



GERT SIBANDE DISTRICT MUNICIPALITY

WATER QUALITY LABORATORY

Enquiries : Victoria Tshabalala
E-mail : Laboratoryservices@gsibande.gov.za
Int. Ref : LDP0009/2025
Ext. Ref : 2025/09/09 (234696 & 234692)

30 September 2025

Attention: Mr. Shabangu
Dipaleseng Local Municipality
Private Bag X1005
Balfour

EXTERNAL REPORT COMMENT EX AQUATICO LAB :

LDP0009/2025.

The following determinands tested on potable water samples for the above mentioned report did not meet the requirements of the south African Drinking Water Standard, SANS241-1 :2015

345293 & 345216 : Siyathemba Thusong Centre : Turbidity & HPC

345283 : Siyathemba Reservoir : Turbidity

345282 & 345205 : Siyathemba 24 Charl street : Turbidity & HPC

345278 : Balfour Fortuna WTW Final : Turbidity

345214 : Grootvlei Reservoir : HPC

345213 : Grootvlei Clinic : HPC

345212 : Grootvlei Municipal Office : HPC & *E.coli*

345211 : Nthorwana Reservoir : Total Coliform & *E.coli*

345210 : Nthorwana Stand 731 : *E.coli*

345209 : Nthorwana Municipal Office : HPC & *E.coli*

345208 : Greylingstad Reservoir :HPC



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EXTERNAL REPORT COMMENT EX AQUATICO LAB :

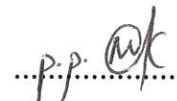
LDP0009/2025.

The following determinands tested on potable water samples for the above mentioned report did not meet the requirements of the south African Drinking Water Standard, SANS241-1 :2015

345207 : Greylingstad Total Garage	: HPC
345204 : Siyethemba Stand 6311	: HPC
345203 : Balfour Excel Garage	: HPC
34200 : Balfour Stand 116 New House	: HPC
345199 : Balfour Disaster Management	: HPC


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Manager: Chemistry


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Manager: Microbiology

Yours Sincerely

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VM. Tshabalala

HEAD OF SCIENTIFIC SERVICES

PO Box 1748, Ermelo, 2350 : TEL: 017 801 7144/49 /50/97 : FAX : 017 811 3821



Test Report

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Client: Gert Sibande District Municipality
Address: Gert Sibande DM, C/O Joubert and Oosthuisen street, Ermelo
Report no: 234696
Project: Dipaleseng Local Municipality

Date of report: 19 September 2025
Date accepted: 11 September 2025
Date completed: 19 September 2025
Date received: 11 September 2025

Lab no:				345293	345292	345291	345290	345289	345288	345287	
Date sampled:				09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	
Aquatico sampled:				No	No	No	No	No	No	No	
Sample type:				Water	Water	Water	Water	Water	Water	Water	
Locality description:				Siyathemba Thusong Centre	Grootvlei Mine WWTW Final	Grootvlei Reservoir	Grootvlei Clinic	Grootvlei Municipal Office	Nthorwana Reservoirs	Nthorwana Stand 731	
Analyses				Unit	Method						
A	AQL	Sulphate (SO ₄)	mg/l	ALM 03	15.4	NR	21.0	21.7	20.5	16.0	15.4
A	AQL	Nitrate (NO ₃) as N	mg/l	ALM 06	0.519	<0.194	<0.194	0.231	<0.194	0.409	0.425
A	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	0.519	<0.194	<0.194	0.231	<0.194	0.409	0.425
A	AQL	Calcium (Ca)	mg/l	ALM 30	11.4	NR	15.5	16.3	15.2	11.3	12.2
A	AQL	Magnesium (Mg)	mg/l	ALM 30	8.99	NR	8.99	9.47	8.78	8.70	9.37
A	AQL	Sodium (Na)	mg/l	ALM 30	14.5	NR	13.2	13.4	14.2	12.4	13.6
A	AQL	Potassium (K)	mg/l	ALM 30	4.80	NR	4.75	5.04	4.71	4.57	5.10
A	AQL	Iron (Fe)	mg/l	ALM 31	<0.004	NR	<0.004	<0.004	<0.004	<0.004	<0.004
A	AQL	Manganese (Mn)	mg/l	ALM 31	0.032	NR	<0.001	<0.001	0.004	0.016	0.012
A	AQL	Turbidity	NTU	ALM 21	16.8	NR	0.533	0.318	4.04	1.08	0.792
N	AQL	Dissolved oxygen (DO)	mg/l	ALM 28	8.05	NR	9.21	8.62	8.82	9.25	9.19

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 received 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

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Client: Gert Sibande District Municipality
Address: Gert Sibande DM, C/O Joubert and Oosthuisen street, Ermelo
Report no: 234696
Project: Dipaleseng Local Municipality

Date of report: 19 September 2025
Date accepted: 11 September 2025
Date completed: 19 September 2025
Date received: 11 September 2025

Lab no:	345286	345285	345284	345283	345282	345281	345280
Date sampled:	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25
Aquatico sampled:	No	No	No	No	No	No	No
Sample type:	Water	Water	Water	Water	Water	Water	Water

