Client: Witzenberg Municipality
Address: 50 Voortrekker Street, Ceres, 6835
Report no: 223536
Project: Witzenberg Drinking Water

Date of report: 11 June 2025
Date accepted: 02 June 2025
Date completed: 11 June 2025
Date received: 02 June 2025

					Uncertainty of measure-ment %	SANS 241-1:2015	
Lab no:							260098
Date sampled:							02-Jun-25
Aquatico sampled:							Yes
Sample type:							Water
Locality description:							Tulbagh Water Treatment Works Final
		Analyses	**Unit**	**Method**			
A	AQCL	pH @ 25°C	pH	ALM 20	2.33	5 - 9.7	7.47
A	AQCL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	4.92	< 170	12.2
A	AQCL	Total Dissolved solids @ 180°C	mg/l	ALM 24	9.42	< 1200	64
A	AQCL	Chloride (Cl)	mg/l	ALM 02	7.57	< 300	2.00
A	AQCL	Sulphate (SO_4)	mg/l	ALM 03	8.45	< 500	<0.141
A	AQCL	Nitrate (NO_3) as N	mg/l	ALM 06	9.46	< 11	0.219
A	AQCL	Nitrite (NO_2) as N	mg/l	ALM 07	7.73	< 0.9	<0.065
A	AQCL	Ammonium (NH_4) as N	mg/l	ALM 05	8.46	< 1.5	0.030
N	AQCL	Un-ionized Ammonia as N	mg/l	ALM 26			<0.005
A	AQCL	Fluoride (F)	mg/l	ALM 08	9.76	< 1.5	<0.263
A	AQCL	Acid Soluble Sodium (Na)	mg/l	ALMA 30	7.96	< 200	11.6
A	AQCL	Acid Soluble Aluminium (Al)	mg/l	ALMA 31	7.08	< 0.3	0.033
A	AQCL	Acid Soluble Iron (Fe)	mg/l	ALMA 31	7.16	< 0.3	0.160
A	AQCL	Acid Soluble Manganese (Mn)	mg/l	ALMA 31	6.34	< 0.1	0.013
A	AQL	Total Chromium (Cr)	mg/l	ALMT 31	7.37	< 0.05	<0.010
A	AQCL	Acid Soluble Copper (Cu)	mg/l	ALMA 31	5.15	< 2	<0.002
A	AQCL	Acid Soluble Nickel (Ni)	mg/l	ALMA 31	6.45	< 0.07	0.004
A	AQCL	Acid Soluble Zinc (Zn)	mg/l	ALMA 31	6.65	< 5	0.009
A	AQCL	Acid Soluble Cobalt (Co)	mg/l	ALMA 31	5.54		<0.003
A	AQCL	Acid Soluble Cadmium (Cd)	mg/l	ALMA 31	7.19	< 0.003	<0.002
A	AQCL	Acid Soluble Lead (Pb)	mg/l	ALMA 31	7.09	< 0.01	<0.004
A	AQCL	E.coli	CFU/100ml	ALM 40	7.74	0	<1
A	AQCL	Total coliform	CFU/100ml	ALM 40	7.76	< 10	1
A	AQCL	Heterotrophic plate count	CFU/ml	ALM 45	2.22	< 1000	11
A	AQCL	Turbidity	NTU	ALM 21	5.9	< 1	3.40

A = Accredited N = Not accredited Sub = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine ATR = Alternative test report ; Results relate only to the items sampled and tested ; Results reported against the limit of detection; Results marked "Not SANAS Accredited" in this report are not covered by the Scope of Accreditation for this laboratory; Uncertainty of measurement available on request for all methods included in the SANAS Schedule of Accreditation; The report shall not be reproduced except in full without approval of the laboratory

