

Test Report

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Client: Moqhaka Local Municipality
Address: Moqhaka Municipality, Hill Street, Kroonstad
Report no: 229164
Project: Moqhaka Municipality

Date of report: 29 July 2025
Date accepted: 23 July 2025
Date completed: 29 July 2025
Date received: 23 July 2025

Lab no:	288390	288391	288392	288393	288394	288395	288396
Date sampled:	21-Jul-25	22-Jul-25	21-Jul-25	22-Jul-25	21-Jul-25	21-Jul-25	21-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	8.31	8.20	8.18	8.24	8.16
A AQL Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	41.7	44.2	48.5	42.9	41.8
A AQL Total Dissolved solids @ 180°C	mg/l	ALM 24	290	340	372	326	306
A AQL Total Alkalinity	mg CaCO ₃ /l	ALM 01	166	178	195	175	164
A AQL Chloride (Cl)	mg/l	ALM 02	21.4	22.3	24.7	21.5	21.1
A AQL Sulphate (SO ₄)	mg/l	ALM 03	29.7	33.9	36.7	32.6	30.1
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.343	0.357	0.654	0.321	0.308
A AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.343	0.357	0.654	0.321	0.308
A AQL Ammonium (NH ₄) as N	mg/l	ALM 05	0.014	0.017	0.034	0.017	0.023
A AQL Fluoride (F)	mg/l	ALM 08	<0.263	<0.263	<0.263	<0.263	<0.263
A AQL Acid Soluble Calcium (Ca)	mg/l	ALMA 30	38.8	40.6	41.6	41.7	37.9
A AQL Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	18.7	19.1	18.9	18.8	18.0
A AQL Acid Soluble Sodium (Na)	mg/l	ALMA 30	27.6	30.2	41.7	28.5	27.5
A AQL Acid Soluble Potassium (K)	mg/l	ALMA 30	8.20	8.05	9.58	8.12	7.94
A AQL Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.099	0.300	0.078	0.116	0.072
A AQL Turbidity	NTU	ALM 21	1.34	3.34	1.03	1.43	0.855
A AQL True Colour	mg/l Pt-Co	ALM 22	<5.00	<5.00	<5.00	<5.00	<5.00
A AQL Langeller Saturation Index	LSI	ALM 26	0.08	0.01	0.04	0.06	-0.09

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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Report no: 229164
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Date of report: 29 July 2025
Date accepted: 23 July 2025
Date completed: 29 July 2025
Date received: 23 July 2025

Lab no:	288397	288398	288399	288400
Date sampled:	21-Jul-25	22-Jul-25	22-Jul-25	21-Jul-25
Aquatiko sampled:	Yes	Yes	Yes	Yes
Sample type:	Water	Water	Water	Water
Locality description:	Kroonheuwe l Plat Reservoir	Kroonstad Selsoville Clinic	Kroonstad Bhopelong Clinic	Kroonstad Moqhaka clinic
Analyses	Unit	Method		
A AQL pH @ 25°C	pH	ALM 20	8.21	8.30
A AQL Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	42.1	43.7
A AQL Total Dissolved solids @ 180°C	mg/l	ALM 24	314	320
A AQL Total Alkalinity	mg CaCO ₃ /l	ALM 01	170	182
A AQL Chloride (Cl)	mg/l	ALM 02	21.1	22.0
A AQL Sulphate (SO ₄)	mg/l	ALM 03	32.3	33.3
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.315	0.338
A AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.315	0.338
A AQL Ammonium (NH ₄) as N	mg/l	ALM 05	0.029	0.022
A AQL Fluoride (F)	mg/l	ALM 08	<0.263	<0.263
A AQL Acid Soluble Calcium (Ca)	mg/l	ALMA 30	37.3	39.0
A AQL Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	17.8	18.4
A AQL Acid Soluble Sodium (Na)	mg/l	ALMA 30	27.3	28.7
A AQL Acid Soluble Potassium (K)	mg/l	ALMA 30	7.94	7.85
A AQL Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.092	0.354
A AQL Turbidity	NTU	ALM 21	1.17	3.60
A AQL True Colour	mg/l Pt-Co	ALM 22	<5.00	<5.00
A AQL Langelier Saturation Index	LSI	ALM 26	-0.04	0.10

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