




MONTHLY AIR QUALITY REPORT



MOKOLO CROCODILE WATER AUGMENTATION PROJECT PHASE 2 (MCWAP-2)
ENVIRONMENTAL BASELINE AIR QUALITY - MONTHLY MONITORING REPORT.



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EXECUTIVE SUMMARY

Environmental Assurance (Pty) Ltd. (ENVASS) has been appointed by GIBB Bigen Nyeleti Joint Venture (GBN-JV) to design, implement and maintain a monthly Air quality compliance monitoring programme related to the Phase 2 Mokolo Crocodile Water Augmentation Project (MCWAP-2). The monitoring is implemented as baseline monitoring along the proposed pipeline construction route (hereafter referred to as **“the proposed development”**), which is planned to stretch from the Vlieepoort Mountains, west of Thabazimbi, to Medupi and Matimba Power Stations situated between Steenbokpan and Lephalale, Limpopo Province. The monthly passive sampling comprises of gravimetric dust fallout monitoring, as well as future planned Particulate Matter (PM) monitoring at three (3) predetermined localities. The identified localities are monitored on a monthly basis for data collection and interpretation in order to determine possible impacts related to the proposed construction activities, as well as to serve as a baseline condition for monitoring programme refinement as the project progresses.

This report communicates the monthly air quality monitoring and results conducted within March to April 2022. All monitoring was conducted according to recognised standards and sent to a SANAS accredited laboratory for analysis as further described in this report.

The following findings pertain to the March to April 2022 air quality monitoring:

- During the monitoring period, ninety-seven (97) of the one hundred (100) dust buckets could be collected and analysed.
- Two (2) dust buckets (DB15 and DB16) could not be sampled during the monitoring period due to access restrictions to the property (Servitude Road near Medupi power station);
- One (1) sampling locality (DB17) could not be sampled as the dust stand was recorded as being stolen;
- Three (3) localities recorded exceedances of the Residential Limit (DB87, DB88 and DB99);
- None of the sampling localities recorded exceedances of the Industrial limit;
- All three (3) E-Sampler data was captured during the March to April 2022 monitoring period;
- All E-sampler localities (ES01 (School), ES02 (Eskom - Medupi Power Station) and ES03 (Mooivalei) recorded general low and relatively constant daily PM₁₀ readings with some influences (peaks) noted;
- The dominant wind direction recorded during the monitoring period originated from the west-southwest and to a lesser extent from the westerly direction. Wind speeds recorded an average between 0.1 m/s and 2.0 m/s.

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GLOSSARY

A list of commonly used acronyms, measurement units and definitions are included below for the purpose of ensuring uniformity in the interpretation of this report:

ACRONYMS	
GBN-JV	GIBB Bigen Nyeleti Joint Venture
ASTM	American Society for Testing and Materials
DFFE	Department of Forestry, Fisheries and the Environment (Previously known as DEFF)
ENVASS	Environmental Assurance (Pty) Ltd
NEMA	National Environmental Management Act: Act 109 of 1998.
NEM:AQA	National Environmental Management: Air Quality Act 39 of 2004
PM ₁₀	Particulate Matter of less than 10 microns in diameter
SANS	South African National Standards

MEASUREMENT UNITS	
mg/m ² /day	Milligram per square meter per day
PPM	Parts per million
µg/m ³	Microgram per cubic meter

DEFINITIONS	
Ambient air	Outdoor air in the troposphere, excluding air regulated by the relevant national legislation, where air quality is determined in accordance with this standard.
ASTM D1739	Standard test method for the collection measurement of dust fall (settleable particulate matter).
Average period	Period of time over which the average value is determined.
Dust fallout monitoring programme	Means monitoring of gravimetric dust fallout on a continuous basis.
Monthly basis	Period of 30 days (±2 day) as specified by ASTM D1739.
National Dust Control Regulations	Means the National Dust Control regulations, 2013, as published in the Government Gazette (No. 36974) of 1 November 2013 in terms of the National Environmental Management: Air Quality Act 39 of 2004.
Non-residential area	Means any area not classified for residential use as per local town planning scheme.
Residential area	Means any area classified for residential use in terms of the local town planning scheme.
SANS1929: 2011	South African National Standards, Ambient Air Quality – limits for common pollution.

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1. INTRODUCTION

Environmental Assurance (Pty) Ltd. (ENVASS) was appointed by GIBB Bigen Nyeleti Joint Venture (GBN-JV) to undertake the environmental air quality baseline monitoring programme of the Mokolo Crocodile Water Augmentation Project Phase 2 (MCWAP-2) project. The monitoring is implemented based on the proposed construction pipeline associated with the increased water demand required within Lephalale to coal-fired power stations, where water will be transferred from the Crocodile River (West) to the Steenbokpan and Lephalale area. The project infrastructure includes:

- Water Transfer Infrastructure:
 - Vlieepoort abstraction weir and pump station;
 - Low lift rising main;
 - Balancing dams and desilting works;
 - High-lift pump station;
 - High-lift rising main;
 - Break pressure reservoir;
 - Gravity pipeline;
 - Operation reservoir;
 - Electrical infrastructure; and
- Borrow pits for sourcing of construction material.

The monthly air quality monitoring consists of one hundred (100) gravimetric dust fall-out monitoring localities and three (3) remote particulate matter E-Samplers sites. The scope of work (SoW) performed is aligned to the Tender Document Requirements (Reference: MCWAP2: CONTRACT 2A-C-122-8.9), which are included within the report.

2. BACKGROUND

The project area is located within the Limpopo Province (Waterberg District Municipality) and stretches from the Thabazimbi to Lephalale Local Municipalities. The climate is classified as semi-arid with precipitation generally present during the summer season at a maximum from November to March. The current ambient air quality profile is affected through residential traffic on the associated dirt roads, farming and agriculture activities. Planned sources of air pollution from the pipeline construction included as a minimum, infrastructure and equipment use:

- Tracked machinery and equipment;
- Heavy mobile vehicles;
- Dump trucks;
- Haul trucks;
- Light motor vehicles;
- Access roads.

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3. LEGISLATIVE CONTEXT AND REFERENCES

Section 28 of the National Environmental Management Act (NEMA, Act 107 of 1998) places a duty of care on any person causing, has caused or may cause significant pollution or degradation of the environment to take reasonable measures to prevent such pollution or degradation from occurring, continuing, or, insofar as such harm to the environment is authorised by law or cannot be reasonably avoided or stopped and rectify such pollution of the environment.

The measures required in terms of subsection (1) may include measures to:

- Investigate, assesses and evaluate the impact on the environment,
- Inform and educate employees on the environmental risk of their work and the manner in which tasks must be performed in order to avoid causing significant pollution or degradation of the environment;
- Cease, modify or control any activity or processes causing pollution or degradation;
- Contain or prevent the movement of pollutants or the cause of degradation;
- Eliminate any source of pollution or degradation; or
- Remedy the effects of pollution or degradation.

The National Environmental Management: Air Quality Act (Act no. 39 of 2004) (AQA) was developed to give effect to NEMA in order to update air quality legislation to comply with general environmental policies and to ensure that the legislation is in line with local and international standards on air quality and air quality management practices. The main objectives of the act are to:

- Enhance and protect air quality;
- Provide reasonable measures and steps to prevent pollution or environmental degradation; and
- To secure sustainable environmental development in conjunction with economic and social development.

In terms of the AQA certain activities and industries, including mining, have the responsibility to:

- Comply with any relevant standards or bylaws;
- Comply with relevant emission standards;
- **Comply with the Minister's** requirement for the implementation of a pollution prevention plan in respect of a substance declared as a priority air pollutant;
- **Comply with an Air Quality Official's legal request for impact reports;**
- Taking reasonable steps to prevent the emission of any offensive odour caused by any activity on their premises.

Guidelines provide a basis for protecting public health from the adverse effects of air pollution and for eliminating or reducing to a minimum, those contaminants of air that are known or likely to be hazardous to human health and well-being (WHO, 2000). The South African Bureau of Standards (SABS), in collaboration with DEA, established ambient air quality standards for criteria

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pollutants. The National Ambient Air Quality Standards (Republic of South Africa, 2009a and 2012) provide standards for ambient air quality in terms of criteria pollutants and permitted frequency of exceedances.

4. PURPOSE

The purpose of this assessment is to determine the baseline ambient air quality of the proposed development area. The baseline air quality assessment will measure the current ambient air quality before commencement of construction. The compliance monitoring is based on a pro-active approach to assess air quality on a continuous basis, by measuring the air quality levels.

Generated dust can become a nuisance (or health risk) when it is not properly managed and mitigated. Dust can be a concern to the surrounding land users and receiving environment and it is therefore important to determine the potential of dust generated by the activities.

This report is structured to include the following:

- Purpose / Objective of the study;
- Scope of Work / terms of reference;
- Description of methodologies utilised;
- Limitations and assumptions;
- Results from the baseline results; and
- Summary of findings and recommendations.

This report also aims to give effect to the requirements and legislation as promulgated in South Africa. Please refer to Section 2 for detailed legislative requirements for the study. Key aspects for the purpose of this document is to:

- Describe baseline air quality conditions and how they could be affected;
- Raise relevant air quality concerns of the proposed project; and
 - To recommend, based on the conditions, preventative measures for implementation once the activity commences.

5. METHODOLOGY

5.1 SITE ESTABLISHMENT AND SCOPE OF WORK

An initial desktop site assessment was conducted to determine suitable locations regarding the air quality baseline assessment in conjunction with GBN-JV representatives. The result of the desktop study was the identification of areas to provide a holistic baseline condition of the overall pipeline and associated extent.

Site establishment was implemented in February 2021 followed by monthly passive dust monitoring, while active indicative was initiated during July 2021.

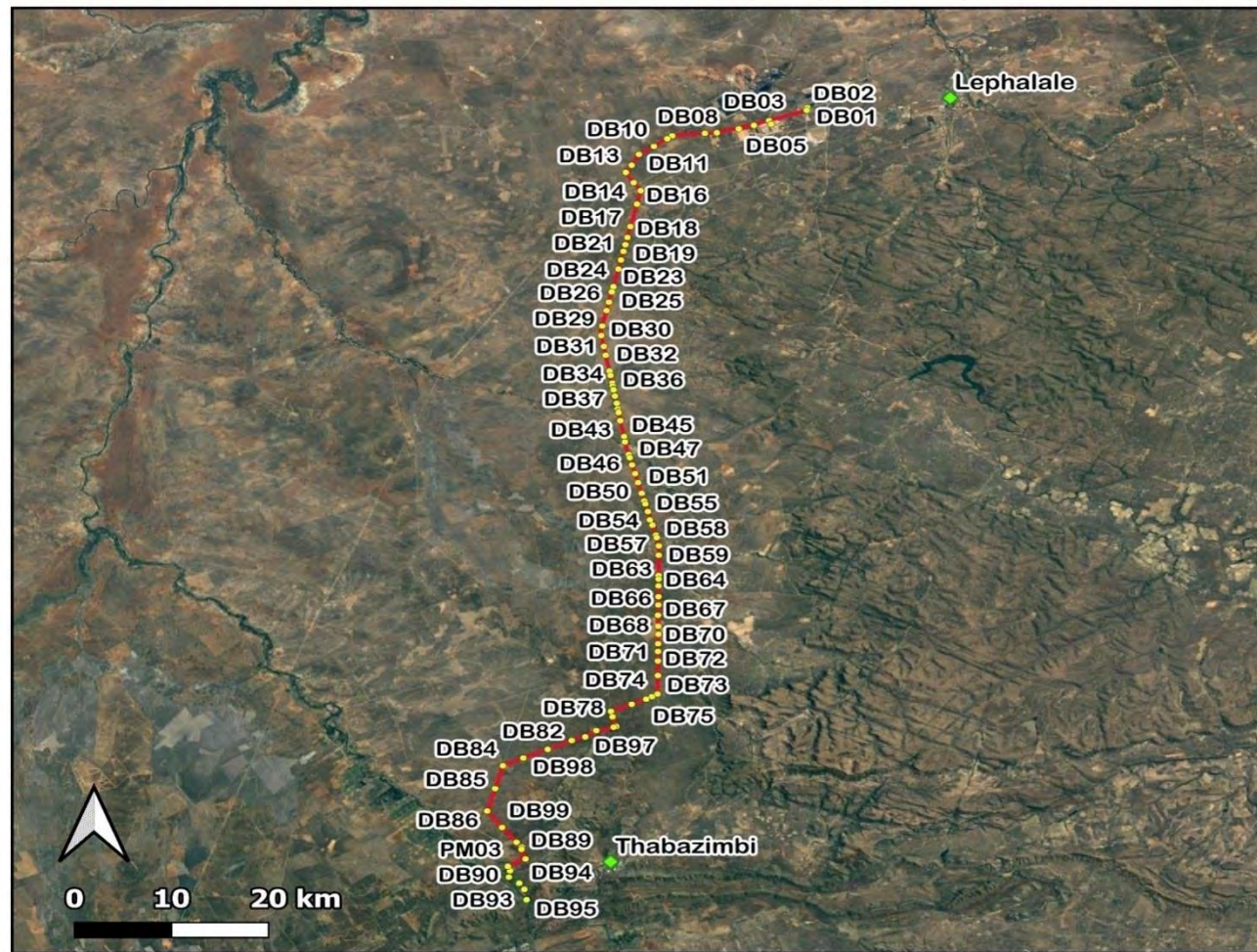
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Sampling occurred as per the scope of work at the identified sampling localities (100 in total) presented in Table 1 and Figure 1 to Figure 3.

Table 1: Monitoring Resources and Sampling Frequencies

Description	Locality Count	Monitoring Frequency
Dust Stand Monitoring Points: <ul style="list-style-type: none"> • Along Pipeline Alignment; • Selected positions at the Weir, Balancing dams, Break Pressure Reservoir and Points of Supply; • Monitoring Weirs; • Along Gravel Access Roads; • Borrow Pits and Spoil Areas; and • Sensitive Receptors. 	100	Monthly
PM10 E-Sampler <ul style="list-style-type: none"> • Kesarona Primary School, Eskom - Medupi Power Station & Balancing Reservoir 	3	Monthly

GIBB Bigen Nyeleti Joint Venture (GBN-JV) - Air Quality Monitoring Programme



Legend

- ◆ Towns
- Pipeline
- Air Quality Monitoring Points



Project: 244-20_21
 Map by: Richard Viljoen
 Date: 11/02/2021
 Coordinate System: EPSG 3857



Figure 1: GBN-JV Air Quality Monitoring Localities

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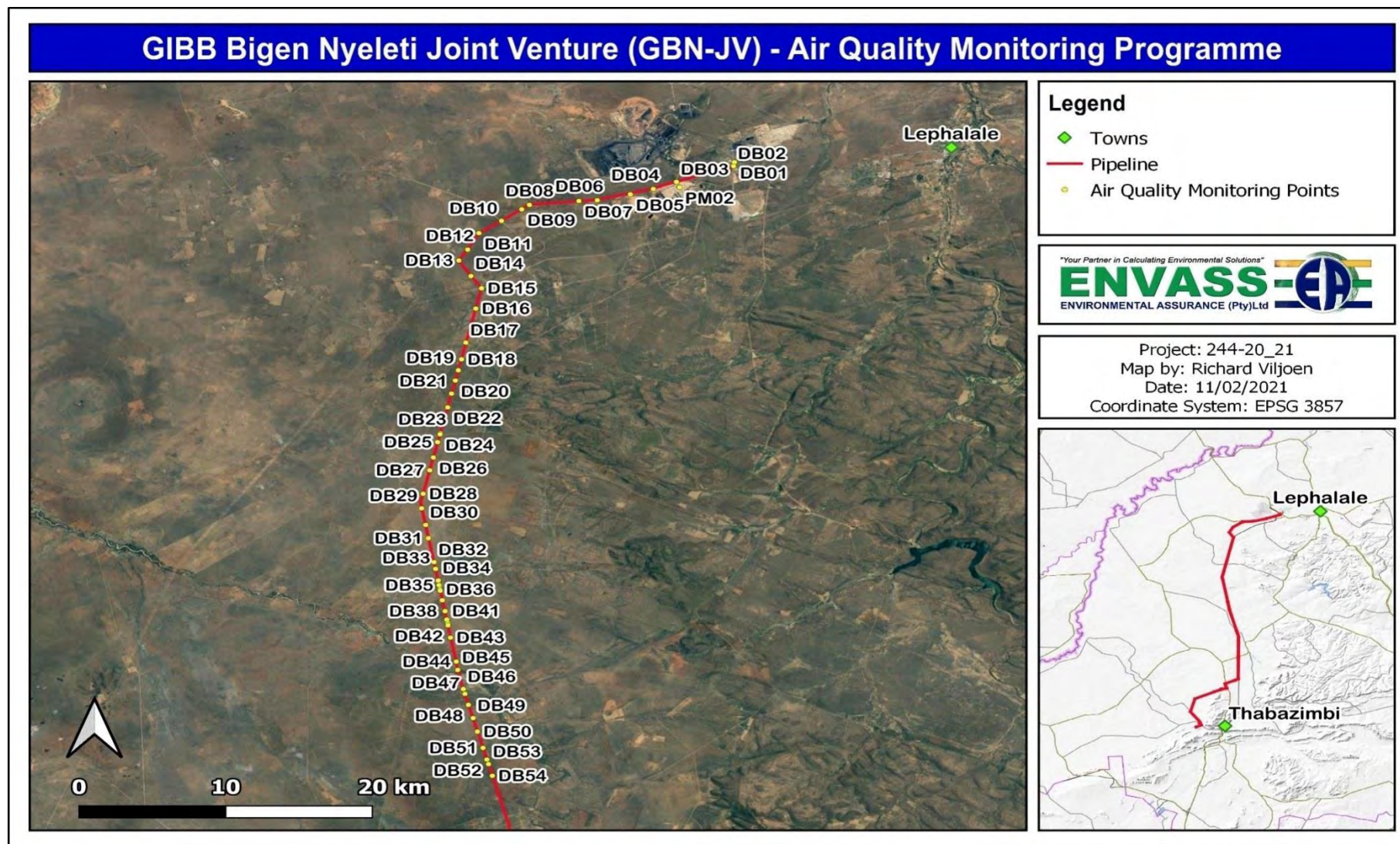
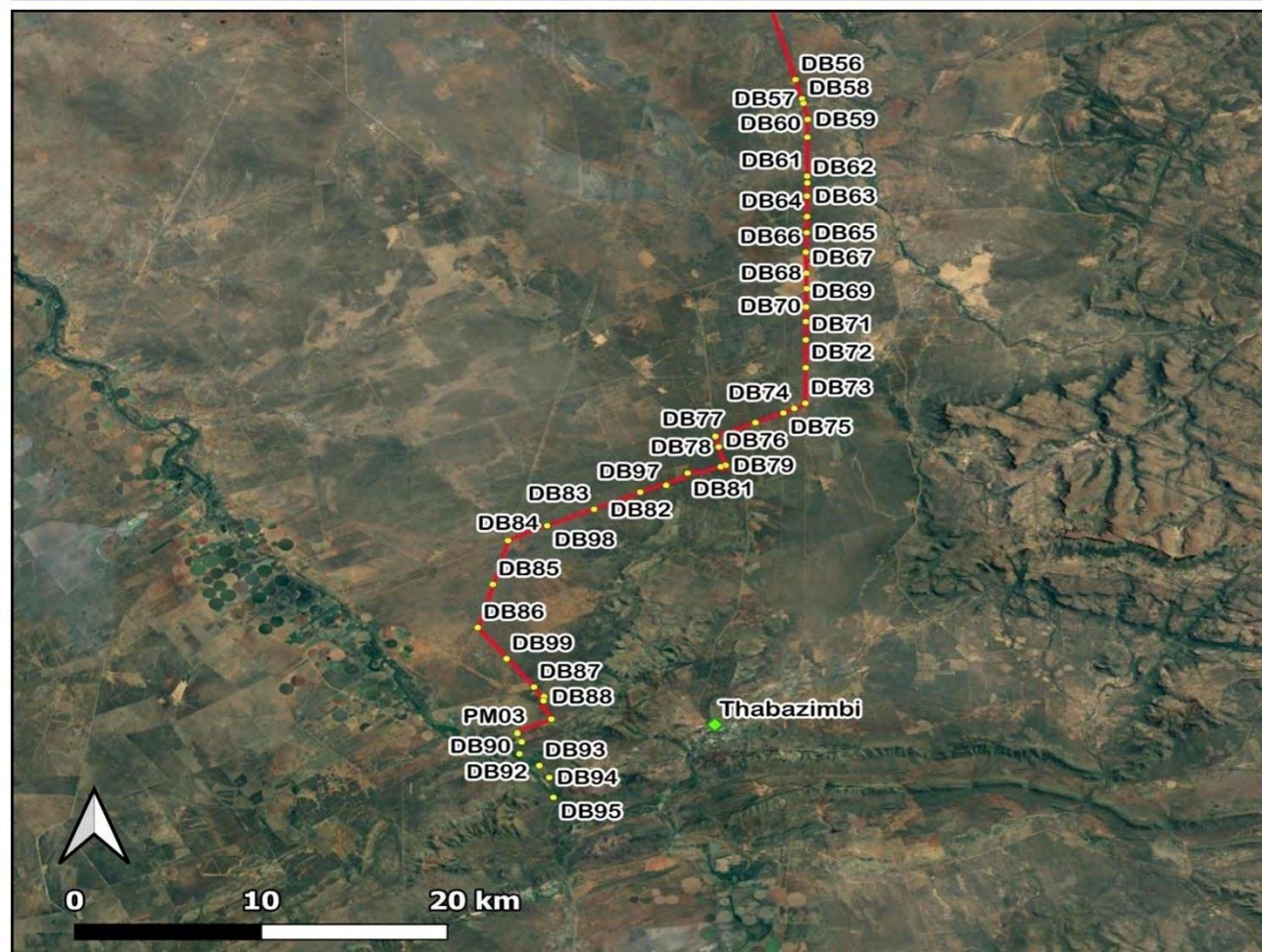


