

#### Customer Information

#### Laboratory Information

<b>Customer</b>	Barossa Infrastructure Ltd	<b>Contact</b>	Corrina Smith
<b>Primary Name</b>	Simon Schutz	<b>Address</b>	250 Victoria Square Adelaide SA 5000
<b>CC</b>	Adam Broadbent	<b>Postal Address</b>	PO Box 1751, Adelaide SA 5001
<b>Address</b>	PO Box 665 TANUNDA SA 5352 AUSTRALIA	<b>Phone</b>	(08) 74241514
<b>Phone</b>	0403743199	<b>Email</b>	customerservice@awqc.com.au
<b>Email</b>	simon@barossainfrastructure.com.au	<b>Website</b>	www.awqc.com.au
<b>CSR ID</b>	122622-2024-CSR-1	<b>ABN</b>	69336525019 A business unit of the South Australian Water Corporation
<b>Account #</b>	122622	<b>AWQC Reference</b>	398440
<b>Project</b>	AWQC-201000 Barossa Infrastructure Ltd - Routine 24/25	<b>Date samples received</b>	24/01/2025
<b>Samples #</b>	1	<b>Date reported</b>	6/02/2025
<b>Purchase order #</b>		<b>Page</b>	Page 1 of 6

#### Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2024-009-4686	84513	Barossa Infrastructure Ltd - Fromms Square Williamstown	24/01/2025	Turbidity	Test not processed within holding time
2024-009-4686	84513	Barossa Infrastructure Ltd - Fromms Square Williamstown	24/01/2025	Suspended Solids	Test not processed within holding time

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#### AWQC Signatories

This document has been electronically signed by the authorised signatories below .

Name	Title
Ivana Cech	Technical Officer Chemistry
Thuy Diep	Technical Officer Chemistry
Chad Major	Supervisor Field Services
Melissa Phillips	Senior Technical Officer Chemistry
Lisa Teakle	Senior Technical Officer Bacteriology & Molecular
Julian Weidenbach	Senior Technical Officer Chemistry



Description			
Sampling Point		84513-Barossa Infrastructure Ltd - Fromms Square Williamstown *2024-009-4686	
Sample ID		*2024-009-4686	
Sampled Date		24/01/2025 07:59	
Collection Type		AWQC Collected	
Parameter	LOR	Units	Result

Bacteriology

Bottle Temp (°C):NA

E.coli & Thermotolerant Coliforms Method: T0081-01 WMZ-500					
Tested Date:		24/01/2025			
E.coli	-	cfu/100mL	1		
Thermotolerant Coliforms	-	cfu/100mL	3		

Inorganic Chemistry - Metals

Bottle Temp (°C):NA

Metals Method: TIC-006 W09-023					
Tested Date:		28/01/2025			
Arsenic - Total	0.00006	mg/L	0.00129		
Boron - Soluble	0.020	mg/L	0.095		
Cadmium - Total	0.0001	mg/L	<0.0001		
Calcium	0.05	mg/L	15.7		
Chromium - Total	0.0001	mg/L	0.0007		
Iron - Total	0.0005	mg/L	0.6752		
Lead - Total	0.0001	mg/L	0.0005		
Magnesium	0.05	mg/L	10.8		
Manganese - Total	0.0001	mg/L	0.0270		
Potassium	0.05	mg/L	4.74		
Sodium	0.1	mg/L	51.0		
Sulphate	0.6	mg/L	16.5		
Sulphur	0.2	mg/L	5.5		
Zinc - Total	0.0003	mg/L	0.0057		
Metals Method: TMZ-M06 W09-023					
Tested Date:		24/01/2025			
Sodium Adsorption Ratio - Calculation	-		2.43		
Total Hardness as CaCO3	2.0	mg/L	84		

Inorganic Chemistry - Nutrients

Bottle Temp (°C):NA

Ammonia as N Method: T0100-01 W09-023					
Tested Date:		04/02/2025			
Ammonia as N	0.005	mg/L	<0.005		
Chloride Method: T0104-02 W09-023					
Tested Date:		30/01/2025			
Chloride	4.0	mg/L	70		
Nitrate + Nitrite as N Method: T0161-01 W09-023					
Tested Date:		29/01/2025			
Nitrate + Nitrite as N	0.003	mg/L	0.056		
Nitrogen - Total Method: TMZ-M06 W09-023					
Tested Date:		24/01/2025			
Nitrogen - Total	-	mg/L	0.57		



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Collection Type		AWQC Collected	
Parameter	LOR	Units	Result

Inorganic Chemistry - Nutrients

Bottle Temp (°C):			NA			
Phosphorus - Total    Method: T0109-01    W09-023						
Tested Date:			28/01/2025			
Phosphorus - Total	0.005	mg/L	0.050			
TKN as N    Method: T0112-01    W09-023						
Tested Date:			28/01/2025			
TKN as Nitrogen	0.05	mg/L	0.51			

Inorganic Chemistry - Physical

Bottle Temp (°C):							NA	
Alkalinity Carbonate Bicarbonate and Hydroxide Method: T0101-01 W09-023								
Tested Date:			24/01/2025					
Alkalinity as Calcium Carbonate	-	mg/L	71					
Bicarbonate	-	mg/L	87					
Carbonate	-	mg/L	0					
Hydroxide	-	mg/L	0					
Conductivity & Total Dissolved Solids Method: T0016-01 W09-023								
Tested Date:			24/01/2025					
Conductivity	2	µS/cm	410					
Note	-		Conductivity measurement is corrected to 25°C					
Total Dissolved Solids (by EC)	1	mg/L	227					
pH Method: T0010-01 W09-023								
Tested Date:			24/01/2025					
pH	-	pH units	7.8					
Temperature at which pH is measured	-	°C	22.0					
Turbidity Method: T0018-01 W09-023								
Tested Date:			29/01/2025					
Turbidity	0.1	NTU	5.4					

Sampling

Bottle Temp (°C):			NA			
Chlorine	Method: T0012-01 W09-023					
Tested Date:			24/01/2025			
Chlorine - Free	0.1	mg/L	<0.1			
Chlorine - Total	0.1	mg/L	<0.1			
Monochloramine	0.1	mg/L	<0.1			

Inorganic Chemistry - Waste Water

Bottle Temp (°C):			NA				
Biochemical Oxygen Demand - Total Method: T0153-01 W09-023							
Tested Date:			24/01/2025				
Biochemical Oxygen Demand	2	mg/L	4				



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Collection Type		AWQC Collected	
Parameter	LOR	Units	Result

Inorganic Chemistry - Waste Water

Bottle Temp (°C):NA

Suspended Solids Method: T0160-01 W09-023			
Tested Date:		31/01/2025	
Suspended Solids	1.0	mg/L	3

## Analytical Methods

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 Methods

Sampling Method Code	Description
W09-023	Sampling Method for Chemical Analyses
WMZ-500	Sampling Method for Microbiological Analyses

Sampling Point and Sampled Date 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.

## Laboratory Information

Laboratory	NATA accreditation ID
Bacteriology	1115
Customer Service Unit	-
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Nutrients	1115
Inorganic Chemistry - Physical	1115
Inorganic Chemistry - Waste Water	1115
Sampling	1115

## Notes

1. The last figure of the result value is a significant figure.
2. # Indicates determination of the component is not covered by NATA Accreditation .
3. ^ Indicates result is out of specification according to the reference guideline.
4. \* Indicates an incident has been recorded against the sample.
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.