



Generation

Gert Sibande District Municipality
Corner of Joubert & Oosthuise Streets
Ermelo
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AND

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GROOTVLEI POWER STATION

Atmospheric Emission License GPS/0015/2024/F04

BOILER ENGINEERING MANAGER

2026/04/13

DATE

ENGINEERING MANAGER

14/04/2026

DATE

ENVIRONMENTAL MANAGER

2026/04/16

DATE

GROOTVLEI POWER STATION MONTHLY EMISSIONS REPORT

Atmospheric Emission License: GPS/0015/2015/F02


1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Max Permitted Consumption Rate	Consumption Rate Jan-2026
	Coal	Tons	650 000	56 135
	Fuel Oil	Tons	20 000	1197.010
Production Rates	Product / By-Product Name	Units	Max Production Capacity Permitted	Indicative Production Rate Jan-2026
	Energy	GWh	892.800	81.856
	Ash	Tons	300 000	13 741.848
	RE Ash	kg/MWh	not specified	0.017

Note: Max energy rate = AEL capacity [1,200 MW] × 24 hrs × days in month ÷ 1,000 (to convert to GWh).

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	18-24 (MJ/kg)	20.630
Sulphur Content	%	< 1.46 (%)	0.570
Ash Content	%	24.7 to < 38.1 (%)	24.480

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	Daily Limit		
	PM	SO ₂	NO _x
North	100	3500	1100
South	100	3500	1100

4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	FFP Efficiency
North	Fabric Filter Plant (FFP)	99.988%
South	Fabric Filter Plant (FFP)	Off-line

Note: The FFP does not have a bypass mode; therefore, it operates at 100% utilization.

5 DATA RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO	O ₂
North	100.0	0.0	0.0	0.0
South	Off	Off	Off	Off

Note: NO_x emissions are measured as NO in PPM. The final NO_x value is expressed as total NO₂ equivalent.

6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for January 2026

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	1.1	358	137
Unit 2	0.3	254	97
Unit 3	Off	Off	Off
Unit 4	Off	Off	Off
Unit 5	Off	Off	Off
Unit 6	Off	Off	Off
SUM	1.42	613	234

Table 6.2: PM AEL Daily Compliance - January 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	20	0	0	0	0	3.7
South	Off	Off	Off	Off	Off	Off
SUM	20	0	0	0	0	

Table 6.3: SO₂ AEL Daily Compliance - January 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	25	0	0	0	0	1 264.9
South	Off	Off	Off	Off	Off	Off
SUM	25	0	0	0	0	

Table 6.4: NO_x AEL Daily Compliance - January 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	25	0	0	0	0	483.8
South	Off	Off	Off	Off	Off	Off
SUM	25	0	0	0	0	

Table 6.5: Legend Description

Condition	Colour	Description
Normal		Emissions below Emission Limit Value (ELV)
Grace		Emissions above the ELV during grace period
Section 30		Emissions above ELV during a NEMA S30 incident
Contravention		Emissions above ELV but outside grace or S30 incident conditions