Figure 2: GBN-JV Air Quality Monitoring Localities (Northern Region)

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GIBB Bigen Nyeleti Joint Venture (GBN-JV) - Air Quality Monitoring Programme



Legend

- ◆ Towns
- Pipeline
- Air Quality Monitoring Points



Project: 244-20_21
 Map by: Richard Viljoen
 Date: 11/02/2021
 Coordinate System: EPSG 3857

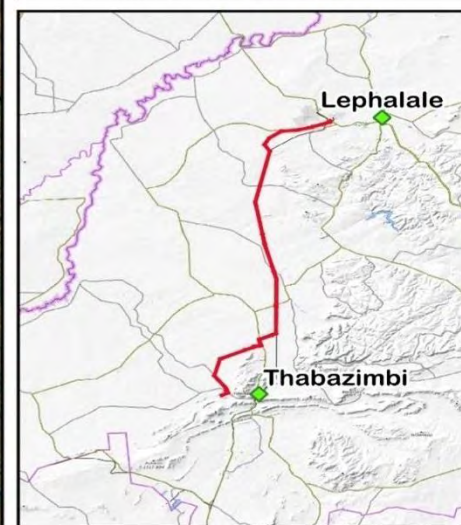


Figure 3: GBN-JV Air Quality Monitoring Localities (Southern Region)

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5.2 ACTIVE INDICATIVE MONITORING

The Met One Instruments, Inc. model E-Sampler is a type of nephelometer that automatically measures and records real-time airborne PM₁₀, PM_{2.5}, or TSP particulate concentration levels using the principle of forward laser light scatter. In addition, the E-Sampler has a built-in 47 mm filter sampler which can optionally be used to collect the particulate for subsequent gravimetric mass or laboratory evaluation.

Laser Light Scatter System

Sample air is drawn into the E-Sampler and through the laser optical module, where the particulate in the sample air stream scatters the laser light through reflective and refractive properties. This scattered light is collected onto a photodiode detector at a near-forward angle, and the resulting electronic signal is processed to determine a continuous, real-time measurement of airborne particulate mass concentrations.

Gravimetric Filter Sampler System

After the sample air stream has been measured by the E-Sampler and exits the optical engine, it passes through the built-in 47 mm filter sampler system. This system allows the particulate to optionally be collected on a filter disc as a second method to obtain airborne particulate mass data, or for laboratory analysis of the particulate. The 47 mm filter system can also be used to determine a gravimetric K-factor (slope multiplier) to correct the E-Sampler real-time signal to match the local particulate type. In this case, a filter disc is weighed on a microbalance before and after being run in the E-Sampler for a period of time. The resulting mass of the dust on the filter is correlated with the concentrations that the E-Sampler recorded over the same time period, and a correction factor is calculated. The E-Sampler can be used with no correction factor in applications where relative particulate trending is appropriate.



Figure 4: Met One Instruments E-Sampler-9800

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Additional details of the apparatus:

- Model: E-Sampler-9800
- Key Features: Real Time Particulate Monitor
- Description: Particulate and air quality monitoring combined in one instrument.

Results obtained from active indicative sampling is evaluated against ambient air quality limits for any common pollutants (SANS 1929:2011) as represented in Table 1 below:

Table 2: Ambient air quality limits for common pollutants (SANS 1929:2011) (Limit Values in $\mu\text{g}/\text{m}^3$)

Pollutant	Averaging Period	Limit Value	Frequency of Exceedance	Compliance Date
Particulate Matter PM ₁₀	24 – hour average	120	4	Immediate – 31 December 2014
	24 – hour average	75	4	1 January 2015
	Annual average	50	0	Immediate – 31 December 2014
	Annual average	40	0	1 January 2015

5.3 PASSIVE DUST MONITORING

Dust buckets of a standard size and shape are prepared and set up at locations within the servitude of the pipeline and ancillary infrastructure, in order for dust to settle for periods of 30 (± 2) days. The dust buckets are collected and sealed on-site and sent to a SANAS accredited laboratory for analysis. The masses of the water-soluble and insoluble components of the material collected are then determined and results are reported as $\text{mg}/\text{m}^2/\text{day}$. This methodology is described according to South African National Standards 1929:2011 and the American Society for Testing and Materials (ASTM) Designation: D 1739-98 (2017) standards. The results for this method of testing are obtained by gravimetric weighing. The apparatus required for this type of monitoring include open-top buckets/containers no less than 150mm in diameter with a height of no less than twice its diameter. The buckets must be placed on a stand at a height of 2 (± 0.2) m above the ground.

Results obtained are evaluated against the four-band scale for dust deposition (SANS 1929:2011) and the National Dust Control Regulation limits (GN827).

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Table 3: Four-band scale evaluation criteria for dust deposition (SANS 1929: 2011)

Band Number	Band Description level	Classification	Dust fallout rate (D) (mg/m ² /day, 30-day average)	Comment
1	Residential	Ideal	$D > 600$	Permissible for residential and light commercial
2	Industrial	Acceptable	$600 < D < 1200$	Permissible for heavy commercial and industrial
3	Action	Tolerable	$1200 < D < 2400$	Requires investigation and remediation if two sequential months lie in this band, or more than three occur in a year.
4	Alert	Unacceptable	$2440 < D$	Immediate action and remediation required followed the first incidence of dust fallout rate being exceeded. Incidents report is submitted to the relevant authority.

The National Dust Control Regulations identify the permissible amount of gravimetric dust fallout, as indicated below:

Table 4: Acceptable dust fallout results (GNR 827)

Restriction Areas	Dust fall rate (D) (mg / m ² / day, 30-day average)	Permitted frequency of exceeding dust fall rate
Residential Area	$D < 600$	Two within a year, not sequential months.
Non-residential Area	$600 < D < 1200$	Two within a year, not sequential months.

6. EMISSION GENERATION AND POLLUTANT OVERVIEW

The current dust generating activities at the site include movement of vehicles along the proposed pipeline route.

It is important to predict and determine possible areas of emission generation as early identification can help develop mitigation or prevention plans for the specific emission generating activities. A prediction is made possible by using existing examples of emission generating activities on other sites and their effect and measures in place to mitigate. From the activities proposed for this project, the following can be expected to be activities that can cause or lead to the generation of emissions:

Construction Phase:

- Site establishment including fencing and security;
- Site and vegetation clearing;
- Soil stripping, stockpiling, earthworks and diggings;
- Storage of waste and construction materials;
- Materials transport;
- Foundations and constructions;
- Surfacing;
- Tracked machinery and equipment;
- Heavy mobile vehicles;
- Articulated dump trucks;
- Haul trucks;
- Light motor vehicles;
- Access roads; and
- Materials stockpiles.

From the abovementioned activities, exhaust emissions from construction vehicles and equipment will typically include particulates, such as PM₁₀, carbon monoxide (CO), sulphur dioxide (SO₂) and volatile organic compounds (VOCs). Additionally, disturbance of groundcover caused by groundworks and activities will further impact on particulate matter generation.

6.1 PARTICULATE MATTER

Particles can be classified by its aerodynamic properties into coarse particles (gravimetric), PM₁₀ (particulate matter with a diameter of less than or equal to 10 microns), PM₄ (particulate matter with a diameter of less than or equal to 4 microns), very fine particles such as PM_{2.5} (particulate matter with a diameter of less than or equal to 2.5 microns) and PM₁ (particulate matter with a diameter of less than or equal to 1 microns) (Harrison and van Grieken, 1998). The fine particles may contain **aerosols such as sulphates and nitrates (they “cling” to particulate matter), combustion particles and/or recondensed organic**

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and metal vapours. The coarse particles contain earth crust materials and fugitive dust from roads and industries (Fenger, 2002).

In terms of health impacts, particulate air pollution effects are broad, but are predominately associated with effects of the respiratory and cardiovascular systems (WHO, 2000). Particle size is important for health because it controls where in the respiratory system a given particle deposits. Fine particles have been found to be more damaging to human health than coarse particles as larger particles are less respirable in that they do not penetrate deep into the lungs compared to smaller particles (Manahan, 1991).

Larger particles are deposited into the extrathoracic part of the respiratory tract while smaller particles are deposited into the smaller airways leading to the respiratory bronchioles (WHO, 2000). A study by Pope and Burnett (2002) indicated that PM_{2.5} leads to high plaque deposits in arteries, causing vascular inflammation and atherosclerosis (Kaonga and Kgabi, 2009). As yet, no evidence of a threshold in the relationship between particulate concentrations and adverse human health effects have been determined (Burger and Scorgie, 2001; WHO 2005).

- *Short-term (acute) exposure*

Recent studies suggest that short-term exposure to particulate matter leads to adverse health effects, even at low **concentrations of exposure (below 100 µg/m³)**. Morbidity effects associated with short-term exposure to particulates include increases in lower respiratory symptoms, medication use and small reductions in lung function.

- *Long-term (or chronic) exposure*

Long-term exposure to low concentrations (~10 µg/m³) of particulates is associated with mortality and other chronic effects such as increased rates of bronchitis and reduced lung function (WHO, 2000). Those most at risk include the elderly, individuals with pre-existing heart or lung disease, asthmatics and children; with an increased risk associated with an increase in exposure (WHO 2005).

6.2 ENVIRONMENTAL IMPACT

Trace gases and aerosols impact the climate through the effect on the radiative balance of the earth. Trace gases such as **greenhouse gases absorb and emit infrared radiation which raises the temperature of the earth's surface causing the** enhanced greenhouse effect. Aerosol particles have a direct effect by scattering and absorbing solar radiation and an indirect effect by acting as cloud condensation nuclei. Atmospheric aerosol particles range from dust and smoke to mists, smog and haze (IPCC, 2001). Smog and haze are common in regions where certain geographic features, such as mountains, and weather conditions, such as temperature inversions, contribute to the trapping of air pollutants (Kumar and Mohan, 2002). Smog and haze also contribute to visibility degradation through the absorption and scattering of radiation by gases and particulates (Elsom, 1996).

Other environmental impacts associated with air pollution include loss of biodiversity and damage to sensitive environments.

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7. RESULTS AND DISCUSSION

7.1. MONTHLY SAMPLING REGISTER

Table 5 below illustrates the March to April 2022 sampling register as recorded by ENVASS during the monthly monitoring.

Table 5: March to April 2022 Monthly Sampling Register

GBN-JV Air Quality Monitoring							
Locality ID	Description	Co-ordinates		Sampler Name	Sampling Date	Sampling Time	Comments
		Latitude	Longitude				
Passive Dust Fallout							
DB01	Grootestryd 465 LQ Portion 5	23°40'41.16"S	27°36'4.24"E	Damon Nell/ Enock Machete	14 th April 2022	10:26	Sampled
DB02	Grootestryd 465 LQ Portion 5	23°40'52.25"S	27°36'2.03"E		14 th April 2022	10:30	Sampled
DB03	Along D1675 outside of Turfvlakte 463 LQ farm	23°41'37.30"S	27°33'44.10"E		14 th April 2022	08:36	Sampled
DB04	Along D1675 outside of Hierontrent 460 LQ farm	23°41'57.80"S	27°32'48.26"E		14 th April 2022	08:11	Sampled
DB05	Along D1675 outside of Eenzaamheid 687 LQ farm	23°42'13.03"S	27°31'52.68"E		14 th April 2022	08:07	Sampled
DB06	Along D1675 outside of Eenzaamheid 687 LQ farm	23°42'29.97"S	27°30'32.64"E		14 th April 2022	08:02	Sampled
DB07	Along D1675 outside of Eenzaamheid 687 LQ farm	23°42'32.26"S	27°29'48.38"E		14 th April 2022	07:59	Sampled
DB08	Along D1675 outside of Pontes Estate 744 LQ farm	23°42'43.21"S	27°27'48.78"E		14 th April 2022	07:54	Sampled
DB09	Pontes Estate 744 LQ (Buffels Jag)	23°42'55.98"S	27°27'30.40"E		14 th April 2022	07:44	Sampled
DB10	Pontes Estate 744 LQ (Buffels Jag)	23°43'28.90"S	27°26'41.33"E		14 th April 2022	07:47	Sampled
DB11	Pontes Estates 712 LQ	23°44'4.06"S	27°25'46.60"E		14 th April 2022	07:22	Sampled
DB12	Along unnamed dirt road bordering Exxaro mine	23°41'23.55"S	27°34'20.99"E		14 th April 2022	08:16	Sampled
DB13	D729 dirt road	24°38'30.48"S	27°18'53.46"E		13 th April 2022	10:36	Sampled
DB14	Along unnamed dirt road bordering Exxaro mine	23°41'8.24"S	27°35'18.63"E		13 th April 2022	08:23	Sampled

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GBN-JV Air Quality Monitoring							
Locality ID	Description	Co-ordinates		Sampler Name	Sampling Date	Sampling Time	Comments
		Latitude	Longitude				
DB15	Servitude Road	23°46'41.92"S	27°25'52.99"E		14 th April 2022	NA	Not Sampled – No Access
DB16	Servitude Road	23°47'39.91"S	27°25'39.16"E		14 th April 2022	NA	Not Sampled – No Access
DB17	Servitude Road	23°49'17.37"S	27°25'15.13"E		14 th April 2022	NA	Not Sampled – Dust Bucket Stand Stolen
DB18	Servitude Road	23°50'5.11"S	27°25'4.54"E		13 th April 2022	20:20	Sampled
DB19	Servitude Road	23°50'36.53"S	27°24'56.77"E		13 th April 2022	20:16	Sampled
DB20	Servitude Road	23°51'5.81"S	27°24'49.59"E		13 th April 2022	20:14	Sampled
DB21	Servitude Road	23°51'43.25"S	27°24'40.22"E		13 th April 2022	20:11	Sampled
DB22	Servitude Road	23°52'22.70"S	27°24'31.05"E		13 th April 2022	20:07	Sampled
DB23	Servitude Road	23°53'36.73"S	27°24'13.40"E		13 th April 2022	20:03	Sampled
DB24	Servitude Road	23°53'39.51"S	27°24'12.55"E		13 th April 2022	20:01	Sampled
DB25	Servitude Road	23°54'1.90"S	27°24'6.76"E		13 th April 2022	19:58	Sampled
DB26	Servitude Road	23°54'46.08"S	27°23'56.64"E		13 th April 2022	19:55	Sampled
DB27	Servitude Road	23°55'22.69"S	27°23'47.77"E		13 th April 2022	19:53	Sampled
DB28	Servitude Road	23°56'29.84"S	27°23'31.71"E		13 th April 2022	19:49	Sampled
DB29	Servitude Road	23°57'11.41"S	27°23'28.14"E		13 th April 2022	19:45	Sampled
DB30	Servitude Road	23°57'58.79"S	27°23'37.97"E		13 th April 2022	19:42	Sampled
DB31	Servitude Road	23°58'36.77"S	27°23'44.50"E		13 th April 2022	19:39	Sampled
DB32	Servitude Road	23°59'45.59"S	27°23'58.25"E		13 th April 2022	19:35	Sampled
DB33	Servitude Road	24° 0'4.67"S	27°24'1.95"E		13 th April 2022	19:33	Sampled
DB34	Servitude Road	24° 0'37.82"S	27°24'8.36"E		13 th April 2022	19:30	Sampled
DB35	Servitude Road	24° 0'51.33"S	27°24'10.07"E		13 th April 2022	19:29	Sampled
DB36	Servitude Road	24° 1'3.54"S	27°24'12.35"E		13 th April 2022	19:27	Sampled
DB37	Servitude Road	24° 1'7.07"S	27°24'13.15"E		13 th April 2022	19:26	Sampled
DB38	Servitude Road	24° 1'34.37"S	27°24'18.32"E		13 th April 2022	19:24	Sampled
DB39	Servitude Road	23°41'35.31"S	27°38'51.43"E		13 th April 2022	19:21	Sampled

