aquatico Laboratories (Pty). Ltd.

ilac-MRA sanas Testing Laboratory T0685

Test Report

Client:	Moqhaka Local Municipality	**Date of report:**	25 August 2025
Address:	Moqhaka Municipality, Hill Street, Kroonstad	**Date accepted:**	19 August 2025
Report no:	232123	**Date completed:**	25 August 2025
Project:	Moqhaka Municipality	**Date received:**	19 August 2025

Lab no:					303253	303252
Date sampled:					18-Aug-25	18-Aug-25
Aquatico sampled:					Yes	Yes
Sample type:					Water	Water
Locality description:					Kroonstad WTW Final	Kroonstad WTW Raw
		Analyses	Unit	Method		
A	AQL	pH @ 25°C	pH	ALM 20	8.19	8.15
A	AQL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	33.0	31.9
A	AQL	Total Dissolved solids @ 180°C	mg/l	ALM 24	228	268
A	AQL	Total Alkalinity	mg $CaCO_3$/l	ALM 01	123	130
A	AQL	Chloride (Cl)	mg/l	ALM 02	23.1	16.8
A	AQL	Sulphate (SO_4)	mg/l	ALM 03	22.3	25.0
A	AQL	Nitrate (NO_3) as N	mg/l	ALM 06	0.443	0.402
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	0.443	0.402
A	AQL	Ammonium (NH_4) as N	mg/l	ALM 05	0.039	0.148
A	AQL	Fluoride (F)	mg/l	ALM 08	<0.263	0.346
A	AQL	Acid Soluble Calcium (Ca)	mg/l	ALMA 30	24.6	24.8
A	AQL	Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	12.7	12.8
A	AQL	Acid Soluble Sodium (Na)	mg/l	ALMA 30	28.9	28.6
A	AQL	Acid Soluble Potassium (K)	mg/l	ALMA 30	6.35	6.46
A	AQL	Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.024	0.237
A	AQL	Turbidity	NTU	ALM 21	1.42	90.8
A	AQL	True Colour	mg/l Pt-Co	ALM 22	8.00	37.0
A	AQL	Langelier Saturation Index	LSI	ALM 26	-0.30	-0.32

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

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ilac-MRA sanas testing laboratory T0685

Test Report

Client:	Moqhaka Local Municipality	**Date of report:**	26 August 2025
Address:	Moqhaka Municipality, Hill Street, Kroonstad	**Date accepted:**	19 August 2025
Report no:	232120	**Date completed:**	26 August 2025
Project:	Moqhaka Municipality	**Date received:**	19 August 2025

Lab no:					303237	303236	303235	303234
Date sampled:					19-Aug-25	18-Aug-25	19-Aug-25	18-Aug-25
Aquatico sampled:					Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water
Locality description:					Kroonstad Tshepong Clinic	Kroonstad Correctional Gate	Kroonstad Brent Park Clinic	Kroonstad Boitumelo Hosp
		Analyses	**Unit**	**Method**				
A	AQL	pH @ 25°C	pH	ALM 20	8.18	8.35	8.09	8.24
A	AQL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	32.7	43.2	32.8	33.2
A	AQL	Total Dissolved solids @ 180°C	mg/l	ALM 24	230	304	242	248
A	AQL	Total Alkalinity	mg $CaCO_3$/l	ALM 01	131	181	132	132
A	AQL	Chloride (Cl)	mg/l	ALM 02	21.6	25.9	22.4	22.5
A	AQL	Sulphate (SO_4)	mg/l	ALM 03	26.0	36.5	25.3	25.1
A	AQL	Nitrate (NO_3) as N	mg/l	ALM 06	0.501	0.766	0.473	0.469
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	0.501	0.766	0.473	0.469
A	AQL	Ammonium (NH_4) as N	mg/l	ALM 05	0.031	0.029	0.028	0.030
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	24.2	31.8	28.4	24.1
A	AQL	Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	12.4	15.1	11.5	12.6
A	AQL	Acid Soluble Sodium (Na)	mg/l	ALMA 30	28.2	40.2	25.9	29.2
A	AQL	Acid Soluble Potassium (K)	mg/l	ALMA 30	6.27	7.41	5.71	6.30
A	AQL	Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.069	0.033	0.355	0.027
A	AQL	Turbidity	NTU	ALM 21	3.64	1.68	8.71	1.33
A	AQL	True Colour	mg/l Pt-Co	ALM 22	10.0	<5.00	6.00	<5.00
A	AQL	Langelier Saturation Index	LSI	ALM 26	-0.31	0.12	-0.31	-0.23

