Pty Ltd

**ALS Laboratory Group**  
ANALYTICAL CHEMISTRY & TESTING SERVICES



## CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 9
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1522080
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 29-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 02-JUL-2015
Project	: ----	Quote number	: ----	No. of samples received	: 7
Order number	: ----			No. of samples analysed	: 7
C-O-C number	: ----				
Site	: ----				

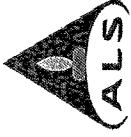
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Signatories  
**Fung Lim Chee, Richard**      Position  
**General Manager**

Authorised results for  
**Inorganics**

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Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order : HK1522080

**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: 30-JUN-2015

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: **HK1522080**

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

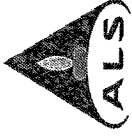
Sample(s) analysed and reported on an as received basis.

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.86 - 4.98.





Page Number : 4 of 9  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1522080

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
			ASH BE	ASH BE
			28-JUN-2015 14:15	28-JUN-2015 15:00
			HK1522080-006	HK1522080-007
<b>EAIED: Physical and Aggregate Properties</b>				
EA002: pH Value	---	0.1	9.8	9.8
EA056: Moisture Content (dried @ 103°C)	---	0.1	19.6	15.7







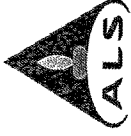


**Laboratory Duplicate (DUP) Report**

Matrix: SOIL		Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Method/Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3969881)</b>								
HK1522075-021	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	26.1	26.8	2.5
HK1522075-031	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	15.0	14.8	1.6
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3969882)</b>								
HK1522080-007	ASH BE	EA055: Moisture Content (dried @ 103°C)		0.1	%	15.7	15.9	0.9
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3969887)</b>								
HK1522075-021	Anonymous	EA002: pH Value		0.1	pH Unit	10.8	10.6	1.1
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3969888)</b>								
HK1522080-007	ASH BE	EA002: pH Value		0.1	pH Unit	9.8	9.8	0.0

**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					
Method/Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3970506)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	104	---	76	118	---	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	98.7	---	72	124	---	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	106	---	80	120	---	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	102	---	74	122	---	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	104	---	79	117	---	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	100	---	78	120	---	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	104	---	78	118	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	106	---	79	115	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	101	---	76	120	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	98.5	---	78	120	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	105	---	81	119	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	104	---	76	114	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	104	---	81	113	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	112	---	79	119	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	99.0	---	78	124	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	89.0	---	70	130	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3970507)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	107	---	76	118	---	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	103	---	72	124	---	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	107	---	80	120	---	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	92.4	---	74	122	---	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	108	---	79	117	---	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	99.0	---	78	120	---	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	103	---	78	118	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	96.4	---	79	115	---	---



Page Number : 8 of 9  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1522080

Matrix: WATER

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
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3970507) - Continued</b>											
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	101	—	76	120	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	100	—	78	120	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	103	—	81	119	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	103	—	76	114	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	98.3	—	81	113	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	108	—	79	119	—	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	102	—	78	124	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	90.2	—	70	130	—	—



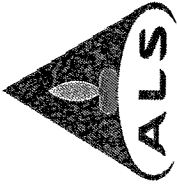
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	Value	RPD (%)	Control Limit	
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3970506)</b>												
HK1522075-021	Anonymous	EG020: Antimony	7440-36-0	1 mg/L	110	---	---	75	125	---	---	---
		EG020: Arsenic	7440-38-2	1 mg/L	104	---	---	75	125	---	---	---
		EG020: Barium	7440-39-3	1 mg/L	102	---	---	75	125	---	---	---
		EG020: Beryllium	7440-41-7	1 mg/L	104	---	---	75	125	---	---	---
		EG020: Cadmium	7440-43-9	1 mg/L	103	---	---	75	125	---	---	---
		EG020: Chromium	7440-47-3	1 mg/L	99.4	---	---	75	125	---	---	---
		EG020: Copper	7440-50-8	1 mg/L	85.8	---	---	75	125	---	---	---
		EG020: Lead	7439-92-1	1 mg/L	96.0	---	---	75	125	---	---	---
		EG020: Mercury	7439-97-6	0.02 mg/L	101	---	---	75	125	---	---	---
		EG020: Nickel	7440-02-0	1 mg/L	92.3	---	---	75	125	---	---	---
		EG020: Selenium	7782-49-2	1 mg/L	112	---	---	75	125	---	---	---
		EG020: Silver	7440-22-4	1 mg/L	82.6	---	---	75	125	---	---	---
		EG020: Thallium	7440-28-0	1 mg/L	96.6	---	---	75	125	---	---	---
		EG020: Tin	7440-31-5	1 mg/L	110	---	---	75	125	---	---	---
		EG020: Vanadium	7440-62-2	1 mg/L	92.7	---	---	75	125	---	---	---
		EG020: Zinc	7440-66-6	1 mg/L	91.0	---	---	75	125	---	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3970507)</b>												
HK1522080-007	ASH BE	EG020: Antimony	7440-36-0	1 mg/L	109	---	---	75	125	---	---	---
		EG020: Arsenic	7440-38-2	1 mg/L	100	---	---	75	125	---	---	---
		EG020: Barium	7440-39-3	1 mg/L	106	---	---	75	125	---	---	---
		EG020: Beryllium	7440-41-7	1 mg/L	97.1	---	---	75	125	---	---	---
		EG020: Cadmium	7440-43-9	1 mg/L	105	---	---	75	125	---	---	---
		EG020: Chromium	7440-47-3	1 mg/L	101	---	---	75	125	---	---	---
		EG020: Copper	7440-50-8	1 mg/L	99.0	---	---	75	125	---	---	---
		EG020: Lead	7439-92-1	1 mg/L	104	---	---	75	125	---	---	---
		EG020: Mercury	7439-97-6	0.02 mg/L	92.8	---	---	75	125	---	---	---
		EG020: Nickel	7440-02-0	1 mg/L	99.6	---	---	75	125	---	---	---
		EG020: Selenium	7782-49-2	1 mg/L	123	---	---	75	125	---	---	---
		EG020: Silver	7440-22-4	1 mg/L	99.4	---	---	75	125	---	---	---
		EG020: Thallium	7440-28-0	1 mg/L	103	---	---	75	125	---	---	---
		EG020: Tin	7440-31-5	1 mg/L	114	---	---	75	125	---	---	---
		EG020: Vanadium	7440-62-2	1 mg/L	102	---	---	75	125	---	---	---
		EG020: Zinc	7440-66-6	1 mg/L	86.0	---	---	75	125	---	---	---