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GBN-JV Air Quality Monitoring							
Locality ID	Description	Co-ordinates		Sampler Name	Sampling Date	Sampling Time	Comments
		Latitude	Longitude				
DB40	Servitude Road	24° 2'29.74"S	27°24'28.91"E	Damon Nell/ Enock Machete	13 th April 2022	19:19	Sampled
DB41	Servitude Road	24° 2'40.69"S	27°24'31.20"E		13 th April 2022	19:18	Sampled
DB42	Servitude Road	24° 2'46.02"S	27°24'32.19"E		13 th April 2022	19:17	Sampled
DB43	Servitude Road	24° 3'21.38"S	27°24'37.93"E		13 th April 2022	19:13	Sampled
DB44	Servitude Road	24° 4'29.95"S	27°24'51.86"E		13 th April 2022	19:06	Sampled
DB45	Servitude Road	24° 4'53.87"S	27°24'55.26"E		13 th April 2022	19:02	Sampled
DB46	Servitude Road	24° 5'48.56"S	27°25'8.99"E		13 th April 2022	18:59	Sampled
DB47	Servitude Road	24° 6'2.39"S	27°25'12.90"E		13 th April 2022	18:57	Sampled
DB48	Servitude Road	24° 6'33.52"S	27°25'21.12"E		13 th April 2022	18:54	Sampled
DB49	Servitude Road	24° 7'11.42"S	27°25'32.63"E		13 th April 2022	18:51	Sampled
DB50	Servitude Road	24° 7'50.30"S	27°25'43.01"E		13 th April 2022	18:47	Sampled
DB51	Servitude Road	24° 8'36.82"S	27°25'56.47"E		13 th April 2022	18:45	Sampled
DB52	Servitude Road	24° 9'10.22"S	27°26'5.85"E		13 th April 2022	18:42	Sampled
DB53	Servitude Road	24° 9'23.38"S	27°26'10.00"E		13 th April 2022	18:40	Sampled
DB54	Servitude Road	24° 9'56.57"S	27°26'19.10"E		13 th April 2022	18:37	Sampled
DB55	Servitude Road	24°10'32.51"S	27°26'26.49"E		13 th April 2022	18:34	Sampled
DB56	Servitude Road	24°10'55.15"S	27°26'36.17"E		13 th April 2022	18:30	Sampled
DB57	Servitude Road	24°11'38.61"S	27°26'48.79"E		13 th April 2022	18:27	Sampled
DB58	Servitude Road	24°11'49.30"S	27°26'51.53"E		13 th April 2022	18:25	Sampled
DB59	Servitude Road	24°12'25.42"S	27°26'59.45"E		13 th April 2022	18:22	Sampled
DB60	Servitude Road	24°13'6.00"S	27°26'59.07"E		13 th April 2022	18:20	Sampled
DB61	Servitude Road	24°14'34.19"S	27°26'58.48"E		13 th April 2022	18:17	Sampled
DB62	Servitude Road	24°14'49.64"S	27°26'58.86"E		13 th April 2022	18:15	Sampled
DB63	Servitude Road	24°15'19.44"S	27°26'58.33"E		13 th April 2022	18:13	Sampled
DB64	Servitude Road	24°16'6.23"S	27°26'58.26"E		13 th April 2022	18:10	Sampled

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GBN-JV Air Quality Monitoring							
Locality ID	Description	Co-ordinates		Sampler Name	Sampling Date	Sampling Time	Comments
		Latitude	Longitude				
DB65	Servitude Road	24°16'42.57"S	27°26'57.57"E	Damon Nell/ Enock Machete	13 th April 2022	18:07	Sampled
DB66	Servitude Road	24°17'26.82"S	27°26'56.01"E		13 th April 2022	18:05	Sampled
DB67	Servitude Road	24°18'14.46"S	27°26'56.97"E		13 th April 2022	18:02	Sampled
DB68	Servitude Road	24°18'49.52"S	27°26'57.63"E		13 th April 2022	18:00	Sampled
DB69	Servitude Road	24°19'31.03"S	27°26'56.52"E		13 th April 2022	17:57	Sampled
DB70	Servitude Road	24°20'4.26"S	27°26'56.14"E		13 th April 2022	17:53	Sampled
DB71	Servitude Road	24°20'45.70"S	27°26'55.87"E		13 th April 2022	17:50	Sampled
DB72	Servitude Road	24°21'48.85"S	27°26'55.81"E		13 th April 2022	17:47	Sampled
DB73	Servitude Road	24°23'9.52"S	27°26'54.85"E		13 th April 2022	17:42	Sampled
DB74	Between Tarentaalpan 132 KQ portion 2 and Diepkuil 135 Portion 5	24°23'21.10"S	27°26'33.71"E		13 th April 2022	17:40	Sampled
DB75	Between Tarentaalpan 132 KQ portion 2 and Diepkuil 135 Portion 5	24°23'31.60"S	27°26'13.03"E		13 th April 2022	17:38	Sampled
DB76	Between Tarentaalpan 132 KQ portion 2 and Diepkuil 135 Portion 5	24°23'53.46"S	27°25'19.77"E		13 th April 2022	17:34	Sampled
DB77	Along the R510	24°24'24.61"S	27°24'3.45"E		13 th April 2022	17:27	Sampled
DB78	Along the R510	23°41'35.31"S	27°38'51.43"E		13 th April 2022	17:23	Sampled
DB79	Along the R510	24°25'29.93"S	27°24'23.06"E		13 th April 2022	16:34	Sampled
DB80	Between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1	24°25'33.45"S	27°24'13.50"E		13 th April 2022	16:36	Sampled
DB81	Between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1	24°25'47.88"S	27°23'10.20"E		13 th April 2022	16:40	Sampled
DB82	Between Buffelsvley 127 KQ and Karoobult 126 KQ	24°26'31.14"S	27°21'39.92"E		13 th April 2022	16:47	Sampled
DB83	Between Buffelsvley 127 KQ and Karoobult 126 KQ	24°27'9.88"S	27°20'11.67"E		13 th April 2022	16:52	Sampled
DB84	Paarl 124 KQ Portion 6	24°28'20.86"S	27°17'27.36"E		13 th April 2022	13:47	Sampled
DB85	Paarl 124 KQ Portion 3	24°30'0.19"S	27°16'58.48"E		13 th April 2022	13:36	Sampled

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GBN-JV Air Quality Monitoring							
Locality ID	Description	Co-ordinates		Sampler Name	Sampling Date	Sampling Time	Comments
		Latitude	Longitude				
DB86	D769 dirt road	24°31'38.11"S	27°16'29.83"E	Damon Nell/ Enock Machete	13 th April 2022	12:42	Sampled
DB87	D769 dirt road	24°33'53.16"S	27°18'16.95"E		13 th April 2022	14:15	Sampled
DB88	Within small community near Stratford 462 KQ	24°34'14.79"S	27°18'36.10"E		13 th April 2022	14:20	Sampled
DB89	Near Primary School	24°34'24.25"S	27°18'35.18"E		13 th April 2022	12:00	Sampled
DB90	Mooivalei 342 KQ – Portion 1	24°35'35.70"S	27°17'45.31"E		13 th April 2022	14:34	Sampled
DB91	Mooivalei 342 KQ – Portion 2	24°35'59.20"S	27°17'38.40"E		13 th April 2022	14:30	Sampled
DB92	Mooivalei 342 KQ – Portion 4	24°36'25.02"S	27°17'49.23"E		13 th April 2022	11:38	Sampled
DB93	Mooivalei 342 KQ – Portion 7	24°36'51.37"S	27°18'27.13"E		13 th April 2022	11:28	Sampled
DB94	Mooivalei 342 KQ – Portion 9	24°37'18.10"S	27°18'45.97"E		13 th April 2022	11:20	Sampled
DB95	D729 dirt road	24°38'3.48"S	27°18'54.13"E		13 th April 2022	10:30	Sampled
DB96	Along unnamed dirt road bordering Exxaro mine	23°41'25.22"S	27°34'18.42"E		14 th April 2022	08:20	Sampled
DB97	Between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1	24°26'15.46"S	27°22'29.41"E		13 th April 2022	16:44	Sampled
DB98	Buffelsvley 127 KQ	24°26'48.84"S	27°18'57.38"E		13 th April 2022	16:57	Sampled
DB99	D769 dirt road	24°32'48.86"S	27°17'24.55"E		13 th April 2022	12:37	Sampled
DB100	Mooivalei 342 KQ – Portion 1	24°35'5.76"S	27°18'49.94"E		13 th April 2022	11:55	Sampled
E-Sampler PM Monitoring							
PM01	Thaba Tholo Primary School	24°34'22.26"S	27°18'33.97"E	Damon Nell/ Enock Machete	13 th April 2022	12:01	Sampled
PM02	Eskom - Medupi Power Station	23°41'50.52"S	27°34'7.72"E		14 th April 2022	10:19	Sampled
PM03	Mooivalei 342 KQ – Portion 1	24°35'36.99"S	27°17'43.54"E		13 th April 2022	14:37	Sampled

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7.2. PARTICULATE MATTER RESULTS

Particulate matter is measured using two (2) techniques. The first method involves the use of a hand-held PM meter (section 7.2.1) which is sampled at every dust fallout sampling locality. The second method involves the use of three (3) Stations Met One E-Samplers and compared to the SANS 1929:2011 24-hour limit of 75 mg/m³ for both PM₁₀ to determine compliance. Two (2) E-samplers were installed during the June 2021 monitoring period with the final (3rd) E-sampler being installed during the August 2021 monitoring period.

7.2.1. Active Handheld PM Monitoring

Table 6: PM meter results

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
DB - 1	Jun-21 to Jul-21	1,20	13,30	20,70	72,40	154,40
	Jul-21 to Aug-21	3,20	17,20	36,70	106,70	131,30
	Aug-21 to Sep-21	7,20	28,40	47,50	88,00	104,60
	Sep-21 to Oct-21	1,30	6,20	9,80	20,50	28,50
	Oct-21 to Nov-21	0,90	6,00	14,80	47,80	67,50
	Nov-21 to Dec-21	2,00	11,90	21,00	42,70	59,40
	Dec-21 to Jan-22	1,60	14,70	40,10	88,80	102,90
	Jan-22 to Feb-22	1,10	9,20	19,70	41,20	59,00
	Feb-22 to Mar-22	0,10	0,10	1,40	5,70	6,30
	Mar-22 to Apr-22	0,10	1,20	4,60	20,40	30,40
DB - 2	Jun-21 to Jul-21	1,90	26,40	37,70	96,60	138,50
	Jul-21 to Aug-21	4,20	11,30	39,70	214,40	422,80
	Aug-21 to Sep-21	7,10	29,70	51,10	87,60	99,30
	Sep-21 to Oct-21	8,30	89,80	127,90	229,00	255,50
	Oct-21 to Nov-21	0,90	5,40	18,50	64,50	81,10
	Nov-21 to Dec-21	1,50	7,60	14,30	27,30	36,60
	Dec-21 to Jan-22	1,90	11,00	62,70	201,40	233,50
	Jan-22 to Feb-22	1,10	8,90	18,50	39,80	56,40
	Feb-22 to Mar-22	0,10	0,70	2,00	13,10	15,00
	Mar-22 to Apr-22	4,00	160,40	169,40	246,00	267,60
DB - 3	Jun-21 to Jul-21	1,00	11,10	23,40	146,50	332,00
	Jul-21 to Aug-21	3,10	13,60	41,40	124,80	151,30
	Aug-21 to Sep-21	2,10	5,10	15,30	111,50	201,50
	Sep-21 to Oct-21	1,60	7,10	13,10	33,20	40,00
	Oct-21 to Nov-21	2,30	7,10	10,40	18,50	13,40
	Nov-21 to Dec-21	1,30	8,20	14,40	23,50	24,10
	Dec-21 to Jan-22	0,80	5,40	11,60	30,30	39,60
	Jan-22 to Feb-22	1,20	10,40	20,00	29,70	40,20
	Feb-22 to Mar-22	0,10	0,10	0,90	3,30	3,40
	Mar-22 to Apr-22	0,30	1,50	6,40	23,00	27,30
DB - 4	Jun-21 to Jul-21	1,10	3,90	28,40	255,50	710,40

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Jul-21 to Aug-21	3,20	21,60	54,10	206,10	273,90
	Aug-21 to Sep-21	2,40	9,70	15,30	33,30	40,70
	Sep-21 to Oct-21	1,60	7,90	13,70	25,70	29,40
	Oct-21 to Nov-21	2,60	9,20	14,60	23,60	24,20
	Nov-21 to Dec-21	1,30	6,30	12,30	24,70	26,60
	Dec-21 to Jan-22	3,20	45,00	74,50	165,50	190,10
	Jan-22 to Feb-22	1,30	11,20	23,30	45,60	52,40
	Feb-22 to Mar-22	0,10	0,40	2,00	6,10	7,90
	Mar-22 to Apr-22	0,90	6,60	29,10	114,10	136,00
DB - 5	Jun-21 to Jul-21	4,20	71,20	92,80	203,30	300,70
	Jul-21 to Aug-21	1,90	10,80	18,10	51,90	74,70
	Aug-21 to Sep-21	3,10	19,00	42,00	108,80	129,80
	Sep-21 to Oct-21	2,00	13,60	27,80	77,80	108,00
	Oct-21 to Nov-21	2,50	8,40	13,90	26,50	32,00
	Nov-21 to Dec-21	1,30	6,80	14,00	28,90	32,00
	Dec-21 to Jan-22	1,40	1,40	8,90	807,40	1039,80
	Jan-22 to Feb-22	3,00	38,10	70,50	168,10	219,10
	Feb-22 to Mar-22	0,20	1,20	3,00	8,90	12,60
	Mar-22 to Apr-22	2,40	23,20	65,20	254,20	301,10
DB - 6	Jun-21 to Jul-21	0,60	2,80	8,70	41,20	54,20
	Jul-21 to Aug-21	3,00	24,80	31,10	51,00	60,80
	Aug-21 to Sep-21	2,20	7,40	13,30	41,90	67,20
	Sep-21 to Oct-21	2,30	15,60	32,70	91,20	117,70
	Oct-21 to Nov-21	2,40	7,90	12,20	23,10	27,40
	Nov-21 to Dec-21	1,40	7,40	14,20	26,60	29,10
	Dec-21 to Jan-22	2,60	70,80	84,00	136,50	176,60
	Jan-22 to Feb-22	1,10	7,90	16,70	32,80	38,90
	Feb-22 to Mar-22	0,20	1,80	2,90	8,70	11,70
	Mar-22 to Apr-22	4,70	42,20	92,80	372,70	42,20
DB - 7	Jun-21 to Jul-21	0,60	2,90	5,50	12,10	14,60
	Jul-21 to Aug-21	1,60	4,90	11,20	35,10	46,80
	Aug-21 to Sep-21	2,30	14,60	18,70	34,50	43,80
	Sep-21 to Oct-21	2,30	18,50	36,50	91,60	120,60
	Oct-21 to Nov-21	2,40	7,60	11,80	17,90	19,80
	Nov-21 to Dec-21	1,30	7,30	14,30	24,90	26,10
	Dec-21 to Jan-22	1,10	9,70	27,10	85,40	114,40
	Jan-22 to Feb-22	1,10	9,10	16,50	29,80	36,00
	Feb-22 to Mar-22	0,20	0,60	2,00	9,30	9,30
	Mar-22 to Apr-22	0,50	1,60	8,40	40,40	47,10
DB - 8	Jun-21 to Jul-21	0,70	5,50	13,50	62,90	107,80
	Jul-21 to Aug-21	1,80	5,30	11,80	36,50	49,40

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Aug-21 to Sep-21	2,30	11,70	19,50	68,30	96,60
	Sep-21 to Oct-21	1,60	7,70	15,60	47,20	84,20
	Oct-21 to Nov-21	2,10	7,30	10,80	19,50	26,30
	Nov-21 to Dec-21	1,40	6,80	14,00	25,00	26,80
	Dec-21 to Jan-22	0,80	7,10	17,00	40,30	49,00
	Jan-22 to Feb-22	1,10	7,90	15,60	27,40	31,70
	Feb-22 to Mar-22	0,10	0,20	3,00	19,20	22,30
	Mar-22 to Apr-22	0,30	1,20	4,10	14,30	15,00
DB - 9	Jun-21 to Jul-21	0,60	2,10	4,60	12,00	14,40
	Jul-21 to Aug-21	2,00	14,20	19,60	57,70	107,00
	Aug-21 to Sep-21	7,90	34,30	82,40	210,70	261,90
	Sep-21 to Oct-21	1,40	8,90	24,50	72,60	88,60
	Oct-21 to Nov-21	2,60	9,30	15,10	28,90	34,50
	Nov-21 to Dec-21	1,20	6,50	14,20	33,70	43,50
	Dec-21 to Jan-22	0,90	5,30	15,40	44,20	55,90
	Jan-22 to Feb-22	1,10	8,00	14,90	24,80	27,80
	Feb-22 to Mar-22	0,10	0,40	1,60	8,50	10,30
	Mar-22 to Apr-22	0,40	1,80	6,70	10,50	40,00
DB - 10	Jun-21 to Jul-21	0,70	5,40	11,00	49,10	79,30
	Jul-21 to Aug-21	1,70	7,30	13,40	35,80	48,70
	Aug-21 to Sep-21	8,20	42,20	91,50	246,40	288,50
	Sep-21 to Oct-21	1,00	4,80	17,10	52,90	65,90
	Oct-21 to Nov-21	3,10	12,10	19,40	35,20	43,90
	Nov-21 to Dec-21	1,20	5,40	15,40	46,50	71,80
	Dec-21 to Jan-22	1,40	8,70	30,30	58,00	72,00
	Jan-22 to Feb-22	1,20	9,30	17,10	32,00	36,30
	Feb-22 to Mar-22	0,20	0,80	2,10	5,30	7,80
	Mar-22 to Apr-22	0,50	2,40	14,90	101,10	159,60
DB - 11	Jun-21 to Jul-21	2,20	23,00	35,50	79,40	98,50
	Jul-21 to Aug-21	2,10	13,00	36,30	121,90	165,60
	Aug-21 to Sep-21	7,60	29,50	58,90	149,80	200,90
	Sep-21 to Oct-21	0,70	4,60	7,30	13,00	16,10
	Oct-21 to Nov-21	2,80	14,70	21,80	43,20	55,50
	Nov-21 to Dec-21	1,20	6,60	13,80	24,40	24,40
	Dec-21 to Jan-22	1,50	6,40	21,20	92,00	175,80
	Jan-22 to Feb-22	1,10	8,00	15,90	31,10	35,00
	Feb-22 to Mar-22	0,10	0,60	2,00	7,10	9,60
	Mar-22 to Apr-22	0,30	1,60	7,80	38,00	43,30
DB - 12	Jun-21 to Jul-21	-	-	-	-	-
	Jul-21 to Aug-21	3,50	10,80	73,70	298,80	394,40
	Aug-21 to Sep-21	7,30	31,40	51,70	87,80	109,90

