

### GERT SIBANDE DISTRICT MUNICIPALITY

#### WATER QUALITY LABORATORY

Enquiries: Victoria Tshabalala

: Laboratoryservices@gsibande.gov.za : LDP0008/2025 : 2025/08/12 (231525& 231580)

E-mail Int. Ref Ext. Ref

28 August 2025

Attention: Mr. Shabangu Dipaleseng Local Municipality

Private Bag X1005

Balfour

## EXTERNAL REPORT COMMENT EX AQUATICO LAB: LDP0008/2025.

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

300086: Siyethemba Thusong Centre : HPC

300081: Nthorwana Reservoirs : HPC

300080: Nthorwana Stand 731 : HPC

300079: Nthorwana Municipal Office : HPC

300078: Greylingstad Total Garage : HPC

300077: Siyethemba Reservoir :HPC

300076: Siyethemba 24 Charls Street : HPC

300075: Siyathemba Stand 6311 : HPC





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The following determinands tested on potable water samples for the above mentioned report didnot meet the requirements of the south African Drinking Water Standard, SANS241-1:2015

300074: Balfour Excel Garage

: HPC

300071: Balfour Stand 116 New House

: HPC & Total Coliform

300070 : Balfour Disaster Management

: HPC

300338 : Siyethemba Stand 6311

: Turbidity

300337 : Balfour Excel Garage

: Turbidity



Manager: Chemistry

Manager: Microbiology

Yours Sincerely

VM. Tshabalala

HEAD OF SCIENTIFIC SERVICES



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







Test Report						Page	1 of 3	
Client: Gert Sibande District Municipality  Address: Gert Sibande DM, C/O Joubert and Oosthuisen street, Ermelo  Report no: 231525  Project: Dipaleseng Local Municipality					f report: ccepted: ompleted: eceived:	19 August 2025 14 August 2025 19 August 2025 14 August 2025		
ab no:	300086	300085	300084	300083	300082	300081	300080	
Date sampled:	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	
Aquatico sampled:	No	No	No	No	No	No	No	
Sample type:	Water	Water	Water	Water	Water	Water	Water	
ocality description:  Analyses Unit Meth	Siyathemba Thusong Centre	Grootvlei Mine WWTW Final	Grootvlei Reservoir	Grootvlei Clinic	Grootvlei Municipal Office	Nthorwana Reservoirs	Nthorwana Stand 731	
A AQL E.coli CFU/100ml ALM		>100000	<1	<1	<1	<1	<1	
A AQL Total coliform CFU/100ml ALM	40 3	>100000	<1	<1	<1	<1	2	
A AQL Heterotrophic plate count CFU/ml ALM	1972	NR	19	155	240	2944	5030	

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 Repo	ort								Page	2 of 3
Client:	Gert Sibande District Mun	icipality					Date of	report:	19 August 2025	
Address:	Gert Sibande DM, C/O Jou	bert and Od	osthuisen	street, Ern	nelo		Date a	ccepted:	14 August 2025	
Report no:	231525						Date co	mpleted:	19 August 2025	
Project:	ject: Dipaleseng Local Municipality					Date received:			14 August 2025	
Lab no:				300079	300078	300077	300076	300075	300074	300073
Date sampled:				12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25
Aquatico sample	ed:			No	No	No	No	No	No	No
Sample type:				Water	Water	Water	Water	Water	Water	Water
Locality descript	Locality description:			Nthorwana Municipal Office	Greylingstad Total Garage	Siyathemba Reservoir	Siyathemba 24 Charls Street	Siyathemba Stand 6311	Balfour - Excel Garage	Balfour - Fortuna WTW Raw
	Analyses	Unit	Method							
A AQL E.coli		CFU/100ml	ALM 40	<1	<1	<1	<1	<1	<1	10
A AQL Total	coliform	CFU/100ml	ALM 40	<1	<1	<1	<1	<1	<1	130
A AQL Heter	rotrophic plate count	CFU/ml	ALM 45	4832	4536	4389	33000	5128	>50000	>50000

