

Phumudzo Thivhafuni
Limpopo Department of Economic Development,
Environment and Tourism
Private Bag 9484
Polokwane
0700
E-mail: ThivhafuniPO@ledet.gov.za

Date:
17 May 2016

Enquiries:
Tshifhiwa Matamela
Tel: 015 230 1489

Cc: Stanley Koenaitse
Waterberg District Municipality
E-mail: skoenaite@waterberg.gov.za

Cc: Edith Tukakgomo
Lephalale Local Municipality
E-mail: edith.tukakgomo@lephalale.gov.za

Ref: (12/4/12L-W4/A3)

Dear Mrs Thivhafuni

MATIMBA POWER STATION'S ANNUAL EMISSIONS REPORT

This serves as the annual report required in terms of Section 7.7.3 in Matimba Power Station's Atmospheric Emission License/ APPA "The License Holder must complete and submit to the Licensing Authority, an Annual Report as contemplated in paragraph 17 of Section 21 Notice (Government Notice No. 893) no later than thirty (30) days after the end of each reporting period. The report must include information for the year under review". The emissions are for Eskom's 2015/16 financial year which is from 1 April 2015 to 31 March 2016. Verified emissions of particulates, SO₂ and NO_x (as NO₂) are also included.

The emissions in the table below are that of the 2015/2016 financial year

Table 1: General oversight of emissions at Matimba Power Station 2015/2016

Power Station	Coal-fired emissions (tons/annum)	Fuel-oil emissions (tons/annum)	Total (tons/annum)
Matimba Power station	CO ₂ : 22722837	CO ₂ : 10388	CO ₂ : 22733225
	N ₂ O: 118.728	N ₂ O:	N ₂ O:
	PM: 1906.452	PM:	PM:
	SO ₂ : 319747	SO ₂ : 197.65	SO ₂ : 319944.65
	NO _x : 57450	NO _x :	NO _x :

Table 2: Pollutant Emission Trends.

Month	PM (tons)	SO ₂ (tons)	NO _x (tons)	CO ₂ (tons)
April 2016	101.665	26280	4857	1920144
May 2016	169.018	29336	5422	2105513
June 2016	163.809	28919	5345	2083501
July 2016	120.207	27875	5152	2051428
August 2016	175.156	24622	4930	1944625
September 2016	219.265	44914	4905	1930796
October 2016	162.746	23982	4802	1912268
November 2016	96.849	21983	4402	1777960
December 2016	161.458	22336	4472	1792463
January 2016	154.391	25371	4689	1857614
February 2016	207.589	23566	4356	1723701
March 2016	174.299	20562	4117	1622824

