Annex B2

Castable and Refractory Bricks Analysis Results

CERTIFICATE OF ANALYSIS

Client	: **GREEN ISLAND CEMENT CO LIMITED**	*Laboratory*	: **ALS Technichem (HK) Pty Ltd**	*Page*	: **1 of 9**		
Contact	: **MR SUNNY KWONG**	*Contact*	: **Alice Wong**	*Work Order*	: **HK0806570**		
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Project	: **(ERM 0071019)**	*Quote number*	: **----**	*Date received*	: **26 Apr 2008**		
Order number	: **----**			*Date of issue*	:		
C-O-C number	: **H002583-H002584**			*No. of samples*	- *Received* : **13**		
Site	: **GIC**				- *Analysed* : **10**		

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0806570 supersedes any previous reports with this reference. The completion date of analysis is 30 Apr 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0806570 :

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

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

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.

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

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Signatory	*Position*	*Authorised results for:-*
Fung Lim Chee, Richard	**General Manager**	**Inorganics**

Analytical Results

Submatrix: SOIL

Method: Analysis Description	*CAS number*	*LOR*	*Units*	**Client Sample ID :** **S1** / Laboratory Sample ID : **HK0806570-001** / Sample Date / Time : 25 Apr 2008 10:00	**S2** / **HK0806570-002** / 25 Apr 2008 11:00	**S3** / **HK0806570-003** / 25 Apr 2008 13:30	**S41** / **HK0806570-005** / 25 Apr 2008 14:00	**S5** / **HK0806570-007** / 25 Apr 2008 14:30
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1
EG: Metals and Major Cations								
EG020: Antimony	7440-36-0	1	mg/kg	**1**	<1	**3**	<1	**2**
EG020: Arsenic	7440-38-2	1	mg/kg	**5**	**4**	**4**	<1	**12**
EG020: Barium	7440-39-3	1	mg/kg	**38**	**18**	**141**	**33**	**43**
EG020: Cadmium	7440-43-9	0.2	mg/kg	**0.3**	**0.3**	**1.6**	<0.2	**0.7**
EG020: Cobalt	7440-48-4	1	mg/kg	<1	**2**	**3**	<1	<1
EG020: Copper	7440-50-8	1	mg/kg	**25**	**4**	**18**	**5**	**5**
EG020: Lead	7439-92-1	1	mg/kg	**13**	**9**	**67**	**72**	**63**
EG020: Manganese	7439-96-5	1	mg/kg	**47**	**26**	**72**	**33**	**53**
EG020: Mercury	7439-97-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EG020: Molybdenum	7439-98-7	1	mg/kg	<1	<1	<1	<1	**3**
EG020: Nickel	7440-02-0	1	mg/kg	**11**	**3**	**7**	<1	<1
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	**10**	<1	**14**	<1	**6**
EG020: Vanadium	7440-62-2	1	mg/kg	**32**	**28**	**48**	**82**	**57**
EG020: Zinc	7440-66-6	1	mg/kg	**77**	**3**	**72**	**37**	**24**
EG049: Trivalent Chromium	16065-83-1	1	mg/kg	**8**	**3**	**14**	**2**	**12**
EG050: Hexavalent Chromium	18540-29-9	1	mg/kg	<1	<1	<1	<1	<1

Analytical Results

Submatrix: SOIL

Method: Analysis Description	CAS number	LOR	Units	Client Sample ID : S6 / Laboratory Sample ID : HK0806570-008 / Sample Date / Time : 25 Apr 2008 15:00	S7 / HK0806570-009 / 25 Apr 2008 16:00	S8 / HK0806570-010 / 25 Apr 2008 16:00	S9 / HK0806570-012 / 25 Apr 2008 16:30	S10 / HK0806570-013 / 25 Apr 2008 16:30
EA/ED: Physical and Aggregate Properties								
EA055: Moisture Content (dried @ 103°C)	----	0.1	%	<0.1	**0.2**	**3.2**	**13.9**	**0.2**
EG: Metals and Major Cations								
EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	<1	**3**	<1
EG020: Arsenic	7440-38-2	1	mg/kg	**3**	**2**	**2**	**6**	**3**
EG020: Barium	7440-39-3	1	mg/kg	**37**	**36**	**67**	**137**	**29**
EG020: Cadmium	7440-43-9	0.2	mg/kg	**0.3**	**0.3**	<0.2	**4.1**	<0.2
EG020: Cobalt	7440-48-4	1	mg/kg	**2**	<1	**2**	**10**	**1**
EG020: Copper	7440-50-8	1	mg/kg	**15**	**6**	**19**	**41**	**18**
EG020: Lead	7439-92-1	1	mg/kg	**22**	**34**	**94**	**200**	**13**
EG020: Manganese	7439-96-5	1	mg/kg	**49**	**37**	**83**	**600**	**66**
EG020: Mercury	7439-97-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EG020: Molybdenum	7439-98-7	1	mg/kg	**1**	<1	**1**	**13**	**2**
EG020: Nickel	7440-02-0	1	mg/kg	**7**	**4**	**15**	**310**	**6**
EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/kg	**3**	**2**	**2**	**11**	**3**
EG020: Vanadium	7440-62-2	1	mg/kg	**79**	**80**	**77**	**23**	**62**
EG020: Zinc	7440-66-6	1	mg/kg	**236**	**9**	**18**	**77**	**14**
EG049: Trivalent Chromium	16065-83-1	1	mg/kg	**21**	**26**	**35**	**315**	**39**
EG050: Hexavalent Chromium	18540-29-9	1	mg/kg	**1**	**14**	**4**	**128**	**6**

