

FINAL REPORT: 206471

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This report supercedes the following issued reports: 204351

Report Information

Project Name	AWQC-114523
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	12/05/2017 9:30:16AM
Sample Received Date	12/05/2017 9:30:16AM
Sample ID	2017-003-1607
Status	Endorsed
GuidelineType	ECOLI
Collection Type	AWQC Collected

Bacteriology	LOR	Result
<i>Sample temperature at time of receipt NA</i>		
E.coli & Thermotolerant Coliforms T0081-01 WMZ-500		
E.coli		^{^ 110961} 2 cfu/100mL
Thermotolerant Coliforms		4 cfu/100mL

Inorganic Chemistry - Metals	LOR	Result
<i>Sample temperature at time of receipt NA</i>		
Arsenic - Total TIC-006 W09-023		
Arsenic - Total	0.0003	0.0009 mg/L
Boron - Soluble TIC-006 W09-023		
Boron - Soluble	0.020	0.040 mg/L
Cadmium - Total TIC-006 W09-023		
Cadmium - Total	0.0001	<0.0001 mg/L
Calcium TIC-004 W09-023		
Calcium	0.1	14.1 mg/L
Chromium - Total TIC-006 W09-023		
Chromium - Total	0.0001	0.0011 mg/L
Iron - Total TIC-006 W09-023		
Iron - Total	0.0005	1.357 mg/L
Lead - Total TIC-006 W09-023		
Lead - Total	0.0001	0.0024 mg/L
Magnesium TIC-004 W09-023		
Magnesium	0.05	10.5 mg/L
Manganese - Total TIC-006 W09-023		
Manganese - Total	0.0001	0.0313 mg/L
Potassium TIC-004 W09-023		
Potassium	0.05	4.56 mg/L



Notes

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Sodium Adsorption Ratio W09-023

Sodium Adsorption Ratio - Calculation 2.49

Sodium TIC-004 W09-023

Sodium 0.1 50.7 mg/L

Sulphur TIC-004 W09-023

Sulphate 1.5 16.5 mg/L

Total Hardness as CaCO3 W09-023

Total Hardness as CaCO3 2.0 78 mg/L

Zinc - Total TIC-006 W09-023

Zinc - Total 0.0003 0.0205 mg/L

Inorganic Chemistry - Nutrients

	LOR	Result
<i>Sample temperature at time of receipt NA</i>		
Chloride T0104-02 W09-023		
Chloride	4.0	91 mg/L
Nitrate + Nitrite as N T0161-01 W09-023		
Nitrate + Nitrite as N	0.003	0.046 mg/L
Nitrogen - Total W09-023		
Nitrogen - Total	0.06	1.10 mg/L
Phosphorus - Total T0109-01 W09-023		
Phosphorus - Total	0.005	0.065 mg/L
TKN as N T0112-01 W09-023		
TKN as Nitrogen	0.05	1.05 mg/L

Organic Chemistry

	LOR	Result
<i>Sample temperature at time of receipt NA</i>		
Organophosphorous and Triazine Pesticides T0800-01 W09-023		
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	457 µScm
Total Dissolved Solids (by EC)	1.0	250 mg/L

pH T0010-01 W09-023

pH		7.7 pH units
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Turbidity T0018-01 W09-023

Turbidity	0.1	11 NTU
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AWQC Signatories

Mira Banasiak - Supervisor Bacteriology

Dzung Bui - Supervisor Metals and Physical

Ivana Cech - Technical Officer Chemistry

Andrew Ford - Technical Officer Chemistry

John Martini - Method Development Coordinator

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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
110965, 110967, 110968, 110970, 110972, 120470, 120471, 120472, 120475, 120476 110969, 110971, 110973, 110974, 120473, 120474	E.coli/F Coliforms - Presumptive	-	0	cfu/100mL
Primary Contact				
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-CI- 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



Corporate Accreditation
No.1115 Chemical and
Biological Testing
Accredited for compliance
with ISO/IEC 17025 -
Testing

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