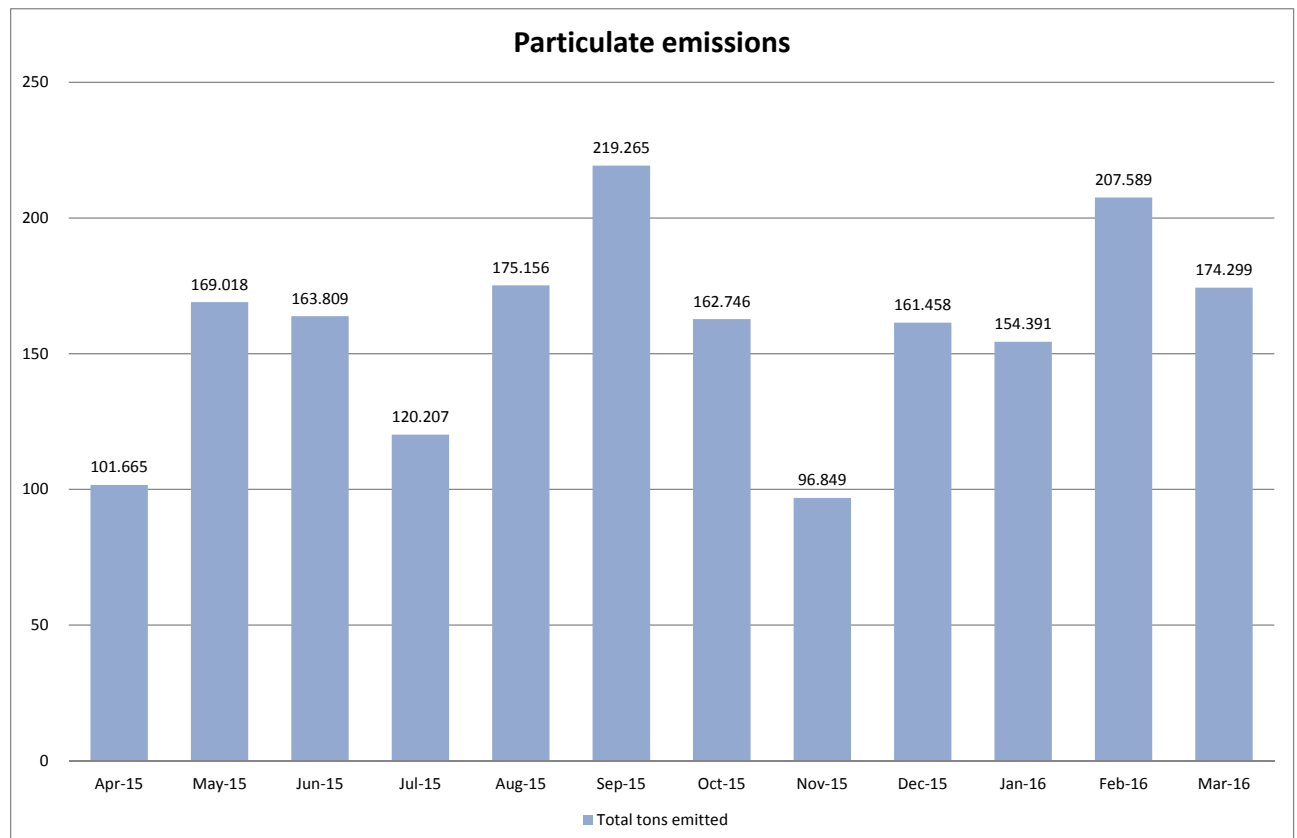


Figure 1: Monthly Particulate Emissions in tons from Matimba Power Station

Please note: Gaseous emissions, in particular, are largely dependent on the power generated by the power station, and thus the amount of coal burnt.