# ALS Technichem (HK) Pty Ltd

**ALS Laboratory Group**  
ANALYTICAL CHEMISTRY & TESTING SERVICES



## CERTIFICATE OF ANALYSIS

Client : **VW-VES(HK) LTD**  
Contact : **MS JENNIFER CHAN**  
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E-mail : **jennifer.chan@veolia.com**  
Telephone : **+852 2910 9709**  
Facsimile : **+852 2430 8011**  
Project : **----**  
Order number : **----**  
C-O-C number : **----**  
Site : **----**

Laboratory : **ALS Technichem (HK) Pty Ltd**  
Contact : **Fung Lim Chee, Richard**  
Address : **11/F., Chung Shun Knitting Centre, 1 - 3 Wing  
Yip Street, Kwai Chung, N.T., Hong Kong**  
E-mail : **Richard.Fung@alsglobal.com**  
Telephone : **+852 2610 1044**  
Facsimile : **+852 2610 2021**  
Quote number : **----**  
Date Samples Received : **30-JUN-2015**  
Issue Date : **06-JUL-2015**  
No. of samples received : **13**  
No. of samples analysed : **13**

Page : **1 of 10**

Work Order : **HK1522311**

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Signatories

Position

Authorised results for

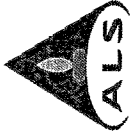
**Fung Lim Chee, Richard**

**General Manager**

**Inorganics**

**ALS Technichem (HK) Pty Ltd**  
Part of the **ALS Laboratory Group**

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Page Number : 2 of 10  
Client : VW-VES(HK) LTD  
Work Order : HK1522311

**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: 03-JUL-2015

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: HK1522311

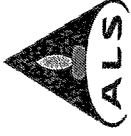
Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.



Page Number : 3 of 10  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522311

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
		LOR	Unit					
EA002: pH Value	---	0.1	pH Unit	10.6	10.6	10.6	10.6	10.5
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	22.0	23.6	21.3	21.8	22.5

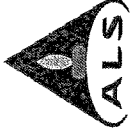
**EA002: Physical and Aggregate Properties**

Client sampling date / time	RESIDUE AF
29-JUN-2015 07:35	10.6
29-JUN-2015 08:40	10.6
29-JUN-2015 08:55	10.6
29-JUN-2015 09:20	10.6

Client sampling date / time	RESIDUE AF
29-JUN-2015 08:40	21.3
29-JUN-2015 08:55	23.6
29-JUN-2015 09:20	21.8

Client sample ID	RESIDUE AF
HK1522311-001	10.6
HK1522311-002	10.6
HK1522311-003	10.6
HK1522311-004	10.6
HK1522311-005	10.5





Page Number : 4 of 10  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522311

Sub-Matrix: SOLID

Compound	CAS Number		Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE BF	RESIDUE BF	RESIDUE BF
	LOR	Unit	Client sampling date / time	Unit					
EA002: pH Value	---	0.1	10.7	pH Unit	29-JUN-2015 14:50	29-JUN-2015 15:20	29-JUN-2015 11:25	29-JUN-2015 13:25	29-JUN-2015 16:10
EA055: Moisture Content (dried @ 103°C)	---	0.1	20.2	%	HK1522311-006	HK1522311-007	HK1522311-008	HK1522311-009	HK1522311-010
EAFED: Physical and Aggregate Properties					10.6	10.8	10.8	10.8	10.7
					22.8	21.3	21.3	27.3	28.2





Sub-Matrix: TCLP LEACHATE

Compound	Client sample ID		LOR	Unit	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
	CAS Number	Client sampling date / time			03-JUL-2015 13:00	03-JUL-2015 13:00	03-JUL-2015 13:00	03-JUL-2015 13:00	03-JUL-2015 13:00
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2		1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3		1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7		1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9		1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3		1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8		1	mg/kg	<1	<1	<1	<1	1
EG020: Lead	7439-92-1		1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6		0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2		0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4		1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0		1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5		1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-65-2		1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6		1	mg/kg	<1	<1	<1	<1	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid Number									
					1	1	1	1	2



Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE BF	RESIDUE BF	RESIDUE BF
Compound	CAS Number	LOR	Client sampling date / time	Unit	03-JUL-2015 13:00	03-JUL-2015 13:00	03-JUL-2015 13:00	03-JUL-2015 13:00
					HK1522311-006	HK1522311-007	HK1522311-008	HK1522311-009
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	<1	<1	<1	1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-05-0	1		mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-65-2	1		mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	<1	1	1	1
Sample Preparation Method								
E-TCLP: Extraction Fluid Number								
					1	1	2	2



Sub-Matrix: TCLP LEACHATE		Client sample ID		Client sampling date / time		
Compound	CAS Number	LOR	Unit	ASH A MIDDLE 03-JUL-2015 13:00 HK1522311-011	ASH A MIDDLE 03-JUL-2015 13:00 HK1522311-012	ASH A MIDDLE 03-JUL-2015 13:00 HK1522311-013
<b>EG: Metals and Major Cations - Filtered</b>						
EG020: Antimony	7440-36-0	1	ng/kg	<1	<1	<1
EG020: Arsenic	7440-39-2	1	ng/kg	<1	<1	<1
EG020: Barium	7440-39-3	1	ng/kg	<1	<1	<1
EG020: Beryllium	7440-41-7	1	ng/kg	<1	<1	<1
EG020: Cadmium	7440-43-9	1	ng/kg	<1	<1	<1
EG020: Chromium	7440-47-3	1	ng/kg	<1	<1	<1
EG020: Copper	7440-50-8	1	ng/kg	<1	1	<1
EG020: Lead	7439-92-1	1	ng/kg	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	ng/kg	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	ng/kg	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	ng/kg	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	ng/kg	<1	<1	<1
EG020: Thallium	7440-28-0	1	ng/kg	<1	<1	<1
EG020: Tin	7440-31-5	1	ng/kg	<1	<1	<1
EG020: Vanadium	7440-62-2	1	ng/kg	<1	<1	<1
EG020: Zinc	7440-66-6	1	ng/kg	<1	<1	<1
<b>Sample Preparation Method</b>						
<b>E-TCLP: Extraction Fluid Number</b>						
				1	1	1



**Laboratory Duplicate (DUP) Report**

Laboratory Sample ID	Client Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report		
				LOR	Unit	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3972428)</b>						
HK1522311-001	RESIDUE AF	EA055: Moisture Content (dried @ 103°C)	—	%	22.0	21.6
HK1522311-011	ASH A MIDDLE	EA055: Moisture Content (dried @ 103°C)	—	%	20.4	20.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3973345)</b>						
HK1522311-001	RESIDUE AF	EA002: pH Value	—	pH Unit	10.6	10.6
						0.0

