

Test Report

Page 1 of 2

Client: Moqhaka Local Municipality
Address: Moqhaka Municipality, Hill Street, Kroonstad
Report no: 230527
Project: Moqhaka Municipality

Date of report: 14 August 2025
Date accepted: 06 August 2025
Date completed: 12 August 2025
Date received: 06 August 2025

Lab no:	295380	295381	295382	295383	295384	295385	295386
Date sampled:	04-Aug-25	05-Aug-25	04-Aug-25	05-Aug-25	04-Aug-25	04-Aug-25	04-Aug-25
Aquatico sampled:	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:	Water	Water	Water	Water	Water	Water	Water
Locality description:	Kroonstad Boltumelo Hosp	Kroonstad Brent Park Clinic	Kroonstad Correctional Gate	Kroonstad Tshepong Clinic	Kroonstad Suidrand Reservoir	Kroonstad Panorama Centre	Kroonstad Moakeng Reservoir
Analyses	Unit	Method					
A AQL pH @ 25°C	pH	ALM 20	7.99	8.16	8.08	8.23	8.11
A AQL Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	49.2	50.7	59.2	44.0	48.3
A AQL Total Dissolved solids @ 180°C	mg/l	ALM 24	308	350	404	274	322
A AQL Total Alkalinity	mg CaCO ₃ /l	ALM 01	231	221	246	208	201
A AQL Chloride (Cl)	mg/l	ALM 02	22.3	21.4	28.0	20.6	20.6
A AQL Sulphate (SO ₄)	mg/l	ALM 03	33.3	35.4	44.9	31.8	34.5
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.217	0.414	0.858	0.230	<0.194
A AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.217	0.414	0.858	0.230	<0.194
A AQL Ammonium (NH ₄) as N	mg/l	ALM 05	0.022	0.020	0.026	0.032	0.030
A AQL Fluoride (F)	mg/l	ALM 08	<0.263	<0.263	0.791	<0.263	<0.263
A AQL Acid Soluble Calcium (Ca)	mg/l	ALMA 30	44.0	44.4	47.2	38.5	42.9
A AQL Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	22.4	22.8	21.4	21.8	21.2
A AQL Acid Soluble Sodium (Na)	mg/l	ALMA 30	28.9	28.7	49.5	26.7	28.3
A AQL Acid Soluble Potassium (K)	mg/l	ALMA 30	6.75	6.77	8.83	7.17	6.63
A AQL Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.065	0.611	0.048	0.090	0.077
A AQL Turbidity	NTU	ALM 21	3.52	3.56	0.548	1.53	0.860
A AQL True Colour	mg/l Pt-Co	ALM 22	<5.00	6.00	5.00	9.00	<5.00
A AQL Langelier Saturation Index	LSI	ALM 26	-0.06	0.10	0.08	0.08	-0.01

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

M. Swanepoel
 Technical Signatory

Test Report

Page 2 of 2

Client: Moqhaka Local Municipality
Address: Moqhaka Municipality, Hill Street, Kroonstad
Report no: 230527
Project: Moqhaka Municipality

Date of report: 14 August 2025
Date accepted: 06 August 2025
Date completed: 12 August 2025
Date received: 06 August 2025

Lab no:	295387	295388	295389	295390		
Date sampled:	04-Aug-25	05-Aug-25	05-Aug-25	04-Aug-25		
Aquatico sampled:	Yes	Yes	Yes	Yes		
Sample type:	Water	Water	Water	Water		
Locality description:	Kroonheuwe l Plat Reservoir	Kroonstad Seisoville Clinic	Kroonstad Bhopelong Clinic	Kroonstad Moqhaka clinic		
Analyses	Unit	Method				
A AQL pH @ 25°C	pH	ALM 20	8.17	8.23	7.98	7.93
A AQL Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	50.2	51.0	50.4	48.5
A AQL Total Dissolved solids @ 180°C	mg/l	ALM 24	334	326	322	264
A AQL Total Alkalinity	mg CaCO ₃ /l	ALM 01	213	225	207	196
A AQL Chloride (Cl)	mg/l	ALM 02	21.6	21.1	22.1	22.0
A AQL Sulphate (SO ₄)	mg/l	ALM 03	32.8	35.5	34.8	32.8
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.350	<0.194	0.204	0.252
A AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.350	<0.194	0.204	0.252
A AQL Ammonium (NH ₄) as N	mg/l	ALM 05	0.021	0.026	0.031	0.034
A AQL Fluoride (F)	mg/l	ALM 08	<0.263	<0.263	<0.263	0.274
A AQL Acid Soluble Calcium (Ca)	mg/l	ALMA 30	42.3	45.4	43.8	41.2
A AQL Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	21.4	23.1	22.3	20.9
A AQL Acid Soluble Sodium (Na)	mg/l	ALMA 30	27.8	29.7	28.7	27.4
A AQL Acid Soluble Potassium (K)	mg/l	ALMA 30	6.53	6.60	6.46	6.72
A AQL Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.182	0.244	0.015	0.148
A AQL Turbidity	NTU	ALM 21	1.16	2.26	0.451	22.6
A AQL True Colour	mg/l Pt-Co	ALM 22	<5.00	<5.00	<5.00	8.00
A AQL Langelier Saturation Index	LSI	ALM 26	0.07	0.18	-0.12	-0.22

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

Authenticated signature on first page

Test Report

Page 1 of 1

 Client: Moqhaka Local Municipality
 Address: Moqhaka Municipality, Hill Street, Kroonstad
 Report no: Z30536
 Project: Moqhaka Municipality

 Date of report: 12 August 2025
 Date accepted: 06 August 2025
 Date completed: 12 August 2025
 Date received: 06 August 2025

Lab no:		295449	295450
Date sampled:		04-Aug-25	04-Aug-25
Aquatico sampled:		Yes	Yes
Sample type:		Water	Water
Locality description:		Kroonstad WTW Raw	Kroonstad WTW Final
Analyses	Unit	Method	
A AQL pH @ 25°C	pH	ALM 20	8.43 8.10
A AQL Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	50.3 50.8
A AQL Total Dissolved solids @ 180°C	mg/l	ALM 24	358 322
A AQL Total Alkalinity	mg CaCO ₃ /l	ALM 01	251 224
A AQL Chloride (Cl)	mg/l	ALM 02	16.2 22.2
A AQL Sulphate (SO ₄)	mg/l	ALM 03	35.9 35.2
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.287 0.334
A AQL Total oxidised nitrogen as N	mg/l	ALM 05	0.287 0.334
A AQL Ammonium (NH ₄) as N	mg/l	ALM 05	0.051 0.040
A AQL Fluoride (F)	mg/l	ALM 08	<0.263 <0.263
A AQL Acid Soluble Calcium (Ca)	mg/l	ALMA 30	44.2 43.3
A AQL Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	22.5 21.7
A AQL Acid Soluble Sodium (Na)	mg/l	ALMA 30	33.5 34.7
A AQL Acid Soluble Potassium (K)	mg/l	ALMA 30	6.42 6.40
A AQL Acid Soluble Aluminium (Al)	mg/l	ALMA 31	<0.002 0.239
A AQL Turbidity	NTU	ALM 21	4.61 1.82
A AQL True Colour	mg/l Pt-Co	ALM 22	19.0 <5.00
A AQL Langelier Saturation Index	LSI	ALM 26	0.41 0.03

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

M. Swanepoel
 Technical Signatory