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Test Report							Page 3 of 3
Client: Gert Sibande District Mo Address: Gert Sibande DM, C/O J Report no: 231525	oubert and Oc	osthuisen	street, Ern	nelo		Date of report: Date accepted: Date completed: Date received:	19 August 2025 14 August 2025 19 August 2025 14 August 2025
Project: Dipaleseng Local Munic  Lab no:  Date sampled:	panty		300072 12-Aug-25	300071 12-Aug-25	300070 12-Aug-25	Date received.	14 August 2029
Aquatico sampled: Sample type:			No Water	No Water	No Water		
Locality description:  Analyses	Unit	Method	Balfour - Fortuna WTW Final	Balfour - Stand 116 New House	Balfour - Disaster Managemen t		
A AQL E.coli	CFU/100ml	ALM 40	<1	<1	<1		
A AQL Total coliform  A AQL Heterotrophic plate count	CFU/100ml	ALM 40 ALM 45	<1 5	17 /	<1 25000		

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	est I	Report								Page	1 of 3
Client: Gert Sibande District Municipality  Address: Gert Sibande DM, C/O Joubert and Oosthuisen  Report no: 231580  Project: Dipaleseng Local Municipality					street, Ermelo			Date a	f report: ccepted: ompleted: eceived:	20 August 2025 15 August 2025 19 August 2025 15 August 2025	
Lab	no:				300349	300348	300347	300346	300345	300344	300343
Da	e samı	oled:			12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25
Αq	uatico :	sampled:			No	No	No	No	No	No	No
Sar	nple ty	pe:			Water	Water	Water	Water	Water	Water	Water
Loc	ality de	escription: Analyses	Unit	Method	Siyathemba Thusong Centre	Grootvlei Mine WWTW Final	Grootvlei Reservoir	Grootvlei Clinic	Grootvlei Municipal Office	Nthorwana Reservoirs	Nthorwana Stand 731
Α	AQL	Sulphate (SO <sub>4</sub> )	mg/l	ALM 03	15.6	NR	11.3	9.33	10.9	12.3	15.1
Α	AQL	Nitrate (NO₃) as N	mg/l	ALM 06	0.224	<0.194	0.335	0.346	0.355	0.454	0.324
Α	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	0.224	<0.194	0.335	0.346	0.355	0.454	0.324
Α	AQL	Calcium (Ca)	mg/l	ALM 30	10.9	NR	15.4	15.6	15.8	10.2	9.84
Α	AQL	Magnesium (Mg)	mg/l	ALM 30	9.06	NR	9.12	9.23	9.25	8.29	8.00
Α	AQL	Sodium (Na)	mg/l	ALM 30	12.9	NR	12.6	12.6	12.7	11.8	11.5
Α	AQL	Potassium (K)	mg/l	ALM 30	4.34	NR	4.74	4.79	4.78	3.92	3.79
Α	AQL	Iron (Fe)	mg/l	ALM 31	<0.004	NR	<0.004	<0.004	<0.004	< 0.004	<0.004
Α	AQL	Manganese (Mn)	mg/l	ALM 31	<0.001	NR	< 0.001	<0.001	<0.001	<0.001	<0.001
Α	AQL	Turbidity	NTU	ALM 21	1.03	NR	0.509	0.615	1.12	0.703	3.05
Ν	AQL	Dissolved oxygen (DO)	mg/l	<b>ALM 28</b>	9.07	NR	8.98	8.89	8.62	9.06	9.02

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M. Swanepoel **Technical Signatory** 







