

Ms Nompumelelo Simelane  
Air Quality Officer  
Nkangala District Municipality  
Middelburg  
1200

Date:  
2026/05/26

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Dear Ms. Nompumelelo Simelane

## **ARNOT POWER STATION'S ANNUAL EMISSIONS REPORT: 2025 / 2026 FINANCIAL YEAR.**

### **1. EXECUTIVE SUMMARY.**

This serves as the annual report required in terms of Section 7.6 in Arnot Power Station's Atmospheric Emission License. The emissions are for Eskom Arnot Power Station's 2025/2026 financial year, which is from 1 April 2025 to 31 March 2026. Verified measured emissions of particulates, SO<sub>2</sub> and NO<sub>x</sub> (as NO<sub>2</sub>) and calculated greenhouse gas emissions are included. Conditions 7.2.1 requires the License Holder to report its operational performance against the conditions of license on a regular basis and at least on an annual basis, to the licensing authority.

This annual report will cover the following: Daily particulate emissions, Gaseous emissions (NO<sub>x</sub> and Sox) in mg/Nm<sup>3</sup> for 2025/2026 financial year.

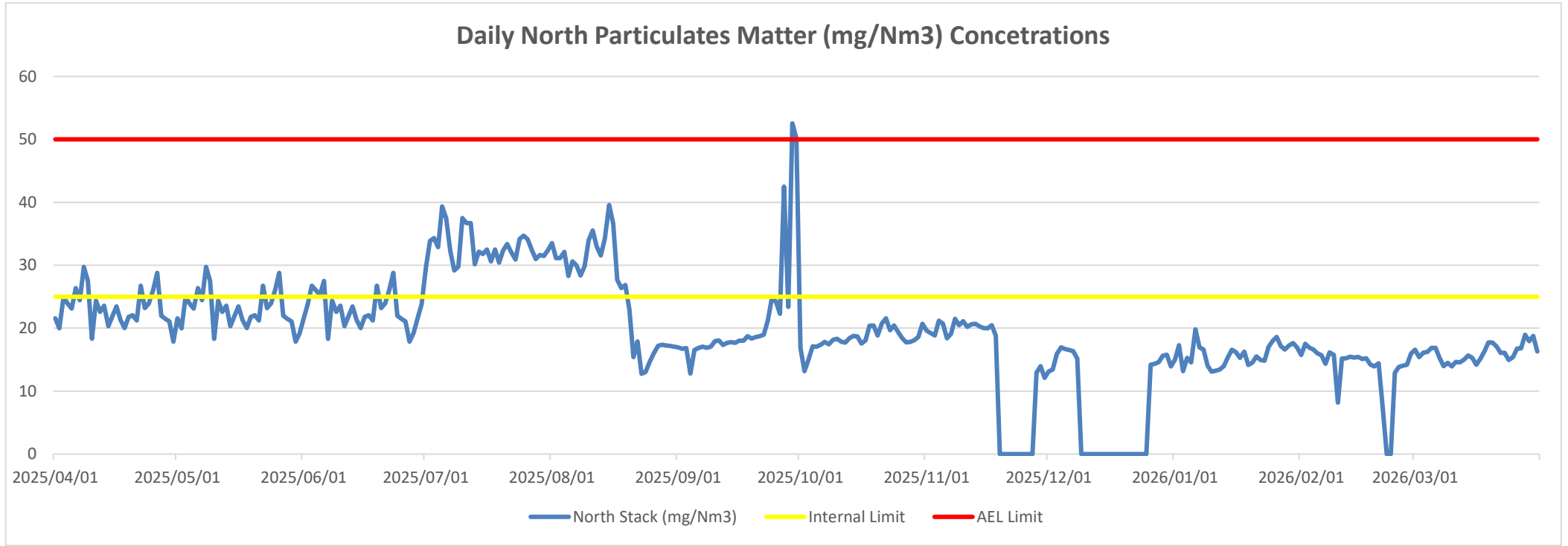
### **AEL FACILITIES DETAILS:**

Name of facility	Eskom Holding SOC Limited: Arnot Power Station
Description of facility	Power Station- Electricity Generation
AEL Reference Number	17/4/AEL/MP312/11/15
Current Responsible Person	Marcus Nematodzi