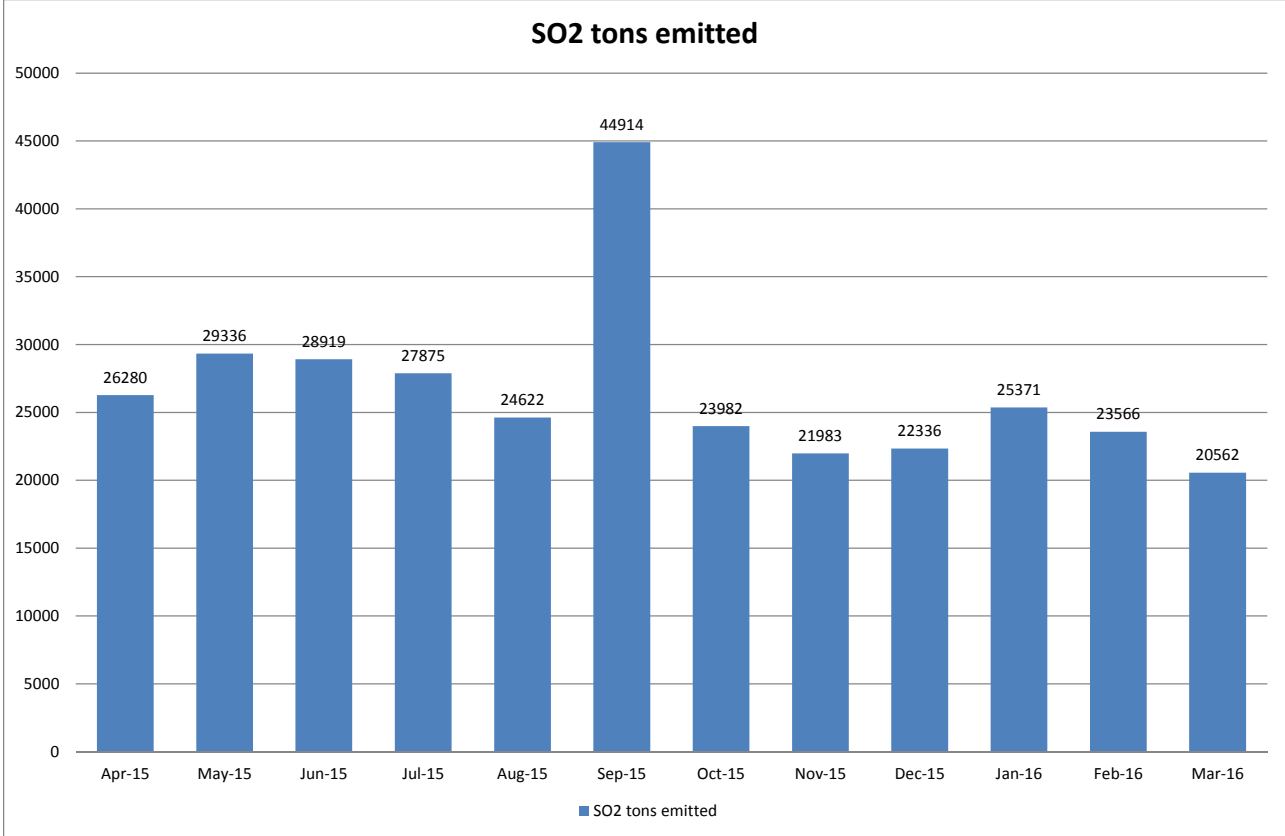


Figure 2: Monthly SO₂ Emissions in tons from Matimba Power Station

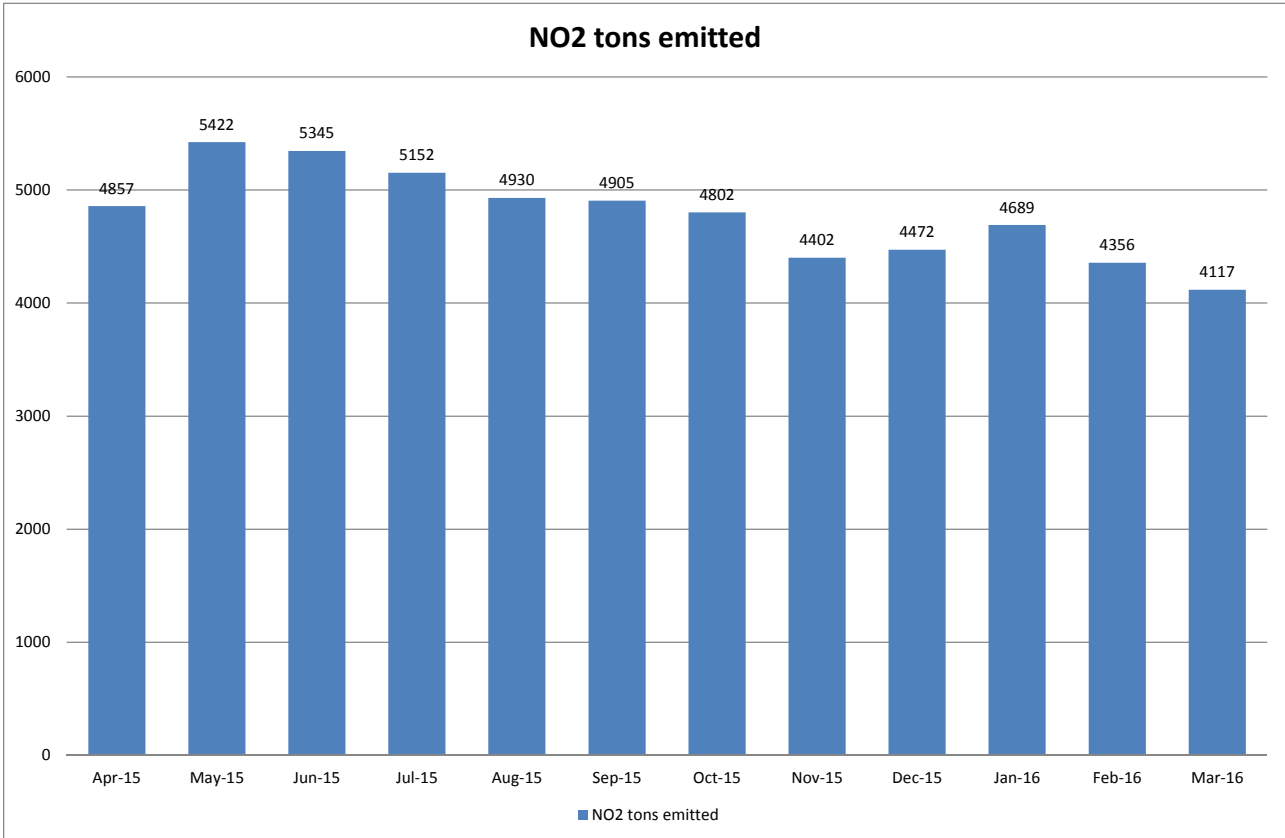


Figure 3: Monthly NO₂ Emissions in tons for Matimba Power Station

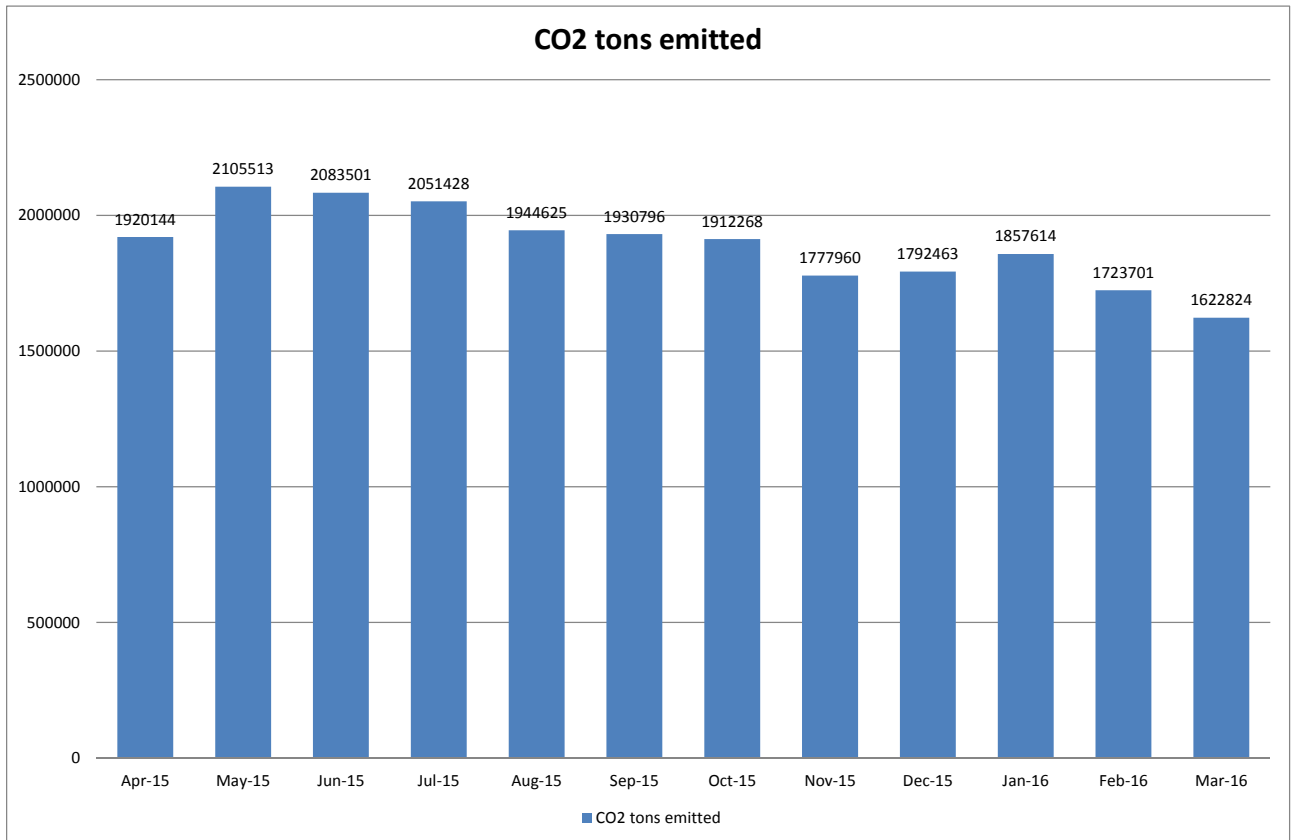


Figure 4: Monthly CO₂ Emissions in tons from Matimba Power Station

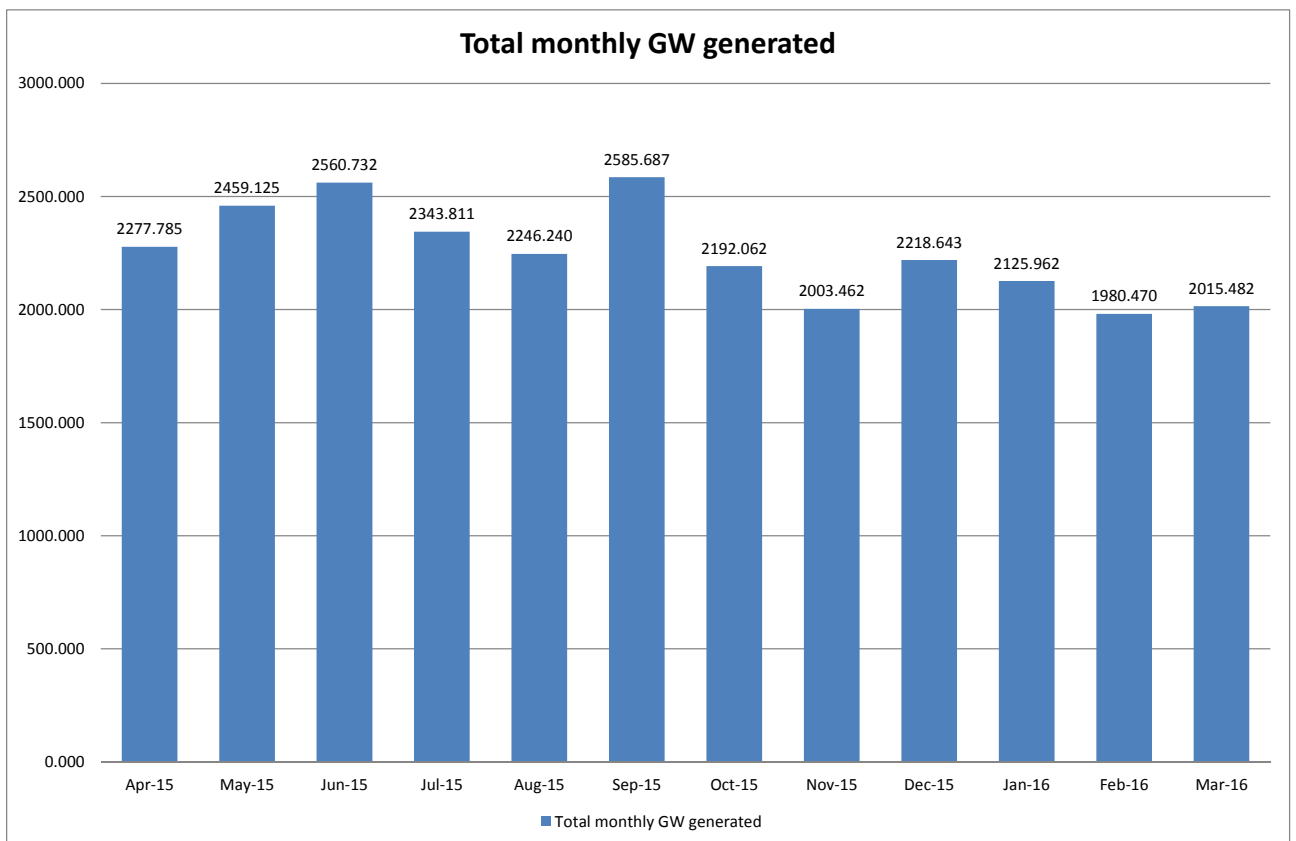


Figure 5: Monthly Energy Generated in GWh at Matimba Power Station

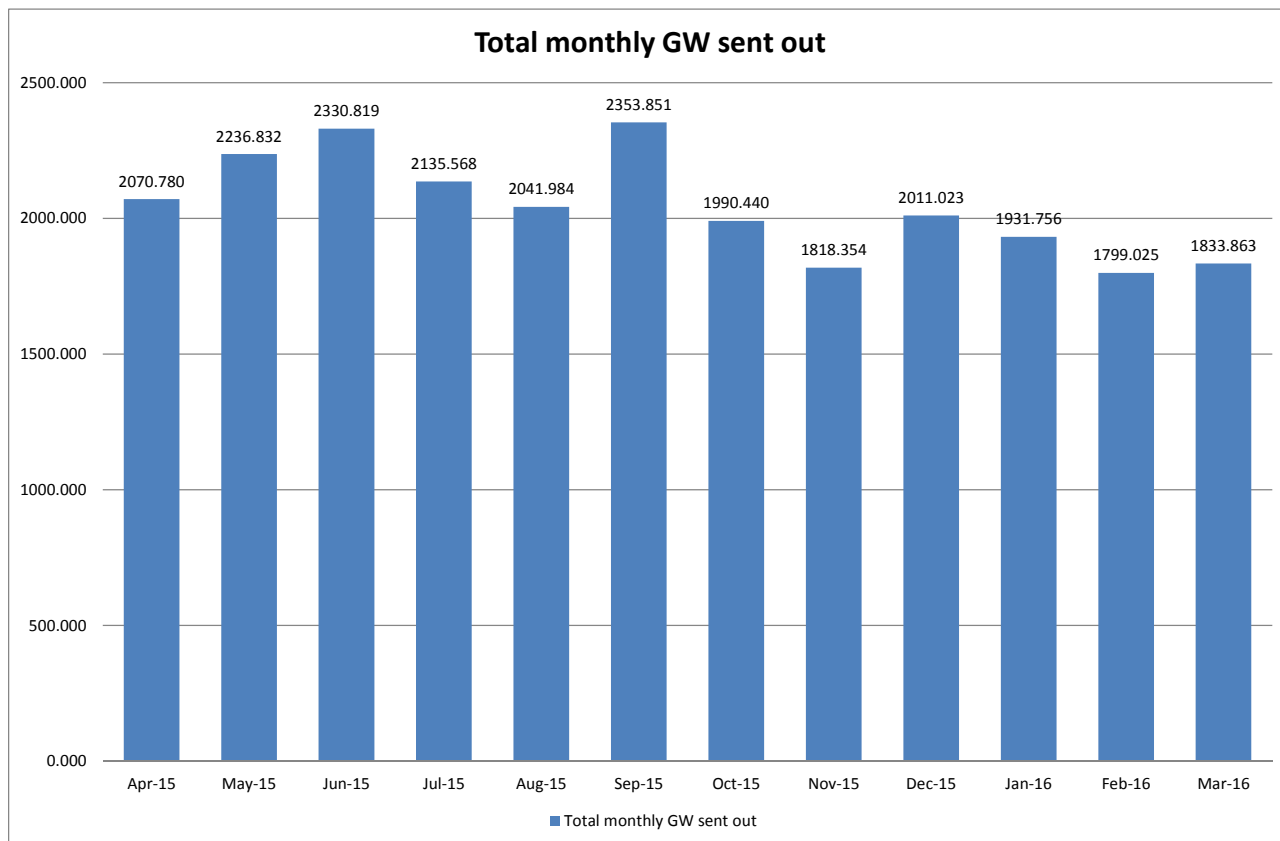


Figure 6: Monthly Energy Sent out GWh at Matimba Power Station

Table 3: Monitoring data availability

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