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Sep-21 to Oct-21	1,40	7,20	15,30	38,80	43,80
	Oct-21 to Nov-21	1,30	14,90	35,80	117,60	144,70
	Nov-21 to Dec-21	0,70	5,20	7,00	12,10	14,00
	Dec-21 to Jan-22	0,80	5,70	16,70	67,70	122,60
	Jan-22 to Feb-22	1,40	14,70	30,10	50,60	70,10
	Feb-22 to Mar-22	0,10	0,70	2,10	8,20	9,80
	Mar-22 to Apr-22	0,30	1,00	5,40	42,00	54,00
DB - 13	Jun-21 to Jul-21	59,10	1260,10	3339,30	11149,60	15194,70
	Jul-21 to Aug-21	2,50	30,80	46,10	98,10	133,30
	Aug-21 to Sep-21	5,00	98,00	174,70	438,30	516,00
	Sep-21 to Oct-21	2,20	14,00	38,10	111,90	138,40
	Oct-21 to Nov-21	2,00	13,90	33,40	79,50	90,00
	Nov-21 to Dec-21	1,10	5,80	15,90	65,80	99,70
	Dec-21 to Jan-22	2,00	7,50	15,30	22,80	28,30
	Jan-22 to Feb-22	1,20	13,60	25,60	81,40	135,00
	Feb-22 to Mar-22	1,70	7,40	15,40	52,90	72,70
	Mar-22 to Apr-22	0,30	1,40	8,60	30,40	43,10
DB - 14	Jun-21 to Jul-21	1,10	5,90	33,90	227,70	359,00
	Jul-21 to Aug-21	3,40	20,50	54,00	190,30	237,20
	Aug-21 to Sep-21	7,30	28,60	47,50	79,20	95,90
	Sep-21 to Oct-21	1,30	8,20	12,70	26,60	35,80
	Oct-21 to Nov-21	0,90	7,30	19,70	68,90	94,20
	Nov-21 to Dec-21	0,70	3,20	4,60	9,40	11,80
	Dec-21 to Jan-22	0,90	6,00	13,70	52,10	92,10
	Jan-22 to Feb-22	1,20	9,80	18,60	30,50	37,90
	Feb-22 to Mar-22	0,10	0,20	0,70	4,00	4,50
	Mar-22 to Apr-22	0,60	4,30	9,00	27,90	32,30
DB - 15	Jun-21 to Jul-21	1,80	21,00	47,60	160,90	220,70
	Jul-21 to Aug-21	1,60	5,50	8,80	17,80	22,10
	Aug-21 to Sep-21	2,20	7,30	12,00	27,60	31,30
	Sep-21 to Oct-21	2,10	13,00	29,20	73,90	85,70
	Oct-21 to Nov-21	-	-	-	-	-
	Nov-21 to Dec-21	1,10	5,50	10,30	23,20	31,90
	Dec-21 to Jan-22	1,20	9,70	22,60	46,40	52,50
	Jan-22 to Feb-22	0,90	10,00	11,30	38,10	50,10
	Feb-22 to Mar-22	0,20	3,00	4,80	14,00	17,00
	Mar-22 to Apr-22	-	-	-	-	-
DB - 16	Jun-21 to Jul-21	0,90	7,30	21,40	120,40	233,80
	Jul-21 to Aug-21	1,60	6,80	12,50	41,00	60,80
	Aug-21 to Sep-21	2,20	7,80	13,70	32,00	42,50
	Sep-21 to Oct-21	2,30	13,80	29,60	70,70	77,40

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Oct-21 to Nov-21	-	-	-	-	-
	Nov-21 to Dec-21	1,30	6,90	11,40	17,10	17,70
	Dec-21 to Jan-22	1,40	10,30	21,40	39,20	47,80
	Jan-22 to Feb-22	0,90	7,10	12,80	43,80	97,20
	Feb-22 to Mar-22	0,10	0,10	1,10	10,00	12,40
	Mar-22 to Apr-22	-	-	-	-	-
DB - 17	Jun-21 to Jul-21	102,30	0,70	1,20	6,70	46,20
	Jul-21 to Aug-21	1,40	3,20	11,50	43,70	60,40
	Aug-21 to Sep-21	2,30	7,30	12,20	24,70	30,20
	Sep-21 to Oct-21	2,50	15,40	31,60	88,50	103,90
	Oct-21 to Nov-21	-	-	-	-	-
	Nov-21 to Dec-21	-	-	-	-	-
	Dec-21 to Jan-22	1,20	9,10	18,70	43,20	52,40
	Jan-22 to Feb-22	0,80	7,20	13,70	41,20	59,70
	Feb-22 to Mar-22	0,10	0,10	0,10	27,90	46,40
	Mar-22 to Apr-22	-	-	-	-	-
DB - 18	Jun-21 to Jul-21	1,40	20,20	35,00	124,70	187,50
	Jul-21 to Aug-21	1,50	2,50	12,00	52,60	88,30
	Aug-21 to Sep-21	2,40	10,20	19,20	62,50	81,00
	Sep-21 to Oct-21	1,90	9,80	19,00	39,10	42,20
	Oct-21 to Nov-21	2,20	6,50	9,70	15,00	15,60
	Nov-21 to Dec-21	6,40	17,30	13,10	27,00	27,20
	Dec-21 to Jan-22	2,30	7,50	13,80	30,10	42,50
	Jan-22 to Feb-22	0,90	10,60	17,40	47,90	81,20
	Feb-22 to Mar-22	0,20	2,00	4,20	14,70	19,10
	Mar-22 to Apr-22	0,50	1,70	8,60	45,00	48,10
DB - 19	Jun-21 to Jul-21	0,90	11,00	19,80	75,60	142,10
	Jul-21 to Aug-21	1,30	3,40	7,70	32,90	50,20
	Aug-21 to Sep-21	2,40	7,30	13,40	36,80	51,80
	Sep-21 to Oct-21	1,90	7,80	16,20	40,80	49,40
	Oct-21 to Nov-21	2,20	7,20	10,60	17,30	20,40
	Nov-21 to Dec-21	5,50	19,40	24,20	43,80	66,60
	Dec-21 to Jan-22	2,10	6,70	13,30	35,80	65,40
	Jan-22 to Feb-22	0,70	4,70	11,00	50,70	106,80
	Feb-22 to Mar-22	0,20	0,60	1,90	9,20	10,10
	Mar-22 to Apr-22	0,20	1,50	7,90	20,00	19,00
DB - 20	Jun-21 to Jul-21	0,70	5,60	14,00	68,30	155,20
	Jul-21 to Aug-21	1,50	7,40	11,30	30,90	43,80
	Aug-21 to Sep-21	2,70	8,60	15,50	44,10	58,90
	Sep-21 to Oct-21	1,70	7,90	15,40	35,70	42,40
	Oct-21 to Nov-21	2,30	7,80	11,40	16,90	19,90

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Revision:	0.0		
Date:	March to April 2022		

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Nov-21 to Dec-21	6,00	11,20	13,60	19,40	22,40
	Dec-21 to Jan-22	1,70	6,50	12,10	27,70	38,80
	Jan-22 to Feb-22	0,80	5,10	11,50	30,50	36,10
	Feb-22 to Mar-22	0,10	0,50	1,90	6,40	7,10
	Mar-22 to Apr-22	0,60	4,00	11,00	25,00	31,00
DB - 21	Jun-21 to Jul-21	0,70	4,10	8,50	30,20	41,90
	Jul-21 to Aug-21	1,50	4,70	8,60	24,70	33,30
	Aug-21 to Sep-21	2,80	9,90	17,70	45,30	53,90
	Sep-21 to Oct-21	1,60	10,40	18,70	48,50	68,20
	Oct-21 to Nov-21	2,30	7,50	10,40	15,10	18,20
	Nov-21 to Dec-21	12,20	17,50	21,00	26,70	28,00
	Dec-21 to Jan-22	1,80	6,80	14,50	50,40	93,50
	Jan-22 to Feb-22	0,80	5,80	10,90	27,90	35,30
	Feb-22 to Mar-22	0,10	0,80	2,80	9,20	9,80
	Mar-22 to Apr-22	0,50	6,40	10,80	27,90	32,30
DB - 22	Jun-21 to Jul-21	0,70	2,60	12,00	75,60	135,40
	Jul-21 to Aug-21	1,50	8,60	12,90	27,00	33,80
	Aug-21 to Sep-21	1,60	7,80	13,50	29,90	41,60
	Sep-21 to Oct-21	2,10	7,30	10,10	13,30	14,60
	Oct-21 to Nov-21	2,10	7,30	10,10	13,30	14,60
	Nov-21 to Dec-21	12,30	17,70	20,40	26,50	27,70
	Dec-21 to Jan-22	2,40	7,80	11,80	26,50	39,50
	Jan-22 to Feb-22	0,70	4,50	9,60	21,90	25,00
	Feb-22 to Mar-22	0,20	0,70	1,50	11,10	20,00
	Mar-22 to Apr-22	0,40	1,10	3,70	11,40	15,00
DB - 23	Jun-21 to Jul-21	0,60	0,70	7,60	82,40	206,90
	Jul-21 to Aug-21	1,40	4,30	7,40	20,10	28,10
	Aug-21 to Sep-21	3,00	10,70	22,70	92,80	148,90
	Sep-21 to Oct-21	1,50	6,50	11,90	21,80	26,80
	Oct-21 to Nov-21	2,20	5,70	11,00	27,10	41,30
	Nov-21 to Dec-21	6,80	11,20	13,80	19,70	23,40
	Dec-21 to Jan-22	2,40	9,20	19,20	56,00	80,60
	Jan-22 to Feb-22	1,10	8,00	13,20	24,00	31,70
	Feb-22 to Mar-22	0,20	0,80	3,10	8,80	12,20
	Mar-22 to Apr-22	1,00	8,10	13,10	24,00	30,80
DB - 24	Jun-21 to Jul-21	4,50	85,70	126,60	321,70	410,40
	Jul-21 to Aug-21	2,80	28,60	59,00	162,00	202,10
	Aug-21 to Sep-21	2,90	5,80	35,70	125,60	137,90
	Sep-21 to Oct-21	1,70	8,60	16,80	42,30	53,30
	Oct-21 to Nov-21	2,30	6,80	10,20	14,40	16,30
	Nov-21 to Dec-21	5,90	10,40	13,90	22,80	28,30

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Revision:	0.0		
Date:	March to April 2022		

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Dec-21 to Jan-22	2,80	29,40	34,00	48,20	55,60
	Jan-22 to Feb-22	0,80	6,20	9,50	28,80	33,10
	Feb-22 to Mar-22	0,20	2,90	6,20	13,30	26,40
	Mar-22 to Apr-22	0,30	6,50	11,00	20,00	24,70
DB - 25	Jun-21 to Jul-21	0,80	2,40	10,60	93,20	219,00
	Jul-21 to Aug-21	1,60	7,50	13,90	33,50	43,40
	Aug-21 to Sep-21	3,00	9,90	33,60	115,60	143,30
	Sep-21 to Oct-21	1,50	9,20	13,20	21,90	25,60
	Oct-21 to Nov-21	2,20	7,10	9,80	15,30	16,60
	Nov-21 to Dec-21	4,50	7,80	9,90	14,70	18,40
	Dec-21 to Jan-22	1,80	7,10	11,50	24,30	32,90
	Jan-22 to Feb-22	1,10	7,00	12,20	33,70	58,80
	Feb-22 to Mar-22	0,10	2,60	4,00	13,20	18,10
	Mar-22 to Apr-22	0,30	5,40	10,90	23,20	25,00
DB - 26	Jun-21 to Jul-21	0,80	3,30	7,10	18,30	24,40
	Jul-21 to Aug-21	1,60	19,50	24,30	48,80	69,80
	Aug-21 to Sep-21	3,20	9,50	43,60	152,50	175,30
	Sep-21 to Oct-21	1,50	7,10	10,70	20,30	23,40
	Oct-21 to Nov-21	2,30	7,20	11,50	20,10	31,20
	Nov-21 to Dec-21	5,40	11,10	14,80	26,00	36,50
	Dec-21 to Jan-22	1,80	6,00	9,30	16,70	17,90
	Jan-22 to Feb-22	0,70	4,30	9,00	20,10	25,10
	Feb-22 to Mar-22	0,20	1,80	2,60	5,90	7,10
	Mar-22 to Apr-22	0,40	4,10	9,70	22,80	25,00
DB - 27	Jun-21 to Jul-21	0,80	5,10	8,60	20,30	25,90
	Jul-21 to Aug-21	1,50	6,30	10,30	20,20	23,30
	Aug-21 to Sep-21	3,00	10,40	25,30	76,20	88,60
	Sep-21 to Oct-21	1,50	7,00	10,60	17,80	21,50
	Oct-21 to Nov-21	2,30	8,10	10,90	14,80	16,70
	Nov-21 to Dec-21	6,80	11,60	13,90	17,30	20,40
	Dec-21 to Jan-22	1,70	5,20	8,00	12,30	13,50
	Jan-22 to Feb-22	1,40	15,10	32,10	51,40	71,10
	Feb-22 to Mar-22	0,20	1,10	4,10	40,90	63,10
	Mar-22 to Apr-22	0,30	1,80	9,40	20,50	50,60
DB - 28	Jun-21 to Jul-21	0,80	5,70	9,40	28,10	49,10
	Jul-21 to Aug-21	5,00	29,90	38,70	66,10	75,90
	Aug-21 to Sep-21	2,90	9,00	21,60	61,90	77,40
	Sep-21 to Oct-21	1,70	11,90	17,80	38,40	52,60
	Oct-21 to Nov-21	2,20	7,10	9,40	15,30	20,80
	Nov-21 to Dec-21	7,90	13,00	15,10	20,20	26,40
	Dec-21 to Jan-22	2,00	7,50	11,70	18,70	23,10

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Revision:	0.0		
Date:	March to April 2022		

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Jan-22 to Feb-22	0,80	5,40	10,10	38,11	50,00
	Feb-22 to Mar-22	0,50	12,50	18,10	57,70	72,40
	Mar-22 to Apr-22	0,40	1,90	14,70	25,10	40,10
DB - 29	Jun-21 to Jul-21	0,70	2,00	9,30	44,30	78,20
	Jul-21 to Aug-21	1,40	6,90	9,70	16,30	17,60
	Aug-21 to Sep-21	3,20	9,90	23,80	75,70	94,80
	Sep-21 to Oct-21	1,50	6,70	10,50	19,60	27,00
	Oct-21 to Nov-21	2,20	7,10	11,10	22,10	28,30
	Nov-21 to Dec-21	7,10	11,20	12,70	22,80	40,00
	Dec-21 to Jan-22	1,80	4,40	10,30	30,60	44,80
	Jan-22 to Feb-22	0,80	5,90	11,00	30,60	42,00
	Feb-22 to Mar-22	0,20	0,80	1,80	10,40	15,30
	Mar-22 to Apr-22	0,40	2,10	18,70	30,20	53,20
DB - 30	Jun-21 to Jul-21	1,80	31,40	37,00	63,20	79,80
	Jul-21 to Aug-21	1,50	4,40	7,80	16,00	19,10
	Aug-21 to Sep-21	3,20	13,20	28,30	79,80	102,60
	Sep-21 to Oct-21	1,60	8,20	13,70	26,60	34,60
	Oct-21 to Nov-21	2,30	8,40	12,60	24,20	28,50
	Nov-21 to Dec-21	9,00	15,90	18,40	25,90	28,90
	Dec-21 to Jan-22	1,80	5,20	10,80	32,30	50,80
	Jan-22 to Feb-22	0,80	5,70	10,80	37,40	40,00
	Feb-22 to Mar-22	0,50	14,10	19,40	48,00	65,00
	Mar-22 to Apr-22	0,50	1,70	10,20	24,70	30,20
DB - 31	Jun-21 to Jul-21	0,70	4,50	8,70	25,10	32,50
	Jul-21 to Aug-21	1,40	5,10	9,30	21,60	30,30
	Aug-21 to Sep-21	3,30	11,80	15,70	75,30	91,90
	Sep-21 to Oct-21	1,70	12,69	17,30	27,30	34,00
	Oct-21 to Nov-21	2,20	6,80	9,40	17,60	23,80
	Nov-21 to Dec-21	13,00	19,50	22,30	27,90	31,60
	Dec-21 to Jan-22	1,90	7,00	11,70	23,10	27,40
	Jan-22 to Feb-22	1,10	9,00	19,80	39,90	54,90
	Feb-22 to Mar-22	0,20	2,00	15,10	24,60	30,60
	Mar-22 to Apr-22	0,30	1,40	9,70	57,80	70,80
DB - 32	Jun-21 to Jul-21	0,70	1,80	7,50	34,60	67,30
	Jul-21 to Aug-21	1,40	4,00	7,70	16,50	21,40
	Aug-21 to Sep-21	3,10	11,20	22,50	61,90	78,50
	Sep-21 to Oct-21	1,60	8,10	12,20	21,30	26,20
	Oct-21 to Nov-21	2,20	6,90	10,10	17,60	24,40
	Nov-21 to Dec-21	9,80	15,20	18,50	25,00	26,20
	Dec-21 to Jan-22	1,90	6,00	10,10	19,10	24,70
	Jan-22 to Feb-22	1,00	8,90	24,00	35,80	37,30

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Feb-22 to Mar-22	0,90	6,90	11,90	35,40	45,20
	Mar-22 to Apr-22	0,30	1,10	13,90	35,80	35,90
DB - 33	Jun-21 to Jul-21	0,70	2,20	8,60	89,00	225,80
	Jul-21 to Aug-21	1,50	5,00	9,50	45,10	88,20
	Aug-21 to Sep-21	3,10	10,60	22,80	60,20	74,40
	Sep-21 to Oct-21	1,50	8,10	11,70	17,10	19,00
	Oct-21 to Nov-21	2,10	7,10	9,60	14,70	19,00
	Nov-21 to Dec-21	9,00	15,60	18,30	22,90	24,20
	Dec-21 to Jan-22	1,90	7,80	10,70	16,70	18,00
	Jan-22 to Feb-22	0,90	10,30	25,80	30,30	38,80
	Feb-22 to Mar-22	0,10	0,70	2,00	6,50	10,20
	Mar-22 to Apr-22	1,10	1,80	22,00	29,00	68,90
DB - 34	Jun-21 to Jul-21	0,70	2,20	7,20	39,50	90,70
	Jul-21 to Aug-21	1,40	2,80	9,00	33,20	52,30
	Aug-21 to Sep-21	3,30	11,10	22,60	58,40	83,10
	Sep-21 to Oct-21	1,70	9,60	13,90	21,80	24,30
	Oct-21 to Nov-21	2,20	6,10	9,20	15,10	17,00
	Nov-21 to Dec-21	8,90	15,80	18,50	23,70	37,20
	Dec-21 to Jan-22	1,90	5,90	9,70	17,30	20,40
	Jan-22 to Feb-22	1,30	15,00	33,40	75,60	92,80
	Feb-22 to Mar-22	0,70	2,80	6,40	30,80	40,70
	Mar-22 to Apr-22	0,30	1,30	9,60	23,20	50,40
DB - 35	Jun-21 to Jul-21	0,70	2,70	8,40	64,50	163,70
	Jul-21 to Aug-21	1,50	4,60	9,70	30,00	42,40
	Aug-21 to Sep-21	3,80	16,30	27,78	71,90	92,20
	Sep-21 to Oct-21	1,50	7,40	14,10	32,50	44,90
	Oct-21 to Nov-21	2,40	8,50	13,60	32,30	57,50
	Nov-21 to Dec-21	10,30	17,10	21,00	25,70	27,50
	Dec-21 to Jan-22	2,00	8,80	15,50	36,60	51,40
	Jan-22 to Feb-22	0,80	4,50	8,70	20,50	27,20
	Feb-22 to Mar-22	0,20	0,80	3,00	5,70	9,80
	Mar-22 to Apr-22	0,40	1,80	10,10	20,40	32,20
DB - 36	Jun-21 to Jul-21	0,80	5,80	10,80	35,70	53,50
	Jul-21 to Aug-21	1,40	3,30	7,80	30,50	52,00
	Aug-21 to Sep-21	3,40	12,20	24,50	69,00	97,30
	Sep-21 to Oct-21	1,60	8,00	12,40	21,20	24,20
	Oct-21 to Nov-21	2,40	8,50	13,60	32,20	57,50
	Nov-21 to Dec-21	10,50	19,50	23,10	30,70	32,00
	Dec-21 to Jan-22	2,00	6,60	10,40	19,10	24,60
	Jan-22 to Feb-22	0,80	7,70	11,50	30,80	38,70
	Feb-22 to Mar-22	0,50	13,40	22,00	40,10	64,10