**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	LCS	DCS	Recovery Limits (%)	Value	RPD (%)
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3973488)</b>										
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	107	—	76	118	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	98.9	—	72	124	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	97.2	—	80	120	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	109	—	74	122	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	96.9	—	79	117	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	103	—	78	120	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	103	—	78	118	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	104	—	79	115	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	96.0	—	76	120	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	103	—	78	120	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	108	—	81	119	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	110	—	76	114	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	101	—	81	113	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	104	—	79	119	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	100	—	78	124	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	93.9	—	70	130	—



Page Number : 10 of 10  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522311

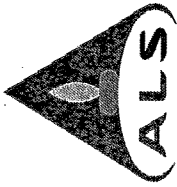
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	RPD (%)	
				Value	High	Low	Control Limit			
EG: Metals and Major Cations - Filtered (QC Lot: 3973488) HK1522311-001 RESIDUE AF		EG020: Antimony	7440-36-0	1 mg/L	113	75	125	75	125	125
		EG020: Arsenic	7440-38-2	1 mg/L	108	75	125	75	125	125
		EG020: Barium	7440-39-3	1 mg/L	99.0	75	125	75	125	125
		EG020: Beryllium	7440-41-7	1 mg/L	110	75	125	75	125	125
		EG020: Cadmium	7440-43-9	1 mg/L	103	75	125	75	125	125
		EG020: Chromium	7440-47-3	1 mg/L	108	75	125	75	125	125
		EG020: Copper	7440-50-8	1 mg/L	96.6	75	125	75	125	125
		EG020: Lead	7439-92-1	1 mg/L	102	75	125	75	125	125
		EG020: Mercury	7439-97-6	0.02 mg/L	100	75	125	75	125	125
		EG020: Nickel	7440-02-0	1 mg/L	104	75	125	75	125	125
		EG020: Selenium	7782-49-2	1 mg/L	111	75	125	75	125	125
		EG020: Silver	7440-22-4	1 mg/L	88.0	75	125	75	125	125
		EG020: Thallium	7440-28-0	1 mg/L	93.0	75	125	75	125	125
		EG020: Tin	7440-31-5	1 mg/L	110	75	125	75	125	125
		EG020: Vanadium	7440-62-2	1 mg/L	111	75	125	75	125	125
	EG020: Zinc	7440-66-6	1 mg/L	95.1	75	125	75	125	125	

# ALS Technichem (HK) Pty Ltd

**ALS Laboratory Group**  
ANALYTICAL CHEMISTRY & TESTING SERVICES



## CERTIFICATE OF ANALYSIS

Client	: VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 6
Contact	: MS JENNIFER CHAN	Contact	: Fung Lim Chee, Richard	Work Order	: HK1522314
Address	: ATTENTION TO MS JENNIFER CHAN P.O. BOX 45, GENERAL POST OFFICE HONG KONG	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: jennifer.chan@veolia.com	E-mail	: Richard.Fung@alsglobal.com		
Telephone	: +852 2910 9709	Telephone	: +852 2610 1044	Date Samples Received	: 30-JUN-2015
Facsimile	: +852 2430 8011	Facsimile	: +852 2610 2021	Issue Date	: 06-JUL-2015
Project	: ----	Quote number	: ----	No. of samples received	: 1
Order number	: ----			No. of samples analysed	: 1
C-O-C number	: ----				
Site	: ----				

This report may not be reproduced except with prior written approval from the testing laboratory.

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

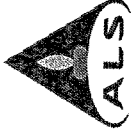
Authorised results for

Inorganics

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group

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





Page Number : 2 of 6  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order : HK1522314

#### 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: 03-JUL-2015

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: **HK1522314**

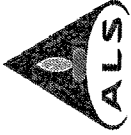
Sample(s) were picked up from client by ALS Technicians (HK) staff in an ambient condition.

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98.



Page Number : 3 of 6  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1522314

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	LOR	Client sample ID	
			Client sampling date / time	Unit
EA002: pH Value	---	0.1	ASH BE	[29-JUN-2015]
EA055: Moisture Content (dried @ 103°C)	---	0.1	HK1522314-001	
<b>EA002: pH Value</b>				
				9.9
<b>EA055: Moisture Content (dried @ 103°C)</b>				
				18.5



Sub-Matrix: TCLP LEACHATE		Client sample ID		Client sampling date / time	
Compound	CAS Number	LOR	Unit	ASH BE	[03-JUL-2015]
<b>EG: Metals and Major Cations - Filtered</b>					
EG020: Antimony	7440-36-0	1	mg/kg	<1	
EG020: Arsenic	7440-39-2	1	mg/kg	<1	
EG020: Barium	7440-39-3	1	mg/kg	<1	
EG020: Beryllium	7440-41-7	1	mg/kg	<1	
EG020: Cadmium	7440-43-9	1	mg/kg	<1	
EG020: Chromium	7440-47-3	1	mg/kg	<1	
EG020: Copper	7440-50-8	1	mg/kg	1	
EG020: Lead	7439-92-1	1	mg/kg	<1	
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	
EG020: Nickel	7440-02-0	1	mg/kg	<1	
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	
EG020: Silver	7440-22-4	1	mg/kg	<1	
EG020: Thallium	7440-28-0	1	mg/kg	<1	
EG020: Tin	7440-31-5	1	mg/kg	<1	
EG020: Vanadium	7440-62-2	1	mg/kg	<1	
EG020: Zinc	7440-66-6	1	mg/kg	1	
<b>Sample Preparation Method</b>					
<b>E-TCLP: Extraction Fluid Number</b>					
				1	

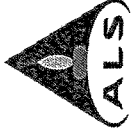


**Laboratory Duplicate (DUP) Report**

Laboratory Sample ID	Client Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3972428)</b>								
HK1522311-001	Anonymous	EA065: Moisture Content (dried @ 103°C)	—	0.1	%	22.0	21.6	1.6
HK1522311-011	Anonymous	EA055: Moisture Content (dried @ 103°C)	—	0.1	%	20.4	20.0	1.8
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3973345)</b>								
HK1522311-001	Anonymous	EA002: pH Value	—	0.1	pH Unit	10.6	10.6	0.0

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

Compound	CAS Number	LOR	Unit	Result	Method Blank (MB) Report				Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report			
					Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3973488)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	107	—	—	76	118	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	98.9	—	—	72	124	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	97.2	—	—	80	120	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	109	—	—	74	122	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	96.9	—	—	79	117	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	103	—	—	78	120	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	103	—	—	78	118	—	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	104	—	—	79	115	—	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	96.0	—	—	76	120	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	103	—	—	78	120	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	108	—	—	81	119	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	110	—	—	76	114	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	101	—	—	81	113	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	104	—	—	79	119	—	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	100	—	—	78	124	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	93.9	—	—	70	130	—	—



