

FINAL REPORT: 226759

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This report supercedes the following issued reports: 225981

Report Information

Project Name	AWQC-125482
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	11/05/2018 8:29:55AM
Sample Received Date	11/05/2018 8:29:55AM
Sample Analysis Completed	23/05/2018 1:05:55PM
Sample ID	2018-003-1136
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(ADEL)		
E.coli	^ 110961	2 cfu/100mL
Thermotolerant Coliforms		14 cfu/100mL

Inorganic Chemistry - Metals LOR Result

Sample temperature at time of receipt NA

Arsenic - Total TIC-006 W09-023(ADEL)		
Arsenic - Total	0.0003	0.0007 mg/L
Boron - Soluble TIC-006 W09-023(ADEL)		
Boron - Soluble	0.020	0.034 mg/L
Cadmium - Total TIC-006 W09-023(ADEL)		
Cadmium - Total	0.0001	<0.0001 mg/L
Calcium TIC-004 W09-023(ADEL)		
Calcium	0.1	10.8 mg/L
Chromium - Total TIC-006 W09-023(ADEL)		
Chromium - Total	0.0001	0.0006 mg/L
Iron - Total TIC-006 W09-023(ADEL)		
Iron - Total	0.0005	0.4536 mg/L
Lead - Total TIC-006 W09-023(ADEL)		
Lead - Total	0.0001	0.0008 mg/L
Magnesium TIC-004 W09-023(ADEL)		
Magnesium	0.05	7.80 mg/L
Manganese - Total TIC-006 W09-023(ADEL)		
Manganese - Total	0.0001	0.0262 mg/L
Potassium TIC-004 W09-023(ADEL)		
Potassium	0.05	3.43 mg/L



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Sodium Adsorption Ratio W09-023(ADEL)

Sodium Adsorption Ratio - Calculation 2.28

Sodium TIC-004 W09-023(ADEL)

Sodium 0.1 40.2 mg/L

Sulphur TIC-004 W09-023(ADEL)

Sulphate 1.5 14.4 mg/L

Total Hardness as CaCO3 W09-023(ADEL)

Total Hardness as CaCO3 2.0 59 mg/L

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

Zinc - Total 0.0003 0.0078 mg/L

Inorganic Chemistry - Nutrients

LOR

Result

Sample temperature at time of receipt NA

Chloride T0104-02 W09-023(ADEL)

Chloride 4.0 68 mg/L

Nitrate + Nitrite as N T0161-01 W09-023(ADEL)

Nitrate + Nitrite as N 0.003 0.081 mg/L

Nitrogen - Total TMZ-M06 W09-023(ADEL)

Nitrogen - Total 0.69 mg/L

Phosphorus - Total T0109-01 W09-023(ADEL)

Phosphorus - Total 0.005 0.042 mg/L

TKN as N T0112-01 W09-023(ADEL)

TKN as Nitrogen 0.05 0.61 mg/L

Organic Chemistry

LOR

Result

Sample temperature at time of receipt NA

Organophosphorous and Triazine Pesticides T0800-01 W09-023(ADEL)

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

Malathion 0.5 <0.5 µg/L



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Organophosphorous and Triazine Pesticides T0800-01 W09-023(ADEL)

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(ADEL)

Conductivity	1	380 µS/cm
Total Dissolved Solids (by EC)	1.0	210 mg/L

pH T0010-01 W09-023(ADEL)

pH		7.5 pH units
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Turbidity T0018-01 W09-023(ADEL)

Turbidity	0.1	13 NTU
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AWQC Signatories

Mira Banasiak - Supervisor Bacteriology

Dzung Bui - Supervisor Metals and Physical

Ivana Cech - Technical Officer Chemistry

Melissa Phillips - Technical Officer Chemistry

Gayle Polley - Snr Technical Officer

Kamilla Springer - Senior Technical Officer

Saiful Talukder - Technical Officer Chemistry



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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	AP4500HB
T0016-01	Determination of Conductivity - Corrected to 25C	AP2510B
T0018-01	Turbidity - Nephelometric Measurement	APAWWA-WEF
T0081-01	E.Coli - Membrane filtration	USEPA1604_1H
T0104-02	Chloride - Discrete Analyser	AP4500CLE
T0109-01	Phosphorus - total by discrete analyser	AP4500PF
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T0161-01	Nitrate + Nitrate (NOx) - Automated Flow Colorimetry	AP4500NO3I
T0800-01	Nitrogen and Phosphorous Containing Pesticides	USEPA507
TIC-004	Determination of Metals - ICP Spectrometry by ICP2	AP3120
TIC-006	Elemental Analysis By ICP- MS	EPA200.8
TMZ-M06	Derived Results and Data Checks	AP4500NORGA
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
Organic Chemistry	1115
Bacteriology	1115
Inorganic Chemistry - Metals	1115



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