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Mar-22 to Apr-22	0,30	1,60	7,90	18,80	36,40
DB - 37	Jun-21 to Jul-21	0,70	6,30	16,30	66,30	107,60
	Jul-21 to Aug-21	1,50	6,50	13,70	56,30	85,20
	Aug-21 to Sep-21	3,40	9,90	19,50	49,50	67,40
	Sep-21 to Oct-21	1,70	8,60	13,20	20,40	22,30
	Oct-21 to Nov-21	2,10	7,30	9,70	14,70	22,10
	Nov-21 to Dec-21	8,30	13,50	16,30	20,70	21,30
	Dec-21 to Jan-22	2,30	8,70	15,70	52,20	86,10
	Jan-22 to Feb-22	0,90	7,80	15,60	31,20	41,10
	Feb-22 to Mar-22	0,10	0,60	3,10	13,30	20,10
	Mar-22 to Apr-22	0,40	2,20	20,00	20,10	40,70
DB - 38	Jun-21 to Jul-21	0,70	3,60	8,30	31,70	64,40
	Jul-21 to Aug-21	1,40	1,40	1,40	169,20	558,10
	Aug-21 to Sep-21	3,40	10,60	20,40	53,20	69,20
	Sep-21 to Oct-21	1,50	7,30	14,50	38,80	62,20
	Oct-21 to Nov-21	2,30	8,20	11,60	16,90	20,00
	Nov-21 to Dec-21	9,30	15,00	18,00	26,60	34,00
	Dec-21 to Jan-22	2,20	6,80	12,40	31,50	49,30
	Jan-22 to Feb-22	0,80	4,70	11,70	28,80	36,60
	Feb-22 to Mar-22	0,20	0,90	2,20	8,90	24,00
	Mar-22 to Apr-22	0,40	1,90	19,60	24,50	34,60
DB - 39	Jun-21 to Jul-21	1,30	11,50	19,60	69,90	130,90
	Jul-21 to Aug-21	1,70	8,10	15,90	56,80	80,80
	Aug-21 to Sep-21	3,30	10,90	23,10	68,20	89,70
	Sep-21 to Oct-21	1,60	7,20	17,60	41,40	51,90
	Oct-21 to Nov-21	2,20	7,90	10,70	14,40	18,80
	Nov-21 to Dec-21	7,60	12,70	15,50	22,90	29,60
	Dec-21 to Jan-22	2,50	5,60	15,40	62,00	121,30
	Jan-22 to Feb-22	0,80	5,00	12,10	30,60	41,10
	Feb-22 to Mar-22	0,10	2,80	5,90	12,90	17,40
	Mar-22 to Apr-22	0,30	2,40	15,40	23,80	54,00
DB - 40	Jun-21 to Jul-21	1,40	18,00	27,40	95,20	170,40
	Jul-21 to Aug-21	1,70	9,20	21,10	69,60	93,60
	Aug-21 to Sep-21	3,80	13,60	24,70	69,90	95,80
	Sep-21 to Oct-21	1,60	2,50	14,50	29,70	34,60
	Oct-21 to Nov-21	2,40	7,00	9,80	13,90	13,90
	Nov-21 to Dec-21	9,70	22,60	25,80	34,10	39,00
	Dec-21 to Jan-22	2,50	8,50	13,00	31,40	41,30
	Jan-22 to Feb-22	0,80	6,00	11,10	24,30	30,50
	Feb-22 to Mar-22	0,10	1,20	2,70	8,50	11,70
	Mar-22 to Apr-22	0,30	2,90	16,70	25,70	46,20

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
DB - 41	Jun-21 to Jul-21	0,80	3,10	7,60	27,80	53,10
	Jul-21 to Aug-21	1,70	9,50	16,50	46,10	59,00
	Aug-21 to Sep-21	4,10	17,50	28,80	79,30	110,80
	Sep-21 to Oct-21	1,70	9,00	14,00	19,90	31,00
	Oct-21 to Nov-21	2,20	7,60	10,30	15,30	19,00
	Nov-21 to Dec-21	8,80	16,30	19,60	31,20	49,70
	Dec-21 to Jan-22	3,10	11,00	19,90	52,60	72,30
	Jan-22 to Feb-22	1,50	15,30	24,90	41,40	44,50
	Feb-22 to Mar-22	0,20	3,10	5,90	23,70	18,00
	Mar-22 to Apr-22	0,40	4,00	16,80	28,00	44,90
DB - 42	Jun-21 to Jul-21	1,00	9,40	15,00	46,80	83,10
	Jul-21 to Aug-21	1,50	4,00	9,70	38,40	60,60
	Aug-21 to Sep-21	3,60	11,80	20,80	46,00	60,80
	Sep-21 to Oct-21	1,60	8,00	13,00	24,40	31,20
	Oct-21 to Nov-21	2,20	8,30	11,90	21,50	28,90
	Nov-21 to Dec-21	6,90	10,80	14,20	26,50	35,70
	Dec-21 to Jan-22	2,20	7,50	14,60	41,10	50,90
	Jan-22 to Feb-22	0,70	4,40	9,00	23,30	33,10
	Feb-22 to Mar-22	0,10	2,30	4,00	5,80	10,00
	Mar-22 to Apr-22	0,40	5,20	15,10	30,20	39,30
DB - 43	Jun-21 to Jul-21	0,80	4,40	12,80	69,90	149,50
	Jul-21 to Aug-21	1,60	6,90	14,00	43,80	61,10
	Aug-21 to Sep-21	4,40	22,10	33,00	60,70	68,10
	Sep-21 to Oct-21	16,00	9,70	15,60	25,60	34,80
	Oct-21 to Nov-21	2,20	7,10	10,90	20,80	25,10
	Nov-21 to Dec-21	6,10	10,80	13,30	15,80	17,00
	Dec-21 to Jan-22	2,40	6,50	13,10	34,90	47,30
	Jan-22 to Feb-22	0,80	4,80	11,40	51,30	111,20
	Feb-22 to Mar-22	0,20	0,80	2,10	5,70	12,10
	Mar-22 to Apr-22	0,30	1,20	4,90	15,10	15,80
DB - 44	Jun-21 to Jul-21	0,80	4,30	12,60	47,70	71,70
	Jul-21 to Aug-21	2,20	9,90	34,90	177,90	343,70
	Aug-21 to Sep-21	3,50	9,90	17,70	41,90	53,60
	Sep-21 to Oct-21	1,60	9,00	15,40	30,50	36,10
	Oct-21 to Nov-21	2,20	6,40	8,80	13,80	19,40
	Nov-21 to Dec-21	10,80	18,10	21,20	27,80	27,80
	Dec-21 to Jan-22	3,20	16,90	22,40	49,00	106,20
	Jan-22 to Feb-22	1,00	9,80	13,90	26,90	30,60
	Feb-22 to Mar-22	0,40	6,30	8,80	27,40	37,30
	Mar-22 to Apr-22	0,30	1,20	10,50	20,50	30,80
DB - 45	Jun-21 to Jul-21	0,70	4,00	11,60	37,70	56,20

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Jul-21 to Aug-21	2,30	21,90	30,20	69,80	100,60
	Aug-21 to Sep-21	3,50	12,10	19,90	43,90	50,00
	Sep-21 to Oct-21	1,80	11,70	18,00	29,30	37,30
	Oct-21 to Nov-21	2,30	7,20	11,10	23,90	39,30
	Nov-21 to Dec-21	8,30	15,70	18,70	23,50	26,60
	Dec-21 to Jan-22	3,00	6,90	14,00	59,20	110,50
	Jan-22 to Feb-22	1,00	4,30	9,00	29,00	51,20
	Feb-22 to Mar-22	0,10	1,10	2,50	8,80	11,90
	Mar-22 to Apr-22	0,40	1,40	9,80	23,00	42,30
DB - 46	Jun-21 to Jul-21	2,20	48,10	64,80	145,50	212,60
	Jul-21 to Aug-21	1,70	1,70	23,00	156,30	197,60
	Aug-21 to Sep-21	3,50	12,50	20,00	45,90	54,00
	Sep-21 to Oct-21	1,90	10,40	16,90	34,30	46,60
	Oct-21 to Nov-21	2,30	7,00	9,90	16,80	19,30
	Nov-21 to Dec-21	6,30	12,30	15,40	21,00	21,60
	Dec-21 to Jan-22	3,00	7,60	10,60	17,60	18,90
	Jan-22 to Feb-22	0,90	3,30	10,00	42,60	74,60
	Feb-22 to Mar-22	0,10	0,10	1,00	15,10	19,40
	Mar-22 to Apr-22	0,40	2,80	9,90	20,70	38,70
DB - 47	Jun-21 to Jul-21	0,80	6,60	11,90	33,20	44,90
	Jul-21 to Aug-21	1,80	1,80	35,00	169,40	200,20
	Aug-21 to Sep-21	3,50	10,90	19,30	48,40	60,70
	Sep-21 to Oct-21	1,80	10,10	14,40	22,70	24,50
	Oct-21 to Nov-21	2,20	7,30	11,50	24,90	5,80
	Nov-21 to Dec-21	7,80	13,00	15,90	21,50	24,00
	Dec-21 to Jan-22	2,50	6,10	12,40	15,10	42,00
	Jan-22 to Feb-22	1,10	4,80	11,30	34,60	46,00
	Feb-22 to Mar-22	0,20	1,30	2,80	9,00	12,00
	Mar-22 to Apr-22	0,40	2,30	10,10	21,00	24,70
DB - 48	Jun-21 to Jul-21	1,00	21,00	30,40	71,90	107,00
	Jul-21 to Aug-21	1,80	5,90	18,00	61,00	77,00
	Aug-21 to Sep-21	3,50	10,30	17,80	42,20	52,10
	Sep-21 to Oct-21	2,00	15,00	23,20	59,00	78,70
	Oct-21 to Nov-21	2,20	6,50	9,30	23,10	38,50
	Nov-21 to Dec-21	5,20	12,00	15,60	22,30	24,20
	Dec-21 to Jan-22	2,90	9,70	16,00	46,50	74,30
	Jan-22 to Feb-22	1,00	4,60	10,20	32,00	50,50
	Feb-22 to Mar-22	0,10	0,20	0,20	21,80	60,10
	Mar-22 to Apr-22	0,30	2,00	9,80	25,00	27,90
DB - 49	Jun-21 to Jul-21	0,80	9,60	14,40	31,20	39,80
	Jul-21 to Aug-21	1,80	6,90	15,60	48,40	66,20

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Aug-21 to Sep-21	3,50	11,70	19,80	46,10	56,60
	Sep-21 to Oct-21	1,90	8,10	15,00	34,30	52,80
	Oct-21 to Nov-21	2,30	7,10	10,00	14,50	17,00
	Nov-21 to Dec-21	8,60	14,50	19,80	42,60	67,90
	Dec-21 to Jan-22	3,00	8,90	15,20	39,50	41,40
	Jan-22 to Feb-22	0,90	5,30	10,20	24,10	30,60
	Feb-22 to Mar-22	0,10	1,20	2,40	7,90	11,50
	Mar-22 to Apr-22	0,30	2,70	7,40	27,00	31,10
DB - 50	Jun-21 to Jul-21	2,20	46,30	63,70	141,30	223,90
	Jul-21 to Aug-21	2,00	9,20	24,40	76,30	96,60
	Aug-21 to Sep-21	3,40	12,00	19,50	44,10	52,70
	Sep-21 to Oct-21	2,00	12,20	19,20	31,60	35,30
	Oct-21 to Nov-21	2,30	7,00	10,50	17,80	13,40
	Nov-21 to Dec-21	5,90	15,40	18,20	30,40	43,30
	Dec-21 to Jan-22	3,00	9,50	14,20	24,90	26,80
	Jan-22 to Feb-22	1,30	6,80	12,40	40,30	38,90
	Feb-22 to Mar-22	0,20	0,40	1,30	8,10	10,50
	Mar-22 to Apr-22	0,30	1,90	7,30	24,30	28,90
DB - 51	Jun-21 to Jul-21	0,80	6,70	17,00	62,90	93,70
	Jul-21 to Aug-21	1,70	4,40	13,80	46,00	66,90
	Aug-21 to Sep-21	1,90	11,30	18,30	30,50	34,20
	Sep-21 to Oct-21	2,20	7,30	10,20	13,10	16,80
	Oct-21 to Nov-21	2,20	7,30	10,20	13,10	16,80
	Nov-21 to Dec-21	3,90	9,00	11,70	16,30	18,70
	Dec-21 to Jan-22	2,80	12,90	17,10	32,90	47,10
	Jan-22 to Feb-22	0,90	3,80	8,50	22,00	31,90
	Feb-22 to Mar-22	0,20	2,40	4,40	15,70	30,10
	Mar-22 to Apr-22	0,30	1,80	6,50	22,20	23,70
DB - 52	Jun-21 to Jul-21	0,80	8,10	12,90	49,10	102,10
	Jul-21 to Aug-21	1,60	4,10	17,70	53,30	614,00
	Aug-21 to Sep-21	3,50	10,50	19,60	46,60	73,80
	Sep-21 to Oct-21	2,00	10,30	17,60	27,90	31,60
	Oct-21 to Nov-21	2,30	7,40	10,90	20,80	26,40
	Nov-21 to Dec-21	3,70	14,50	18,40	27,60	35,00
	Dec-21 to Jan-22	2,70	7,30	15,00	49,50	84,60
	Jan-22 to Feb-22	1,00	3,90	9,80	25,00	26,30
	Feb-22 to Mar-22	0,10	0,20	5,00	12,30	30,40
	Mar-22 to Apr-22	0,30	1,70	8,10	21,90	30,10
DB - 53	Jun-21 to Jul-21	0,60	3,30	7,40	20,20	30,10
	Jul-21 to Aug-21	2,60	19,90	28,40	58,70	69,80
	Aug-21 to Sep-21	3,50	10,60	17,90	44,00	57,50

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Sep-21 to Oct-21	1,80	11,00	19,00	37,10	50,70
	Oct-21 to Nov-21	2,10	5,30	12,60	38,70	59,60
	Nov-21 to Dec-21	3,10	7,30	10,80	17,90	22,20
	Dec-21 to Jan-22	2,60	7,80	12,30	25,80	40,60
	Jan-22 to Feb-22	0,90	4,90	9,90	23,80	28,70
	Feb-22 to Mar-22	0,10	0,60	2,00	5,20	8,70
	Mar-22 to Apr-22	0,40	1,50	6,20	22,70	28,30
DB - 54	Jun-21 to Jul-21	0,60	0,60	8,90	100,00	190,60
	Jul-21 to Aug-21	1,50	1,50	9,10	145,40	177,40
	Aug-21 to Sep-21	3,40	10,40	17,70	45,90	50,80
	Sep-21 to Oct-21	1,80	12,70	19,50	32,00	36,30
	Oct-21 to Nov-21	2,30	10,10	13,80	24,40	27,50
	Nov-21 to Dec-21	5,10	10,20	13,00	19,30	22,40
	Dec-21 to Jan-22	3,50	29,90	35,40	56,50	68,20
	Jan-22 to Feb-22	0,90	3,90	9,20	21,30	25,70
	Feb-22 to Mar-22	0,20	1,90	6,70	14,50	28,10
	Mar-22 to Apr-22	0,40	1,80	5,00	25,90	30,00
DB - 55	Jun-21 to Jul-21	0,90	8,90	19,50	70,50	101,30
	Jul-21 to Aug-21	2,70	26,30	57,40	162,30	206,60
	Aug-21 to Sep-21	3,40	12,00	19,60	44,90	57,30
	Sep-21 to Oct-21	2,00	15,50	26,10	59,80	82,60
	Oct-21 to Nov-21	2,20	7,00	10,10	14,60	15,80
	Nov-21 to Dec-21	5,40	10,40	14,30	21,40	25,10
	Dec-21 to Jan-22	3,20	10,50	17,90	41,30	54,20
	Jan-22 to Feb-22	0,90	4,60	9,50	23,10	30,00
	Feb-22 to Mar-22	0,20	1,10	4,10	10,40	22,80
	Mar-22 to Apr-22	0,30	1,70	8,50	24,10	27,50
DB - 56	Jun-21 to Jul-21	6,50	181,40	207,40	306,70	349,20
	Jul-21 to Aug-21	1,50	6,70	11,80	30,60	34,90
	Aug-21 to Sep-21	3,50	11,70	18,40	35,30	41,50
	Sep-21 to Oct-21	1,80	10,20	19,50	38,30	49,40
	Oct-21 to Nov-21	2,20	6,80	9,80	14,00	16,50
	Nov-21 to Dec-21	3,50	8,60	11,70	25,50	53,90
	Dec-21 to Jan-22	3,20	6,00	9,80	20,30	25,90
	Jan-22 to Feb-22	0,90	4,80	9,10	20,50	28,60
	Feb-22 to Mar-22	0,10	0,20	2,50	6,50	22,20
	Mar-22 to Apr-22	0,30	1,90	8,40	19,40	20,10
DB - 57	Jun-21 to Jul-21	0,70	4,00	12,30	42,00	64,20
	Jul-21 to Aug-21	1,40	4,30	9,30	21,10	29,70
	Aug-21 to Sep-21	3,50	10,80	17,50	35,50	46,60
	Sep-21 to Oct-21	1,80	11,40	18,90	26,70	27,30

