

FINAL REPORT: 217322

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This report supercedes the following issued reports: 215042

Report Information

Project Name	AWQC-120018
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	10/11/2017 8:27:05AM
Sample Received Date	10/11/2017 8:27:05AM
Sample Analysis Completed	27/11/2017 11:38:12AM
Sample ID	2017-008-6178
Status	Endorsed
GuidelineType	ECOLI
Collection Type	AWQC Collected

Bacteriology

Sample temperature at time of receipt NA

E.coli & Thermotolerant Coliforms T0081-01 WMZ-500(ADEL)

E.coli	^{^ 110961}	3 cfu/100mL
Thermotolerant Coliforms		3 cfu/100mL

Inorganic Chemistry - Metals

Sample temperature at time of receipt NA

Arsenic - Total TIC-006 W09-023(ADEL)

Arsenic - Total	0.0003	0.0009 mg/L
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Boron - Soluble TIC-006 W09-023(ADEL)

Boron - Soluble	0.020	0.022 mg/L
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Cadmium - Total TIC-006 W09-023(ADEL)

Cadmium - Total	0.0001	<0.0001 mg/L
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Calcium TIC-004 W09-023(ADEL)

Calcium	0.1	12.3 mg/L
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Chromium - Total TIC-006 W09-023(ADEL)

Chromium - Total	0.0001	0.0019 mg/L
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Iron - Total TIC-006 W09-023(ADEL)

Iron - Total	0.0005	2.818 mg/L
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Lead - Total TIC-006 W09-023(ADEL)

Lead - Total	0.0001	0.0019 mg/L
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Magnesium TIC-004 W09-023(ADEL)

Magnesium	0.05	10.0 mg/L
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Manganese - Total TIC-006 W09-023(ADEL)

Manganese - Total	0.0001	0.3707 mg/L
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Potassium TIC-004 W09-023(ADEL)

Potassium	0.05	3.52 mg/L
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Sodium Adsorption Ratio W09-023(ADEL)

Sodium Adsorption Ratio - Calculation		2.67
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Sodium TIC-004 W09-023(ADEL)

Sodium	0.1	52.0 mg/L
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Sulphur TIC-004 W09-023(ADEL)

Sulphate	1.5	13.8 mg/L
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Total Hardness as CaCO3 W09-023(ADEL)

Total Hardness as CaCO3	2.0	72 mg/L
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Zinc - Total TIC-006 W09-023(ADEL)

Zinc - Total	0.0003	0.0158 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	105 mg/L
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Nitrate + Nitrite as N T0161-01 W09-023(ADEL)

Nitrate + Nitrite as N	0.003	0.168 mg/L
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Nitrogen - Total TMZ-M06 W09-023(ADEL)

Nitrogen - Total	0.06	1.50 mg/L
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Phosphorus - Total T0109-01 W09-023(ADEL)

Phosphorus - Total	0.005	0.097 mg/L
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TKN as N T0112-01 W09-023(ADEL)

TKN as Nitrogen	0.05	1.33 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	458 µScm
Total Dissolved Solids (by EC)	1.0	250 mg/L



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pH T0010-01 W09-023(ADEL)

pH 7.0 pH units

Turbidity T0018-01 W09-023(ADEL)

Turbidity 0.1 31 NTU



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AWQC Signatories

Mira Banasiak - Supervisor Bacteriology

Dzung Bui - Supervisor Metals and Physical

Andrew Ford - Technical Officer Chemistry

Gayle Polley - Snr Technical Officer



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Guidelines

ECOLI	Ecoli	Minimum Value	Maximum Value	Units
Guideline Version:2				
Health1				
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
Primary Contact				
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
	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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