Test Repoi	rt								Page	2 of 3
Client: 6 Address: 6 Report no: 7 Project: 6	ı street, Ern	nelo		Date a	f report: ccepted: ompleted: eceived:	20 August 2025 15 August 2025 19 August 2025 15 August 2025				
Lab no:				300342	300341	300340	300339	300338	300337	300336
Date sampled:				12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25	12-Aug-25
Aquatico sampleo	d:			No	No	No	No	No	No	No
Sample type:				Water	Water	Water	Water	Water	Water	Water
Locality description				Nthorwana Municipal Office	Greylingstad Total Garage	Siyathemba Reservoir	Siyathemba 24 Charls Street	Siyathemba Stand 6311	Balfour - Excel Garage	Balfour - Fortuna WTW Raw
	Analyses	Unit	Method				20	%2 ×	9000 84	24 =
A AQL Sulpha	ate (SO <sub>4</sub> )	mg/l	ALM 03	14.8	13.4	13.9	13.2	15.4	14.9	16.7
A AQL Nitrate	e (NO₃) as N	mg/l	ALM 06	0.301	0.472	0.293	0.251	0.294	0.306	0.286
A AQL Total o	oxidised nitrogen as N	mg/l	ALM 06	0.301	0.472	0.293	0.251	0.294	0.306	0.286
A AQL Calciur	m (Ca)	mg/l	ALM 30	11.1	10.4	10.3	11.4	10.4	11.1	11.0
A AQL Magne	esium (Mg)	mg/l	ALM 30	8.98	8.31	8.58	9.31	8.67	9.09	9.22
A AQL Sodium	n (Na)	mg/l	ALM 30	13.0	11.5	12.3	13.1	12.2	12.6	10.3
A AQL Potass	sium (K)	mg/l	ALM 30	4.33	3.85	4.09	4.50	4.15	4.38	4.49
A AQL Iron (F	e)	mg/l	ALM 31	<0.004	<0.004	<0.004	<0.004	< 0.004	< 0.004	< 0.004
A AQL Manga	anese (Mn)	mg/l	ALM 31	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	< 0.001
A AQL Turbid	lity	NTU	ALM 21	2.77	0.395	0.629	0.743	12.6	8.48	NR
N AQL Dissolv	ved oxygen (DO)	mg/l	ALM 28	9.01	9.00	9.01	8.96	8.90	8.85	7.98

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Test Repo	ort					Page 3 of 3
Client:	Gert Sibande District Municipality				Date of report:	20 August 2025
Address:	Gert Sibande DM, C/O Joubert and Oosthu	Date accepted:	15 August 2025			
Report no:	231580				Date completed:	19 August 2025
Project:	Dipaleseng Local Municipality				Date received:	15 August 2025
Lab no:		300335	300334	300333		
Data samuladi		12 Aug 25	12-Aug-25	12-Δμα-25		

Dat	e sam	pled:		12-Aug-25	12-Aug-25	12-Aug-25	
Αqι	atico	sampled:	No	No	No		
San	ple ty	rpe:	Water	Water	Water		
Loc	ality d	escription:	Balfour - Fortuna WTW Final	Balfour - Stand 116 New House	Balfour - Disaster Managemer t		
		Analyses	Unit	Method			C
Α	AQL	Sulphate (SO₄)	mg/l	ALM 03	14.1	16.4	14.1
Α	AQL	Nitrate (NO₃) as N	mg/l	ALM 06	0.221	0.204	0.354
Α	AQL	Total oxidised nitrogen as N	mg/l	ALM 06	0.221	0.204	0.354
Α	AQL	Calcium (Ca)	mg/l	ALM 30	10.7	11.0	10.8
Α	AQL	Magnesium (Mg)	mg/l	ALM 30	8.89	9.05	8.65
Α	AQL	Sodium (Na)	mg/l	ALM 30	18.4	12.4	12.4
Α	AQL	Potassium (K)	mg/l	ALM 30	4.29	4.33	4.17
Α	AQL	Iron (Fe)	mg/l	ALM 31	<0.004	<0.004	< 0.004
Α	AQL	Manganese (Mn)	mg/l	ALM 31	<0.001	<0.001	< 0.001
Α	AQL	Turbidity	NTU	ALM 21	0.468	0.980	0.199
Ν	AQL	Dissolved oxygen (DO)	mg/l	ALM 28	8.72	8.98	9.01

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