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Oct-21 to Nov-21	2,30	10,80	14,20	20,80	23,90
	Nov-21 to Dec-21	4,80	10,40	13,00	17,70	25,10
	Dec-21 to Jan-22	3,20	5,90	10,10	31,70	58,80
	Jan-22 to Feb-22	0,90	4,80	9,70	21,20	23,00
	Feb-22 to Mar-22	0,20	3,10	5,50	21,40	23,00
	Mar-22 to Apr-22	0,50	1,40	10,10	30,40	32,00
DB - 58	Jun-21 to Jul-21	3,10	67,50	133,10	311,60	388,70
	Jul-21 to Aug-21	4,60	43,70	144,50	393,40	467,40
	Aug-21 to Sep-21	3,20	40,10	78,50	241,60	327,90
	Sep-21 to Oct-21	2,00	12,80	20,90	39,50	48,20
	Oct-21 to Nov-21	2,20	6,80	10,10	15,90	19,60
	Nov-21 to Dec-21	4,90	8,40	10,40	12,70	17,70
	Dec-21 to Jan-22	2,30	7,10	10,90	19,70	20,40
	Jan-22 to Feb-22	0,90	6,30	11,50	28,10	37,30
	Feb-22 to Mar-22	0,20	1,00	2,90	7,40	7,80
	Mar-22 to Apr-22	0,30	1,40	10,50	25,80	27,70
DB - 59	Jun-21 to Jul-21	0,90	10,90	28,30	103,00	157,30
	Jul-21 to Aug-21	2,30	11,40	19,80	46,00	57,70
	Aug-21 to Sep-21	3,80	52,90	87,70	302,00	474,30
	Sep-21 to Oct-21	1,90	11,00	17,30	25,30	31,40
	Oct-21 to Nov-21	2,20	6,90	16,90	42,80	53,90
	Nov-21 to Dec-21	3,80	7,40	9,30	17,90	24,70
	Dec-21 to Jan-22	2,20	7,80	14,80	39,10	56,90
	Jan-22 to Feb-22	0,80	4,50	8,90	25,60	36,70
	Feb-22 to Mar-22	0,20	0,70	1,70	5,90	6,50
	Mar-22 to Apr-22	0,30	1,50	7,50	20,10	22,60
DB - 60	Jun-21 to Jul-21	0,50	2,20	9,60	35,00	48,60
	Jul-21 to Aug-21	2,30	10,00	17,40	36,10	42,20
	Aug-21 to Sep-21	2,40	12,70	37,60	361,00	704,60
	Sep-21 to Oct-21	1,90	11,90	18,50	25,60	28,00
	Oct-21 to Nov-21	1,10	6,30	14,30	34,50	41,90
	Nov-21 to Dec-21	4,10	9,90	11,60	23,10	39,70
	Dec-21 to Jan-22	2,00	4,70	10,10	26,90	42,90
	Jan-22 to Feb-22	0,90	5,80	11,00	23,70	26,80
	Feb-22 to Mar-22	0,10	0,80	1,60	5,70	6,30
	Mar-22 to Apr-22	0,40	1,60	5,80	21,30	25,60
DB - 61	Jun-21 to Jul-21	1,90	41,20	66,70	214,70	360,80
	Jul-21 to Aug-21	2,20	7,80	15,30	32,90	36,00
	Aug-21 to Sep-21	2,30	10,80	29,00	90,80	124,10
	Sep-21 to Oct-21	1,90	11,20	18,90	29,50	33,80
	Oct-21 to Nov-21	1,00	4,80	15,20	48,60	66,40

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Nov-21 to Dec-21	2,00	4,80	7,30	16,70	23,50
	Dec-21 to Jan-22	2,80	7,10	10,30	20,40	30,00
	Jan-22 to Feb-22	0,80	5,10	9,50	20,30	26,50
	Feb-22 to Mar-22	0,10	0,60	1,80	5,20	6,40
	Mar-22 to Apr-22	0,40	1,50	11,00	29,70	38,70
DB - 62	Jun-21 to Jul-21	4,90	135,00	170,20	270,70	324,90
	Jul-21 to Aug-21	2,20	7,20	18,60	54,40	78,30
	Aug-21 to Sep-21	2,50	13,70	23,00	93,70	154,70
	Sep-21 to Oct-21	1,90	12,00	19,80	29,90	34,30
	Oct-21 to Nov-21	2,30	7,30	9,40	21,00	57,00
	Nov-21 to Dec-21	2,20	9,40	13,40	33,50	64,90
	Dec-21 to Jan-22	3,50	8,00	11,40	19,20	25,90
	Jan-22 to Feb-22	0,90	5,60	9,90	22,10	32,00
	Feb-22 to Mar-22	0,40	3,50	5,50	23,00	26,70
	Mar-22 to Apr-22	0,40	1,10	4,70	28,70	35,00
DB - 63	Jun-21 to Jul-21	1,30	28,20	48,10	120,50	166,80
	Jul-21 to Aug-21	2,50	2,50	39,90	739,30	1291,60
	Aug-21 to Sep-21	2,40	14,50	23,60	92,40	163,30
	Sep-21 to Oct-21	1,80	12,90	19,90	28,10	30,00
	Oct-21 to Nov-21	2,20	6,00	11,80	28,00	40,40
	Nov-21 to Dec-21	2,30	6,00	8,40	28,00	50,20
	Dec-21 to Jan-22	3,50	6,90	12,20	38,30	73,40
	Jan-22 to Feb-22	0,90	4,50	9,00	18,60	21,00
	Feb-22 to Mar-22	0,20	0,80	2,00	6,90	8,70
	Mar-22 to Apr-22	0,50	1,00	10,10	27,10	33,80
DB - 64	Jun-21 to Jul-21	0,60	2,10	7,90	29,70	45,70
	Jul-21 to Aug-21	2,60	15,60	37,70	152,40	227,00
	Aug-21 to Sep-21	2,10	10,60	18,10	59,10	86,20
	Sep-21 to Oct-21	1,80	12,30	21,80	35,90	42,00
	Oct-21 to Nov-21	2,30	15,10	27,20	64,00	89,30
	Nov-21 to Dec-21	2,50	6,80	10,40	30,20	56,10
	Dec-21 to Jan-22	3,70	8,00	11,20	19,90	22,30
	Jan-22 to Feb-22	0,90	4,60	9,00	24,40	32,50
	Feb-22 to Mar-22	0,30	2,30	4,80	14,80	22,20
	Mar-22 to Apr-22	0,40	1,10	8,70	22,90	29,90
DB - 65	Jun-21 to Jul-21	1,30	22,10	42,50	124,90	155,70
	Jul-21 to Aug-21	2,70	18,50	44,50	110,20	126,80
	Aug-21 to Sep-21	2,20	10,50	18,60	44,30	62,10
	Sep-21 to Oct-21	1,90	12,30	21,10	30,40	32,80
	Oct-21 to Nov-21	2,10	4,40	10,10	27,50	36,80
	Nov-21 to Dec-21	2,10	5,00	6,50	9,80	11,00

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Dec-21 to Jan-22	3,50	7,80	11,00	18,20	20,00
	Jan-22 to Feb-22	0,80	4,10	9,20	24,30	32,90
	Feb-22 to Mar-22	0,20	0,50	3,00	17,80	21,50
	Mar-22 to Apr-22	0,30	1,10	6,50	30,00	57,00
DB - 66	Jun-21 to Jul-21	2,60	66,40	150,80	520,20	746,40
	Jul-21 to Aug-21	4,00	41,50	84,00	191,30	218,40
	Aug-21 to Sep-21	2,50	17,40	30,40	68,80	87,30
	Sep-21 to Oct-21	1,80	13,40	21,80	31,40	33,30
	Oct-21 to Nov-21	2,40	4,60	10,70	29,20	38,50
	Nov-21 to Dec-21	2,80	6,70	10,20	43,10	66,50
	Dec-21 to Jan-22	4,10	9,60	20,10	47,30	69,10
	Jan-22 to Feb-22	0,90	5,20	10,30	27,30	34,70
	Feb-22 to Mar-22	0,50	11,40	15,50	43,90	56,80
	Mar-22 to Apr-22	0,30	1,30	6,50	17,50	25,10
DB - 67	Jun-21 to Jul-21	0,60	3,20	13,80	57,50	82,20
	Jul-21 to Aug-21	1,80	5,10	13,60	58,70	102,50
	Aug-21 to Sep-21	2,40	12,60	24,80	66,90	89,70
	Sep-21 to Oct-21	1,80	13,00	21,10	34,50	38,80
	Oct-21 to Nov-21	2,20	5,40	11,30	25,00	32,40
	Nov-21 to Dec-21	2,20	5,00	8,20	33,30	61,10
	Dec-21 to Jan-22	3,50	7,70	10,40	17,30	18,50
	Jan-22 to Feb-22	0,80	3,30	9,20	36,90	77,00
	Feb-22 to Mar-22	0,40	1,70	8,50	56,80	78,40
	Mar-22 to Apr-22	0,30	1,40	7,80	26,10	36,20
DB - 68	Jun-21 to Jul-21	1,70	27,60	137,10	731,40	936,60
	Jul-21 to Aug-21	1,87	8,20	21,80	63,70	82,20
	Aug-21 to Sep-21	2,50	12,00	29,80	105,10	153,80
	Sep-21 to Oct-21	1,70	12,30	21,60	33,60	37,90
	Oct-21 to Nov-21	2,20	4,60	9,80	26,40	38,80
	Nov-21 to Dec-21	2,60	5,90	7,50	9,50	12,60
	Dec-21 to Jan-22	3,50	8,20	11,70	20,80	26,40
	Jan-22 to Feb-22	0,90	3,00	11,20	57,90	120,20
	Feb-22 to Mar-22	0,30	1,30	3,80	14,90	22,90
	Mar-22 to Apr-22	0,50	1,20	5,80	30,10	36,70
DB - 69	Jun-21 to Jul-21	0,40	2,50	6,70	25,00	32,30
	Jul-21 to Aug-21	1,70	9,10	14,90	33,80	46,80
	Aug-21 to Sep-21	2,70	16,30	31,60	89,80	128,00
	Sep-21 to Oct-21	1,90	17,90	28,30	50,50	60,90
	Oct-21 to Nov-21	2,30	4,30	10,40	27,70	32,70
	Nov-21 to Dec-21	3,20	8,90	12,50	29,80	49,50
	Dec-21 to Jan-22	3,80	6,10	11,10	15,50	18,60

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Jan-22 to Feb-22	1,00	7,40	15,60	51,50	82,30
	Feb-22 to Mar-22	0,60	1,80	7,70	43,50	58,90
	Mar-22 to Apr-22	0,20	1,30	11,20	18,70	34,00
DB - 70	Jun-21 to Jul-21	0,70	4,70	28,90	151,90	212,90
	Jul-21 to Aug-21	1,90	2,50	25,10	56,40	77,30
	Aug-21 to Sep-21	2,70	13,50	30,00	97,00	137,70
	Sep-21 to Oct-21	1,70	12,30	20,60	26,20	28,10
	Oct-21 to Nov-21	2,10	5,20	11,40	29,00	34,50
	Nov-21 to Dec-21	2,70	9,30	13,60	40,10	69,10
	Dec-21 to Jan-22	4,00	5,70	12,20	15,70	17,30
	Jan-22 to Feb-22	0,90	5,60	12,30	31,50	43,20
	Feb-22 to Mar-22	0,30	3,90	6,20	20,50	22,90
	Mar-22 to Apr-22	0,20	1,20	8,70	26,30	30,10
DB - 71	Jun-21 to Jul-21	1,60	31,10	73,50	356,30	641,10
	Jul-21 to Aug-21	3,40	40,00	63,10	138,70	173,20
	Aug-21 to Sep-21	2,90	15,10	30,00	82,10	128,00
	Sep-21 to Oct-21	1,70	10,30	19,00	35,30	40,00
	Oct-21 to Nov-21	2,30	5,90	11,40	26,70	36,60
	Nov-21 to Dec-21	2,80	5,90	7,90	13,50	14,10
	Dec-21 to Jan-22	4,20	9,80	25,60	49,60	73,20
	Jan-22 to Feb-22	1,00	4,70	10,10	25,20	29,20
	Feb-22 to Mar-22	0,70	1,38	8,40	38,00	52,20
	Mar-22 to Apr-22	0,30	2,80	7,80	30,10	47,00
DB - 72	Jun-21 to Jul-21	5,60	184,00	262,80	688,40	966,40
	Jul-21 to Aug-21	3,40	47,40	64,60	160,40	220,80
	Aug-21 to Sep-21	3,60	11,00	18,10	38,60	52,10
	Sep-21 to Oct-21	1,70	10,60	16,70	22,30	26,00
	Oct-21 to Nov-21	2,30	4,00	9,80	28,50	32,80
	Nov-21 to Dec-21	2,50	6,10	8,70	22,20	38,80
	Dec-21 to Jan-22	3,70	7,90	11,20	18,70	21,80
	Jan-22 to Feb-22	0,90	4,30	9,10	25,50	34,70
	Feb-22 to Mar-22	0,30	1,20	4,90	25,00	29,90
	Mar-22 to Apr-22	0,40	2,40	13,20	28,70	38,90
DB - 73	Jun-21 to Jul-21	4,10	46,70	228,60	1007,20	1384,40
	Jul-21 to Aug-21	2,10	9,50	43,30	250,20	447,40
	Aug-21 to Sep-21	3,40	11,50	18,20	32,10	38,90
	Sep-21 to Oct-21	1,50	9,50	17,40	26,60	30,30
	Oct-21 to Nov-21	2,10	4,70	10,50	27,90	35,30
	Nov-21 to Dec-21	2,70	6,50	8,70	22,20	29,60
	Dec-21 to Jan-22	3,60	8,20	12,30	27,80	42,60
	Jan-22 to Feb-22	0,90	4,60	9,70	25,60	30,60

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Feb-22 to Mar-22	0,90	20,50	22,20	33,30	35,80
	Mar-22 to Apr-22	0,10	1,80	9,00	30,00	41,40
DB - 74	Jun-21 to Jul-21	0,50	2,50	12,30	111,90	188,30
	Jul-21 to Aug-21	4,00	184,80	190,10	222,80	247,50
	Aug-21 to Sep-21	3,50	10,90	17,40	36,00	42,70
	Sep-21 to Oct-21	1,80	15,10	28,40	64,80	74,60
	Oct-21 to Nov-21	2,20	4,80	11,60	31,10	41,00
	Nov-21 to Dec-21	3,20	6,10	8,70	21,00	31,50
	Dec-21 to Jan-22	3,50	7,30	9,90	17,80	18,40
	Jan-22 to Feb-22	0,90	4,50	10,00	29,50	38,70
	Feb-22 to Mar-22	0,60	2,00	9,30	47,70	60,10
	Mar-22 to Apr-22	0,30	1,40	10,10	27,80	31,10
	Jun-21 to Jul-21	0,50	1,50	11,40	46,30	70,30
	Jul-21 to Aug-21	1,50	4,00	11,70	32,80	43,90
DB - 75	Aug-21 to Sep-21	3,70	16,70	28,00	66,60	103.6
	Sep-21 to Oct-21	1,70	14,20	21,50	34,20	39,10
	Oct-21 to Nov-21	2,20	4,40	11,50	31,10	40,40
	Nov-21 to Dec-21	3,60	6,80	9,60	26,70	45,20
	Dec-21 to Jan-22	2,50	4,90	11,50	22,70	30,40
	Jan-22 to Feb-22	1,00	4,70	9,90	28,60	34,80
	Feb-22 to Mar-22	0,40	1,80	8,70	53,40	75,30
	Mar-22 to Apr-22	0,50	1,20	10,80	29,10	35,60
	Jun-21 to Jul-21	5,40	83,90	95,00	122,70	136,80
	Jul-21 to Aug-21	1,50	2,20	21,30	74,90	103,90
	Aug-21 to Sep-21	4,00	15,50	32,50	76,50	86,90
	Sep-21 to Oct-21	1,60	11,60	21,50	33,70	34,90
DB - 76	Oct-21 to Nov-21	2,10	4,70	11,30	30,90	40,70
	Nov-21 to Dec-21	3,40	7,70	13,30	17,90	27,40
	Dec-21 to Jan-22	3,90	10,10	22,70	50,40	56,90
	Jan-22 to Feb-22	0,80	4,10	9,40	36,30	49,30
	Feb-22 to Mar-22	0,20	1,10	2,20	6,30	7,80
	Mar-22 to Apr-22	0,40	1,20	9,70	24,90	27,00
	Jun-21 to Jul-21	4,40	94,00	165,90	421,40	544,10
	Jul-21 to Aug-21	2,30	6,40	10,70	26,20	36,70
	Aug-21 to Sep-21	1,70	9,30	15,30	35,80	46,20
	Sep-21 to Oct-21	0,50	2,50	4,50	14,50	22,50
DB - 77	Oct-21 to Nov-21	1,10	6,40	16,00	37,00	48,70
	Nov-21 to Dec-21	0,90	3,10	5,30	14,90	19,30
	Dec-21 to Jan-22	3,00	12,80	16,00	24,90	41,70
	Jan-22 to Feb-22	1,00	6,20	12,10	38,90	57,40
	Feb-22 to Mar-22	0,40	1,70	5,50	22,80	28,90
	Jun-21 to Jul-21	4,40	94,00	165,90	421,40	544,10
	Jul-21 to Aug-21	2,30	6,40	10,70	26,20	36,70
	Aug-21 to Sep-21	1,70	9,30	15,30	35,80	46,20

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Mar-22 to Apr-22	0,10	1,30	12,00	25,30	29,30
DB - 78	Jun-21 to Jul-21	3,60	89,80	124,10	280,10	412,00
	Jul-21 to Aug-21	2,40	6,90	13,90	58,10	135,70
	Aug-21 to Sep-21	1,80	6,90	12,50	35,00	44,80
	Sep-21 to Oct-21	0,60	1,80	3,60	9,80	11,00
	Oct-21 to Nov-21	1,10	6,10	14,40	32,90	37,30
	Nov-21 to Dec-21	0,90	4,10	6,30	16,60	23,40
	Dec-21 to Jan-22	3,50	7,90	10,80	18,20	22,50
	Jan-22 to Feb-22	0,90	4,90	10,00	27,30	40,20
	Feb-22 to Mar-22	0,30	0,90	3,00	8,70	13,00
	Mar-22 to Apr-22	0,20	1,20	10,30	26,80	27,00
DB - 79	Jun-21 to Jul-21	2,50	27,80	34,30	54,90	65,40
	Jul-21 to Aug-21	2,20	11,90	26,70	216,70	474,90
	Aug-21 to Sep-21	3,00	97,10	103,60	144,30	195,50
	Sep-21 to Oct-21	0,60	2,00	3,40	7,50	11,20
	Oct-21 to Nov-21	1,30	6,50	14,90	39,40	49,90
	Nov-21 to Dec-21	1,10	8,40	10,10	16,00	20,30
	Dec-21 to Jan-22	3,40	7,20	10,00	15,60	17,40
	Jan-22 to Feb-22	1,00	4,00	12,00	61,90	120,50
	Feb-22 to Mar-22	0,30	0,90	2,70	9,30	11,70
	Mar-22 to Apr-22	0,10	2,40	11,40	30,20	40,70
DB - 80	Jun-21 to Jul-21	1,90	10,80	17,00	33,20	40,00
	Jul-21 to Aug-21	2,30	12,10	21,50	64,40	117,40
	Aug-21 to Sep-21	2,70	17,70	26,10	52,40	64,10
	Sep-21 to Oct-21	0,50	0,50	6,20	49,70	77,40
	Oct-21 to Nov-21	1,80	16,10	27,20	63,20	76,70
	Nov-21 to Dec-21	1,10	5,80	7,70	13,20	14,40
	Dec-21 to Jan-22	0,90	4,80	15,70	42,50	56,70
	Jan-22 to Feb-22	0,90	4,90	10,50	26,30	32,40
	Feb-22 to Mar-22	0,20	0,80	3,10	10,60	11,80
	Mar-22 to Apr-22	0,20	1,90	10,00	29,00	30,50
DB - 81	Jun-21 to Jul-21	1,40	5,10	18,10	54,00	64,50
	Jul-21 to Aug-21	2,30	9,40	17,60	50,00	78,40
	Aug-21 to Sep-21	2,30	14,20	21,60	48,40	60,10
	Sep-21 to Oct-21	0,50	0,90	5,60	18,60	23,50
	Oct-21 to Nov-21	1,20	5,30	15,40	43,40	57,00
	Nov-21 to Dec-21	0,80	3,80	5,80	13,30	17,70
	Dec-21 to Jan-22	0,80	5,70	12,20	24,20	30,40
	Jan-22 to Feb-22	1,10	8,60	25,10	74,40	85,50
	Feb-22 to Mar-22	0,30	0,90	4,10	13,10	18,90
	Mar-22 to Apr-22	0,20	1,40	8,70	28,70	29,10