Analytical Results

Submatrix: TCLP LEACHATE

Method: Analysis Description	*CAS number*	*LOR*	*Units*	**Client Sample ID :** **S1**	**S2**	**S3**	**S41**	**S5**
				Laboratory Sample ID : **HK0806570-001**	**HK0806570-002**	**HK0806570-003**	**HK0806570-005**	**HK0806570-007**
				Sample Date / Time : 25 Apr 2008 12:00	25 Apr 2008 12:00	25 Apr 2008 12:00	25 Apr 2008 12:00	25 Apr 2008 12:00
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-36-0	1	mg/L	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/L	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/L	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/L	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	0.2	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Chromium	7440-47-3	1	mg/L	<1	<1	<1	<1	<1
EG020: Copper	7440-50-8	1	mg/L	<1	<1	<1	<1	<1
EG020: Lead	7439-92-1	1	mg/L	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/L	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/L	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/L	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/L	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/L	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/L	<1	<1	<1	<1	<1
Sample Preparation Method								
E-TCLP: Extraction Fluid Number	----	-	--	**1**	**1**	**1**	**1**	**1**

Analytical Results

Submatrix: TCLP LEACHATE

Method: Analysis Description	*CAS number*	*LOR*	*Units*	**Client Sample ID :** **S6**	**S7**	**S8**	**S9**	**S10**
				Laboratory Sample ID : **HK0806570-008**	**HK0806570-009**	**HK0806570-010**	**HK0806570-012**	**HK0806570-013**
				Sample Date / Time : 25 Apr 2008 12:00	25 Apr 2008 12:00	25 Apr 2008 12:00	25 Apr 2008 12:00	25 Apr 2008 12:00
EG: Metals and Major Cations - Filtered								
EG020: Antimony	7440-36-0	1	mg/L	<1	<1	<1	<1	<1
EG020: Arsenic	7440-38-2	1	mg/L	<1	<1	<1	<1	<1
EG020: Barium	7440-39-3	1	mg/L	<1	<1	<1	<1	<1
EG020: Beryllium	7440-41-7	1	mg/L	<1	<1	<1	<1	<1
EG020: Cadmium	7440-43-9	0.2	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Chromium	7440-47-3	1	mg/L	<1	<1	<1	**4**	<1
EG020: Copper	7440-50-8	1	mg/L	<1	<1	<1	<1	<1
EG020: Lead	7439-92-1	1	mg/L	<1	<1	<1	<1	<1
EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Nickel	7440-02-0	1	mg/L	<1	<1	<1	<1	<1
EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
EG020: Silver	7440-22-4	1	mg/L	<1	<1	<1	<1	<1
EG020: Thallium	7440-28-0	1	mg/L	<1	<1	<1	<1	<1
EG020: Tin	7440-31-5	1	mg/L	<1	<1	<1	<1	<1
EG020: Vanadium	7440-62-2	1	mg/L	<1	<1	<1	<1	<1
EG020: Zinc	7440-66-6	1	mg/L	<1	<1	<1	<1	<1
Sample Preparation Method								
E-TCLP: Extraction Fluid Number	----	-	--	**1**	**1**	**1**	**2**	**1**

Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: SOIL				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 646399)								
HK0806106-001	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	52.7	52.5	0.3
HK0806106-011	Anonymous	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	49.2	48.2	2.2
EA/ED: Physical and Aggregate Properties (QC Lot: 646400)								
HK0806570-013	S10	EA055: Moisture Content (dried @ 103°C)	----	0.1	%	0.2	0.3	0.0
EG: Metals and Major Cations (QC Lot: 646406)								
HK0806570-002	S2	EG020: Antimony	7440-36-0	1	mg/kg	<1	<1	0.0
		EG020: Lead	7439-92-1	1	mg/kg	9	7	15.7
		EG020: Manganese	7439-96-5	1	mg/kg	26	24	4.2
		EG020: Mercury	7439-97-6	0.05	mg/kg	<0.05	<0.05	0.0
		EG020: Molybdenum	7439-98-7	1	mg/kg	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	mg/kg	3	2	0.0
		EG020: Thallium	7440-28-0	1	mg/kg	<1	<1	0.0
		EG020: Tin	7440-31-5	1	mg/kg	<1	<1	0.0
		EG020: Arsenic	7440-38-2	1	mg/kg	4	4	0.0
		EG020: Vanadium	7440-62-2	1	mg/kg	28	26	7.0
		EG020: Zinc	7440-66-6	1	mg/kg	3	3	0.0
		EG020: Barium	7440-39-3	1	mg/kg	18	17	0.0
		EG020: Cadmium	7440-43-9	0.2	mg/kg	0.3	0.2	0.0
		EG020: Cobalt	7440-48-4	1	mg/kg	2	1	0.0
		EG020: Copper	7440-50-8	1	mg/kg	4	4	0.0
EG: Metals and Major Cations (QC Lot: 648311)								
HK0806499-002	Anonymous	EG050: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0
HK0806570-001	S1	EG050: Hexavalent Chromium	18540-29-9	1	mg/kg	<1	<1	0.0

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 650930)								
HK0806570-002	S2	EG020: Antimony	7440-36-0	1	mg/L	<1	<1	0.0
		EG020: Lead	7439-92-1	1	mg/L	<1	<1	0.0
		EG020: Mercury	7439-97-6	0.2	mg/L	<0.2	<0.2	0.0
		EG020: Nickel	7440-02-0	1	mg/L	<1	<1	0.0
		EG020: Selenium	7782-49-2	0.2	mg/L	<0.2	<0.2	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: Arsenic	7440-38-2	1	mg/L	<1	<1	0.0
		EG020: Vanadium	7440-62-2	1	mg/L	<1	<1	0.0

Matrix Type: WATER				Duplicate (DUP) Results				
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Filtered (QC Lot: 650930) - continued								
HK0806570-002	S2	EG020: Zinc	7440-66-6	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	0.2	mg/L	<0.2	<0.2	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

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Matrix Type: SOIL		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QCLot: 646406)											
EG020: Antimony	7440-36-0	1	mg/kg	<1	5 mg/kg	90.7	----	85	115	----	----
EG020: Lead	7439-92-1	1	mg/kg	<1	5 mg/kg	90.2	----	85	115	----	----
EG020: Manganese	7439-96-5	1	mg/kg	<1	5 mg/kg	89.9	----	85	115	----	----
EG020: Mercury	7439-97-6	0.05	mg/kg	<0.05	0.1 mg/kg	105	----	85	115	----	----
EG020: Molybdenum	7439-98-7	1	mg/kg	<1	5 mg/kg	96.4	----	85	115	----	----
EG020: Nickel	7440-02-0	1	mg/kg	<1	5 mg/kg	88.4	----	85	115	----	----
EG020: Thallium	7440-28-0	1	mg/kg	<1	5 mg/kg	92.9	----	85	115	----	----
EG020: Tin	7440-31-5	1	mg/kg	<1	5 mg/kg	95.2	----	85	115	----	----
EG020: Arsenic	7440-38-2	1	mg/kg	<1	5 mg/kg	85.5	----	85	115	----	----
EG020: Vanadium	7440-62-2	1	mg/kg	<1	5 mg/kg	86.6	----	85	115	----	----
EG020: Zinc	7440-66-6	1	mg/kg	<1	5 mg/kg	85.4	----	85	115	----	----
EG020: Barium	7440-39-3	1	mg/kg	<1	5 mg/kg	97.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	mg/kg	<0.2	5 mg/kg	95.4	----	85	115	----	----
EG020: Cobalt	7440-48-4	1	mg/kg	<1	5 mg/kg	88.3	----	85	115	----	----
EG020: Copper	7440-50-8	1	mg/kg	<1	5 mg/kg	93.2	----	85	115	----	----
EG: Metals and Major Cations (QCLot: 648311)											
EG050: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	2.5 mg/kg	114	----	85	115	----	----

Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QCLot: 650930)											
EG020: Antimony	7440-36-0	0.001	mg/L	<1	1 mg/L	85.9	----	85	115	----	----
EG020: Lead	7439-92-1	0.001	mg/L	<0.1	1 mg/L	92.9	----	85	115	----	----
EG020: Mercury	7439-97-6	0.0001	mg/L	<0.2	0.02 mg/L	105	----	85	115	----	----
EG020: Nickel	7440-02-0	0.001	mg/L	<1	1 mg/L	98.3	----	85	115	----	----
EG020: Selenium	7782-49-2	0.01	mg/L	<0.2	1 mg/L	106	----	85	115	----	----

Matrix Type: WATER

		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations - Filtered (QCLot: 650930) - continued											
EG020: Silver	7440-22-4	0.001	mg/L	<1	1 mg/L	95.6	----	85	115	----	----
EG020: Thallium	7440-28-0	0.001	mg/L	<1	1 mg/L	89.2	----	85	115	----	----
EG020: Tin	7440-31-5	0.01	mg/L	<1	1 mg/L	89.6	----	85	115	----	----
EG020: Arsenic	7440-38-2	0.01	mg/L	<1	1 mg/L	104	----	85	115	----	----
EG020: Vanadium	7440-62-2	0.01	mg/L	<1	1 mg/L	108	----	85	115	----	----
EG020: Zinc	7440-66-6	0.01	mg/L	<1	1 mg/L	103	----	85	115	----	----
EG020: Barium	7440-39-3	0.001	mg/L	<1	1 mg/L	90.2	----	85	115	----	----
EG020: Beryllium	7440-41-7	0.001	mg/L	<1	1 mg/L	97.2	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.0002	mg/L	<0.2	1 mg/L	95.8	----	85	115	----	----
EG020: Chromium	7440-47-3	0.001	mg/L	<0.1	1 mg/L	107	----	85	115	----	----
EG020: Copper	7440-50-8	0.001	mg/L	<0.1	1 mg/L	102	----	85	115	----	----

Quality Control - Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Matrix Type: SOIL

				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QCLot: 646406)										
HK0806570-001	S1	EG020: Antimony	7440-36-0	5 mg/kg	79.6	----	75	125	----	----
		EG020: Lead	7439-92-1	5 mg/kg	80.4	----	75	125	----	----
		EG020: Manganese	7439-96-5	5 mg/kg	Not Determined	----	75	125	----	----
		EG020: Mercury	7439-97-6	0.1 mg/kg	78.5	----	75	125	----	----
		EG020: Molybdenum	7439-98-7	5 mg/kg	96.4	----	75	125	----	----
		EG020: Nickel	7440-02-0	5 mg/kg	85.3	----	75	125	----	----
		EG020: Thallium	7440-28-0	5 mg/kg	76.0	----	75	125	----	----
		EG020: Tin	7440-31-5	5 mg/kg	86.6	----	75	125	----	----
		EG020: Arsenic	7440-38-2	5 mg/kg	75.7	----	75	125	----	----
		EG020: Vanadium	7440-62-2	5 mg/kg	Not Determined	----	75	125	----	----
		EG020: Zinc	7440-66-6	5 mg/kg	Not Determined	----	75	125	----	----
		EG020: Barium	7440-39-3	5 mg/kg	Not Determined	----	75	125	----	----
		EG020: Cadmium	7440-43-9	5 mg/kg	95.2	----	75	125	----	----
		EG020: Cobalt	7440-48-4	5 mg/kg	87.1	----	75	125	----	----
		EG020: Copper	7440-50-8	5 mg/kg	Not Determined	----	75	125	----	----
EG: Metals and Major Cations (QCLot: 648311)										
HK0806499-001	Anonymous	EG050: Hexavalent Chromium	18540-29-9	2.5 mg/kg	117	----	75	125	----	----

Matrix Type: WATER

				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	Concentration	MS	MSD	Low	High	Value	Control Limit

