PO Box 1751 250 Victoria Square Adelaide SA 5001 Adelaide SA 5000

Internet: www.awqc.com.au Email: awqc@sawater.com.au



Tel: 1300 653 366

Fax: 1300 883 171

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

26/10/2023

Dear Simon

Please find attached the Final Analytical Report for

Customer Service Request: 122622-2023-CSR-2

Account: 122622

Project: AWQC-187238 Barossa Infrastructure Ltd - Routine 23/24

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

Yours sincerely,

Corrina Smith
Customer Service Officer
Corrina.Smith@sawater.com.au



ria Square Tel: 1300 653 366 SA 5000 Fax: 1300 883 171

Email: awqc@sawater.com.au



13/10/2023

FINAL REPORT: 372019

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Report Information

Project Name AWQC-187238

CustomerBarossa Infrastructure LtdCSR_ID122622-2023-CSR-2

Analytical Results

Sampling Point 84513-Barossa Infrastructure Ltd - Fromms Square Williamstown

 Sampled Date
 13/10/2023
 8:07:40AM

 Sample Received Date
 13/10/2023
 8:07:40AM

 Sample Analysis Completed
 26/10/2023
 10:43:28AM

 Sample ID
 *2023-007-6098

StatusEndorsedCollection TypeAWQC Collected

Bacteriology	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			

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
Sample temperature at time of receip	t NA		
Arsenic - Total TIC-006 W09-023(ADEL	.)		16/10/2023
Arsenic - Total	0.00006	0.00042 mg/L	
Boron - Soluble TIC-006 W09-023(ADE	L)		16/10/2023
Boron - Soluble	0.020	<0.020 mg/L	
Cadmium - Total TIC-006 W09-023(ADI	EL)		16/10/2023
Cadmium - Total	0.0001	<0.0001 mg/L	
Calcium TIC-006 W09-023(ADEL)			16/10/2023
Calcium	0.05	12.9 mg/L	
Chromium - Total TIC-006 W09-023(AD	EL)		16/10/2023
Chromium - Total	0.0001	<0.0001 mg/L	
Iron - Total TIC-006 W09-023(ADEL)		-	16/10/2023
Iron - Total	0.0005	0.0020 mg/L	
Lead - Total TIC-006 W09-023(ADEL)		Ü	16/10/2023
Lead - Total	0.0001	0.0002 mg/L	
Magnesium TIC-006 W09-023(ADEL)		ů .	16/10/2023
Magnesium	0.05	8.00 mg/L	
Manganese - Total TIC-006 W09-023(A	DEL)	S	16/10/2023



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Sample ID*2023-007-6098StatusEndorsedCollection TypeAWQC Collected

Manganese - Total TIC-006 W09-023(AI	DEL)		16/10/2023
Manganese - Total	0.0001	0.0038 mg/L	
Potassium TIC-006 W09-023(ADEL)			16/10/2023
Potassium	0.05	3.60 mg/L	
Sodium Adsorption Ratio TMZ-M06 W0	9-023(ADEL)		13/10/2023
Sodium Adsorption Ratio - Calculation		2.51	
Sodium TIC-006 W09-023(ADEL)			16/10/2023
Sodium	0.1	46.5 mg/L	
Sulphur TIC-006 W09-023(ADEL)			16/10/2023
Sulphate	0.6	42.0 mg/L	
Sulphur	0.2	14.0 mg/L	
Total Hardness as CaCO3 TMZ-M06 W0)9-023(ADEL)		13/10/2023
Total Hardness as CaCO3	2.0	65 mg/L	
Zinc - Total TIC-006 W09-023(ADEL)			16/10/2023
Zinc - Total	0.0003	0.0037 mg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt			13/10/2023

morganic Chemistry - Nutrients	LOR	Result	lest Start Date
Sample temperature at time of receipt	NA		
Ammonia as N T0100-01 W09-023(ADEL	_)		13/10/2023
Ammonia as N	0.005	0.957 mg/L	
Chloride T0104-02 W09-023(ADEL)			17/10/2023
Chloride	4.0	49 mg/L	
Nitrate + Nitrite as N T0161-01 W09-023	(ADEL)		25/10/2023
Nitrate + Nitrite as N	0.003	0.066 mg/L	
Nitrogen - Total TMZ-M06 W09-023(ADE	L)		13/10/2023
Nitrogen - Total		1.06 mg/L	
Phosphorus - Total T0109-01 W09-023(A	ADEL)		24/10/2023
Phosphorus - Total	0.005	0.019 mg/L	
TKN as N T0112-01 W09-023(ADEL)			24/10/2023
TKN as Nitrogen	0.05	0.99 mg/L	