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Revision:	0.0		
Date:	March to April 2022		

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
DB - 82	Jun-21 to Jul-21	2,00	16,70	26,50	56,20	66,70
	Jul-21 to Aug-21	2,40	6,90	14,90	35,30	39,60
	Aug-21 to Sep-21	1,80	7,30	17,40	45,50	49,20
	Sep-21 to Oct-21	0,60	2,50	10,90	42,40	50,40
	Oct-21 to Nov-21	1,20	7,70	17,10	39,50	45,60
	Nov-21 to Dec-21	0,80	3,00	5,80	16,60	25,90
	Dec-21 to Jan-22	0,80	5,60	11,70	16,80	20,50
	Jan-22 to Feb-22	1,10	4,20	24,50	27,90	40,30
	Feb-22 to Mar-22	0,20	1,00	2,70	10,40	11,60
	Mar-22 to Apr-22	0,20	1,30	14,10	31,70	40,00
DB - 83	Jun-21 to Jul-21	1,70	8,00	13,20	29,70	39,00
	Jul-21 to Aug-21	2,20	7,10	11,40	23,30	27,60
	Aug-21 to Sep-21	31,20	1,90	7,20	13,50	28,10
	Sep-21 to Oct-21	0,60	1,60	5,20	18,00	22,90
	Oct-21 to Nov-21	1,10	6,50	15,70	36,90	46,10
	Nov-21 to Dec-21	0,80	3,70	6,40	14,90	24,70
	Dec-21 to Jan-22	0,90	6,30	11,50	17,50	19,90
	Jan-22 to Feb-22	1,10	6,70	12,50	26,60	33,40
	Feb-22 to Mar-22	0,30	1,10	5,90	41,50	80,30
	Mar-22 to Apr-22	0,20	1,80	10,80	30,00	35,80
DB - 84	Jun-21 to Jul-21	1,70	8,10	21,90	78,20	98,50
	Jul-21 to Aug-21	1,60	2,70	11,80	99,20	188,00
	Aug-21 to Sep-21	2,30	8,70	17,10	79,40	140,40
	Sep-21 to Oct-21	0,80	2,80	5,70	17,30	23,40
	Oct-21 to Nov-21	-	-	-	-	-
	Nov-21 to Dec-21	0,70	2,40	4,10	11,60	12,90
	Dec-21 to Jan-22	0,70	6,10	10,20	16,20	16,80
	Jan-22 to Feb-22	-	-	-	-	-
	Feb-22 to Mar-22	-	-	-	-	-
	Mar-22 to Apr-22	0,20	2,00	11,10	29,70	30,00
DB - 85	Jun-21 to Jul-21	1,50	5,30	15,80	55,50	84,40
	Jul-21 to Aug-21	2,20	19,80	30,80	101,80	194,80
	Aug-21 to Sep-21	2,30	14,40	21,90	51,60	79,90
	Sep-21 to Oct-21	0,70	3,30	5,50	11,00	19,00
	Oct-21 to Nov-21	-	-	-	-	-
	Nov-21 to Dec-21	0,80	3,00	4,70	8,30	10,80
	Dec-21 to Jan-22	0,70	4,90	9,70	15,50	17,30
	Jan-22 to Feb-22	-	-	-	-	-
	Feb-22 to Mar-22	-	-	-	-	-
	Mar-22 to Apr-22	0,20	1,40	9,00	26,00	27,00
DB - 86	Jun-21 to Jul-21	5,80	52,30	82,00	156,20	175,30

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Jul-21 to Aug-21	1,60	6,40	15,70	93,00	176,20
	Aug-21 to Sep-21	2,60	16,20	25,60	53,40	79,30
	Sep-21 to Oct-21	0,70	3,00	4,80	8,40	9,70
	Oct-21 to Nov-21	4,60	52,80	66,90	105,30	125,60
	Nov-21 to Dec-21	0,70	2,10	3,10	5,70	7,50
	Dec-21 to Jan-22	0,80	5,40	10,80	15,70	17,60
	Jan-22 to Feb-22	0,90	5,30	13,40	57,10	57,10
	Feb-22 to Mar-22	0,40	1,40	4,10	12,90	17,80
	Mar-22 to Apr-22	0,20	1,30	15,00	27,00	31,00
DB - 87	Jun-21 to Jul-21	2,30	2,30	2,30	785,00	1254,00
	Jul-21 to Aug-21	3,60	33,40	66,90	393,30	851,30
	Aug-21 to Sep-21	3,30	20,80	45,80	98,20	110,50
	Sep-21 to Oct-21	1,30	7,20	28,20	85,50	107,10
	Oct-21 to Nov-21	2,70	39,10	64,30	146,60	188,50
	Nov-21 to Dec-21	0,50	2,10	3,30	4,40	4,40
	Dec-21 to Jan-22	1,20	10,40	17,10	33,70	41,70
	Jan-22 to Feb-22	1,30	13,10	30,30	87,60	105,50
	Feb-22 to Mar-22	0,40	2,30	7,80	25,20	30,00
	Mar-22 to Apr-22	0,40	1,80	5,80	24,00	30,40
DB - 88	Jun-21 to Jul-21	1,50	1,50	24,50	160,60	201,90
	Jul-21 to Aug-21	1,60	1,60	16,20	216,30	458,50
	Aug-21 to Sep-21	2,40	9,70	17,00	37,60	45,00
	Sep-21 to Oct-21	1,40	17,50	25,90	53,70	68,50
	Oct-21 to Nov-21	1,20	11,00	25,30	75,10	94,80
	Nov-21 to Dec-21	0,60	3,30	4,90	8,20	11,30
	Dec-21 to Jan-22	1,20	5,40	11,80	20,60	23,70
	Jan-22 to Feb-22	1,00	6,90	15,40	45,20	52,00
	Feb-22 to Mar-22	0,40	2,10	8,20	24,30	28,70
	Mar-22 to Apr-22	0,50	2,40	6,70	23,20	27,50
DB - 89	Jun-21 to Jul-21	1,60	3,90	15,20	92,40	146,70
	Jul-21 to Aug-21	1,20	5,30	9,80	27,60	41,80
	Aug-21 to Sep-21	2,90	19,50	40,00	162,20	283,60
	Sep-21 to Oct-21	0,90	6,70	8,80	13,50	20,90
	Oct-21 to Nov-21	1,20	7,60	19,30	51,60	66,40
	Nov-21 to Dec-21	0,70	4,40	9,60	47,60	66,70
	Dec-21 to Jan-22	1,20	7,70	14,60	25,40	31,00
	Jan-22 to Feb-22	1,10	7,90	22,20	77,30	111,30
	Feb-22 to Mar-22	0,20	2,10	9,00	12,10	14,50
	Mar-22 to Apr-22	0,30	2,90	15,80	29,10	38,20
	Apr-22 to May-22	0,40	1,80	10,10	28,80	40,10
DB - 90	Jun-21 to Jul-21	80,80	2,30	14,70	24,20	59,80

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Jul-21 to Aug-21	1,40	5,60	11,50	25,30	30,20
	Aug-21 to Sep-21	1,60	10,50	20,80	50,10	57,50
	Sep-21 to Oct-21	1,50	16,80	23,00	43,80	54,90
	Oct-21 to Nov-21	1,40	10,10	22,10	48,70	57,90
	Nov-21 to Dec-21	0,60	2,30	4,10	9,90	16,70
	Dec-21 to Jan-22	0,70	6,50	10,30	16,70	21,10
	Jan-22 to Feb-22	1,00	4,90	13,40	41,30	47,50
	Feb-22 to Mar-22	0,60	2,00	9,40	64,20	84,20
	Mar-22 to Apr-22	0,40	1,30	4,90	26,70	42,20
DB - 91	Jun-21 to Jul-21	1,40	2,50	13,80	48,00	100,00
	Jul-21 to Aug-21	1,80	14,10	31,10	121,90	190,90
	Aug-21 to Sep-21	1,80	13,20	25,60	100,50	168,30
	Sep-21 to Oct-21	1,30	6,50	9,40	18,30	31,80
	Oct-21 to Nov-21	1,30	9,90	25,90	83,60	112,50
	Nov-21 to Dec-21	0,70	2,20	4,80	14,70	20,90
	Dec-21 to Jan-22	0,70	4,20	8,90	14,10	14,70
	Jan-22 to Feb-22	0,90	4,90	10,50	25,60	28,10
	Feb-22 to Mar-22	0,90	3,80	11,50	58,00	86,00
	Mar-22 to Apr-22	0,50	1,60	6,60	30,40	32,70
DB - 92	Jun-21 to Jul-21	2,60	37,20	60,00	137,00	167,20
	Jul-21 to Aug-21	1,90	9,00	27,20	82,70	112,90
	Aug-21 to Sep-21	2,00	15,10	41,50	136,00	180,50
	Sep-21 to Oct-21	2,00	13,80	22,10	39,90	44,80
	Oct-21 to Nov-21	1,40	10,40	26,60	71,90	86,70
	Nov-21 to Dec-21	0,50	2,40	4,50	10,10	17,30
	Dec-21 to Jan-22	1,40	7,30	14,10	23,70	25,50
	Jan-22 to Feb-22	1,10	10,20	17,20	34,80	41,60
	Feb-22 to Mar-22	1,10	6,30	10,70	29,70	34,70
	Mar-22 to Apr-22	0,30	2,50	7,40	30,10	47,30
DB - 93	Jun-21 to Jul-21	12,90	187,70	215,00	292,40	334,30
	Jul-21 to Aug-21	2,50	15,40	34,70	95,80	112,30
	Aug-21 to Sep-21	2,00	21,30	57,80	219,10	301,70
	Sep-21 to Oct-21	1,60	9,10	17,30	35,30	41,70
	Oct-21 to Nov-21	1,30	9,50	24,20	54,30	72,80
	Nov-21 to Dec-21	0,90	4,60	10,50	37,10	55,60
	Dec-21 to Jan-22	2,50	9,20	18,80	47,70	92,10
	Jan-22 to Feb-22	1,00	8,00	13,30	29,40	44,80
	Feb-22 to Mar-22	1,40	2,80	10,40	45,10	55,00
	Mar-22 to Apr-22	1,10	3,20	15,80	32,50	41,20
	Apr-22 to May-22	0,30	4,20	5,80	28,70	25,90
DB - 94	Jun-21 to Jul-21	2,10	15,30	36,10	169,70	322,50

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Jul-21 to Aug-21	10,00	62,80	103,00	168,50	185,10
	Aug-21 to Sep-21	3,00	34,20	81,10	225,40	277,80
	Sep-21 to Oct-21	1,70	10,10	21,10	41,30	46,80
	Oct-21 to Nov-21	1,30	9,70	24,70	64,50	76,20
	Nov-21 to Dec-21	0,70	2,80	5,50	13,00	13,00
	Dec-21 to Jan-22	3,70	11,80	19,70	32,30	34,10
	Jan-22 to Feb-22	1,00	6,10	12,20	30,70	34,40
	Feb-22 to Mar-22	1,30	3,50	7,70	19,90	21,70
	Mar-22 to Apr-22	0,30	5,40	5,90	27,00	24,30
DB - 95	Jun-21 to Jul-21	20,20	238,60	788,70	2424,00	2965,80
	Jul-21 to Aug-21	2,90	29,00	70,10	180,10	207,30
	Aug-21 to Sep-21	7,60	108,60	306,20	943,90	885,20
	Sep-21 to Oct-21	2,00	11,40	25,80	65,30	83,20
	Oct-21 to Nov-21	1,30	9,50	23,50	63,20	102,00
	Nov-21 to Dec-21	1,20	3,80	15,90	67,60	100,90
	Dec-21 to Jan-22	1,90	8,50	16,90	28,00	31,70
	Jan-22 to Feb-22	1,10	8,00	18,20	54,70	98,40
	Feb-22 to Mar-22	1,60	4,10	10,10	22,30	24,80
	Mar-22 to Apr-22	0,40	6,10	7,90	27,90	43,00
DB - 96	Jun-21 to Jul-21	5,60	74,60	90,00	145,20	180,30
	Jul-21 to Aug-21	4,70	23,00	59,10	166,00	191,90
	Aug-21 to Sep-21	7,40	36,10	58,90	99,90	111,60
	Sep-21 to Oct-21	1,60	8,60	13,10	24,00	26,50
	Oct-21 to Nov-21	0,80	4,90	11,60	35,00	41,80
	Nov-21 to Dec-21	0,80	2,50	5,70	20,00	31,10
	Dec-21 to Jan-22	0,80	9,20	14,00	26,90	31,20
	Jan-22 to Feb-22	1,00	9,60	34,50	58,20	99,00
	Feb-22 to Mar-22	0,10	0,40	1,10	3,20	3,40
	Mar-22 to Apr-22	0,40	4,30	8,50	45,00	80,00
DB - 97	Jun-21 to Jul-21	1,80	10,90	22,50	68,70	102,60
	Jul-21 to Aug-21	2,50	8,30	14,50	37,50	58,40
	Aug-21 to Sep-21	2,20	10,60	21,40	51,60	69,50
	Sep-21 to Oct-21	0,50	1,80	3,30	8,90	15,70
	Oct-21 to Nov-21	1,30	7,40	16,10	33,20	38,10
	Nov-21 to Dec-21	0,80	3,20	4,70	9,60	12,70
	Dec-21 to Jan-22	0,90	4,70	10,40	18,40	20,90
	Jan-22 to Feb-22	1,10	6,80	12,60	26,50	33,90
	Feb-22 to Mar-22	0,20	0,60	3,40	10,30	10,30
	Mar-22 to Apr-22	0,50	5,40	7,20	38,10	27,70
DB - 98	Jun-21 to Jul-21	1,50	7,20	17,20	48,20	63,60
	Jul-21 to Aug-21	2,30	9,80	15,10	36,60	49,60

GBN-JV PM Data						
Locality Name	Month	PM 1	PM 2.5	PM 4	PM 10	TSP
SANS Limits					75	
	Aug-21 to Sep-21	2,20	14,70	22,90	50,60	69,10
	Sep-21 to Oct-21	0,60	2,10	4,50	15,50	22,20
	Oct-21 to Nov-21	1,20	6,40	16,10	45,00	63,50
	Nov-21 to Dec-21	-	-	-	-	-
	Dec-21 to Jan-22	-	-	-	-	-
	Jan-22 to Feb-22	0,90	5,00	10,50	22,30	27,90
	Feb-22 to Mar-22	0,20	0,80	3,10	8,80	10,70
	Mar-22 to Apr-22	0,50	7,60	6,40	24,50	32,40
DB - 99	Jun-21 to Jul-21	7,00	18,50	145,00	258,90	324,90
	Jul-21 to Aug-21	1,30	2,20	19,30	76,40	107,20
	Aug-21 to Sep-21	2,70	16,60	27,50	60,20	70,60
	Sep-21 to Oct-21	0,90	3,60	8,80	22,30	26,60
	Oct-21 to Nov-21	5,10	84,10	105,00	172,10	194,20
	Nov-21 to Dec-21	0,60	1,60	5,50	16,50	13,60
	Dec-21 to Jan-22	1,20	4,50	9,90	15,40	16,60
	Jan-22 to Feb-22	1,60	8,00	33,10	101,80	124,00
	Feb-22 to Mar-22	0,60	2,90	9,30	40,70	47,50
	Mar-22 to Apr-22	0,40	5,20	9,30	32,30	44,00
DB - 100	Jun-21 to Jul-21	2,20	10,10	18,60	46,70	57,80
	Jul-21 to Aug-21	1,70	14,10	25,50	76,70	121,70
	Aug-21 to Sep-21	1,50	9,20	19,00	41,10	55,30
	Sep-21 to Oct-21	1,30	6,20	9,10	18,20	21,90
	Oct-21 to Nov-21	1,60	10,90	26,10	56,00	60,90
	Nov-21 to Dec-21	0,80	2,90	5,60	12,50	14,30
	Dec-21 to Jan-22	0,60	4,20	8,60	13,80	15,60
	Jan-22 to Feb-22	1,00	6,10	12,90	28,80	50,40
	Feb-22 to Mar-22	0,80	2,40	6,20	14,10	17,10
	Mar-22 to Apr-22	0,5	8,1	12	22,3	33,3
Average		2,20	12,00	24,03	69,10	96,02

7.2.2. E-Sampler PM Monitoring

The following results are present for the March to April 2022 period related to stations:

- ES01 (Thaba Tholo School);
- ES02 (Eskom – Medupi Power Station); and
- ES03 (Mooivalei).

All three (3) E-sampler localities recorded general low daily PM₁₀ readings with some influences (peaks) noted:

- ES01 (School): Spikes recorded are likely as a result of traffic on the nearby dirt road, however, noticeable higher spikes were present on the 31st of March (Value of 0.276 mg/m³), 1st of April (0.247 mg/m³) and the 7th of April (Value of 0.161 mg/m³);
- ES02 (Eskom – Medupi Power Station): Particular matter levels remained extremely low throughout the monthly monitoring period. A spike was however recorded on the 3rd of April with a recorded value of 0.170 mg/m³; and
- ES03 (Mooivalei): Recorded concentrations measured during the month remained low with a significant spike being recorded on the 16th of March with a value of 0.128 mg/m³ and the 1st of April (0.129 mg/m³);

The low concentrations are expected due to the study being a baseline assessment and with no construction works being near either monitoring localities. Results are however expected to fluctuate during the year cycle due to the seasonality of precipitation and wind fluctuations.

The results from the handheld PM reader are on average higher than the average PM readings obtained from the E-Samplers (as seen in Table 7 below). The reason for the elevated readings can be attributed to multiple factors which include the active indicative monitoring (time and day dependant) of the handheld PM readings recorded at each the dust stands where the majority is located along dirt roads and elevated PM readings expected, whereas the E-Samplers are located in fenced areas further away from roads. Additionally, the handheld PM reading takes the average PM reading over one (1) minute whereas the E-Sampler is calculated over 30 days, therefore the handheld PM meter readings are easily heightened due to disturbances such as vehicles or wind in the area and represents an indicative time dependant snapshot.