Locality description:			Nthorwana Municipal Office	Greylingstad Reservoirs	Greylingstad Total Garage	Siyathemba Reservoir	Siyathemba 24 Charls Street	Siyathemba Stand 6311	Balfour - Excel Garage
Analyses	Unit	Method							
A AQL Sulphate (SO ₄)	mg/l	ALM 03	10.0	14.1	15.5	15.9	15.2	15.2	14.7
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.399	0.572	0.515	0.802	0.438	0.392	3.14
A AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.399	0.572	0.515	0.802	0.438	0.392	3.14
A AQL Calcium (Ca)	mg/l	ALM 30	11.7	11.4	12.0	11.7	11.5	11.6	11.5
A AQL Magnesium (Mg)	mg/l	ALM 30	9.03	8.68	9.33	9.27	8.97	9.19	8.96
A AQL Sodium (Na)	mg/l	ALM 30	13.1	12.5	11.9	18.6	17.1	14.1	16.4
A AQL Potassium (K)	mg/l	ALM 30	4.85	4.56	4.48	4.96	4.78	4.98	4.83
A AQL Iron (Fe)	mg/l	ALM 31	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
A AQL Manganese (Mn)	mg/l	ALM 31	<0.001	<0.001	<0.001	0.005	0.022	0.012	0.015
A AQL Turbidity	NTU	ALM 21	2.09	2.08	0.369	6.58	5.94	0.605	0.332
N AQL Dissolved oxygen (DO)	mg/l	ALM 28	8.92	9.28	9.19	8.64	9.17	9.10	9.14

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Client: Gert Sibande District Municipality
Address: Gert Sibande DM, C/O Joubert and Oosthuisen street, Ermelo
Report no: 234696
Project: Dipaleseng Local Municipality

Date of report: 19 September 2025
Date accepted: 11 September 2025
Date completed: 19 September 2025
Date received: 11 September 2025

Lab no:			345279	345278	345277	345276
Date sampled:			09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25
Aquatico sampled:			No	No	No	No
Sample type:			Water	Water	Water	Water
Locality description:			Balfour - Fortuna WTW Raw	Balfour - Fortuna WTW Final	Balfour - Stand 116 New House	Balfour - Disaster Managemen t
Analyses	Unit	Method				
A AQL Sulphate (SO ₄)	mg/l	ALM 03	15.8	13.4	18.0	16.7
A AQL Nitrate (NO ₃) as N	mg/l	ALM 06	0.460	0.421	0.428	0.580
A AQL Total oxidised nitrogen as N	mg/l	ALM 06	0.460	0.421	0.428	0.580
A AQL Calcium (Ca)	mg/l	ALM 30	11.1	11.3	11.7	11.8
A AQL Magnesium (Mg)	mg/l	ALM 30	8.87	8.95	9.16	9.24
A AQL Sodium (Na)	mg/l	ALM 30	10.5	19.6	17.9	13.6
A AQL Potassium (K)	mg/l	ALM 30	4.73	4.69	4.93	4.73
A AQL Iron (Fe)	mg/l	ALM 31	0.005	<0.004	<0.004	<0.004
A AQL Manganese (Mn)	mg/l	ALM 31	<0.001	<0.001	0.016	<0.001
A AQL Turbidity	NTU	ALM 21	NR	8.81	3.56	0.243
N AQL Dissolved oxygen (DO)	mg/l	ALM 28	8.75	9.27	9.21	9.24

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Client: Gert Sibande District Municipality
Address: Gert Sibande DM, C/O Joubert and Oosthuisen street, Ermelo
Report no: 234692
Project: Dipaleseng Local Municipality

Date of report: 17 September 2025
Date accepted: 11 September 2025
Date completed: 17 September 2025
Date received: 11 September 2025

Lab no:			345216	345215	345214	345213	345212	345211	345210		
Date sampled:			09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25		
Aquatico sampled:			No	No	No	No	No	No	No		
Sample type:			Water	Water	Water	Water	Water	Water	Water		
Locality description:			Siyathemba Thusong Centre	Grootvlei Mine WWTW Final	Grootvlei Reservoir	Grootvlei Clinic	Grootvlei Municipal Office	Nthorwana Reservoirs	Nthorwana Stand 731		
Analyses			Unit	Method							
A	AQL	E.coli	CFU/100ml	ALM 40	<1	>100 000	<1	<1	6	6	4
A	AQL	Total coliform	CFU/100ml	ALM 40	<1	>100 000	1	<1	9	15	10
A	AQL	Heterotrophic plate count	CFU/ml	ALM 45	5917	NR	3452	6202	18500	200	620

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Date of report: 17 September 2025
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Lab no:	345209	345208	345207	345206	345205	345204	345203
Date sampled:	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25
Aquatico sampled:	No	No	No	No	No	No	No
Sample type:	Water	Water	Water	Water	Water	Water	Water
Locality description:	Nthorwana Municipal Office	Greylingstad Reservoirs	Greylingstad Total Garage	Siyathemba Reservoir	Siyathemba 24 Charls Street	Siyathemba Stand 6311	Balfour - Excel Garage
Analyses	Unit	Method					
A AQL E.coli	CFU/100ml	ALM 40	5	<1	<1	<1	<1
A AQL Total coliform	CFU/100ml	ALM 40	6	1	<1	4	<1
A AQL Heterotrophic plate count	CFU/ml	ALM 45	14340	3945	1778	11	13950

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Date of report: 17 September 2025
Date accepted: 11 September 2025
Date completed: 17 September 2025
Date received: 11 September 2025

Lab no:	345202	345201	345200	345199
Date sampled:	09-Sep-25	09-Sep-25	09-Sep-25	09-Sep-25
Aquatico sampled:	No	No	No	No
Sample type:	Water	Water	Water	Water

Locality description:	Balfour - Fortuna WTW Raw	Balfour - Fortuna WTW Final	Balfour - Stand 116 New House	Balfour - Disaster Management
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Analyses			Unit	Method				
A	AQL	E.coli	CFU/100ml	ALM 40	4	<1	<1	<1
A	AQL	Total coliform	CFU/100ml	ALM 40	5	<1	<1	<1
A	AQL	Heterotrophic plate count	CFU/ml	ALM 45	>50000	5	4241	2038

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