Matrix Type: WATER

				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results						
				Spike	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
Laboratory Sample ID	*Client Sample ID*	*Method: Analysis Description*	*CAS number*	*Concentration*	*MS*	*MSD*	*Low*	*High*	*Value*	*Control Limit*
EG: Metals and Major Cations - Filtered (QCLot: 650930)										
HK0806570-001	S1	EG020: Antimony	7440-36-0	1 mg/L	86.5	86.5	75	125	0.0	----
		EG020: Lead	7439-92-1	1 mg/L	91.7	96.5	75	125	5.1	----
		EG020: Mercury	7439-97-6	0.02 mg/L	103	107	75	125	4.3	----
		EG020: Nickel	7440-02-0	1 mg/L	99.0	95.1	75	125	4.0	----
		EG020: Selenium	7782-49-2	1 mg/L	102	103	75	125	0.8	----
		EG020: Silver	7440-22-4	1 mg/L	94.2	94.8	75	125	0.6	----
		EG020: Thallium	7440-28-0	1 mg/L	90.4	91.6	75	125	1.2	----
		EG020: Tin	7440-31-5	1 mg/L	91.4	91.1	75	125	0.3	----
		EG020: Arsenic	7440-38-2	1 mg/L	107	105	75	125	2.0	----
		EG020: Vanadium	7440-62-2	1 mg/L	106	105	75	125	0.7	----
		EG020: Zinc	7440-66-6	1 mg/L	103	99.4	75	125	3.8	----
		EG020: Barium	7440-39-3	1 mg/L	89.0	86.7	75	125	2.6	----
		EG020: Beryllium	7440-41-7	1 mg/L	96.5	95.9	75	125	0.6	----
		EG020: Cadmium	7440-43-9	1 mg/L	93.7	93.4	75	125	0.3	----
		EG020: Chromium	7440-47-3	1 mg/L	106	104	75	125	2.1	----
		EG020: Copper	7440-50-8	1 mg/L	102	102	75	125	1.0	----

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES
ALS TECHNICHEM (HK) Pty Ltd
Environmental Division

CERTIFICATE OF ANALYSIS

CONTACT:	MR SUNNY KWONG	**Batch:**	HK0806570
CLIENT:	GREEN ISLAND INTERNATIONAL (BVI) LTD	**LABORATORY:**	HONG KONG
ADDRESS:	NO.7, LUNG YIU STREET,	**DATE RECEIVED:**	26/04/2008
	TAP SHEK KOK, TUEN MUN,	**DATE OF ISSUE:**	20/05/2008
	N.T., HONG KONG	**SAMPLE TYPE:**	ASH
PROJECT:	(ERM 0071019)	**No. of SAMPLES:**	3
SITE:	GIC		

COMMENTS

Sample(s) were collected by ALS Technichem (HK) staff on 26 April, 2008.
Dioxin and Furan were subcontracted and tested by ALS Czech Republic.
ALS Czech Republic details report was attached. The attached report contains a total of 4 pages.

Sample Details

ALS Lab ID	*Sample ID*	*Date of Sampling*	*Time of Sampling*
HK0806570-4	S1-S3 MIX	25/04/2008	13:30
HK0806570-6	S4-2	25/04/2008	14:00
HK0806570-11	S7-S8 MIX	25/04/2008	16:00

ISSUING LABORATORY: HONG KONG

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ALS Technichem (HK) Pty Ltd

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Ms Wong Wai Man, Alice
Laboratory Manager - Hong Kong

Other ALS Environmental Laboratories

AUSTRALIA		*AMERICAS*
Brisbane	*Hong Kong*	*Vancouver*
Melbourne	*Singapore*	*Santiago*
Sydney	*Kuala Lumpur*	*Amtofagasta*
Newcastle	*Bogor*	*Lima*

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Abbreviations: *% SPK REC denotes percentage spike recovery*
CHK denotes duplicate check sample
LOR denotes limit of reporting
LCS % REC denotes Laboratory Control Sample percentage recovery

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

L 1163

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E-mail: info@alsglobal.com

ALS Technichem (HK) Pty Ltd
11/F, Chung Shun Knitting Centre
Richard Fung
1-3 Wing Yip Street
Kwai Chung
Hong Kong

Test Report No. 9413 / 1 / 2008

Prague : 16.5.2008

Project: Shipment 941708517839
Date of sampling: -
Date of receipt: 30.4.2008
Sampling procedure: Sampling was performed by the client
Date of test performance: 30.4. - 16.5.2008
Place of test performance: ALS Czech Republic, s.r.o., Laboratoř HRMS, V Ráji 906, 530 02 Pardubice - D06_06_175
ALS Czech Republic, s.r.o., Na Harfě 336/9, 190 00, Praha 9

Test specification, deviations, additions to or exclusions from the test specification and any other information:

Č-I-11465 Determination of dry matter according to internal instructions
D06_06_175 Determination of polychlorinated dibenzo-p-dioxins and dibenzofurans according to US EPA 1613. Analysed by technique: HRGC/HRMS system - Agilent 6890N/Finnigan MAT 95XP resp. Trace GC Ultra/DFS. Resolution HRMS: 10000

Measurement results

sample name	HK0806570-4 (S-S3 MIX)		HK0806570-6 (S4-2)		HK0806570-1 1 (S7-S8 MIX)			
matrix	soil		soil		soil			
parameter	**result**	**MU**	**result**	**MU**	**result**	**MU**	**unit**	**test specification**	
Dry matter at 105 °C	100	±5	100	±5	98,8	±5	%	Č-I-11465	A
I-TEQ (PCDD/F) lowerb	0	±20	0	±20	0	±20	ng/g dw	D06 06 175	A
I-TEQ (PCDD/F) upperb	0,0016		0,0017		0,0013		ng/g dw	D06 06 175	A

Measurement uncertainty (MU [%]) is expressed as expanded measurement uncertainty with coverage factor k = 2, representing of 95 % significance level.
Parameters indexed by 'A' in the last column of the table are accredited, parameters indexed by 'N' are not accredited.

The report shall not be reproduced except in full without the written approval of the testing laboratory.
The laboratory declares that the test results relate only to the items tested and do not substitute any other documents.

TESTING LABORATORY ACCREDITED BY CAI ALS Czech Republic s r o 1 č. 1163

Ing. Emilie Pokorna
Laboratory Manager Prague

Annex No. 1 to test Report No. 9413/1/2008

Sample: HK0806570-4 (S-S3 MIX)

Measurement results:

Sample:	HK0806570-4 (S-S3 MIX)				
			Final extract [µl]:		75
Sample weight [g]:	4.525		Injection volume [µl]:		2
Dry matter [%]:	100		Acquisition date [d.m.y h:m]:		9.5.08 10:54
2,3,7,8-PCDD/Fs	Content [ng/g dw]	Limit of Detection [ng/g dw]	Limit of Quantification [ng/g dw]	[1]I-TEFs	I-TEQ [ng/g dw]
2,3,7,8-TCDD	n.d.	0.00026	0.00051	1	0
1,2,3,7,8-PeCDD	n.d.	0.00051	0.0010	0.5	0
1,2,3,4,7,8-HxCDD	n.d.	0.00088	0.0018	0.1	0
1,2,3,6,7,8-HxCDD	n.d.	0.00088	0.0018	0.1	0
1,2,3,7,8,9-HxCDD	n.d.	0.00088	0.0018	0.1	0
1,2,3,4,6,7,8-HpCDD	n.d.	0.0014	0.0027	0.01	0
OCDD	n.d.	0.0017	0.0034	0.001	0
2,3,7,8-TCDF	n.d.	0.00036	0.00072	0.1	0
1,2,3,7,8-PeCDF	n.d.	0.00050	0.0010	0.05	0
2,3,4,7,8-PeCDF	n.d.	0.00050	0.0010	0.5	0
1,2,3,4,7,8-HxCDF	n.d.	0.0011	0.0022	0.1	0
1,2,3,6,7,8-HxCDF	n.d.	0.0011	0.0022	0.1	0
1,2,3,7,8,9-HxCDF	n.d.	0.0011	0.0022	0.1	0
2,3,4,6,7,8-HxCDF	n.d.	0.0011	0.0022	0.1	0
1,2,3,4,6,7,8-HpCDF	n.d.	0.0012	0.0024	0.01	0
1,2,3,4,7,8,9-HpCDF	n.d.	0.0012	0.0024	0.01	0
OCDF	n.d.	0.0021	0.0041	0.001	0
I-TEQ from quantified 2,3,7,8-PCDD/Fs [ng 2,3,7,8-TCDD/g dw]-"Lowerbound"					**0**
I-TEQ from quantified 2,3,7,8-PCDDs [ng 2,3,7,8-TCDD/g dw]					0
I-TEQ from quantified 2,3,7,8-PCDFs [ng 2,3,7,8-TCDD/g dw]					0
I-TEQ from n.d. and non quantified 2,3,7,8-PCDD/Fs [ng 2,3,7,8-TCDD/g dw]					0.0016
Maximum possible I-TEQ [ng 2,3,7,8-TCDD/g dw]-"Upperbound"					**0.0016**

PCDDs	Content [ng/g dw]	**PCDFs**	Content [ng/g dw]
Tetra-CDDs	n.d.	Tetra-CDFs	n.d.
Penta-CDDs	n.d.	Penta-CDFs	n.d.
Hexa-CDDs	n.d.	Hexa-CDFs	n.d.
Hepta-CDDs	n.d.	Hepta-CDFs	n.d.
OCDD	n.d.	OCDF	n.d.
Total PCDDs	**n.d.**	**Total PCDFs**	**n.d.**

[1]I-TEF according to NATO.