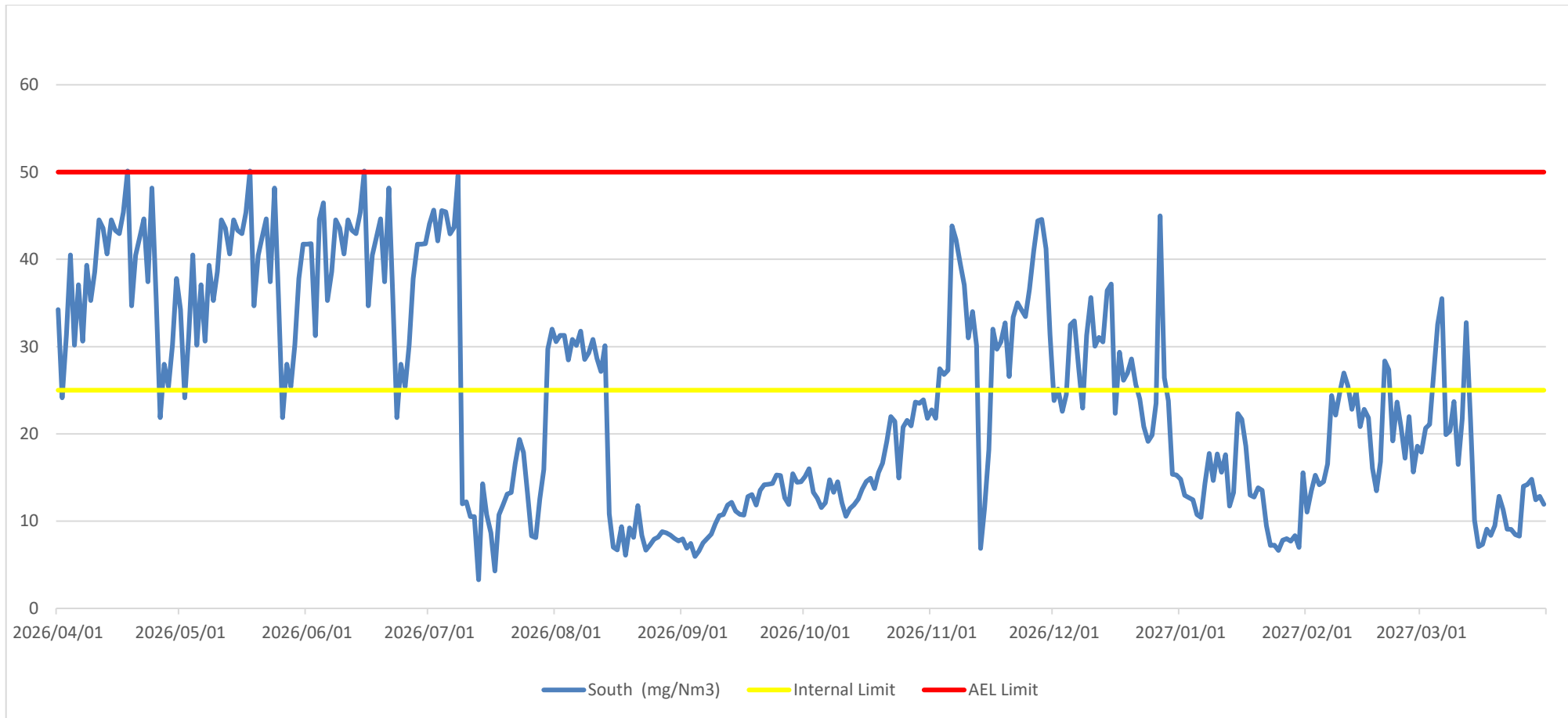
## (a) Pollutants Emissions Trends

Table 1. Pollutants Tonnages 01 April 2025- 30 March 2026

Month	Arnot PM (tons)	Arnot SO <sub>2</sub> (tons)	Arnot NO <sub>2</sub> (tons)	Arnot CO <sub>2</sub> (tons)	GWh (COAL FIRED)	N <sub>2</sub> O tons (Coal Fired)
<b>25-Apr</b>	117.34	3 085	2 842	687500	819	10.04
<b>25-May</b>	108	3 241	2 850	684766	799	10.07
<b>25-Jun</b>	127	4 426	3 628	882352	827	12.88
<b>25-Jul</b>	123.91	2 883	2 838	694529	758	10.14
<b>25-Aug</b>	74.86	3 112	2 917	707728	764	10.25
<b>25-Sep</b>	71.27	3 569	3 168	769502	839	10.95
<b>25-Oct</b>	65.93	3 694	3 289	774995	759	11.14
<b>25-Nov</b>	89.96	3 109	2 656	623290	849	9.11
<b>25-Dec</b>	70.46	2 495	2 047	689770	899	7.10
<b>26-Jan</b>	46.57	3 019	2 461	589770	1044	8.48
<b>26-Feb</b>	35.78	1 935	1 568	379149	935	5.38
<b>26-Mar</b>	0.00	2 650	2 120	509924	1014	7.31
<b>Total</b>	<b>930.79</b>	<b>37 216</b>	<b>32 386</b>	<b>7 785 582</b>	<b>10306</b>	<b>112.85</b>



