

Test Report

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Client: Moqhaka Local Municipality
Address: Moqhaka Municipality, Hill Street, Kroonstad
Report no: 229876
Project: Moqhaka Municipality

Date of report: 04 August 2025
Date accepted: 29 July 2025
Date completed: 04 August 2025
Date received: 29 July 2025

Lab no:	291788	291789	291790	291791	291792	291793	291794		
Date sampled:	28-Jul-25	29-Jul-25	28-Jul-25	29-Jul-25	28-Jul-25	28-Jul-25	28-Jul-25		
Aquatico sampled:	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Sample type:	Water	Water	Water	Water	Water	Water	Water		
Locality description:	Kroonstad Boitumelo 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	7.92	8.06	8.02	8.04	8.11	8.18	7.95
A AQL Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	44.5	47.1	57.6	46.3	44.1	44.3	45.9
A AQL Total Dissolved solids @ 180°C	mg/l	ALM 24	280	312	350	294	290	308	308
A AQL Total Alkalinity	mg CaCO ₃ /l	ALM 01	179	197	252	191	177	179	191
A AQL Chloride (Cl)	mg/l	ALM 02	20.1	19.5	27.6	19.6	19.1	19.6	19.8
A AQL Sulphate (SO ₄)	mg/l	ALM 03	24.2	33.0	40.7	32.9	33.0	33.5	34.2
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.324	1.22	1.03	0.266	0.273	0.263	0.257
A AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.324	1.22	1.03	0.266	0.273	0.263	0.257
A AQL Ammonium (NH ₄) as N	mg/l	ALM 05	0.019	0.019	0.026	0.015	0.029	0.030	0.024
A AQL Fluoride (F)	mg/l	ALM 08	<0.263	<0.263	<0.263	<0.263	<0.263	<0.263	<0.263
A AQL Acid Soluble Calcium (Ca)	mg/l	ALMA 30	40.8	41.7	51.6	40.0	41.5	45.1	41.8
A AQL Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	17.4	24.1	22.2	23.1	18.5	18.8	23.0
A AQL Acid Soluble Sodium (Na)	mg/l	ALMA 30	29.0	30.7	56.2	29.8	28.8	29.0	29.3
A AQL Acid Soluble Potassium (K)	mg/l	ALMA 30	7.58	7.44	9.90	7.29	7.45	7.50	7.47
A AQL Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.035	0.449	0.052	0.080	0.049	0.086	0.013
A AQL Turbidity	NTU	ALM 21	0.710	8.78	1.10	5.25	0.992	1.41	0.408
A AQL True Colour	mg/l Pt-Co	ALM 22	<5.00	<5.00	<5.00	<5.00	9.00	<5.00	<5.00
A AQL Langelier Saturation Index	LSI	ALM 26	-0.27	-0.09	0.07	-0.13	-0.08	0.02	-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

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Client: Moqhaka Local Municipality
Address: Moqhaka Municipality, Hill Street, Kroonstad
Report no: 229876
Project: Moqhaka Municipality

Date of report: 04 August 2025
Date accepted: 29 July 2025
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Lab no:	291795	291796	291797	291798		
Date sampled:	28-Jul-25	29-Jul-25	29-Jul-25	28-Jul-25		
Aquatico sampled:	Yes	Yes	Yes	Yes		
Sample type:	Water	Water	Water	Water		
Locality description:	Kroonheuwe I Plat Reservoir	Kroonstad Selsoville Clinic	Kroonstad Bhopelong Clinic	Kroonstad Moqhaka clinic		
Analyses	Unit	Method				
A AQL pH @ 25°C	pH	ALM 20	8.08	8.11	7.93	7.73
A AQL Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	46.1	47.4	46.8	40.2
A AQL Total Dissolved solids @ 180°C	mg/l	ALM 24	274	334	296	252
A AQL Total Alkalinity	mg CaCO ₃ /l	ALM 01	194	207	195	157
A AQL Chloride (Cl)	mg/l	ALM 02	19.5	20.0	20.2	19.1
A AQL Sulphate (SO ₄)	mg/l	ALM 03	34.5	35.1	34.8	29.7
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.243	0.245	0.259	0.484
A AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.243	0.245	0.259	0.484
A AQL Ammonium (NH ₄) as N	mg/l	ALM 05	0.028	0.024	0.022	0.020
A AQL Fluoride (F)	mg/l	ALM 08	<0.263	<0.263	<0.263	<0.263
A AQL Acid Soluble Calcium (Ca)	mg/l	ALMA 30	41.4	49.1	46.6	34.5
A AQL Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	23.2	23.9	23.1	19.2
A AQL Acid Soluble Sodium (Na)	mg/l	ALMA 30	29.5	30.9	29.8	26.2
A AQL Acid Soluble Potassium (K)	mg/l	ALMA 30	7.38	7.31	7.24	7.80
A AQL Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.157	0.284	0.021	0.287
A AQL Turbidity	NTU	ALM 21	1.51	2.99	0.420	13.2
A AQL True Colour	mg/l Pt-Co	ALM 22	<5.00	<5.00	5.00	<5.00
A AQL Langelier Saturation Index	LSI	ALM 26	-0.08	0.05	-0.17	-0.59

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Test Report

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Client: Moqhaka Local Municipality
Address: Moqhaka Municipality, Hill Street, Kroonstad
Report no: 229879
Project: Moqhaka Municipality

Date of report: 04 August 2025
Date accepted: 29 July 2025
Date completed: 04 August 2025
Date received: 29 July 2025

Lab no:	291806	291807		
Date sampled:	29-Jul-25	29-Jul-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	8.28	8.02
A AQL Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	47.4	48.1
A AQL Total Dissolved solids @ 180°C	mg/l	ALM 24	338	308
A AQL Total Alkalinity	mg CaCO ₃ /l	ALM 01	209	200
A AQL Chloride (Cl)	mg/l	ALM 02	15.6	20.9
A AQL Sulphate (SO ₄)	mg/l	ALM 03	36.6	35.3
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.285	0.429
A AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.285	0.429
A AQL Ammonium (NH ₄) as N	mg/l	ALM 05	0.040	0.017
A AQL Fluoride (F)	mg/l	ALM 08	<0.263	<0.263
A AQL Acid Soluble Calcium (Ca)	mg/l	ALMA 30	41.3	40.7
A AQL Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	20.7	20.4
A AQL Acid Soluble Sodium (Na)	mg/l	ALMA 30	32.4	28.3
A AQL Acid Soluble Potassium (K)	mg/l	ALMA 30	6.76	6.70
A AQL Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.009	0.253
A AQL Turbidity	NTU	ALM 21	8.51	3.39
A AQL True Colour	mg/l Pt-Co	ALM 22	<5.00	<5.00
A AQL Langelier Saturation Index	LSI	ALM 26	0.15	-0.13

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