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Status Endorsed
Collection Type AWQC Collected

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt N	IA		
Alkalinity Carbonate Bicarbonate and H	ydroxide T0101-0	1 W09-023(ADEL)	17/10/2023
Alkalinity as Calcium Carbonate		52 mg/L	
Bicarbonate		63 mg/L	
Carbonate		0 mg/L	
Hydroxide		0 mg/L	
Conductivity & Total Dissolved Solids To	0016-01 W09-023(A	ADEL)	17/10/2023
Conductivity	2	365 µS/cm	
Note		Conductivity measurement is corrected to 25°C	
Total Dissolved Solids (by EC)	1	202 mg/L	
pH T0010-01 W09-023(ADEL)			17/10/2023
pH		8.2 pH units	
Temperature at which pH is measured		21.9 °C	
Turbidity T0018-01 W09-023(ADEL)			13/10/2023
Turbidity	0.1	<0.10 NTU	
Sampling	LOR	Result	Test Start Date
Sample temperature at time of receipt N	IA		
Chlorine T0012-01 W09-023(ADEL)			13/10/2023
Chlorine - Free	0.1	<0.1 mg/L	
Chlorine - Total	0.1	3.7 mg/L	
Monochloramine	0.1	3.7 mg/L	
Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date
Sample temperature at time of receipt N	IA		
Biochemical Oxygen Demand - Total T01	53-01 W09-023(A	•	13/10/2023
Biochemical Oxygen Demand	2	<2 mg/L	
Suspended Solids T0160-01 W09-023(AD	PEL)		18/10/2023



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Sample ID *2023-007-6098
Status Endorsed
Collection Type AWQC Collected

Suspended Solids T0160-01 W09-023(ADEL)

18/10/2023

Suspended Solids 1.0 <1 mg/L



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AWQC Signatories

Mira Banasiak - Supervisor Bacteriology and Molecular Testing Services

Dzung Bui - Supervisor Metals and Physical

Ivana Cech - Technical Officer Chemistry

Thuy Diep - Technical Officer Chemistry

Kerrie Jooste - Manager Chemistry Services

Gayle Polley - Supervisor Nutrients and Waste

Sam Williams - Senior Field Technician



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2023-007-6098	84513	Barossa Infrastucture Ltd -	13/10/2023	рН	Test not processed within
		Fromms Square Williamstown			holding time

Analytical Method

Analytical Method Code	Description	Reference Method
T0010-01	Determination of pH	AP4500HB
T0012-01	Chlorine by classical and portable meter (field test)	AP4500CLF
T0016-01	Determination of Conductivity - Corrected to 25C	AP2510B
T0018-01	Turbidity - Nephelometric Measurement	APAWWA-WEF
T0081-01	E. coli - Membrane filtration	USEPA1604_1H
T0100-01	Ammonia/Ammonium - Automated Flow Colorimetry	AP4500NH3G
T0101-01	Alkalinity - Automated Acidimetric Titration	AP2320B
T0104-02	Chloride - Discrete Analyser	AP4500CLE
T0109-01	Phosphorus - total by discrete analyser	AP4500PF
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T0153-01	Biochemical Oxygen Demand	AP5210B
T0160-01	Suspended Solids 103C to 105C	AP4500
T0161-01	Nitrate + Nitrate (NOx) - Automated Flow Colorimetry	AP4500NO3I
TIC-006	Elemental Analysis By ICP- MS	EPA200.8
TMZ-M06	Derived Results and Data Checks	
TMZ-M06	Derived Results and Data Checks	AP4500NORGA
TMZ-M06	Derived Results and Data Checks	APHA2340B
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
	Sampling point and date sampled are provided when collected by customers. Validity of results are based on information and samples supplied by customers. Unless it is reported that sampling has been performed by AWQC, the samples have been analysed as received.



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Laboratory Information

Laboratory	NATA accreditation ID
Inorganic Chemistry - Physical	1115
Inorganic Chemistry - Waste Water	1115
Sampling	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. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>
- 7. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
- 8. 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.
- 9. 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.
- 10. If pH has been tested then the pH will be outside of its holding time unless measured in the field.
- 11. (ADEL) indicates analysed in Adelaide, (MELB) indicates analysed in Melbourne.
- 12. AWQC Melbourne Laboratory are only NATA accredited for sampling of potable waters by inhouse method W 09-023.