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ilac-MRA sanas T0685

Test Report

Client: Moqhaka Local Municipality
Address: Moqhaka Municipality, Hill Street, Kroonstad
Report no: 232120
Project: Moqhaka Municipality

Date of report: 26 August 2025
Date accepted: 19 August 2025
Date completed: 26 August 2025
Date received: 19 August 2025

Lab no:					303244	303243	303242	303241	303240	303239	303238
Date sampled:					18-Aug-25	19-Aug-25	19-Aug-25	18-Aug-25	18-Aug-25	18-Aug-25	18-Aug-25
Aquatico sampled:					Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water	Water	Water	Water
Locality description:					Kroonstad Moqhaka clinic	Kroonstad Bhopelong Clinic	Kroonstad Selsoville Clinic	Kroonheuwel Plat Reservoir	Kroonstad Moakeng Reservoir	Kroonstad Panorama Centre	Kroonstad Suidrand Reservoir
		Analyses	**Unit**	**Method**							
A	AQL	pH @ 25°C	pH	ALM 20	8.08	8.05	8.26	8.29	8.18	8.17	8.27
A	AQL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	35.9	33.2	32.7	33.2	34.0	34.4	33.9
A	AQL	Total Dissolved solids @ 180°C	mg/l	ALM 24	238	258	232	250	218	248	198
A	AQL	Total Alkalinity	mg $CaCO_3$/l	ALM 01	141	125	121	124	131	134	135
A	AQL	Chloride (Cl)	mg/l	ALM 02	23.7	22.4	22.4	22.8	22.2	22.9	21.5
A	AQL	Sulphate (SO_4)	mg/l	ALM 03	26.7	25.6	25.6	25.1	26.1	26.4	26.4
A	AQL	Nitrate (NO_3) as N	mg/l	ALM 06	0.455	0.441	0.570	0.449	0.471	0.422	0.505
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	0.455	0.441	0.570	0.449	0.471	0.422	0.505
A	AQL	Ammonium (NH_4) as N	mg/l	ALM 05	0.027	0.032	0.037	0.041	0.042	0.025	0.029
A	AQL	Fluoride (F)	mg/l	ALM 08	<0.263	<0.263	<0.263	0.530	0.491	0.335	<0.263
A	AQL	Acid Soluble Calcium (Ca)	mg/l	ALMA 30	28.6	24.8	23.4	23.3	25.7	24.8	24.8
A	AQL	Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	14.6	12.8	11.8	12.1	12.8	12.5	12.5
A	AQL	Acid Soluble Sodium (Na)	mg/l	ALMA 30	29.2	28.6	26.9	27.1	28.5	27.6	27.5
A	AQL	Acid Soluble Potassium (K)	mg/l	ALMA 30	6.37	6.42	5.98	6.02	6.35	6.00	6.03
A	AQL	Acid Soluble Aluminium (Al)	mg/l	ALMA 31	1.96	0.015	0.052	0.028	0.005	0.051	0.032
A	AQL	Turbidity	NTU	ALM 21	75.3	1.37	2.88	1.60	1.02	1.82	1.39
A	AQL	True Colour	mg/l Pt-Co	ALM 22	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	9.00
A	AQL	Langelier Saturation Index	LSI	ALM 26	-0.31	-0.43	-0.26	-0.22	-0.27	-0.30	-0.20

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