



Environmental Division

CERTIFICATE OF ANALYSIS

Work Order	: EP1205982	Page	: 1 of 3
Client	: ORD RIVER RESOURCES LIMITED	Laboratory	: Environmental Division Perth
Contact	: M HUTTON	Contact	: Scott James
Address	: 301/68 ALFRED ST MILSON POINT NSW, AUSTRALIA 2061	Address	: 10 Hod Way Malaga WA Australia 6090
E-mail	: mhutton@mineralgeos.com	E-mail	: perth.enviro.services@alsglobal.com
Telephone	: ----	Telephone	: +61-8-9209 7655
Facsimile	: ----	Facsimile	: +61-8-9209 7600
Project	: Suplejack NT	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Order number	: ----		
C-O-C number	: ----	Date Samples Received	: 24-JUL-2012
Sampler	: ----	Issue Date	: 31-JUL-2012
Site	: ----		
Quote number	: ----	No. of samples received	: 2
		No. of samples analysed	: 2

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.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results



NATA Accredited Laboratory 825

Accredited for compliance with
ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Canhuang Ke	Metals Instrument Chemist	Perth Inorganics
Chas Tucker	Inorganic Chemist	Perth Inorganics
Cicelia Bartels	Metals Instrument Chemist	Perth Inorganics

Environmental Division Perth
Part of the **ALS Laboratory Group**

10 Hod Way Malaga WA Australia 6090
Tel. +61-8-9209 7655 Fax. +61-8-9209 7600 www.alsglobal.com
A Campbell Brothers Limited Company



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

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.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting



Analytical Results

Sub-Matrix: **BORE WATER**

				Client sample ID					
				TRD 600	TRD 611	----	----	----	
				23-JUL-2012 16:19	23-JUL-2012 16:19	----	----	----	
				Client sampling date / time					
Compound	CAS Number	LOR	Unit	EP1205982-001	EP1205982-002	----	----	----	
EA015: Total Dissolved Solids									
Total Dissolved Solids @180°C	GIS-210-010	10	mg/L	----	4240	----	----	----	
EA025: Suspended Solids									
Suspended Solids (SS)	----	5	mg/L	4120	26	----	----	----	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	2320	1190	----	----	----	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	----	----	----	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	----	----	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	671	707	----	----	----	
Total Alkalinity as CaCO3	----	1	mg/L	671	707	----	----	----	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	869	381	----	----	----	
ED045G: Chloride Discrete analyser									
Chloride	16887-00-6	1	mg/L	2810	1150	----	----	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	164	93	----	----	----	
Magnesium	7439-95-4	1	mg/L	464	232	----	----	----	
Sodium	7440-23-5	1	mg/L	1190	572	----	----	----	
Potassium	7440-09-7	1	mg/L	122	73	----	----	----	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	<0.001	0.001	----	----	----	
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	----	----	----	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	----	----	----	
Copper	7440-50-8	0.001	mg/L	0.004	0.003	----	----	----	
Nickel	7440-02-0	0.001	mg/L	0.002	<0.001	----	----	----	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	----	----	----	
Zinc	7440-66-6	0.005	mg/L	0.077	0.025	----	----	----	
EG035F: Dissolved Mercury by FIMS									
Mercury	7439-97-6	0.0001	mg/L	<0.0001	<0.0001	----	----	----	
EN055: Ionic Balance									
Total Anions	----	0.01	meq/L	111	54.5	----	----	----	
Total Cations	----	0.01	meq/L	101	50.5	----	----	----	
Ionic Balance	----	0.01	%	4.50	3.84	----	----	----	