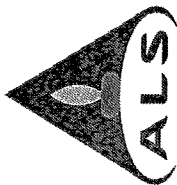
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	High	Value	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 3973488) HK1522311-001	Anonymous	EG020: Antimony	7440-38-0	1 mg/L	113	—	75	125	—	—	—
		EG020: Arsenic	7440-38-2	1 mg/L	108	—	75	125	—	—	—
		EG020: Barium	7440-39-3	1 mg/L	99.0	—	75	125	—	—	—
		EG020: Beryllium	7440-41-7	1 mg/L	110	—	75	125	—	—	—
		EG020: Cadmium	7440-43-9	1 mg/L	103	—	75	125	—	—	—
		EG020: Chromium	7440-47-3	1 mg/L	108	—	75	125	—	—	—
		EG020: Copper	7440-50-8	1 mg/L	96.6	—	75	125	—	—	—
		EG020: Lead	7439-92-1	1 mg/L	102	—	75	125	—	—	—
		EG020: Mercury	7439-97-6	0.02 mg/L	100	—	75	125	—	—	—
		EG020: Nickel	7440-02-0	1 mg/L	104	—	75	125	—	—	—
		EG020: Selenium	7782-49-2	1 mg/L	111	—	75	125	—	—	—
		EG020: Silver	7440-22-4	1 mg/L	88.0	—	75	125	—	—	—
		EG020: Thallium	7440-28-0	1 mg/L	93.0	—	75	125	—	—	—
		EG020: Tin	7440-31-5	1 mg/L	110	—	75	125	—	—	—
EG020: Vanadium	7440-62-2	1 mg/L	111	—	75	125	—	—	—		
EG020: Zinc	7440-66-6	1 mg/L	95.1	—	75	125	—	—	—		

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND  
          JOINT VENTURE  
Contact : MS JENNIFER CHAN  
Address : ATTENTION TO MS JENNIFER CHAN  
          P.O. BOX 45,  
          GENERAL POST OFFICE HONG KONG  
E-mail : jennifer.char@veolia.com  
Telephone : +852 2910 9709  
Facsimile : +852 2430 8011  
Project : -----  
Order number : -----  
C-O-C number : -----  
Site : -----

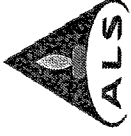
Laboratory : ALS Technichem (HK) Pty Ltd  
Page : 1 of 10  
Contact : Fung Lim Chee, Richard  
Work Order : HK1522570  
Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing  
          Yip Street, Kwai Chung, N.T., Hong Kong  
E-mail : Richard.Fung@alsglobal.com  
Telephone : +852 2610 1044  
Facsimile : +852 2610 2021  
Quote number : -----

Date Samples Received : 03-JUL-2015  
Issue Date : 07-JUL-2015  
No. of samples received : 13  
No. of samples analysed : 13

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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 563, Section 6.

Signatories : Fung Lim Chee, Richard  
Position : General Manager  
Authorised results for : Inorganics



Page Number : 2 of 10  
Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
Work Order : HK1522570

**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: 06-JUL-2015

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: **HK1522570**

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

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.88 - 4.98.



Page Number : 3 of 10  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1522570

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		Unit	Client sampling date / time	ASH BE	ASH BE	ASH BE	ASH BE
		LOR	Unit						
EA002: pH Value	---	0.1		pH Unit	30-JUN-2015 10:10	10.0	10.0	10.0	10.0
EA055: Moisture Content (dried @ 103°C)	---	0.1		%	30-JUN-2015 10:30	18.4	18.4	20.2	16.2
					01-JUL-2015 16:40	10.0	10.0	10.1	10.1
					02-JUL-2015 07:45	18.4	18.4	16.2	16.2
					02-JUL-2015 08:30	10.0	10.0	10.0	10.0

**EA002: Physical and Aggregate Properties**

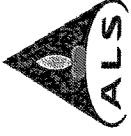
EA002: pH Value  
 EA055: Moisture Content (dried @ 103°C)





Page Number : 4 of 10  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1522570

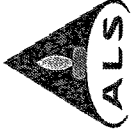
Compound	Client sample ID		ASH BE	ASH BE	ASH BE	ASH BE	ASH BE
	CAS Number	Client sampling date / time					
Sub-Matrix: SOLID			02-JUL-2015 09:10	02-JUL-2015 09:30	02-JUL-2015 10:30	02-JUL-2015 13:15	02-JUL-2015 13:45
EA002: pH Value	---	0.1	10.0	10.0	10.1	10.1	10.3
EA055: Moisture Content (dried @ 103°C)	---	0.1	15.7	15.3	18.5	20.5	19.5
<b>EA055: Physical and Aggregate Properties</b>							
HK1522570-006 HK1522570-007 HK1522570-008 HK1522570-009 HK1522570-010							



Page Number : 5 of 10  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1522570

Sub-Matrix: SOLID

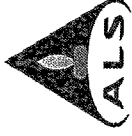
Compound	CAS Number	LOR	Client sample ID		
			Client sampling date / time	Unit	Unit
			02-JUL-2015 14:15	ASH BE	ASH BE
			02-JUL-2015 14:30	ASH BE	ASH BE
			02-JUL-2015 15:05	ASH BE	ASH BE
			HK1522570-011	HK1522570-012	HK1522570-013
<b>EA/ED: Physical and Aggregate Properties</b>					
EA002: pH Value	--	0.1	10.0	10.1	10.2
EA055: Moisture Content (dried @ 103°C)	--	0.1	15.8	16.6	21.8



Page Number : 6 of 10  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1522570

Sub-Matrix: TCLP LEACHATE		Client sample ID		ASH BE	ASH BE	ASH BE	ASH BE	ASH BE
Compound	CAS Number	LOR	Client sampling date / time	Unit	30-JUN-2015 12:00	30-JUN-2015 12:00	01-JUL-2015 12:00	02-JUL-2015 12:00
					HK1522570-001	HK1522570-002	HK1522570-003	HK1522570-004
					1	1	1	1
<b>EG: Metals and Major Cations - Filtered</b>								
EG020: Antimony	7440-36-0	1		mg/kg	<1	<1	<1	<1
EG020: Arsenic	7440-36-2	1		mg/kg	<1	<1	<1	<1
EG020: Barium	7440-36-3	1		mg/kg	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1		mg/kg	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1		mg/kg	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	1	1	1	1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1		mg/kg	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	1	1	1	1
<b>Sample Preparation Method</b>								
<b>E-TCLP: Extraction Fluid Number</b>								
					1	1	1	1
					1	1	1	1





Page Number : 8 of 10  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1522570

