

**FINAL REPORT: 201397**

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**Report Information**

Project Name	AWQC-112631
Customer	BAROSSA INFRASTRUCTURE LTD
CSR_ID	122622-2016-CSR-1

**Analytical Results**

Customer Sample Description	BIL connection point
Sampling Point	84513-Barossa Infrastructure Ltd - Fromms Square Williamstown
Sampled Date	17/03/2017 8:30:23AM
Sample Received Date	17/03/2017 8:30:24AM
Sample ID	2017-001-4104
Status	Endorsed
GuidelineType	ECOLI
Collection Type	AWQC Collected

**Bacteriology** LOR Result

*Sample temperature at time of receipt NA*

**E.coli & Thermotolerant Coliforms T0081-01 WMZ-500**

E.coli		0 cfu/100mL
Thermotolerant Coliforms		3 cfu/100mL

**Inorganic Chemistry - Metals** LOR Result

*Sample temperature at time of receipt NA*

**Arsenic - Total TIC-006 W09-023**

Arsenic - Total	0.0003	0.0017 mg/L
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**Boron - Soluble TIC-006 W09-023**

Boron - Soluble	0.020	0.032 mg/L
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**Cadmium - Total TIC-006 W09-023**

Cadmium - Total	0.0001	<0.0001 mg/L
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**Calcium TIC-004 W09-023**

Calcium	0.1	13.0 mg/L
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**Chromium - Total TIC-006 W09-023**

Chromium - Total	0.0001	0.0013 mg/L
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**Iron - Total TIC-006 W09-023**

Iron - Total	0.0005	2.364 mg/L
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**Lead - Total TIC-006 W09-023**

Lead - Total	0.0001	0.0029 mg/L
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**Magnesium TIC-004 W09-023**

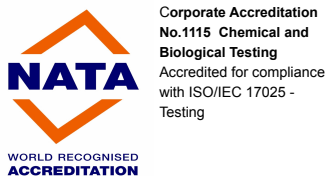
Magnesium	0.05	9.58 mg/L
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**Manganese - Total TIC-006 W09-023**

Manganese - Total	0.0001	0.0771 mg/L
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**Potassium TIC-004 W09-023**

Potassium	0.05	4.07 mg/L
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**Notes**

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<b>GuidelineType</b>	ECOLI
<b>Collection Type</b>	AWQC Collected

### Sodium Adsorption Ratio W09-023

Sodium Adsorption Ratio - Calculation 2.35

### Sodium TIC-004 W09-023

Sodium 0.1 45.7 mg/L

### Sulphur TIC-004 W09-023

Sulphate 1.5 13.5 mg/L

### Total Hardness as CaCO3 W09-023

Total Hardness as CaCO3 2.0 72 mg/L

### Zinc - Total TIC-006 W09-023

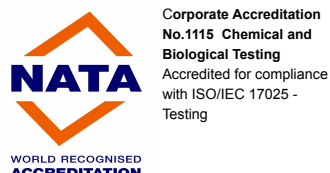
Zinc - Total 0.0003 0.0087 mg/L

## Inorganic Chemistry - Nutrients

	LOR	Result
<i>Sample temperature at time of receipt NA</i>		
<b>Chloride T0104-02 W09-023</b>		
Chloride	4.0	88 mg/L
<b>Nitrate + Nitrite as N T0161-01 W09-023</b>		
Nitrate + Nitrite as N	0.003	0.051 mg/L
<b>Nitrogen - Total W09-023</b>		
Nitrogen - Total	0.06	1.23 mg/L
<b>Phosphorus - Total T0109-01 W09-023</b>		
Phosphorus - Total	0.005	0.088 mg/L
<b>TKN as N T0112-01 W09-023</b>		
TKN as Nitrogen	0.05	1.18 mg/L

## Organic Chemistry

	LOR	Result
<i>Sample temperature at time of receipt NA</i>		
<b>Organophosphorous and Triazine Pesticides T0800-01 W09-023</b>		
Atrazine	0.5	<0.5 µg/L
Azinphos-methyl	0.5	<0.5 µg/L
Diazinon	0.5	<0.5 µg/L
Fenitrothion	0.5	<0.5 µg/L
Hexazinone	0.5	<0.5 µg/L



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## Organophosphorous and Triazine Pesticides T0800-01 W09-023

Malathion	0.5	<0.5 µg/L
Parathion	0.5	<0.5 µg/L
Parathion methyl	0.3	<0.3 µg/L
Prometryne	0.5	<0.5 µg/L
Simazine	0.5	<0.5 µg/L

## Inorganic Chemistry - Physical

LOR Result

### Sample temperature at time of receipt NA

## Conductivity & Total Dissolved Solids T0016-01 W09-023

Conductivity	1	459 µScm
Total Dissolved Solids (by EC)	1.0	250 mg/L

## pH T0010-01 W09-023

pH		8.0 pH units
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## Turbidity T0018-01 W09-023

Turbidity	0.1	12 NTU
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### AWQC Signatories

Vickie Dalgleish - Snr Technical Officer

Andrew Ford - Technical Officer Chemistry

John Martini - Method Development Coordinator

Gayle Polley - Snr Technical Officer



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### Guidelines

ECOLI	Ecoli	Minimum Value	Maximum Value	Units
<b>Guideline Version:2</b>				
<b>Health1</b>				
110960, 110961, 110963, 110964, 120464, 120465, 120466, 120468, 120469, 122450 122436, 122437	E.coli	-	0	cfu/100mL
110965, 110967, 110968, 110970, 110972, 120470, 120471, 120472, 120475, 120476 110969, 110971, 110973, 110974, 120473, 120474	E.coli/F Coliforms - Presumptive	-	0	cfu/100mL
<b>Primary Contact</b>				
110965, 110967, 110968, 110970, 110972, 120470, 120471, 120472, 120475, 120476 110969, 110971, 110973, 110974, 120473, 120474	E.coli	-	150	MPN/100mL
110969, 110971, 110973, 110974, 120473, 120474	Faecal coliforms	-	150	cfu/100mL

### Analytical Method

Analytical Method Code	Description	Reference Method
T0010-01	Determination of pH	APHA 4500-H B
T0016-01	Determination of Conductivity	APHA 2510 B
T0018-01	Turbidity - Nephelometric Measurement	APHA-AWWA-WEF
T0081-01	E.Coli - Membrane filtration	USEPA Method 1604/IH
T0104-02	Chloride - Discrete Analyser	APHA 4500-Cl- E
T0109-01	Phosphorus - total by discrete analyser	APHA 4500-P F
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	APHA 4500-N org A
T0161-01	Nitrate + Nitrate (NOx) - Automated Flow Colorimetry	APHA 4500-NO3-I
T0800-01	Nitrogen and Phosphorous Containing Pesticides	USEPA Method 507
TIC-004	Determination of Metals - ICP Spectrometry by ICP2	APHA 3120
TIC-006	Elemental Analysis By ICP- MS	EPA method 200.8
W-052	Preparation of Samples for Metal Analysis	APHA 3030A to 3030D

### Sampling Method

Sampling Method Code	Description
W09-023	Sampling Method for Chemical Analyses
WMZ-500	Sampling Method for Microbiological Analyses



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Bacteriology	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Nutrients	1115
Organic Chemistry	1115
Inorganic Chemistry - Physical	1115



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