Ian Belford
Technical Signatory

AQL = Aquatico Laboratories ; AQCL = Aquatico Cape Laboratories

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		Analyses	Unit	Method	Uncertainty of measurement %	SANS 241-1:2015	
Lab no:							260098
Date sampled:							02-Jun-25
Aquatico sampled:							Yes
Sample type:							Water
Locality description:							Tulbagh Water Treatment Works Final
N	AQCL	Total Chlorine (Cl_2)	mg/l	ALM 23	5.94		0.36
A	AQCL	Free chlorine (Cl_2)	mg/l	ALM 23	5.94	< 5	0.21
A	AQCL	True Colour	mg/l Pt-Co	ALM 22	8.74	< 15	<5.00
A	AQL	Total Cyanide (CN)	mg/l	ALM 16	10.36	< 0.2	<0.005
N	AQL	Phenol	mg/l	ALM 71		< 0.01	<0.01
A	AQL	Total organic carbon (TOC)	mg/l	ALM 63	6.46	< 10	3.85
A	AQCL	Acid Soluble Arsenic (As)	mg/l	ALMA 34	10.93	< 0.01	<0.006
A	AQCL	Acid Soluble Selenium (Se)	mg/l	ALMA 34	11.42	< 0.04	<0.002
A	AQCL	Acid Soluble Mercury (Hg)	mg/l	ALMA 34		< 0.006	<0.005
A	AQCL	Acid Soluble Boron (B)	mg/l	ALMA 33	8.93	< 2.4	0.016
A	AQCL	Acid Soluble Barium (Ba)	mg/l	ALMA 33	6.13	< 0.7	0.008
A	AQCL	Acid Soluble Uranium (U)	mg/l	ALMA 37	10.98	< 0.03	<0.015
A	AQCL	Acid Soluble Antimony (Sb)	mg/l	ALMA 36	6.19	< 0.02	<0.001
A	AQL	Trihalomethanes (THM)	µg/l	OLM 02	12.24		36
A	AQL	Bromoform	µg/l	OLM 02	11.28	< 100	<2
A	AQL	Chloroform	µg/l	OLM 02	13.73	< 300	13
A	AQL	Dibromochloromethane	µg/l	OLM 02	11.83	< 100	7
A	AQL	Bromodichloromethane	µg/l	OLM 02	12.11	< 60	16
A	AQL	Combined Bromoform	ratio	OLM 02			<0.020
A	AQL	Combined Chloroform	ratio	OLM 02			0.045
A	AQL	Combined Dibromochloromethane	ratio	OLM 02			0.074
A	AQL	Combined Bromodichloromethane	ratio	OLM 02			0.260
A	AQL	THM Sum of rations	ratio	OLM 02		< 1	0.379
N	AQCL	Monochloramine	mg/l	ALM 67		< 3	0.09
N	AQL	Microcystin	µg/l	ALM 68		< 1	<0.5

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Lab no:						**Uncertainty of measure-ment %**	**SANS 241-1:2015**	260098
Date sampled:								02-Jun-25
Aquatico sampled:								Yes
Sample type:								Water
Locality description:								Tulbagh Water Treatment Works Final
		Analyses		**Unit**	**Method**			
N	AQL	Combined Nitrate plus Nitrite		ratio	ALM 26		< 1	<1.00
A	AQL	HNO3-Microwave digestion		mg/l	ALM 90			Yes

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Distillery Road
Stellenbosch
Tel 021-8828866
info@vinlab.com
www.vinlab.com
2025-06-10

TEST REPORT

Water

Aquatico Cape Laboratories (Pty) Ltd

Attn: Ian Belford

Unit 1, Ground Floor
Somerset West
Block H, The Grove Business Park
7130
+27636804788

@VinlabSA

Sample Details					
SampleID	W64260				
Water Type	Not indicated				
Water Source					
Sample Temperature					
Description	Tulbagh Water Treatment Works Final				
Batch Number					
PO Number	AQCL 2025 6				
Date Received	2025-06-04				
Condition	Good				

Water - Micro									
	Unit	Method	Uncertainty	Limits	Results	Results	Results	Results	Results
Cryptosporidium	per 10L	VIN-05-MW12			nd				
Giardia	per 10L	VIN-05-MW13			nd				
Somatic coliphages (Water)*	pfu/100mL				nd				
Date Tested					2025-06-05				

Comments
W64260 Two Samples received,

Alanah Hartzer
Senior Analyst
VIN-05-M01, M02, M04, M05, M08, M10, M28, M40, M48, M49, M50, M51, M52, M53, M54, M55, MW01, MW02, MW03, MW04, MW08, MW09, MW10, MW12, MW13, MW14, MW43

Please click here for SANS241-1:2015 drinking water limits

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^ - Conductivity <1000mS/m = ±1mS/m , >1000mS/m = ±9mS/m
^^ - COD, LR = ±16mg/L, MR = ±48mg/L, HR = ±477mg/L
^^^ - pH ± 0.1

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