Sub-Matrix: TCLP LEACHATE		Client sample ID		Client sampling date / time	
Compound	CAS Number	LOR	Unit	ASH BE	ASH BE
<b>EG: Metals and Major Cations - Filtered</b>					
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1
EG020: Arsenic	7440-39-2	1	mg/kg	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1
EG020: Cadmium	7440-43-8	1	mg/kg	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1
EG020: Vanadium	7440-62-2	1	mg/kg	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	1	1
<b>Sample Preparation Method</b>					
<b>E-TCLP: Extraction Fluid Number</b>					
		-	-	1	1

02-JUL-2015 12:00  
 HK1522570-011

02-JUL-2015 12:00  
 HK1522570-012

02-JUL-2015 12:00  
 HK1522570-013

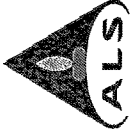


**Laboratory Duplicate (DUP) Report**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report			
				LOR	Unit	Original Result	Duplicate Result
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3974118)</b>							
HK1522570-010	ASH BE	EA002: pH Value	—	pH Unit	10.3	10.2	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3974731)</b>							
HK1522570-010	ASH BE	EA055: Moisture Content (dried @ 103°C)	—	%	19.5	19.9	2.0
HK1522570-001	ASH BE	EA055: Moisture Content (dried @ 103°C)	—	%	18.4	17.4	5.2

**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	LCS	DCS	Recovery Limits (%)	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3974113)</b>											
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	95.1	—	76	118	—	—
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	94.6	—	72	124	—	—
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	98.1	—	80	120	—	—
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	110	—	74	122	—	—
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	100	—	79	117	—	—
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	101	—	78	120	—	—
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	97.6	—	78	118	—	—
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	96.6	—	79	115	—	—
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	101	—	76	120	—	—
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	99.9	—	78	120	—	—
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	99.8	—	81	119	—	—
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	96.3	—	76	114	—	—
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	105	—	81	113	—	—
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	108	—	79	119	—	—
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	97.9	—	78	124	—	—
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	89.1	—	70	130	—	—



Page Number : 10 of 10  
 Client : VEOLIA WATER-LEIGHTON-JOHN HOLLAND JOINT VENTURE  
 Work Order : HK1522570

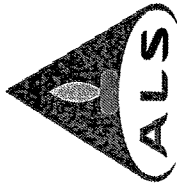
**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report**

Matrix: WATER

Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3974113) HK1522570-001	ASH BE		EG020: Antimony	7440-36-0	1 mg/L	106	—	—	75	125	—	—
			EG020: Arsenic	7440-38-2	1 mg/L	110	—	—	75	125	—	—
			EG020: Barium	7440-39-3	1 mg/L	103	—	—	75	125	—	—
			EG020: Beryllium	7440-41-7	1 mg/L	113	—	—	75	125	—	—
			EG020: Cadmium	7440-43-9	1 mg/L	104	—	—	75	125	—	—
			EG020: Chromium	7440-47-3	1 mg/L	106	—	—	75	125	—	—
			EG020: Copper	7440-50-8	1 mg/L	99.1	—	—	75	125	—	—
			EG020: Lead	7439-92-1	1 mg/L	95.6	—	—	75	125	—	—
			EG020: Mercury	7439-97-6	0.02 mg/L	102	—	—	75	125	—	—
			EG020: Nickel	7440-02-0	1 mg/L	107	—	—	75	125	—	—
			EG020: Selenium	7782-49-2	1 mg/L	121	—	—	75	125	—	—
			EG020: Silver	7440-22-4	1 mg/L	82.1	—	—	75	125	—	—
			EG020: Thallium	7440-28-0	1 mg/L	104	—	—	75	125	—	—
			EG020: Tin	7440-31-5	1 mg/L	116	—	—	75	125	—	—
			EG020: Vanadium	7440-62-2	1 mg/L	110	—	—	75	125	—	—
EG020: Zinc	7440-66-6	1 mg/L	105	—	—	75	125	—	—			

# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group ANALYTICAL CHEMISTRY & TESTING SERVICES



### CERTIFICATE OF ANALYSIS

Client : **VW-VES(HK) LTD**  
Contact : **MS JENNIFER CHAN**  
Address : **UNIT 7601,  
THE CENTER,  
99 QUEEN'S ROAD CENTRAL HONG KONG**  
E-mail : **jennifer.chan@veolia.com**  
Telephone : **+852 2910 9709**  
Facsimile : **+852 2430 8011**  
Project : **----**  
Order number : **----**  
C-O-C number : **----**  
Site : **----**

Laboratory : **ALS Technichem (HK) Pty Ltd**  
Contact : **Fung Lim Chee, Richard**  
Address : **11/F., Chung Shun Knitting Centre, 1 - 3 Wing  
Yip Street, Kwai Chung, N.T., Hong Kong**  
E-mail : **Richard.Fung@alsglobal.com**  
Telephone : **+852 2610 1044**  
Facsimile : **+852 2610 2021**  
Quote number : **----**  
Date Samples Received : **03-JUL-2015**  
Issue Date : **07-JUL-2015**  
No. of samples received : **41**  
No. of samples analysed : **41**

Page : **1 of 24**  
Work Order : **HK1522575**

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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

**Fung Lim Chee, Richard**

**General Manager**

**Inorganics**

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong  
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Page Number : 2 of 24  
Client : VW-VES(HK) LTD  
Work Order : HK1522575

**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: 06-JUL-2015

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: **HK1522575**

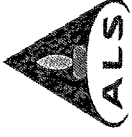
Sample(s) were picked up from client by ALS Technichem (HK) staff in an ambient condition.

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

pH determined and reported on a 1:5 soil / water extract.

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

The metal concentrations reported are those determined on the TCLP leachate. Extraction Fluid #1 pH 4.86 - 4.98. Extraction Fluid #2 pH 2.83 - 2.93.

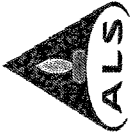


Page Number : 3 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

**Analytical Results**

Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		Unit	LOR	Client sampling date / time	pH Unit	%
		ASH A MIDDLE	ASH A MIDDLE					
EA002: pH Value	---	10.1	10.1		0.1	30-JUN-2015 16:40	pH Unit	
EA055: Moisture Content (dried @ 103°C)	---	18.9	18.5		0.1	30-JUN-2015 17:00	%	
		10.0	10.1			30-JUN-2015 18:00		
		13.7	13.7			30-JUN-2015 18:30		
		10.1	10.1			30-JUN-2015 18:30		
		23.1	23.1			30-JUN-2015 18:30		
		10.7	10.7			30-JUN-2015 18:30		
		24.4	24.4			30-JUN-2015 18:30		



Page Number : 4 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
		LOR	Unit					
EAIED: Physical and Aggregate Properties								
EA002: pH Value	—	0.1	pH Unit	10.8	10.7	10.7	10.8	10.7
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	23.0	27.4	24.2	23.9	23.8