The limits of quantification are defined as the double of the detection limits.

The limit of detection is defined as the amount of analyte producing a signal with S/N≥3.

The value of the detection limit is mentioned as the actual value at the acquisition date.

Measurement uncertainty is expressed as a double (k=2) relative standard deviation (RSD%), and corresponds to 95% interval of reliability.

Estimation of uncertainty of each 2,3,7,8-PCDD/F congener is 30% and total I-TEQ is 20%.

These values were ensured by analyses of certified reference material under conditions of internal reproducibility. Results marked "<" are situated in the interval of the limit of detection and the limit of quantification and are not quantified.

Results marked "n.d." are lower than the limit of detection.

"Lowerbound" and "Upperbound" are levels defined in Directive 2002/69/EC and 2002/70/EC.

Annex No. 1 to test Report No. 9413/1/2008

Sample: HK0806570-6 (S4-2)

Measurement results:

Sample:	HK0806570-6 (S4-2)				
			Final extract [µl]:		75
Sample weight [g]:	5.088		Injection volume [µl]:		2
Dry matter [%]:	100		Acquisition date [d.m.y h:m]:		9.5.08 11:47
2,3,7,8-PCDD/Fs	Content [ng/g dw]	Limit of Detection [ng/g dw]	Limit of Quantification [ng/g dw]	[1]I-TEFs	I-TEQ [ng/g dw]
2,3,7,8-TCDD	n.d.	0.00035	0.00069	1	0
1,2,3,7,8-PeCDD	n.d.	0.00068	0.0014	0.5	0
1,2,3,4,7,8-HxCDD	n.d.	0.00087	0.0017	0.1	0
1,2,3,6,7,8-HxCDD	n.d.	0.00087	0.0017	0.1	0
1,2,3,7,8,9-HxCDD	n.d.	0.00087	0.0017	0.1	0
1,2,3,4,6,7,8-HpCDD	n.d.	0.0012	0.0024	0.01	0
OCDD	n.d.	0.0016	0.0031	0.001	0
2,3,7,8-TCDF	n.d.	0.00030	0.00061	0.1	0
1,2,3,7,8-PeCDF	n.d.	0.00048	0.00097	0.05	0
2,3,4,7,8-PeCDF	n.d.	0.00048	0.00097	0.5	0
1,2,3,4,7,8-HxCDF	n.d.	0.0011	0.0021	0.1	0
1,2,3,6,7,8-HxCDF	n.d.	0.0011	0.0021	0.1	0
1,2,3,7,8,9-HxCDF	n.d.	0.0011	0.0021	0.1	0
2,3,4,6,7,8-HxCDF	n.d.	0.0011	0.0021	0.1	0
1,2,3,4,6,7,8-HpCDF	n.d.	0.0015	0.0030	0.01	0
1,2,3,4,7,8,9-HpCDF	n.d.	0.0015	0.0030	0.01	0
OCDF	n.d.	0.0019	0.0038	0.001	0
I-TEQ from quantified 2,3,7,8-PCDD/Fs [ng 2,3,7,8-TCDD/g dw]-"Lowerbound"					**0**
I-TEQ from quantified 2,3,7,8-PCDDs [ng 2,3,7,8-TCDD/g dw]					0
I-TEQ from quantified 2,3,7,8-PCDFs [ng 2,3,7,8-TCDD/g dw]					0
I-TEQ from n.d. and non quantified 2,3,7,8-PCDD/Fs [ng 2,3,7,8-TCDD/g dw]					0.0017
Maximum possible I-TEQ [ng 2,3,7,8-TCDD/g dw]-"Upperbound"					**0.0017**

PCDDs	Content [ng/g dw]	**PCDFs**	Content [ng/g dw]
Tetra-CDDs	n.d.	Tetra-CDFs	n.d.
Penta-CDDs	n.d.	Penta-CDFs	n.d.
Hexa-CDDs	n.d.	Hexa-CDFs	n.d.
Hepta-CDDs	n.d.	Hepta-CDFs	n.d.
OCDD	n.d.	OCDF	n.d.
Total PCDDs	**n.d.**	**Total PCDFs**	**n.d.**

[1]I-TEF according to NATO.