Figure 1: Grootvlei North Stack PM Emissions - January 2026

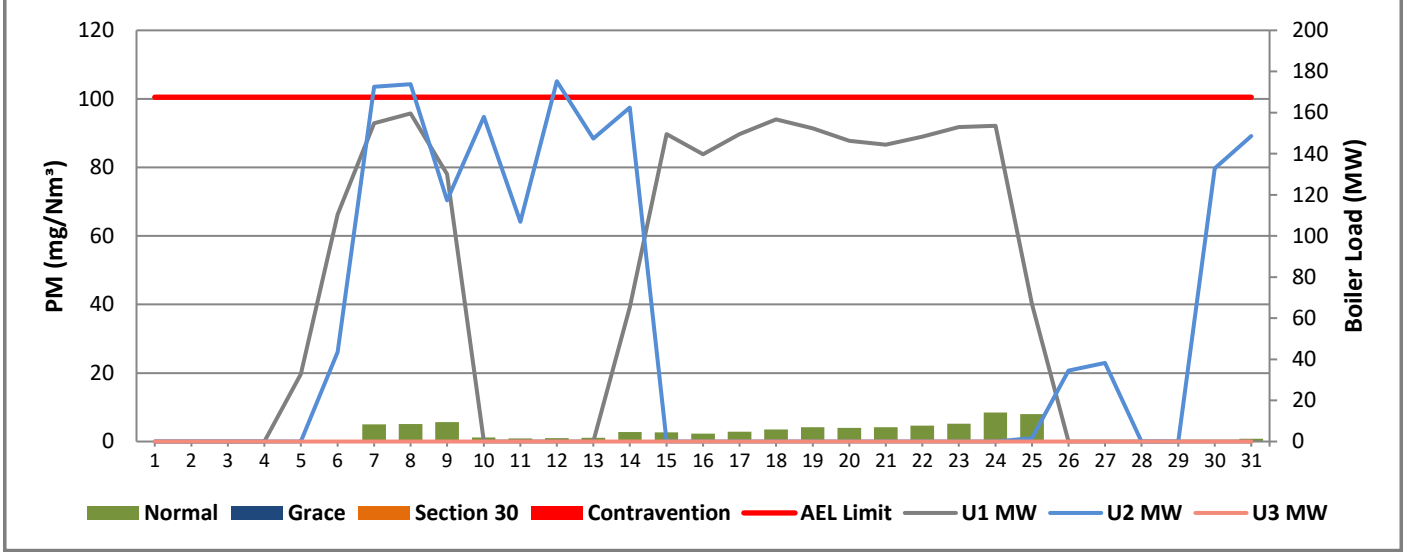


Figure 2: Grootvlei South Stack PM Emissions - January 2026

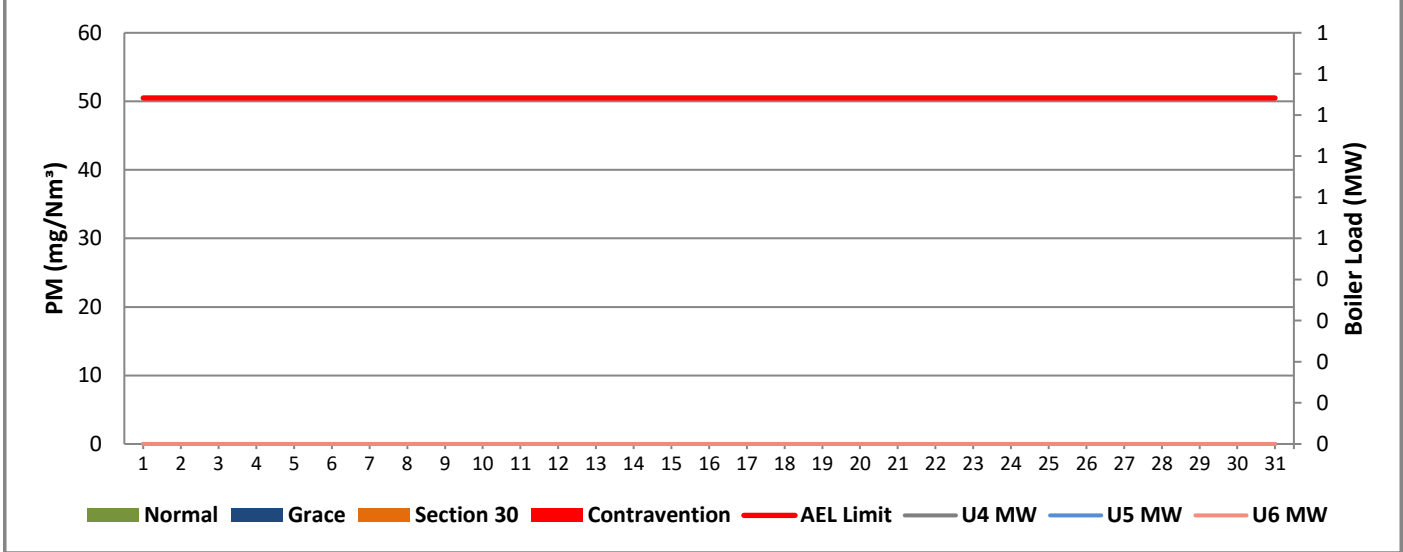


Figure 3: Grootvlei North Stack SO₂ Emissions - January 2026

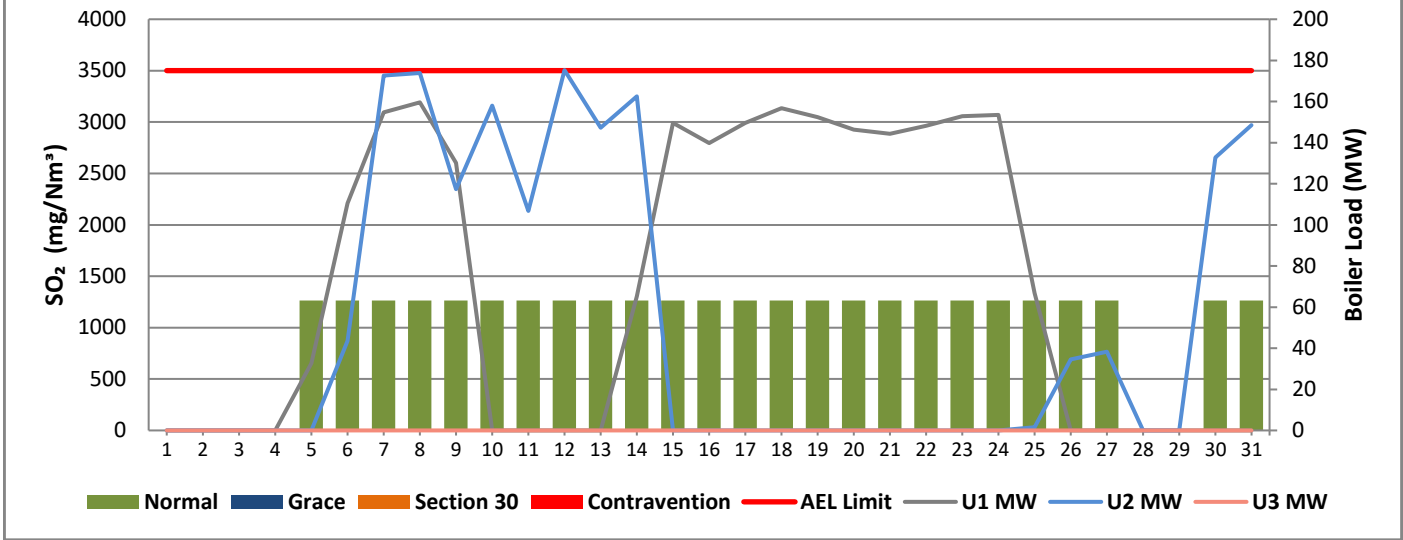


Figure 4: Grootvlei South Stack SO₂ Emissions - January 2026

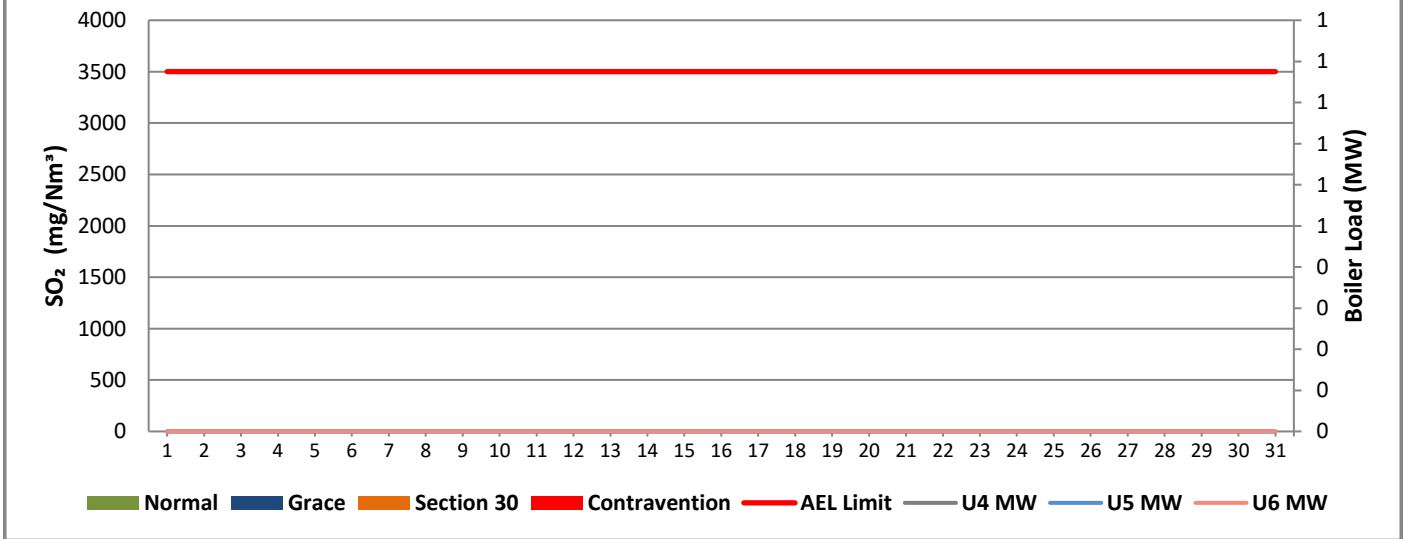


Figure 5: Grootvlei North Stack NO_x Emissions - January 2026