Page Number : 5 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Sub-Matrix: SOLID

Compound	CAS Number		Client sampling date / time		RESIDUE AF	RESIDUE AF	RESIDUE BF	RESIDUE BF	RESIDUE BF
	LOR	Unit	LOR	Unit					
<b>EA/ED: Physical and Aggregate Properties</b>									
EA002: pH Value	---	0.1	pH Unit	10.8	10.8	10.8	10.8	10.8	10.9
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	24.9	27.6	14.4	26.4	26.9	



Page Number : 6 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Compound	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	ASH A MIDDLE
	CAS Number	LOR						
EA002: pH Value	---	0.1	10.8	10.8	10.9	10.8	10.8	10.4
EA055: Moisture Content (dried @ 103°C)	---	0.1	28.2	24.0	28.8	24.0	22.2	19.8

Sub-Matrix: SOLID

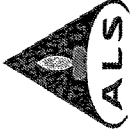
EAJED: Physical and Aggregate Properties



Page Number : 7 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
		Client sampling date / time	Unit					
EA002: pH Value	—	0.1	pH Unit	10.7	10.6	10.6	10.7	10.8
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	20.1	18.4	18.0	20.7	26.3
IAEAED: Physical and Aggregate Properties EA002: pH Value EA055: Moisture Content (dried @ 103°C)								



Page Number : 8 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Compound	CAS Number	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE BF	RESIDUE BF
		Client sampling date / time	Unit					
		LOR		01-JUL-2015 13:10	01-JUL-2015 13:55	01-JUL-2015 14:55	01-JUL-2015 07:45	01-JUL-2015 09:00
				HK1522575-026	HK1522575-027	HK1522575-028	HK1522575-029	HK1522575-030
<b>EA002: pH Value</b>								
	--	0.1	pH Unit	10.9	10.8	10.7	10.9	10.7
<b>EA055: Moisture Content (dried @ 103°C)</b>								
	--	0.1	%	24.4	23.9	24.5	7.4	23.2

Sub-Matrix: SOLID



Page Number : 9 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Sub-Matrix: SOLID

Compound	CAS Number	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
		Client sampling date / time	Unit					
EA002: pH Value	---	0.1	pH Unit	10.8	10.9	10.9	10.9	10.9
EA056: Moisture Content (dried @ 103°C)	---	0.1	%	23.2	27.5	18.5	23.0	26.0

EA056: Physical and Aggregate Properties





Page Number : 10 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Compound	CAS Number	Client sample ID		RESIDUE BF	ASH A MIDDLE	ASH A MIDDLE	RESIDUE AE	RESIDUE AE
		LOR	Unit					
EA002: pH Value	---	0.1	pH Unit	10.9	10.4	10.2	10.6	10.7
EA055: Moisture Content (dried @ 103°C)	---	0.1	%	24.3	21.4	21.0	27.1	17.0

Sub-Matrix: SOLID

EA/ED: Physical and Aggregate Properties



Page Number : 11 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Sub-Matrix: SOLID

Compound	CAS Number	Client sampling date / time		Unit	LOR	Client sample ID
		LOR	Unit			
<b>RESIDUE AE</b>						
02-JUL-2015 17:30						
HK1522575-041						
<b>EAIED: Physical and Aggregate Properties</b>						
EA002: pH Value	—	0.1	pH Unit	10.7		
EA055: Moisture Content (dried @ 103°C)	—	0.1	%	9.3		



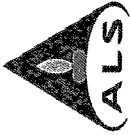
Page Number : 12 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Sub-Matrix: TCLP LEACHATE

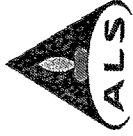
Compound	CAS Number	Client sample ID		LOR	Unit	Client sampling date / time				RESIDUE AF						
		ASH A MIDDLE	ASH A MIDDLE			ASH A MIDDLE	ASH A MIDDLE	ASH A MIDDLE	ASH A MIDDLE		RESIDUE AF					
EG020: Antimony	7440-36-0	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-005				
EG020: Arsenic	7440-39-2	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-004				
EG020: Barium	7440-39-3	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-003				
EG020: Beryllium	7440-41-7	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-002				
EG020: Cadmium	7440-43-9	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-001				
EG020: Chromium	7440-47-3	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-001				
EG020: Copper	7440-50-8	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-001				
EG020: Lead	7439-92-1	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-001				
EG020: Mercury	7439-97-6	0.2	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	30-JUN-2015 12:00	HK1522575-001				
EG020: Nickel	7440-02-0	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-001				
EG020: Selenium	7782-49-2	0.2	mg/kg	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	30-JUN-2015 12:00	HK1522575-001				
EG020: Silver	7440-22-4	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-001				
EG020: Thallium	7440-28-0	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-001				
EG020: Tin	7440-31-5	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-001				
EG020: Vanadium	7440-65-2	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-001				
EG020: Zinc	7440-66-6	1	mg/kg	1	<1	<1	<1	<1	<1	<1	30-JUN-2015 12:00	HK1522575-001				
Sample Preparation Method											1	1	1	1	1	1
E-TCLP: Extraction Fluid Number											1	1	1	1	1	1







Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	ASH A MIDDLE
Compound	CAS Number	LOR	Client sampling date / time	30-JUN-2015 12:00	30-JUN-2015 12:00	30-JUN-2015 12:00	30-JUN-2015 12:00	01-JUL-2015 12:00
			Unit	HK1522575-016	HK1522575-017	HK1522575-018	HK1522575-019	HK1522575-020
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-38-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	1	1	1	1	1
EG020: Lead	7439-92-1	1	mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-65-2	1	mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	<1	<1	<1	<1	<1
Sample Preparation Method								
E-TCLP: Extraction Fluid Number								
				2	2	2	2	1



Page Number : 16 of 24  
 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

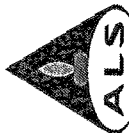
Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LOR	Client sample ID		RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF	RESIDUE AF
			Client sampling date / time	Unit					
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0	1			<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1			<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1			<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1			<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1			<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1			<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1			<1	<1	<1	<1	<1
EG020: Lead	7439-92-1	1			<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2			<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1			<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2			<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1			<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1			<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1			<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1			<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1			<1	<1	<1	<1	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid Number									
					1	1	1	1	1

E-TCLP: Extraction Fluid Number







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 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Sub-Matrix: TCLP LEACHATE

Compound	CAS Number	LOR	Client sample ID		RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF	RESIDUE BF
			Client sampling date / time	Unit					
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-38-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1		mg/kg	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1		mg/kg	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1		mg/kg	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-8	1		mg/kg	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-5	1		mg/kg	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1		mg/kg	1	1	<1	<1	<1
EG020: Lead	7439-92-1	1		mg/kg	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2		mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1		mg/kg	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1		mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1		mg/kg	<1	<1	<1	<1	<1
EG020: Vanadium	7440-66-2	1		mg/kg	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1		mg/kg	<1	<1	<1	<1	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid Number									
					2	2	2	2	2