**Figure 1. North Particulate Matter Daily Emissions Performance 01 April 2025- 30 March 2026**



**Figure 2 South Particulate Matter Daily Emissions(mg/Nm<sup>3</sup>) Performance 01 April 2025- 30 March 2026**

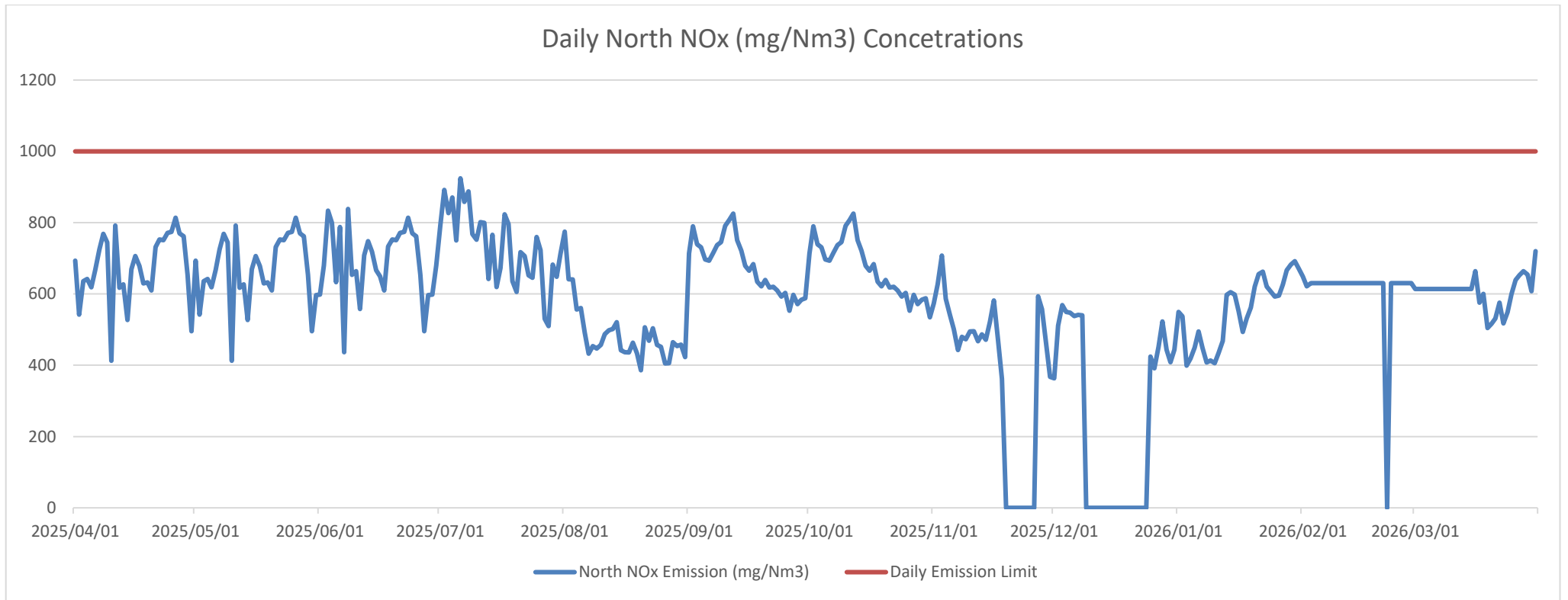
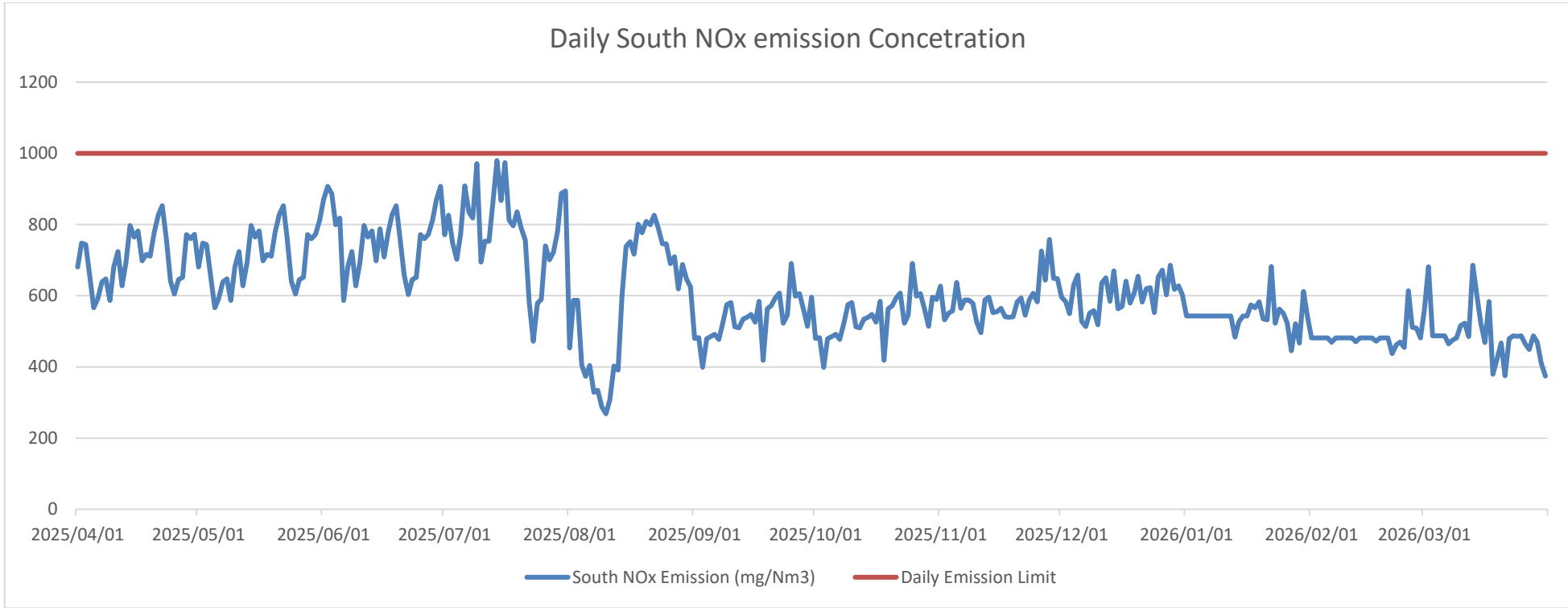
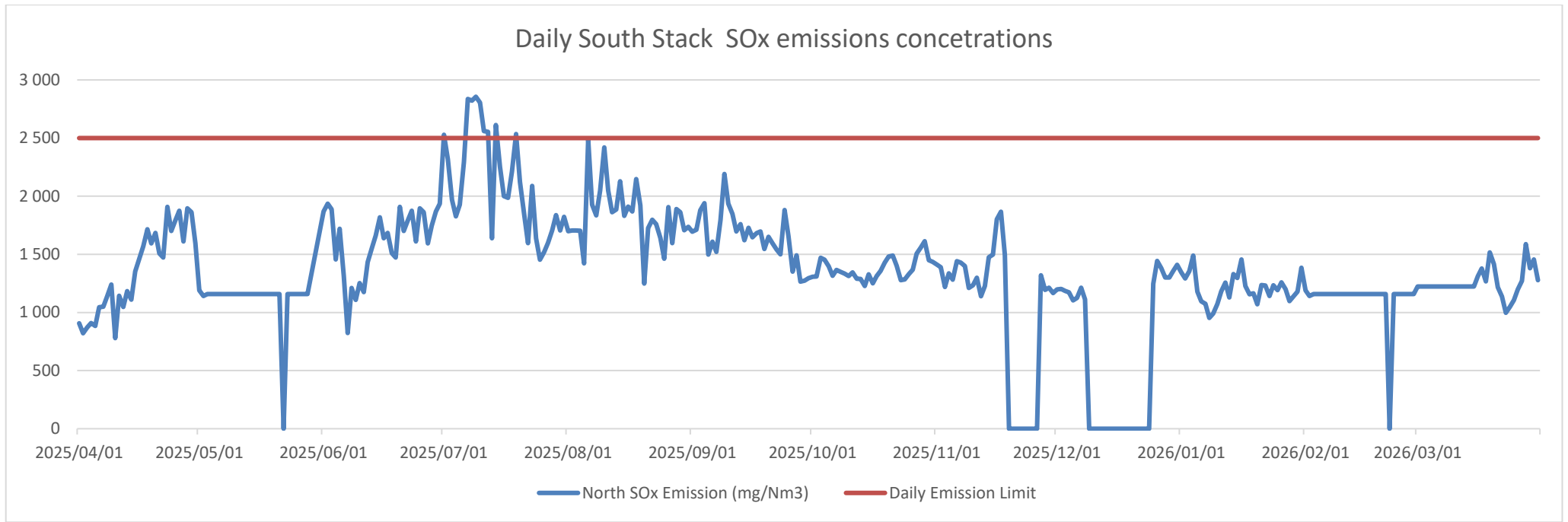