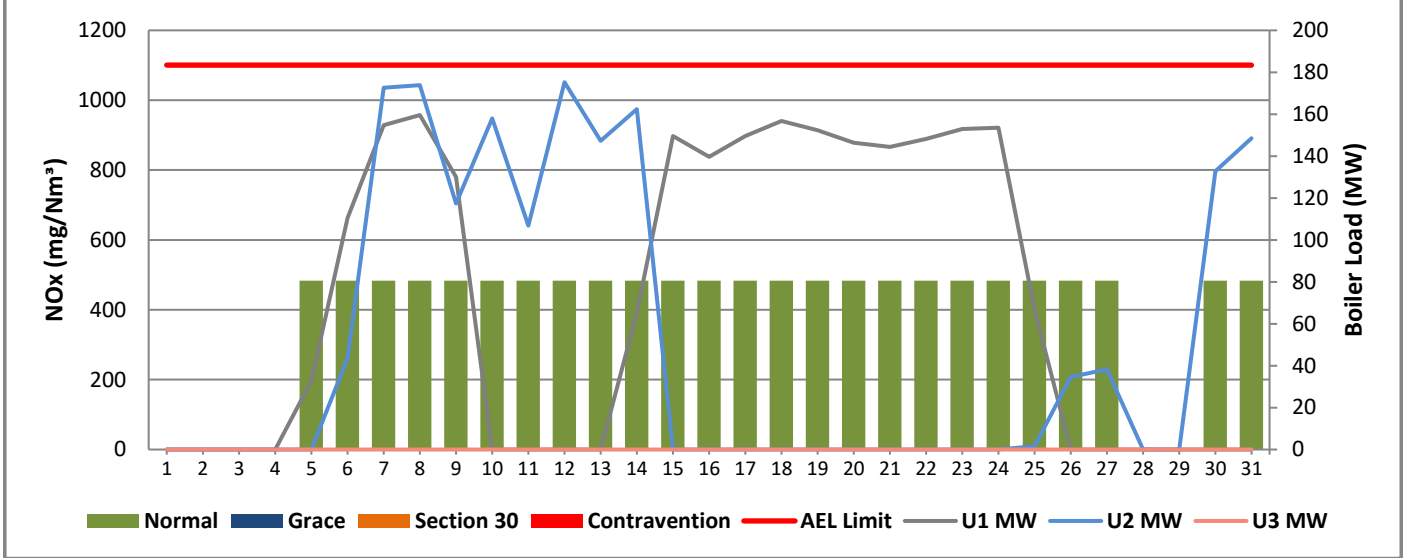
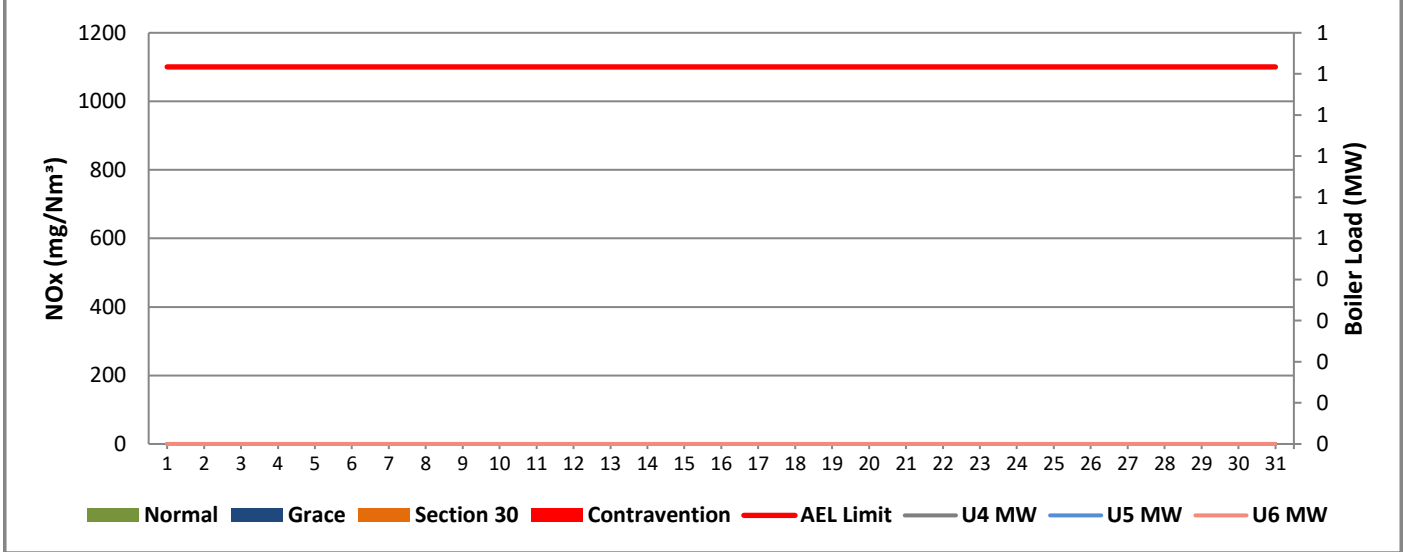


Figure 6: Grootvlei South Stack NO_x Emissions - January 2026



7 COMPLAINTS

There were no complaints for this months

Source Code / Name	Root Cause Analysis	Calculation of Impacts / emissions associated with	Dispersion modeling of pollutants where	Measures implemented to prevent reoccurrence

8 GENERAL

South Stack offline as unit 4,5 &6 are on extended cold reserved.

For gaseous reporting surrogate values were used as gas analyser is not working and access to inaccessible due to issues with lift. Busy Modification contracts in order to fix the North Stack Lift.

Correlation test expired last year March 2025 and we awating to have atleast 2 units on load and access to the analyser.

S. M. M. V. S. H. 14/04/2026
Boiler System Engineer Date

[Signature] 14/04/2026
Environmental Practitioner Date

[Signature] 2026/04/21
General Manager Date

Compiled by: Boiler Engineering Department

FFP System Engineer

For: Gert Sibande District Municipality

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Generation Compliance Management
Generation Asset Management

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Grootvlei Power Station:

Engineering Manager
Operating Manager
Maintenance Manager
Production Manager
Boiler Engineering Manager
System Engineer
Environmental Manager