

FINAL REPORT: 190449

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This report supercedes the following issued reports: 189422

Report Information

Project Name	AWQC-106963
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	16/09/2016 10:53:07AM
Sample Received Date	16/09/2016 10:53:07AM
Sample ID	2016-005-5115
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	^ 110961	4 cfu/100mL
Thermotolerant Coliforms		5 cfu/100mL

Inorganic Chemistry - Metals LOR Result

Sample temperature at time of receipt NA

Arsenic - Total TIC-006 W09-023

Arsenic - Total	0.0003	0.0005 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	0.0015 mg/L
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Iron - Total TIC-006 W09-023

Iron - Total	0.0005	1.110 mg/L
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Lead - Total TIC-006 W09-023

Lead - Total	0.0001	0.0015 mg/L
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Magnesium TIC-004 W09-023

Magnesium	0.05	11.1 mg/L
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Manganese - Total TIC-006 W09-023

Manganese - Total	0.0001	0.0202 mg/L
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Potassium TIC-004 W09-023

Potassium	0.05	3.35 mg/L
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Notes

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Sodium Adsorption Ratio W09-023

Sodium Adsorption Ratio - Calculation	2.99
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Sodium TIC-004 W09-023

Sodium	0.1	60.8 mg/L
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Sulphur TIC-004 W09-023

Sulphate	1.5	19.2 mg/L
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Total Hardness as CaCO₃ W09-023

Total Hardness as CaCO ₃	2.0	78 mg/L
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Zinc - Total TIC-006 W09-023

Zinc - Total	0.0003	0.0187 mg/L
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Inorganic Chemistry - Nutrients

LOR Result

Sample temperature at time of receipt NA

Chloride T0104-02 W09-023

Chloride	4.0	116 mg/L
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Nitrate + Nitrite as N T0161-01 W09-023

Nitrate + Nitrite as N	0.003	0.303 mg/L
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Nitrogen - Total W09-023

Nitrogen - Total	0.06	1.49 mg/L
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Phosphorus - Total T0109-01 W09-023

Phosphorus - Total	0.005	0.062 mg/L
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TKN as N T0112-01 W09-023

TKN as Nitrogen	0.05	1.19 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

Conductivity	1	525 µScm
Total Dissolved Solids (by EC)	1.0	290 mg/L

pH T0010-01 W09-023

pH	7.2	pH units
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Turbidity T0018-01 W09-023



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Turbidity T0018-01 W09-023

Turbidity	0.1	14 NTU
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AWQC Signatories

Mira Banasiak - Supervisor Bacteriology

Kerrie Davey - Supervisor Nutrients and Waste

Andrew Ford - Technical Officer Chemistry

Jingjia He - Chemist

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	E.coli	-	0	cfu/100mL
122436, 122437	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	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
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

Laboratory Information

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



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