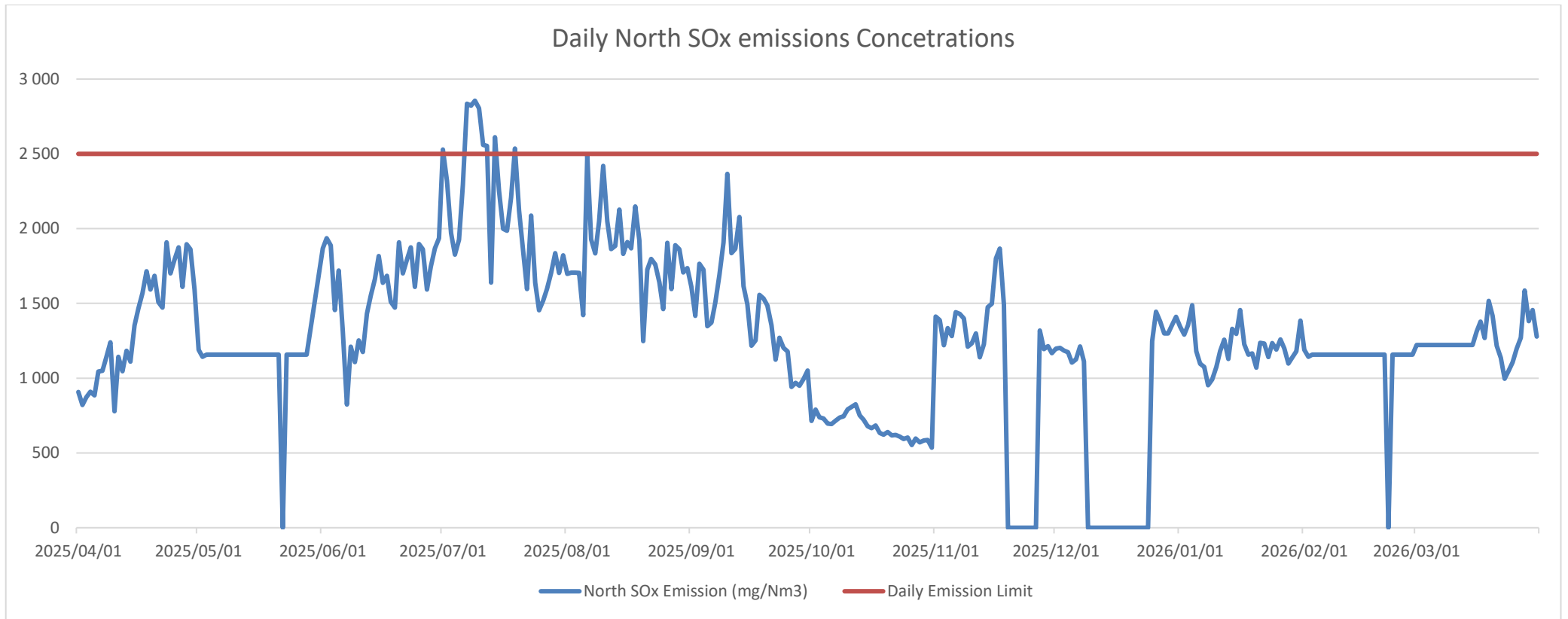
Figure 3. North NOX Daily Emissions Performance 01 April 2025 - 30 March 2026