The limits of quantification are defined as the double of the detection limits.

The limit of detection is defined as the amount of analyte producing a signal with S/N≥3.

The value of the detection limit is mentioned as the actual value at the acquisition date.

Measurement uncertainty is expressed as a double (k=2) relative standard deviation (RSD%), and corresponds to 95% interval of reliability.

Estimation of uncertainty of each 2,3,7,8-PCDD/F congener is 30% and total I-TEQ is 20%.

These values were ensured by analyses of certified reference material under conditions of internal reproducibility. Results marked "<" are situated in the interval of the limit of detection and the limit of quantification and are not quantified.

Results marked "n.d." are lower than the limit of detection.

"Lowerbound" and "Upperbound" are levels defined in Directive 2002/69/EC and 2002/70/EC.

Annex No. 1 to test Report No. 9413/1/2008

Sample: HK0806570-11 (S7-S8 MIX)

Measurement results:

Sample:	HK0806570-11 (S7-S8 MIX)				
			Final extract [µl]:		75
Sample weight [g]:	5.001		Injection volume [µl]:		2
Dry matter [%]:	98.8		Acquisition date [d.m.y h:m]:		9.5.08 12:44
2,3,7,8-PCDD/Fs	Content [ng/g dw]	Limit of Detection [ng/g dw]	Limit of Quantification [ng/g dw]	[1]I-TEFs	I-TEQ [ng/g dw]
2,3,7,8-TCDD	n.d.	0.00025	0.00051	1	0
1,2,3,7,8-PeCDD	n.d.	0.00046	0.00092	0.5	0
1,2,3,4,7,8-HxCDD	n.d.	0.00085	0.0017	0.1	0
1,2,3,6,7,8-HxCDD	n.d.	0.00085	0.0017	0.1	0
1,2,3,7,8,9-HxCDD	n.d.	0.00085	0.0017	0.1	0
1,2,3,4,6,7,8-HpCDD	n.d.	0.0011	0.0023	0.01	0
OCDD	n.d.	0.0015	0.0030	0.001	0
2,3,7,8-TCDF	n.d.	0.00028	0.00055	0.1	0
1,2,3,7,8-PeCDF	n.d.	0.00038	0.00075	0.05	0
2,3,4,7,8-PeCDF	n.d.	0.00038	0.00075	0.5	0
1,2,3,4,7,8-HxCDF	n.d.	0.00081	0.0016	0.1	0
1,2,3,6,7,8-HxCDF	n.d.	0.00081	0.0016	0.1	0
1,2,3,7,8,9-HxCDF	n.d.	0.00081	0.0016	0.1	0
2,3,4,6,7,8-HxCDF	n.d.	0.00081	0.0016	0.1	0
1,2,3,4,6,7,8-HpCDF	n.d.	0.0010	0.0020	0.01	0
1,2,3,4,7,8,9-HpCDF	n.d.	0.0010	0.0020	0.01	0
OCDF	n.d.	0.0018	0.0037	0.001	0
I-TEQ from quantified 2,3,7,8-PCDD/Fs [ng 2,3,7,8-TCDD/g dw]-"Lowerbound"					**0**
I-TEQ from quantified 2,3,7,8-PCDDs [ng 2,3,7,8-TCDD/g dw]					0
I-TEQ from quantified 2,3,7,8-PCDFs [ng 2,3,7,8-TCDD/g dw]					0
I-TEQ from n.d. and non quantified 2,3,7,8-PCDD/Fs [ng 2,3,7,8-TCDD/g dw]					0.0013
Maximum possible I-TEQ [ng 2,3,7,8-TCDD/g dw]-"Upperbound"					**0.0013**

PCDDs	Content [ng/g dw]	**PCDFs**	Content [ng/g dw]
Tetra-CDDs	n.d.	Tetra-CDFs	n.d.
Penta-CDDs	n.d.	Penta-CDFs	n.d.
Hexa-CDDs	n.d.	Hexa-CDFs	n.d.
Hepta-CDDs	n.d.	Hepta-CDFs	n.d.
OCDD	n.d.	OCDF	n.d.
Total PCDDs	**n.d.**	**Total PCDFs**	**n.d.**

[1]I-TEF according to NATO.

The limits of quantification are defined as the double of the detection limits.

The limit of detection is defined as the amount of analyte producing a signal with S/N≥3.

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Results marked "n.d." are lower than the limit of detection.

"Lowerbound" and "Upperbound" are levels defined in Directive 2002/69/EC and 2002/70/EC.