aquatico Laboratories (Pty) Ltd

ilac-MRA sanas

Test Report

Client:	Moghaka Local Municipality	Date of report:	23 July 2025
Address:	Moghaka Municipality, Hill Street, Kroonstad	Date accepted:	18 July 2025
Report no:	278401	Date completed:	22 July 2025
Project:	Moghaka Municipality	Date received:	18 July 2025

Lab no:				278401
Date sampled:				16-Jul-25
Aquatico sampled:				Yes
Sample type:				Water
Locality description:				Steynsrus WTW Final
	Analyses		Unit	Method
A	AQL	pH @ 25°C	pH	ALM 20	8.00
A	AQL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	25.7
A	AQL	Total Dissolved solids @ 180°C	mg/l	ALM 24	182
A	AQL	Total Alkalinity	mg $CaCO_3$/l	ALM 01	NATD
A	AQL	Chloride (Cl)	mg/l	ALM 02	16.0
A	AQL	Sulphate (SO_4)	mg/l	ALM 03	10.7
A	AQL	Nitrate (NO_3) as N	mg/l	ALM 06	0.290
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	0.290
A	AQL	Ammonium (NH_4) as N	mg/l	ALM 05	<0.008
A	AQL	Fluoride (F)	mg/l	ALM 08	<0.263
A	AQL	Acid Soluble Calcium (Ca)	mg/l	ALMA 30	20.9
A	AQL	Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	10.7
A	AQL	Acid Soluble Sodium (Na)	mg/l	ALMA 30	13.3
A	AQL	Acid Soluble Potassium (K)	mg/l	ALMA 30	4.79
A	AQL	Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.057
A	AQL	Turbidity	NTU	ALM 21	0.496
A	AQL	True Colour	mg/l Pt-Co	ALM 22	7.00
A	AQL	Langelier Saturation Index	LSI	ALM 26	NATD

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M. Swanepoel
Technical Signatory

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ilac-MRA sanas testing Laboratory T0685

Test Report

Client:	Moqhaka Local Municipality	**Date of report:**	22 July 2025
Address:	Moqhaka Municipality, Hill Street, Kroonstad	**Date accepted:**	16 July 2025
Report no:	228396	**Date completed:**	22 July 2025
Project:	Moqhaka Municipality	**Date received:**	16 July 2025

		Analyses	Unit	Method	
Lab no:					284662
Date sampled:					14-Jul-25
Aquatico sampled:					Yes
Sample type:					Water
Locality description:					Steynsrus WTW Raw
A	AQL	pH @ 25°C	pH	ALM 20	8.00
A	AQL	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	22.6
A	AQL	Total Dissolved solids @ 180°C	mg/l	ALM 24	136
A	AQL	Total Alkalinity	mg $CaCO_3$/l	ALM 01	103
A	AQL	Chloride (Cl)	mg/l	ALM 02	3.48
A	AQL	Sulphate (SO_4)	mg/l	ALM 03	11.2
A	AQL	Nitrate (NO_3) as N	mg/l	ALM 06	0.257
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	0.257
A	AQL	Ammonium (NH_4) as N	mg/l	ALM 05	0.107
A	AQL	Fluoride (F)	mg/l	ALM 08	<0.263
A	AQL	Acid Soluble Calcium (Ca)	mg/l	ALMA 30	19.0
A	AQL	Acid Soluble Magnesium (Mg)	mg/l	ALMA 30	8.48
A	AQL	Acid Soluble Sodium (Na)	mg/l	ALMA 30	9.43
A	AQL	Acid Soluble Potassium (K)	mg/l	ALMA 30	3.42
A	AQL	Acid Soluble Aluminium (Al)	mg/l	ALMA 31	0.624
A	AQL	Turbidity	NTU	ALM 21	79.6
A	AQL	True Colour	mg/l Pt-Co	ALM 22	36.0
A	AQL	Langelier Saturation Index	LSI	ALM 26	-0.70

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ilac-MRA sanas Testing Laboratory T0685

Test Report

Client:	Moqhaka Local Municipality	**Date of report:**	22 July 2025
Address:	Moqhaka Municipality, Hill Street, Kroonstad	**Date accepted:**	16 July 2025
Report no:	228404	**Date completed:**	22 July 2025
Project:	Moqhaka Municipality	**Date received:**	16 July 2025

Lab no:					284700	284701	284702	284703
Date sampled:					14-Jul-25	14-Jul-25	14-Jul-25	14-Jul-25
Aquatico sampled:					Yes	Yes	Yes	Yes
Sample type:					Water	Water	Water	Water
Locality description:					Steynsrus Fouche Reservoir	Steynsrus Municipal Offices	Steynsrus Matlwangtl wang Res	Steynsrus Mantlwang Communal Tap
		Analyses		**Unit**	**Method**			
A	AQL	pH @ 25°C		pH	ALM 20	8.22	8.05	8.05	8.02
A	AQL	Electrical conductivity (EC) @ 25°C		mS/m	ALM 20	23.8	23.8	24.2	24.1
A	AQL	Total Dissolved solids @ 180°C		mg/l	ALM 24	166	166	172	168
A	AQL	Total Alkalinity		mg $CaCO_3$/l	ALM 01	91.6	91.7	94.8	84.6
A	AQL	Chloride (Cl)		mg/l	ALM 02	12.7	12.5	12.8	12.6
A	AQL	Sulphate (SO_4)		mg/l	ALM 03	9.79	9.99	10.7	10.9
A	AQL	Nitrate (NO_3) as N		mg/l	ALM 06	0.329	0.337	0.337	0.341
A	AQL	Total oxidised nitrogen as N		mg/l	ALM 06	0.329	0.337	0.337	0.341
A	AQL	Ammonium (NH_4) as N		mg/l	ALM 05	0.024	0.027	0.023	0.025
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	19.1	19.0	18.0	16.6
A	AQL	Acid Soluble Magnesium (Mg)		mg/l	ALMA 30	8.87	10.8	10.2	9.60
A	AQL	Acid Soluble Sodium (Na)		mg/l	ALMA 30	10.3	13.7	11.9	11.2
A	AQL	Acid Soluble Potassium (K)		mg/l	ALMA 30	4.85	6.56	5.58	5.25
A	AQL	Acid Soluble Aluminium (Al)		mg/l	ALMA 31	0.125	0.081	0.091	0.091
A	AQL	Turbidity		NTU	ALM 21	1.88	0.917	0.761	1.18
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	-0.54	-0.72	-0.73	-0.84

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