**Figure 4. South NOX Daily Emissions Performance 01 April 2025 - 30 March 2026**



**Figure 5. South NOx Daily Emissions Performance 01 April 2025 - 30 March 2026**



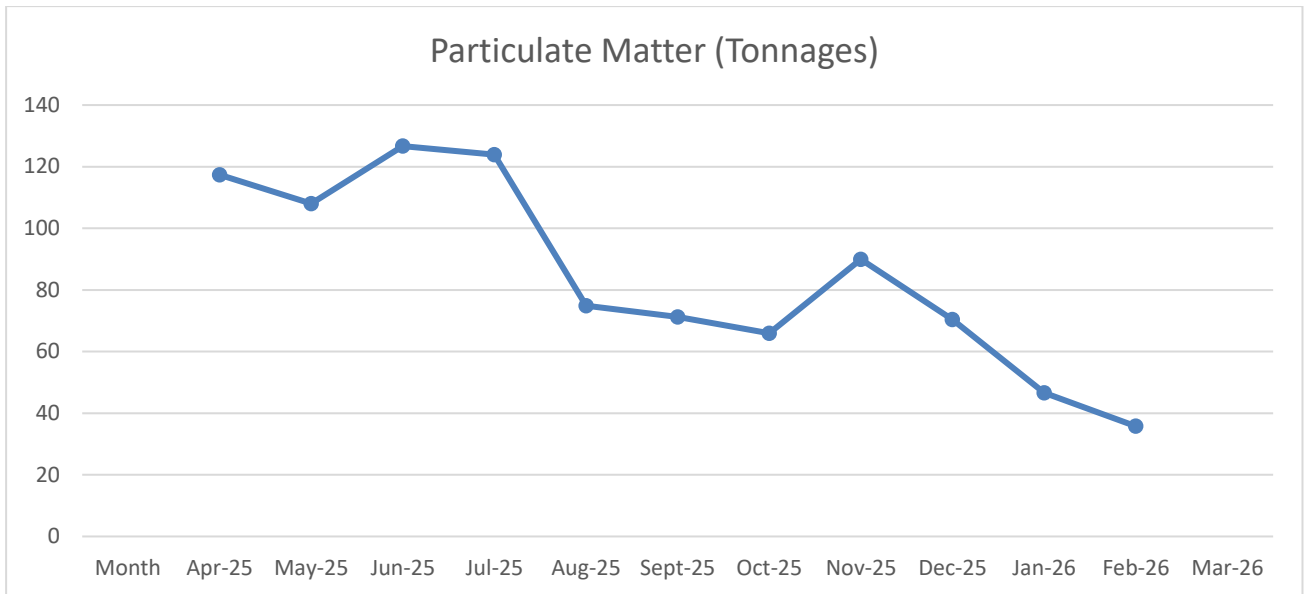
**Figure 6. North NOX Daily Emissions Performance 01 April 2025 - 30 March 2026**