PM	100%	100%	100%	100%	100%	100%
SO ₂	100%	91.5%	100%	88.6%	100%	97%
NOx	100%	91.5%	100%	88.6%	100%	97%

Compliance Audit Report(s):



Feedback Emissions
FY2016 Matimba Fina

Major upgrades projects:

No upgrades were done for 2016 financial year.

Correlation tests:

No correlation tests were required for 2016 financial year.

Greenhouse gas emissions:

Gaseous emission monitors were installed during 2016 and the installations were completed as follows.

1. Unit 1 June 2016
2. Unit 2 June 2016
3. Unit 3 October 2016
4. Unit 4 July 2016
5. Unit 5 June 2016
6. Unit 6 June 2016

RECOMMENDATIONS OF NONCOMPLIANCE OR POTENTIAL NONCOMPLIANCE AND IMPLEMENTATION PLAN

The below table indicates the conditions which were not satisfied during the reporting period April 2015 to September 2015.

Table 1: Non-Compliance to the station AEL

AEL condition	Current Measure	Impact	Original due date	Target date
7.2 Maximum release rates (Under normal conditions) – the AEL requires the date for achieving this condition on 01 April 2015	Matimba Power Station has applied for an exemption for this condition for Unit 3, as it requires an outage to integrate human machine interface controls for adequate reporting.	Unavailability of data will result in emission exceedance not being intervened by investigating the causes.	01 October 2015	01 January 2016
7.4.8 Requires the estimation method of the TVOCs stemming from the fuel oil storage tanks on site to be established and to be reported to the Department.	The organization is currently investigating the best available method for TVOC estimations. The method is to be in line with acceptable standards	The paucity in method for TVOC will result in impact of these compounds not evaluated and known.	Not Applicable	31 December 2015

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.

I hereby declare that the information in this report is correct.

Yours sincerely



Rhulani Mathebula
POWER STATION MANAGER: MATIMBA POWER STATION