

**FINAL REPORT: 212951**

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This report supercedes the following issued reports: 211321

**Report Information**

Project Name	AWQC-118136
Customer	BAROSSA INFRASTRUCTURE LTD
CSR_ID	122622-2017-CSR-1

**Analytical Results**

Customer Sample Description	BIL Connection Point
Sampling Point	84513-Barossa Infrastructure Ltd - Fromms Square Williamstown
Sampled Date	8/09/2017 9:05:00AM
Sample Received Date	8/09/2017 12:36:17PM
Sample Analysis Completed	21/09/2017 3:47:52PM
Sample ID	2017-006-6918
Status	Endorsed
GuidelineType	ECOLI
Collection Type	AWQC Collected

**Bacteriology LOR Result**

*Sample temperature at time of receipt NA*

<b>E.coli &amp; Thermotolerant Coliforms T0081-01 WMZ-500(ADEL)</b>		
E.coli	<sup>^ 110961</sup>	5 cfu/100mL
Thermotolerant Coliforms		13 cfu/100mL

**Inorganic Chemistry - Metals LOR Result**

*Sample temperature at time of receipt NA*

<b>Arsenic - Total TIC-006 W09-023(ADEL)</b>		
Arsenic - Total	0.0003	0.0008 mg/L
<b>Boron - Soluble TIC-006 W09-023(ADEL)</b>		
Boron - Soluble	0.020	<0.020 mg/L
<b>Cadmium - Total TIC-006 W09-023(ADEL)</b>		
Cadmium - Total	0.0001	<0.0001 mg/L
<b>Calcium TIC-004 W09-023(ADEL)</b>		
Calcium	0.1	11.7 mg/L
<b>Chromium - Total TIC-006 W09-023(ADEL)</b>		
Chromium - Total	0.0001	0.0022 mg/L
<b>Iron - Total TIC-006 W09-023(ADEL)</b>		
Iron - Total	0.0005	1.969 mg/L
<b>Lead - Total TIC-006 W09-023(ADEL)</b>		
Lead - Total	0.0001	0.0017 mg/L
<b>Magnesium TIC-004 W09-023(ADEL)</b>		
Magnesium	0.05	9.83 mg/L
<b>Manganese - Total TIC-006 W09-023(ADEL)</b>		
Manganese - Total	0.0001	0.1191 mg/L



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**Notes**

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### Potassium TIC-004 W09-023(ADEL)

Potassium	0.05	3.85 mg/L
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### Sodium Adsorption Ratio W09-023(ADEL)

Sodium Adsorption Ratio - Calculation		2.88
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### Sodium TIC-004 W09-023(ADEL)

Sodium	0.1	55.2 mg/L
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### Sulphur TIC-004 W09-023(ADEL)

Sulphate	1.5	15.9 mg/L
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### Total Hardness as CaCO3 W09-023(ADEL)

Total Hardness as CaCO3	2.0	70 mg/L
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### Zinc - Total TIC-006 W09-023(ADEL)

Zinc - Total	0.0003	0.0151 mg/L
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## Inorganic Chemistry - Nutrients

LOR

Result

### Sample temperature at time of receipt NA

### Chloride T0104-02 W09-023(ADEL)

Chloride	4.0	109 mg/L
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### Nitrate + Nitrite as N T0161-01 W09-023(ADEL)

Nitrate + Nitrite as N	0.003	0.130 mg/L
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### Nitrogen - Total AP4500NORGA W09-023(ADEL)

Nitrogen - Total	0.06	1.79 mg/L
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### Phosphorus - Total T0109-01 W09-023(ADEL)

Phosphorus - Total	0.005	0.094 mg/L
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### TKN as N T0112-01 W09-023(ADEL)

TKN as Nitrogen	0.05	1.66 mg/L
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## Inorganic Chemistry - Physical

LOR

Result

### Sample temperature at time of receipt NA

### Conductivity & Total Dissolved Solids T0016-01 W09-023(ADEL)

Conductivity	1	470 µScm
Total Dissolved Solids (by EC)	1.0	260 mg/L



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### pH T0010-01 W09-023(ADEL)

pH 7.3 pH units

### Turbidity T0018-01 W09-023(ADEL)

Turbidity 0.1 28 NTU



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## AWQC Signatories

Vickie Dalgleish - 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
	E.coli/F Coliforms - Presumptive	-	0	cfu/100mL
<b>Primary Contact</b>				
110965, 110967, 110968, 110970, 110972, 120470, 120471, 120472, 120475, 120476	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	AP4500NORGA
T0016-01	Determination of Conductivity	AP4500HB
T0018-01	Turbidity - Nephelometric Measurement	AP2510B
T0081-01	E.Coli - Membrane filtration	APAWWA-WEF
T0104-02	Chloride - Discrete Analyser	USEPA1604_1H
T0109-01	Phosphorus - total by discrete analyser	AP4500CLE
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500PF
T0161-01	Nitrate + Nitrate (NOx) - Automated Flow Colorimetry	AP4500NORGA
TIC-004	Determination of Metals - ICP Spectrometry by ICP2	AP4500NO3I
TIC-006	Determination of Metals - ICP Spectrometry by ICP2	AP3120
W-052	Elemental Analysis By ICP- MS	EPA200.8
W-052	Preparation of Samples for Metal Analysis	AP3030AD

### Sampling Method

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

**When samples are taken by customers, samples are analysed as received.**



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



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