### Gaseous and Particulate Monitoring Data availability

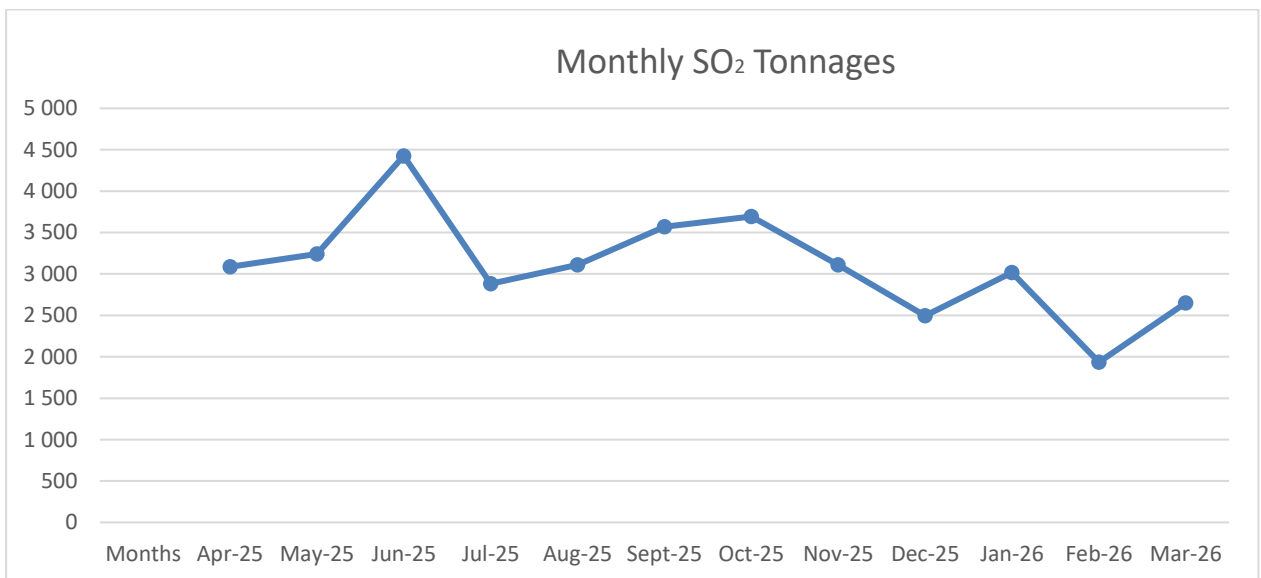
The Table below indicates the availability of the PM and Gaseous monitors on both the south and north stack for each month between 01 April 2025 and 31 March 2026

Table 2. Monitoring System Availability (%)

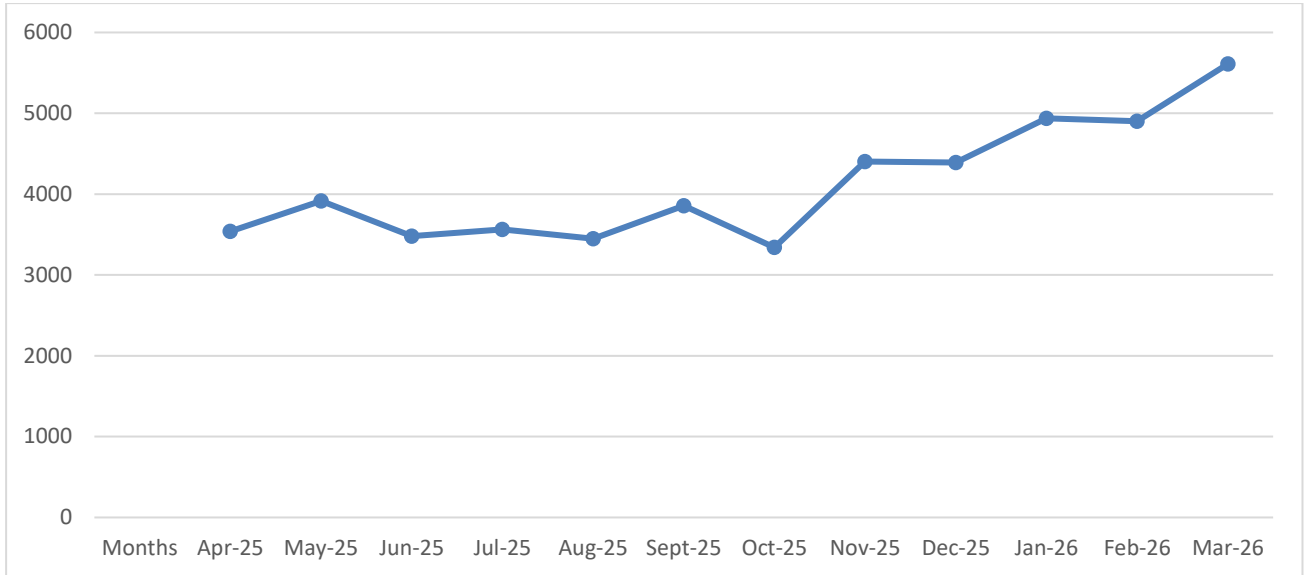
	North Stack PM	South Stack PM	North Stack SO <sub>2</sub>	South Stack SO <sub>2</sub>	North Stack NO <sub>2</sub>	South Stack NO <sub>2</sub>
Apr-2025	100	100	94.8	94.8	99.1	96.1
May-2025	100	100	94.8	94.8	99.1	96.1
June-2025	100	100	97.2	97.2	97.2	97.2
July-2025	100	100	97.2	84.5	97.2	84.5
Aug-2025	100	100	84.5	84.5	84.5	84.5
Sep- 2025	100	100	84.5	89.0	84.5	89.0
Oct-2025	100	100	89.5	89.5	89.5	89.5
Sep-2025	100	100	89.5	89.5	89.5	89.5
Nov-2025	100	100	83.3	83.3	83.3	83.3
Dec-2025	100	100	99.6	99.6	99.6	99.6
Jan-2026	100	100	99.6	99.6	97.2	97.2
Feb-2026	100	100	83.3	83.3	97.2	84.5
Mar-2026	100	100	99.6	99.6	84.5	84.5