RESIDUE BF

RESIDUE BF

RESIDUE BF

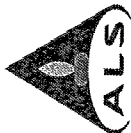
RESIDUE BF

RESIDUE BF

RESIDUE BF

RESIDUE BF

RESIDUE BF



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 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Compound	CAS Number	LOR	Client sample ID		RESIDUE BF	ASH A MIDDLE	ASH A MIDDLE	RESIDUE AE	RESIDUE AE
			Client sampling date / time	Unit					
Sub-Matrix: TCLP LEACHATE									
EG: Metals and Major Cations - Filtered									
EG020: Antimony	7440-36-0	1		01-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Chromium	7440-47-3	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Lead	7439-92-1	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/kg	02-JUL-2015 12:00	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/kg	02-JUL-2015 12:00	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Vanadium	7440-66-2	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/kg	02-JUL-2015 12:00	<1	<1	<1	<1	<1
Sample Preparation Method									
E-TCLP: Extraction Fluid Number									
				2	1	1	1	1	1

Client sampling date / time

Unit

RESIDUE BF

ASH A MIDDLE

ASH A MIDDLE

RESIDUE AE

RESIDUE AE

Compound

CAS Number

LOR

Client sampling date / time

Unit

RESIDUE BF

ASH A MIDDLE

ASH A MIDDLE

RESIDUE AE

RESIDUE AE

EG: Metals and Major Cations - Filtered

EG020: Antimony

EG020: Arsenic

EG020: Barium

EG020: Beryllium

EG020: Cadmium

EG020: Chromium

EG020: Copper

EG020: Lead

EG020: Mercury

EG020: Nickel

EG020: Selenium

EG020: Silver

EG020: Thallium

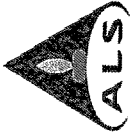
EG020: Tin

EG020: Vanadium

EG020: Zinc

Sample Preparation Method

E-TCLP: Extraction Fluid Number



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 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Sub-Matrix: TCLP LEACHATE		Client sample ID		RESIDUE AE	
Compound	CAS Number	LOR	Unit	Client sampling date / time	Client sample ID
<b>EG: Metals and Major Cations - Filtered</b>					
EG020: Antimony	7440-36-0	1	mg/kg	<1	
EG020: Arsenic	7440-38-2	1	mg/kg	<1	
EG020: Barium	7440-39-3	1	mg/kg	<1	
EG020: Beryllium	7440-41-7	1	mg/kg	<1	
EG020: Cadmium	7440-43-9	1	mg/kg	<1	
EG020: Chromium	7440-47-3	1	mg/kg	<1	
EG020: Copper	7440-50-9	1	mg/kg	<1	
EG020: Lead	7439-92-1	1	mg/kg	<1	
EG020: Mercury	7439-97-8	0.2	mg/kg	<0.2	
EG020: Nickel	7440-02-0	1	mg/kg	<1	
EG020: Selenium	7782-49-2	0.2	mg/kg	<0.2	
EG020: Silver	7440-22-4	1	mg/kg	<1	
EG020: Thallium	7440-28-0	1	mg/kg	<1	
EG020: Tin	7440-31-5	1	mg/kg	<1	
EG020: Vanadium	7440-65-2	1	mg/kg	<1	
EG020: Zinc	7440-66-6	1	mg/kg	<1	
<b>Sample Preparation Method</b>					
<b>E-TCLP: Extraction Fluid Number</b>					
					1



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 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

**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 (%)
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3974118)</b>								
HK1522570-010	Anonymous	EA002: pH Value		0.1	pH Unit	10.3	10.2	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3974119)</b>								
HK1522570-001	Anonymous	EA002: pH Value		0.1	pH Unit	10.0	10.2	1.1
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3974120)</b>								
HK1522575-011	RESIDUE AF	EA002: pH Value		0.1	pH Unit	10.8	10.8	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3974731)</b>								
HK1522570-010	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	19.5	19.9	2.0
HK1522570-001	Anonymous	EA055: Moisture Content (dried @ 103°C)		0.1	%	18.4	17.4	5.2
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3974732)</b>								
HK1522575-011	RESIDUE AF	EA055: Moisture Content (dried @ 103°C)		0.1	%	24.9	24.1	3.0
HK1522575-021	RESIDUE AF	EA055: Moisture Content (dried @ 103°C)		0.1	%	20.1	20.1	0.0
<b>EA/ED: Physical and Aggregate Properties (QC Lot: 3974733)</b>								
HK1522575-031	RESIDUE BF	EA055: Moisture Content (dried @ 103°C)		0.1	%	23.2	22.5	2.9
HK1522575-041	RESIDUE AE	EA055: Moisture Content (dried @ 103°C)		0.1	%	9.3	9.1	2.7

**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								
Method, Compound	CAS Number	LOR	Unit	Result	Spike Concentration	LCS	Spike Recovery (%)	DCS	Recovery Limits (%)	Low	High	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3974113)</b>														
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	95.1			76	118				
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	94.6			72	124				
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	98.1			80	120				
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	110			74	122				
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	100			79	117				
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	101			78	120				
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	97.6			78	118				
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	96.6			79	115				
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	101			76	120				
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	99.9			78	120				
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	99.8			81	119				
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	96.3			76	114				
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	105			81	113				
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	108			79	119				
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	97.9			78	124				
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	89.1			70	130				
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3974114)</b>														
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	97.9			76	118				
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	100			72	124				



