PO Box 1751
Adelaide SA 5001

250 Victoria Square
Adelaide SA 5000

Tel: 1300 653 366
Fax: 1300 883 171

Internet: www.awqc.com.au

Email: awqc@sawater.com.au

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

23/02/2021

Dear Simon

Please find attached the Final Analytical Report for

Customer Service Request:	122622-2020-CSR-1
Account:	122622
Project:	AWQC-155653 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,

Jason Cutler
Customer Service Officer
Jason.Cutler@sawater.com.au

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AWQC

FINAL REPORT: 303509

Report Information

Project Name	AWQC-155653
Customer	Barossa Infrastructure Ltd
CSR_ID	122622-2020-CSR-1

Analytical Results

Customer Sample Description	BIL Connection point
Sampling Point	84513-Barossa Infrastucture Ltd - Fromms Square Williamstown
Sampled Date	12/02/2021 8:16:37AM
Sample Received Date	12/02/2021 8:16:37AM
Sample Analysis Completed	22/02/2021 9:44:14AM
Sample ID	*2021-000-5054
Status	Endorsed
Collection Type	AWQC Collected

Bacteriology	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			
E.coli & Thermotolerant Coliforms T0081-01 WMZ-500(ADEL)			12/02/2021
E.coli		1 cfu/100mL	
Thermotolerant Coliforms		1 cfu/100mL	

Inorganic Chemistry - Metals	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			
Arsenic - Total TIC-006 W09-023(ADEL)			15/02/2021
Arsenic - Total	0.0003	0.0007 mg/L	
Boron - Soluble TIC-006 W09-023(ADEL)			15/02/2021
Boron - Soluble	0.020	<0.020 mg/L	
Cadmium - Soluble TIC-006 W09-023(ADEL)			15/02/2021
Cadmium - Soluble	0.0001	<0.0001 mg/L	
Calcium TIC-004 W09-023(ADEL)			16/02/2021
Calcium	0.1	8.5 mg/L	
Chromium - Total TIC-006 W09-023(ADEL)			15/02/2021
Chromium - Total	0.0001	0.0021 mg/L	
Iron - Total TIC-006 W09-023(ADEL)			15/02/2021
Iron - Total	0.0005	1.620 mg/L	
Lead - Total TIC-006 W09-023(ADEL)			15/02/2021
Lead - Total	0.0001	0.0011 mg/L	
Magnesium TIC-004 W09-023(ADEL)			16/02/2021
Magnesium	0.05	6.08 mg/L	
Manganese - Total TIC-006 W09-023(ADEL)			15/02/2021
Manganese - Total	0.0001	0.0158 mg/L	
Potassium TIC-004 W09-023(ADEL)			16/02/2021
Potassium	0.05	2.51 mg/L	

NATA
WORLD RECOGNISED ACCREDITATION

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

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Collection Type	AWQC Collected

Sodium Adsorption Ratio W09-023(ADEL)			12/02/2021
Sodium Adsorption Ratio - Calculation		1.96	
Sodium TIC-004 W09-023(ADEL)			16/02/2021
Sodium	0.1	30.7 mg/L	
Sulphur TIC-004 W09-023(ADEL)			16/02/2021
Sulphate	1.5	9.9 mg/L	
Sulphur	0.5	3.3 mg/L	
Total Hardness as CaCO3 W09-023(ADEL)			12/02/2021
Total Hardness as CaCO3	2.0	46 mg/L	
Zinc - Total TIC-006 W09-023(ADEL)			15/02/2021
Zinc - Total	0.0003	0.0062 mg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			
Chloride T0104-02 W09-023(ADEL)			16/02/2021
Chloride	4.0	50 mg/L	
Nitrate + Nitrite as N T0161-01 W09-023(ADEL)			19/02/2021
Nitrate + Nitrite as N	0.003	<0.003 mg/L	
Nitrogen - Total TMZ-M06 W09-023(ADEL)			19/02/2021
Nitrogen - Total		0.51 mg/L	
Phosphorus - Total T0109-01 W09-023(ADEL)			16/02/2021
Phosphorus - Total	0.005	0.056 mg/L	
TKN as N T0112-01 W09-023(ADEL)			16/02/2021
TKN as Nitrogen	0.05	0.51 mg/L	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			
Conductivity & Total Dissolved Solids T0016-01 W09-023(ADEL)			18/02/2021
Conductivity	2	272 µS/cm	
Total Dissolved Solids (by EC)	1	150 mg/L	
Turbidity T0018-01 W09-023(ADEL)			15/02/2021
Turbidity	0.1	21 NTU	

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AWQC Signatories

Dzung Bui - Supervisor Metals and Physical

Ivana Cech - Technical Officer Chemistry

Vickie Dalgleish - Snr Technical Officer

Thuy Diep - Technical Officer Chemistry

David Evans - Customer Service Officer

Aji John - Technical Officer Chemistry

Chami Karunatilaka - Technical Officer

Saiful Talukder - Technical Officer Chemistry

Julian Weidenbach - Snr Technical Officer

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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2021-000-5054	84513	BIL Connection point	12/02/2021	Turbidity	Test not processed within holding time

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 - Nutrients	1115
Bacteriology	1115
Inorganic Chemistry - Metals	1115

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Notes

1. The last figure of the result value is a significant figure.
2. # determination of the component is not covered by NATA Accreditation.
3. ^ indicates result is out of specification according to the reference guideline. Refer to report footer.
4. * indicates an incident has been recorded against the sample. Refer to report footer.
5. & Indicates the results have changed since the last issued report.
6. 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.
7. 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.
8. Where applicable the Measurement of Uncertainty is available at https://www.awqc.com.au/our-services/analytical-services/measurement-uncertainty.
9. If pH has been tested then the pH will be outside of its holding time unless measured in the field.
10. (ADEL) indicates analysed in Adelaide, (MELB) indicates analysed in Melbourne.