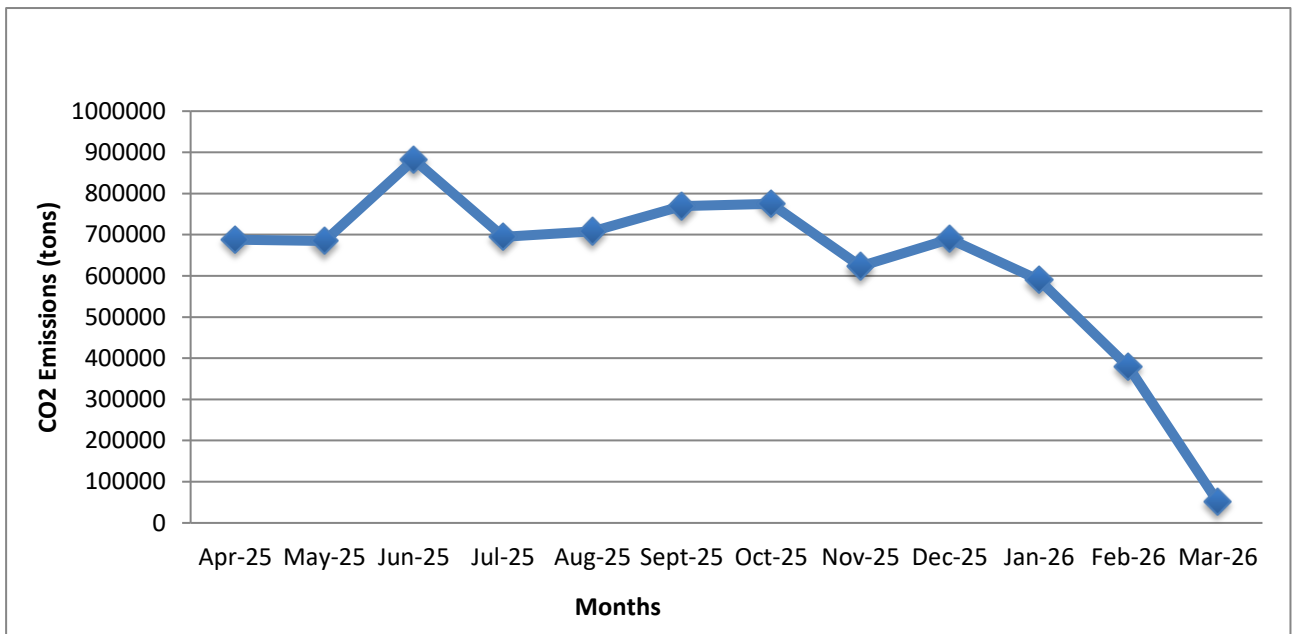
**Figure 7. Particulate Matter (tons) 01 April 2025- 31 March 2026**



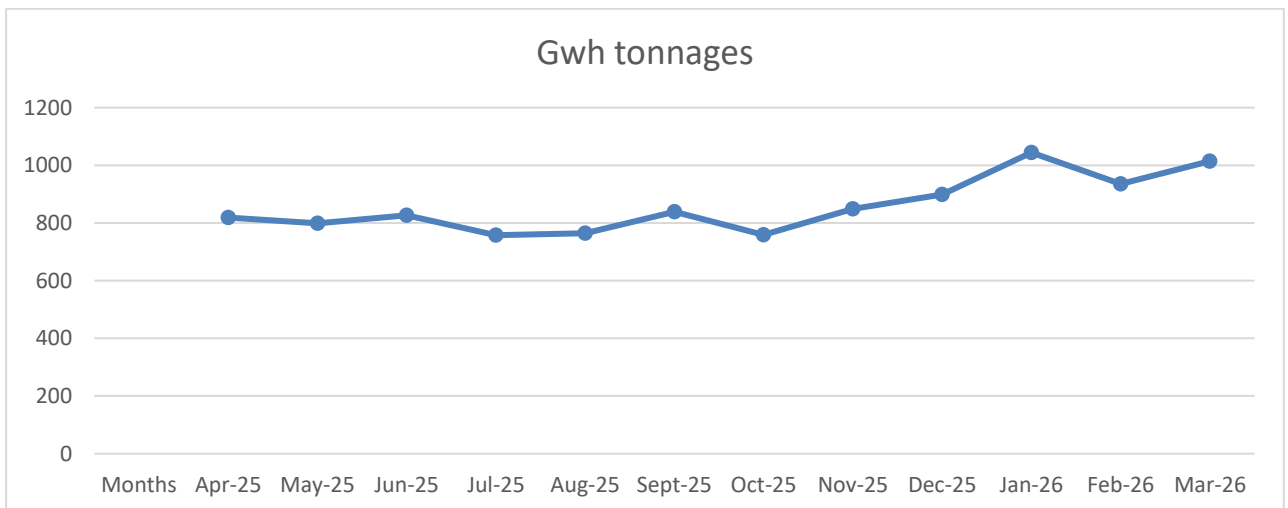
**Figure 8. SO<sub>2</sub> (tons) 01 April 2024 - 31 March 2025**