Matrix: WATER		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 Low	Recovery High	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3974114) - Continued</b>												
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	100	---	80	120	---	---	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	108	---	74	122	---	---	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	102	---	79	117	---	---	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	103	---	78	120	---	---	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	106	---	78	118	---	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	98.1	---	79	115	---	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	95.3	---	76	120	---	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	109	---	78	120	---	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	92.8	---	81	119	---	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	98.3	---	76	114	---	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	104	---	81	113	---	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	111	---	79	119	---	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	110	---	78	124	---	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	90.8	---	70	130	---	---	---
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3974115)</b>												
EG020: Antimony	7440-36-0	1	mg/L	<1	1 mg/L	106	---	76	118	---	---	---
EG020: Arsenic	7440-38-2	1	mg/L	<1	1 mg/L	112	---	72	124	---	---	---
EG020: Barium	7440-39-3	1	mg/L	<1	1 mg/L	108	---	80	120	---	---	---
EG020: Beryllium	7440-41-7	1	mg/L	<1	1 mg/L	109	---	74	122	---	---	---
EG020: Cadmium	7440-43-9	0.1	mg/L	<0.1	1 mg/L	109	---	79	117	---	---	---
EG020: Chromium	7440-47-3	1	mg/L	<1	1 mg/L	106	---	78	120	---	---	---
EG020: Copper	7440-50-8	1	mg/L	<1	1 mg/L	105	---	78	118	---	---	---
EG020: Lead	7439-92-1	1	mg/L	<1	1 mg/L	103	---	79	115	---	---	---
EG020: Mercury	7439-97-6	0.1	mg/L	<0.1	0.02 mg/L	104	---	76	120	---	---	---
EG020: Nickel	7440-02-0	1	mg/L	<1	1 mg/L	104	---	78	120	---	---	---
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	1 mg/L	107	---	81	119	---	---	---
EG020: Silver	7440-22-4	1	mg/L	<1	1 mg/L	102	---	76	114	---	---	---
EG020: Thallium	7440-28-0	1	mg/L	<1	1 mg/L	100	---	81	113	---	---	---
EG020: Tin	7440-31-5	1	mg/L	<1	1 mg/L	100	---	79	119	---	---	---
EG020: Vanadium	7440-62-2	1	mg/L	<1	1 mg/L	110	---	78	124	---	---	---
EG020: Zinc	7440-66-6	1	mg/L	<1	1 mg/L	102	---	70	130	---	---	---



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

Matrix: WATER

Laboratory Sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	Value	RPD (%)	Control Limit
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3974113)</b>											
HK1522570-001	Anonymous	EG020: Antimony	7440-36-0	1 mg/L	106	—	—	75	125	—	—
		EG020: Arsenic	7440-38-2	1 mg/L	110	—	—	75	125	—	—
		EG020: Barium	7440-39-3	1 mg/L	103	—	—	75	125	—	—
		EG020: Beryllium	7440-41-7	1 mg/L	113	—	—	75	125	—	—
		EG020: Cadmium	7440-43-9	1 mg/L	104	—	—	75	125	—	—
		EG020: Chromium	7440-47-3	1 mg/L	106	—	—	75	125	—	—
		EG020: Copper	7440-50-8	1 mg/L	99.1	—	—	75	125	—	—
		EG020: Lead	7439-92-1	1 mg/L	95.6	—	—	75	125	—	—
		EG020: Mercury	7439-97-6	0.02 mg/L	102	—	—	75	125	—	—
		EG020: Nickel	7440-02-0	1 mg/L	107	—	—	75	125	—	—
		EG020: Selenium	7782-49-2	1 mg/L	121	—	—	75	125	—	—
		EG020: Silver	7440-22-4	1 mg/L	82.1	—	—	75	125	—	—
		EG020: Thallium	7440-28-0	1 mg/L	104	—	—	75	125	—	—
		EG020: Tin	7440-31-5	1 mg/L	116	—	—	75	125	—	—
		EG020: Vanadium	7440-62-2	1 mg/L	110	—	—	75	125	—	—
		EG020: Zinc	7440-66-6	1 mg/L	105	—	—	75	125	—	—
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3974114)</b>											
HK1522575-008	RESIDUE AF	EG020: Antimony	7440-36-0	1 mg/L	109	—	—	75	125	—	—
		EG020: Arsenic	7440-38-2	1 mg/L	111	—	—	75	125	—	—
		EG020: Barium	7440-39-3	1 mg/L	105	—	—	75	125	—	—
		EG020: Beryllium	7440-41-7	1 mg/L	108	—	—	75	125	—	—
		EG020: Cadmium	7440-43-9	1 mg/L	108	—	—	75	125	—	—
		EG020: Chromium	7440-47-3	1 mg/L	110	—	—	75	125	—	—
		EG020: Copper	7440-50-8	1 mg/L	100	—	—	75	125	—	—
		EG020: Lead	7439-92-1	1 mg/L	98.2	—	—	75	125	—	—
		EG020: Mercury	7439-97-6	0.02 mg/L	109	—	—	75	125	—	—
		EG020: Nickel	7440-02-0	1 mg/L	110	—	—	75	125	—	—
		EG020: Selenium	7782-49-2	1 mg/L	106	—	—	75	125	—	—
		EG020: Silver	7440-22-4	1 mg/L	98.8	—	—	75	125	—	—
		EG020: Thallium	7440-28-0	1 mg/L	108	—	—	75	125	—	—
		EG020: Tin	7440-31-5	1 mg/L	114	—	—	75	125	—	—
		EG020: Vanadium	7440-62-2	1 mg/L	120	—	—	75	125	—	—
		EG020: Zinc	7440-66-6	1 mg/L	101	—	—	75	125	—	—
<b>EG: Metals and Major Cations - Filtered (QC Lot: 3974115)</b>											
HK1522575-028	RESIDUE AF	EG020: Antimony	7440-36-0	1 mg/L	113	—	—	75	125	—	—
		EG020: Arsenic	7440-38-2	1 mg/L	122	—	—	75	125	—	—
		EG020: Barium	7440-39-3	1 mg/L	114	—	—	75	125	—	—
		EG020: Beryllium	7440-41-7	1 mg/L	124	—	—	75	125	—	—



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 Client : VW-VES(HK) LTD  
 Work Order : HK1522575

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report								
				Spike Concentration	MS	Spike Recovery (%)	MSD	Recovery Limits (%)	High	Value	RPD (%)	Control Limit
EG: Metals and Major Cations - Filtered (QC Lot: 3974115) - Continued HK1522575-028 RESIDUE AF		EG020: Cadmium	7440-43-9	1 mg/L	114	75	125	---	---	---	---	---
		EG020: Chromium	7440-47-3	1 mg/L	120	75	125	---	---	---	---	---
		EG020: Copper	7440-50-8	1 mg/L	114	75	125	---	---	---	---	---
		EG020: Lead	7439-92-1	1 mg/L	107	75	125	---	---	---	---	---
		EG020: Mercury	7439-97-6	0.02 mg/L	99.0	75	125	---	---	---	---	---
		EG020: Nickel	7440-02-0	1 mg/L	116	75	125	---	---	---	---	---
		EG020: Selenium	7782-49-2	1 mg/L	101	75	125	---	---	---	---	---
		EG020: Silver	7440-22-4	1 mg/L	92.4	75	125	---	---	---	---	---
		EG020: Thallium	7440-28-0	1 mg/L	109	75	125	---	---	---	---	---
		EG020: Tin	7440-31-5	1 mg/L	106	75	125	---	---	---	---	---
		EG020: Vanadium	7440-62-2	1 mg/L	125	75	125	---	---	---	---	---
		EG020: Zinc	7440-66-6	1 mg/L	107	75	125	---	---	---	---	---