



Barossa Infrastructure Ltd
ATTN: Simon Schutz
PO Box 665
TANUNDA
SA 5352 AUSTRALIA

04/09/2020

Dear Simon

Please find attached the Final Analytical Report for

Customer Service Request: 122622-2020-CSR-1
Account: 122622
Project: AWQC-150084 Barossa Infrastructure Ltd - Routine 20/21

This report has also been sent to: Neville Skipworth

AWQC Sample Receipt hours are Monday and Tuesday 8:30am to 8pm and Wednesday, Thursday and Friday 8:30am to 4:30pm.

Yours sincerely,

Brendan Walsh
Customer Service Officer
Brendan.Walsh@sawater.com.au
+61 8 7424 2889





FINAL REPORT: 290846

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Report Information

Project Name AWQC-150084
Customer Barossa Infrastructure Ltd
CSR_ID 122622-2020-CSR-1

Analytical Results

Customer Sample Description BIL Connection point
Sampling Point 84513-Barossa Infrastructure Ltd - Fromms Square Williamstown
Sampled Date 21/08/2020 7:27:49AM
Sample Received Date 21/08/2020 7:27:49AM
Sample Analysis Completed 3/09/2020 1:43:02PM
Sample ID 2020-006-2412
Status Endorsed
Collection Type AWQC Collected

Bacteriology	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
E.coli & Thermotolerant Coliforms T0081-01 WMZ-500(ADEL)			
E.coli		0 cfu/100mL	
Thermotolerant Coliforms		0 cfu/100mL	

Inorganic Chemistry - Metals	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Arsenic - Total TIC-006 W09-023(ADEL)			
Arsenic - Total	0.0003	<0.0003 mg/L	24/08/2020
Boron - Soluble TIC-006 W09-023(ADEL)			
Boron - Soluble	0.020	<0.020 mg/L	24/08/2020
Cadmium - Soluble TIC-006 W09-023(ADEL)			
Cadmium - Soluble	0.0001	<0.0001 mg/L	24/08/2020
Calcium TIC-004 W09-023(ADEL)			
Calcium	0.1	10.3 mg/L	25/08/2020
Chromium - Total TIC-006 W09-023(ADEL)			
Chromium - Total	0.0001	<0.0001 mg/L	24/08/2020
Iron - Total TIC-006 W09-023(ADEL)			
Iron - Total	0.0005	0.0026 mg/L	24/08/2020
Lead - Total TIC-006 W09-023(ADEL)			
Lead - Total	0.0001	0.0003 mg/L	24/08/2020
Magnesium TIC-004 W09-023(ADEL)			
Magnesium	0.05	4.51 mg/L	25/08/2020
Manganese - Total TIC-006 W09-023(ADEL)			
Manganese - Total	0.0001	0.0017 mg/L	24/08/2020
Potassium TIC-004 W09-023(ADEL)			
Potassium	0.05	2.15 mg/L	25/08/2020



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No.1115 Chemical and
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Status	Endorsed
Collection Type	AWQC Collected

Sodium Adsorption Ratio W09-023(ADEL)			21/08/2020
Sodium Adsorption Ratio - Calculation		1.67	
Sodium TIC-004 W09-023(ADEL)			25/08/2020
Sodium	0.1	25.5 mg/L	
Sulphur TIC-004 W09-023(ADEL)			25/08/2020
Sulphate	1.5	26.7 mg/L	
Sulphur	0.5	8.9 mg/L	
Total Hardness as CaCO3 W09-023(ADEL)			21/08/2020
Total Hardness as CaCO3	2.0	44 mg/L	
Zinc - Total TIC-006 W09-023(ADEL)			24/08/2020
Zinc - Total	0.0003	0.0044 mg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Chloride T0104-02 W09-023(ADEL)			24/08/2020
Chloride	4.0	31 mg/L	
Nitrate + Nitrite as N T0161-01 W09-023(ADEL)			02/09/2020
Nitrate + Nitrite as N	0.003	0.053 mg/L	
Nitrogen - Total TMZ-M06 W09-023(ADEL)			21/08/2020
Nitrogen - Total		0.80 mg/L	
Phosphorus - Total T0109-01 W09-023(ADEL)			26/08/2020
Phosphorus - Total	0.005	<0.005 mg/L	
TKN as N T0112-01 W09-023(ADEL)			26/08/2020
TKN as Nitrogen	0.05	0.75 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Conductivity & Total Dissolved Solids T0016-01 W09-023(ADEL)			21/08/2020
Conductivity	2	237 µS/cm	
Total Dissolved Solids (by EC)	1	131 mg/L	
Turbidity T0018-01 W09-023(ADEL)			21/08/2020
Turbidity	0.1	<0.10 NTU	



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AWQC Signatories

Dzung Bui - Supervisor Metals and Physical

Vickie Dalgleish - Snr Technical Officer

Thuy Diep - Technical Officer Chemistry

Kerrie Jooste - Manager Chemistry Services

Aji John - Technical Officer Chemistry

Melissa Phillips - Technical Officer Chemistry

Gayle Polley - Snr Technical Officer



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Analytical Method

Analytical Method Code	Description	Reference Method
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
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.

Laboratory Information

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



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Notes

- The last figure of the result value is a significant figure.
- # determination of the component is not covered by NATA Accreditation.
- ^ indicates result is out of specification according to the reference guideline. Refer to report footer.
- * indicates an incident has been recorded against the sample. Refer to report footer.
- & Indicates the results have changed since the last issued report.
- The Limit of Reporting (LOR) is the lowest concentration of analyte which is reported at the AWQC and is based on the LOQ rounded up to a more readily used value. The Limit of Quantitation (LOQ) is the lowest concentration of analyte for which quantitative results may be obtained within a specified degree of confidence.
- Where collection type is AWQC Collect, NATA has confirmed that due to a robust system in place for maintaining the temperature integrity for samples collected by AWQC's Field Laboratory Services, the recording of temperature when samples arrive at the AWQC is out of scope.
- Where applicable the [Measurement of Uncertainty](https://www.awqc.com.au/our-services/analytical-services/measurement-uncertainty) is available at <https://www.awqc.com.au/our-services/analytical-services/measurement-uncertainty>.
- If pH has been tested then the pH will be outside of its holding time unless measured in the field.
- (ADEL) indicates analysed in Adelaide, (MELB) indicates analysed in Melbourne.