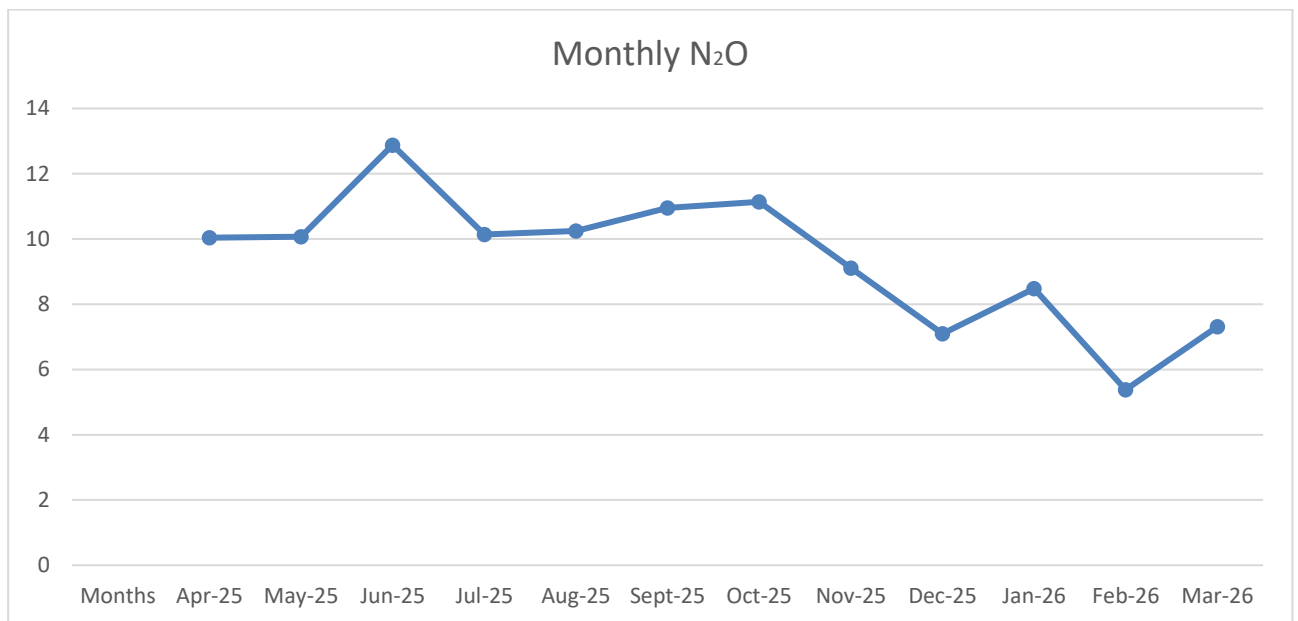
**Figure 9. NO<sub>2</sub> (tons) 01 April 2025 - 31 March 2026**



**Figure 10. CO<sub>2</sub> (tons) April 25 - 31 March 2026**



**Figure 11. GWh (tons) 01 April 2025 - 31 March 2026**



**Figure 12 N<sub>2</sub>O (tons) 01 April 2025- 31 April 2026**

**Greenhouse gas emissions:**

Please refer to table 1 and figure 1-12

**(b) Compliance Audit Report(s):**

- Environmental compliance inspection at Arnot Power Station on the 16<sup>th</sup> of September 2025 by Nkangala District Municipality.

**(c) Major upgrades projects: (Abatement equipment or process Equipment)**

- No major projects related to the atmospheric emissions license were done for the financial year.

**(d) Action taken to address complaints received**

- No complaints received for the reporting period.

## Complaints Register

Table 2. Complaints for 01 April 2025- 31 March 2026

Source Code/ Name	Root Cause Analysis	Calculation of Impacts/ emissions associated with the incident and dispersion modelling of pollutants, where applicable	Dispersion modeling of pollutants where applicable	Measures implemented to prevent reoccurrence	Date by which measure will be implemented
None	0	0	0	0	0

No emissions related complaints registered for the past financial year 2025/2026

### (e) Most recent correlation/ spot tests

- South Stack Particulate Matter monitor correlations Testing: Test conducted on the 10-21 June 2025. (Report: ESK008-2501 R02)
- North Stack Particulate Matter monitor correlations Testing: Test conducted on the 14 August 2024. (Report: ESK008-2501 R02)

### (e) Parallel Tests

- Parallel test on the North Stack was conducted in September 2024 and South Stack August 2024

### (f) NAIES

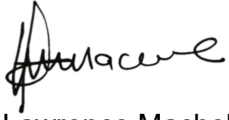
Arnot Power Station is still busy with the NAIES report, and it will be submitted before it is overdue.

### (f) General

The rest of the information demonstrating compliance with the emission license conditions is supplied in the monthly emission reports sent to your office.

Hoping the above will meet your satisfaction.

Compile by



Lawrence Machebe

**ENVIRONMENTAL OFFICER: ARNOT POWER STATION**

Date: 2026.05.26

Supported By



Rofhiwa Tshikovha

**SENIOR ENVIRONMENTAL ADVISOR: ARNOT POWER STATION**

Date: 2026.05.26

Verified By



Jan-Louis Human

**System Engineer**

Date: 27-05-2026

Yours sincerely



Marcus Nematodzi

**GENERAL MANAGER: ARNOT POWER STATION**

Date: 2016-05-27