

LT Green Energy
ATTN: Brian Tilbrook
PO Box 419
Clare
SA 5453 AUSTRALIA

29/03/2010

Dear Brian

Please find attached the Final Analytical Report for

Customer Service Request: 141516-2010-CSR-1
Account: 141516
Project: AWQC-39731 LT Green Energy - Non Routine 09/10

Sample Date Range: 24-February-2010 to 02-March-2010

Please note AWQC Sample Receipt hours are Monday to Friday 8.30am - 4.30pm.

Yours sincerely,



Sam Loveder
Senior Customer Service Officer
Sam.Loveder@sawater.com.au
1300653366

FINAL REPORT: 66344

Report Information

Project Name AWQC-39731
Customer LT Green Energy
CSR_ID 141516-2010-CSR-1

Analytical Results

Customer Sample Description Springview Bore - Untreated
Sampling Point 97209-LT Green Energy
Sampled Date 1/03/2010 12:00:00PM
Sample Received Date 2/03/2010 9:43:43AM
Sample ID 2010-001-6343
Status Endorsed
Collection Type Customer Collected

Inorganic Chemistry - Metals

	LOR	Result
Boron - Soluble TIC-003 W09-023		
Boron - Soluble	0.020	0.196 mg/L
Calcium TIC-003 W09-023		
Calcium	0.04	64.4 mg/L
Dissolved Solids by Calculation W09-023		
Dissolved solids by calculation	0	1310 mg/L
Ion Balance W09-023		
Ion balance		-4.4 %
Langelier Index W09-023		
Langelier Index		0.69
Magnesium TIC-003 W09-023		
Magnesium	0.04	59.2 mg/L
Potassium TIC-003 W09-023		
Potassium	0.040	12.7 mg/L
Sodium Adsorption Ratio W09-023		
Sodium Adsorption Ratio - Calculation		6.84
Sodium TIC-003 W09-023		
Sodium	0.04	316 mg/L
Sulphur TIC-004 W09-023		
Sulphate	1.5	112 mg/L
Total Hardness as CaCO3 W09-023		
Total Hardness as CaCO3	2.0	405 mg/L

Inorganic Chemistry - Nutrients

	LOR	Result
Chloride T0104-02 W09-023		
Chloride	4.0	561 mg/L
Nitrate + Nitrite as N T0161-01 W09-023		
Nitrate + Nitrite as N	0.005	0.378 mg/L
Nitrate as N W09-023		
Nitrate as Nitrogen	0.005	0.378 mg/L
Nitrite as N T0107-01 W09-023		



Corporate Accreditation No.1115
Chemical and Biological Testing
This document is issued in accordance
with NATA's accreditation requirements.

Notes

1. The last figure of the result value is a significant figure.
2. Samples are analysed as received.
3. # determination of the component is not covered by NATA Accreditation.
4. ^ indicates result is out of specification according to the reference Guideline. Refer to Report footer.
5. * indicates incident have been recorded against the sample. Refer to Report footer.
6. & Indicates the results have changed since the last issued report.
7. The Limit of Reporting (LOR) is the lowest concentration of analyte which is reported at the AWQC and is based on the LOQ rounded up to a more readily used value. The Limit of Quantitation (LOQ) is the lowest concentration of analyte for which quantitative results may be obtained within a specified degree of confidence.

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Nitrite as N T0107-01 W09-023

Nitrite as Nitrogen	0.005	<0.005 mg/L
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Phosphorus - Total T0109-01 W09-023

Phosphorus - Total	0.005	0.196 mg/L
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Inorganic Chemistry - Physical

LOR	Result
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Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01 W09-023

Alkalinity as Calcium Carbonate	302 mg/L
Bicarbonate	368 mg/L
Carbonate	0 mg/L
Hydroxide	0 mg/L

Conductivity & Total Dissolved Solids T0016-01 W09-023

Conductivity	1	2540 µScm
Total Dissolved Solids (by EC)	1.0	1400 mg/L

pH T0010-01 W09-023

pH		8.0 pH units
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Analytical Results

Customer Sample Description	Springview Bore - Treated
Sampling Point	97209-LT Green Energy
Sampled Date	1/03/2010 12:00:00PM
Sample Received Date	2/03/2010 9:43:38AM
Sample ID	2010-001-6344
Status	Endorsed
Collection Type	Customer Collected

Inorganic Chemistry - Metals

	LOR	Result
Boron - Soluble TIC-003 W09-023		
Boron - Soluble	0.020	0.165 mg/L
Calcium TIC-003 W09-023		
Calcium	0.04	2.43 mg/L
Dissolved Solids by Calculation W09-023		
Dissolved solids by calculation	0	153 mg/L
Ion Balance W09-023		
Ion balance		-7.5 %
Langelier Index W09-023		
Langelier Index		-3.1
Magnesium TIC-003 W09-023		
Magnesium	0.04	3.43 mg/L
Potassium TIC-003 W09-023		
Potassium	0.040	2.24 mg/L
Sodium Adsorption Ratio W09-023		
Sodium Adsorption Ratio - Calculation		4.52
Sodium TIC-003 W09-023		
Sodium	0.04	46.7 mg/L
Sulphur TIC-004 W09-023		
Sulphate	1.5	3.0 mg/L
Total Hardness as CaCO3 W09-023		
Total Hardness as CaCO3	2.0	20 mg/L

Inorganic Chemistry - Nutrients

	LOR	Result
Chloride T0104-02 W09-023		
Chloride	4.0	65 mg/L
Nitrate + Nitrite as N T0161-01 W09-023		
Nitrate + Nitrite as N	0.005	<0.005 mg/L
Nitrate as N W09-023		
Nitrate as Nitrogen	0.005	<0.005 mg/L
Nitrite as N T0107-01 W09-023		
Nitrite as Nitrogen	0.005	<0.005 mg/L
Phosphorus - Total T0109-01 W09-023		
Phosphorus - Total	0.005	0.058 mg/L



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Collection Type	Customer Collected

Inorganic Chemistry - Physical

LOR

Result

Alkalinity Carbonate Bicarbonate and Hydroxide T0101-01 W09-023

Alkalinity as Calcium Carbonate		50 mg/L
Bicarbonate		61 mg/L
Carbonate		0 mg/L
Hydroxide		0 mg/L

Conductivity & Total Dissolved Solids T0016-01 W09-023

Conductivity	1	322 µScm
Total Dissolved Solids (by EC)	1.0	180 mg/L

pH T0010-01 W09-023

pH		6.3 pH units
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NATA Signatories



Roger Kennedy - Inorganic Chemistry Process Coordinator



Phil Thomas - Inorganic Chemistry Manager

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Analytical Method

Analytical Method Code	Description
T0010-01	Determination of pH
T0016-01	Determination of Conductivity
T0101-01	Alkalinity - Automated Acidimetric Titration
T0104-02	Chloride - Automated Flow Colorimetry
T0107-01	Nitrite - Automated Flow Colorimetry
T0109-01	Total Phosphorus - Automated Flow Colorimetry
T0161-01	Nitrate + Nitrate (NO _x) - Automated Flow Colorimetry
TIC-003	Elemental Analysis - ICP Mass Spectrometry
TIC-004	Determination of Metals - ICP Spectrometry by ICP2
W-052	Preparation of Samples for Metal Analysis

Sampling Method

Sampling Method Code	Description
W09-023	Sampling Method for Chemical Analyses

Laboratory Information

Laboratory	NATA accreditation ID
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Nutrients	1115
Inorganic Chemistry - Physical	1115

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