Table 7: Daily Average PM₁₀

Locality Name:	PM ₁₀ Daily Average
ES01: School	0.0027 mg/m ³
ES02: Eskom – Medupi Power Station	0.0021 mg/m ³
ES03: Mooivalei	0.0020 mg/m ³

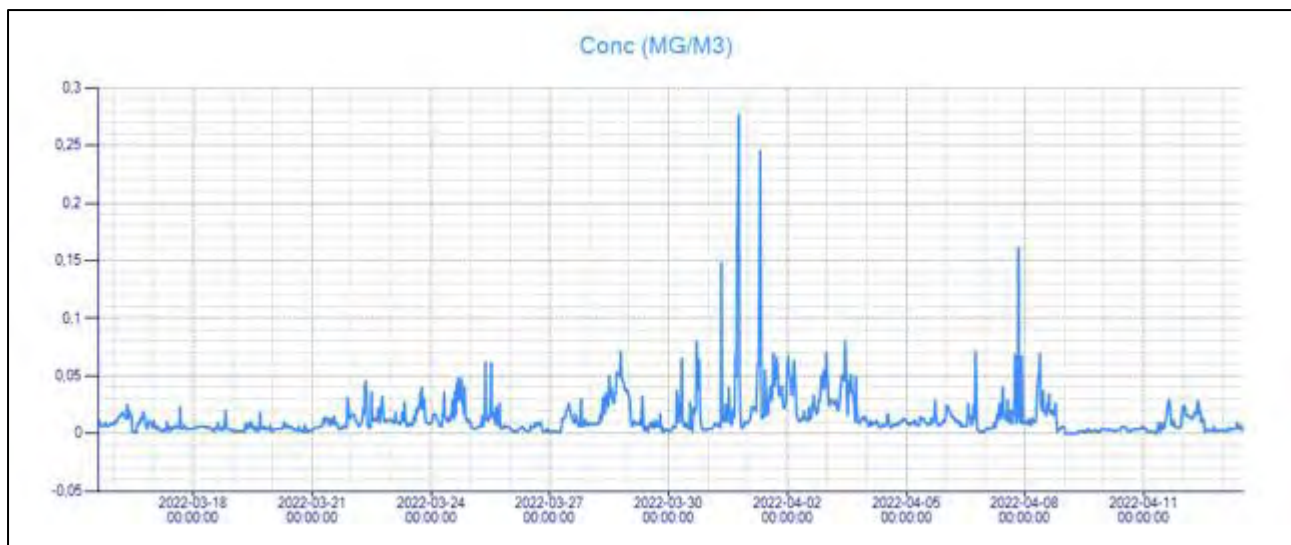


Figure 5: ES01 (School) E-Sampler PM₁₀ Data

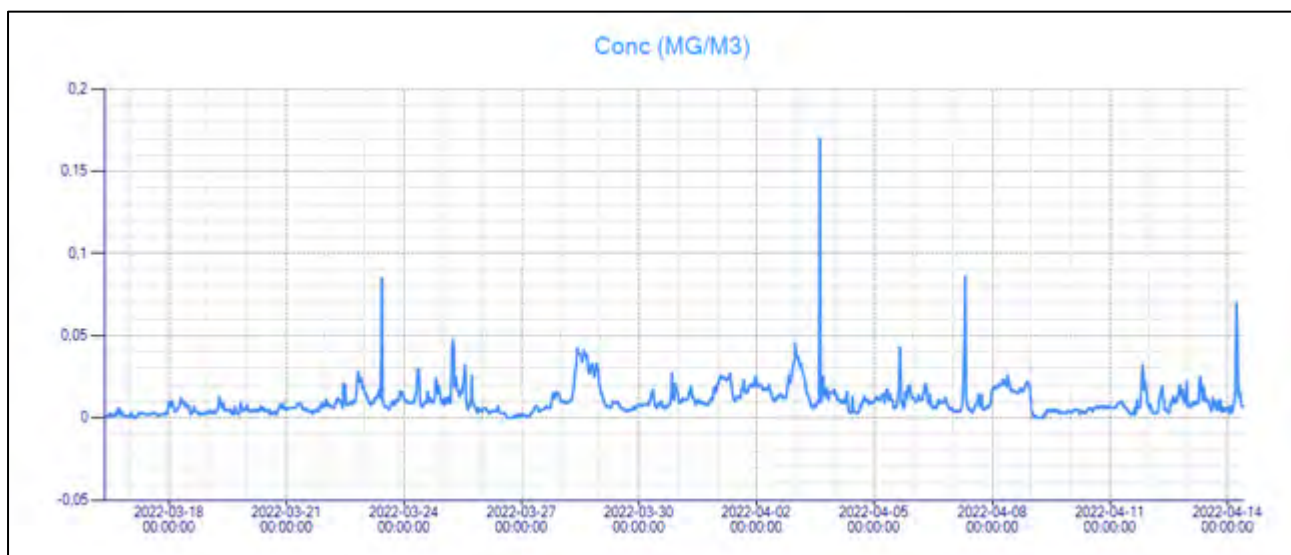


Figure 6: ES02 (Eskom – Medupi Power Station) E-Sampler PM₁₀ Data

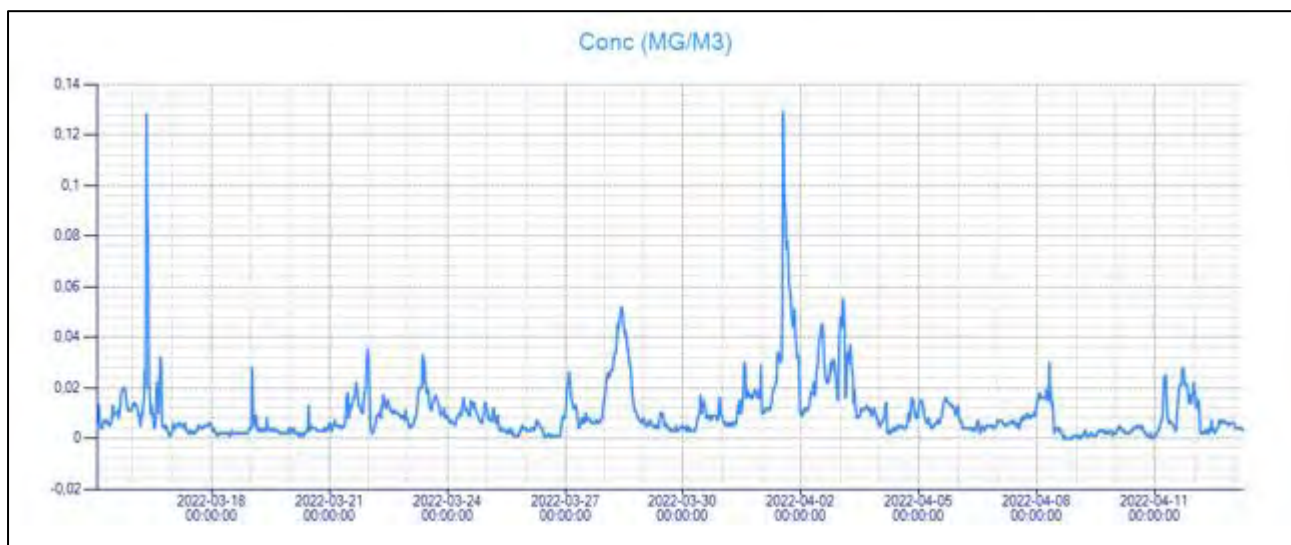


Figure 7: ES03 (Mooivalei) E-Sampler PM₁₀ Data

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7.3. GRAVIMETRIC DUST FALLOUT RESULTS

Field monitoring was conducted between the 13th and 14th of April 2022. During the March to April 2022 monthly monitoring period, ninety-six (97) of the one hundred (100) samples were obtained and analysed from the dust monitoring programme. Two (2) dust buckets (DB15 and DB16) were not obtained due to access restrictions during the monitoring period, whilst one (1) additional bucket (DB17) was recorded as being stolen along with the dust bucket stand. Based on the gravimetric dust fallout results, three (3) exceedances of the Residential Limit of 600 mg/m²/day were recorded at sample locality DB87, DB88 and DB99, while no exceedances of the Industrial Limit of 1200 mg/m²/day were recorded. The highest value was recorded at the DB87 point during the March to April 2022 monitoring period, calculated at 1055 mg/m²/day. The annual average was determined at 183 mg/m²/day, well below the residential limit. All localities which were recorded to have elevated dust fallout levels are situated in close proximity to frequently used dirt roads which is expected to be the primary source of the dust fallout recorded. No major activities were recorded at the proposed pipeline area.

Gravimetric dust fallout can be classified according to SANS 1929: 2011 standard into four categories or levels. The first category consists of monitoring stand values that are below 600 mg/m²/day and thus can be classified as Ideal namely:

- Ninety-four (94) of the sampled monitoring points fell into this category during the monitoring period.

The second category consists of monitoring points with gravimetric dust fallout between 600 mg/m²/day and 1200 mg/m²/day. This category can be classified as Acceptable to Tolerable.

- Three (3) of the monitoring points (DB87, DB88 and DB99) fell into this category during the monitoring period.

The third category consists of monitoring points with gravimetric dust fallout between 1200 mg/m²/day and 2400 mg/m²/day. This category can be classified as unacceptable and must be reported if it continues for more than two consecutive months or three months in total per year.

- None of the monitoring points fell into this category during the monitoring period.

The fourth category consists of monitoring points exceeding dust fallout of 2400 mg/m²/day. This category is classified as alert, immediate action and remediation required followed the first incident of dust fallout exceedance.

- None of the monitoring points fell into this category during the monitoring period.

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Table 8: Gravimetric Dust Fallout Results

GBN-JV Air Quality Results													
Gravimetric Dust Fallout (mg/m ² /day)													
Location	Apr-21 to May-21	May-21 to Jun-21	Jun-21 to Jul-21	July-21 to Aug-21	Aug-21 to Sep-21	Sep-21 to Oct-21	Oct-21 to Nov-21	Nov-21 to Dec-21	Dec-21 to Jan-21	Jan-22 to Feb-22	Feb-22 to Mar-22	Mar-22 to Apr-22	Average
DB - 1	21	5	86	147	187	Stolen	292	198	Stolen	240	104	181	146
DB - 2	170	297	543	404	503	423	730	507	221	783	377	472	453
DB - 3	27	126	190	212	427	372	377	233	123	223	209	197	226
DB - 4	75	137	Stolen	277	1360	381	1103	237	141	238	290	227	406
DB - 5	127	107	365	165	195	321	339	270	120	1052	296	434	316
DB - 6	41	137	200	231	288	281	272	331	145	234	420	283	239
DB - 7	134	98	198	218	279	379	168	269	151	246	199	216	213
DB - 8	61	10	135	113	189	419	155	223	68	172	244	177	164
DB - 9	91	9	140	216	184	413	232	259	66	195	335	214	196
DB - 10	46	126	128	219	193	388	190	211	104	207	152	168	178
DB - 11	Installed	161	55	295	215	340	187	129	120	204	209	165	189
DB - 12	Not Installed	Not Installed	Installed	90	242	348	187	235	188	132	241	199	207
DB - 13	Not Installed	Not Installed	Installed	487	376	429	397	210	61	279	235	196	297
DB - 14	Not Installed	Not Installed	Not Installed	Installed	143	311	161	399	112	930	207	412	334
DB - 15	6	277	47	171	138	255	No Access	320	162	120	102	No Access	160
DB - 16	10	281	27	168	123	379	No Access	740	154	104	124	No Access	211
DB - 17	11	88	15	150	153	268	No Access	No Access	Stolen Stand	Stolen Stand	Stolen Stand	Stolen Stand	114
DB - 18	39	331	61	96	106	334	117	135	134	99	128	124	142
DB - 19	5	273	22	59	52	216	126	188	50	118	112	117	111
DB - 20	14	290	99	119	65	213	289	703	185	74	96	264	201
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GBN-JV Air Quality Results													
Gravimetric Dust Fallout (mg/m ² /day)													
Location	Apr-21 to May-21	May-21 to Jun-21	Jun-21 to Jul-21	July-21 to Aug-21	Aug-21 to Sep-21	Sep-21 to Oct-21	Oct-21 to Nov-21	Nov-21 to Dec-21	Dec-21 to Jan-21	Jan-22 to Feb-22	Feb-22 to Mar-22	Mar-22 to Apr-22	Average
DB - 21	12	305	103	121	108	235	374	241	293	108	131	193	185
DB - 22	14	155	104	113	94	319	80	152	53	129	95	107	118
DB - 23	2	300	106	109	106	292	193	106	212	122	103	136	149
DB - 24	11	392	149	172	175	342	32	182	133	141	138	149	168
DB - 25	7	476	95	124	125	336	236	165	68	88	163	121	167
DB - 26	4	324	33	183	113	261	173	105	44	116	136	100	133
DB - 27	14	457	107	128	75	269	27	137	107	128	161	133	145
DB - 28	18	301	29	113	119	230	105	144	177	123	139	146	137
DB - 29	4	337	6	95	95	180	86	107	63	91	102	91	105
DB - 30	92	338	36	105	127	221	170	118	44	117	101	95	130
DB - 31	13	488	88	82	76	280	5	149	7	123	98	94	125
DB - 32	244	335	165	206	243	729	567	389	207	252	350	299	332
DB - 33	10	479	103	96	125	592	254	210	219	150	162	185	215
DB - 34	13	18	3	79	169	184	176	119	129	73	102	106	98
DB - 35	11	7	39	49	82	196	14	114	29	33	117	73	64
DB - 36	2	18	28	61	98	212	91	295	128	106	151	170	113
DB - 37	8	8	12	52	74	216	237	106	Bucket Stolen	Bucket Stolen	61	83	86
DB - 38	8	104	26	54	83	246	57	106	130	91	100	107	93
DB - 39	5	92	19	96	75	281	96	110	83	87	67	87	92
DB - 40	3	18	17	43	18	Bucket Stolen	58	108	198	62	84	113	66
DB - 41	3	101	11	34	100	211	46	75	126	119	89	102	85
DB - 42	10	248	13	65	53	241	48	57	41	45	92	59	81

GBN-JV Air Quality Results													
Gravimetric Dust Fallout (mg/m ² /day)													
Location	Apr-21 to May-21	May-21 to Jun-21	Jun-21 to Jul-21	July-21 to Aug-21	Aug-21 to Sep-21	Sep-21 to Oct-21	Oct-21 to Nov-21	Nov-21 to Dec-21	Dec-21 to Jan-21	Jan-22 to Feb-22	Feb-22 to Mar-22	Mar-22 to Apr-22	Average
DB - 43	9	91	13	58	66	249	109	165	166	33	75	110	95
DB - 44	7	98	13	39	63	396	126	179	34	83	87	96	102
DB - 45	14	86	4	59	78	215	89	122	66	96	94	95	85
DB - 46	7	238	18	60	48	230	63	140	48	63	102	88	92
DB - 47	6	245	21	62	48	203	84	83	32	51	85	63	82
DB - 48	15	240	4	55	63	224	304	113	149	74	59	99	117
DB - 49	3	277	10	75	69	203	13	100	172	115	139	132	109
DB - 50	1	80	20	96	112	209	45	132	36	Bucket Stolen	83	83	81
DB - 51	1	268	16	98	74	223	93	124	67	127	77	99	105
DB - 52	42	111	23	94	11	216	40	97	Bucket Stolen	332	88	172	111
DB - 53	11	289	24	108	88	312	145	134	69	260	196	165	150
DB - 54	13	78	52	74	61	216	60	107	10	103	97	79	79
DB - 55	8	247	6	98	23	209	72	135	116	17	256	131	110
DB - 56	8	282	30	141	83	194	80	79	176	45	196	124	120
DB - 57	6	258	95	84	30	199	139	126	123	41	144	108	113
DB - 58	3	309	70	161	79	227	161	289	122	93	164	167	154
DB - 59	1	15	114	89	148	228	99	95	149	61	105	102	101
DB - 60	6	19	113	122	46	269	108	80	152	40	138	102	100
DB - 61	5	244	185	82	53	202	90	154	389	79	101	181	147
DB - 62	10	73	2	33	48	185	83	81	50	53	74	64	63
DB - 63	4	269	9	31	70	254	77	41	191	55	97	96	100
DB - 64	11	158	4	50	78	209	76	152	419	44	127	185	126

GBN-JV Air Quality Results													
Gravimetric Dust Fallout (mg/m ² /day)													
Location	Apr-21 to May-21	May-21 to Jun-21	Jun-21 to Jul-21	July-21 to Aug-21	Aug-21 to Sep-21	Sep-21 to Oct-21	Oct-21 to Nov-21	Nov-21 to Dec-21	Dec-21 to Jan-21	Jan-22 to Feb-22	Feb-22 to Mar-22	Mar-22 to Apr-22	Average
DB - 65	13	98	13	147	102	215	48	171	156	52	100	120	103
DB - 66	168	237	9	179	84	200	21	140	99	62	91	98	116
DB - 67	14	267	14	167	62	196	72	112	178	73	137	125	118
DB - 68	10	267	23	128	55	281	48	43	27	79	99	62	93
DB - 69	6	295	33	170	73	Stolen	36	114	99	61	56	83	93
DB - 70	85	159	76	230	76	475	47	81	151	52	65	87	132
DB - 71	13	294	13	166	51	170	47	41	217	35	108	100	105
DB - 72	13	195	39	155	27	263	61	68	1187	60	39	338	204
DB - 73	48	261	17	135	36	165	59	90	94	27	38	62	86
DB - 74	3	285	56	132	33	171	67	81	356	90	97	156	127
DB - 75	39	16	104	172	72	Bucket Stolen	100	92	192	10	Bucket Stolen	98	89
DB - 76	16	216	87	163	37	154	104	98	93	91	14	74	96
DB - 77	39	192	123	197	109	184	99	109	651	87	59	226	173
DB - 78	13	191	26	155	71	221	77	169	181	75	45	118	112
DB - 79	133	141	11	138	70	216	90	214	40	134	48	109	112
DB - 80	279	186	250	426	204	323	182	368	178	295	440	320	288
DB - 81	42	279	100	199	143	320	124	207	526	222	73	257	208
DB - 82	12	184	43	210	172	269	172	192	223	75	156	162	156
DB - 83	46	344	48	113	89	262	82	151	345	154	55	176	156
DB - 84	2	148	73	120	63	218	No Access	351	185	No Access	No Access	8	130
DB - 85	15	417	78	86	57	246	No Access	226	157	No Access	No Access	13	144
DB - 86	886	704	883	1141	747	1146	478	627	193	566	948	569	741

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GBN-JV Air Quality Results													
Gravimetric Dust Fallout (mg/m ² /day)													
Location	Apr-21 to May-21	May-21 to Jun-21	Jun-21 to Jul-21	July-21 to Aug-21	Aug-21 to Sep-21	Sep-21 to Oct-21	Oct-21 to Nov-21	Nov-21 to Dec-21	Dec-21 to Jan-21	Jan-22 to Feb-22	Feb-22 to Mar-22	Mar-22 to Apr-22	Average
DB - 87	2167	1921	1472	1783	1797	1629	1063	2437	212	1292	1659	1055	1541
DB - 88	969	262	71	241	379	308	207	153	2214	248	96	853	500
DB - 89	119	183	102	296	255	515	273	355	345	175	100	207	244
DB - 90	40	81	5	37	51	235	248	177	174	142	53	123	114
DB - 91	78	265	85	99	233	329	123	210	96	146	524	255	204
DB - 92	315	272	438	107	131	181	46	651	198	76	17	97	211
DB - 93	45	322	6	90	106	27	99	165	126	63	53	81	99
DB - 94	48	158	23	79	97	245	62	202	149	74	81	101	110
DB - 95	142	1057	370	681	531	504	338	333	284	402	162	282	424
DB - 96	Installed	114	54	192	158	301	150	286	141	210	184	178	179
DB - 97	47	166	155	313	246	430	194	655	366	186	88	213	255
DB - 98	34	7	15	101	74	272	107	No Access	No Access	416	21	218	127
DB - 99	1085	1336	1059	1341	832	942	448	477	649	740	494	628	836
DB - 100	138	257	49	101	64	216	73	76	73	100	15	63	102
3 Month Average	92	169	149	179	153	174	166	233	194	195	175	170	Total Average for 12 months:
Residential Limit	600	600	600	600	600	600	600	600	600	600	600	600	
Industrial Limit	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	183
1 Month Median	13	238	48	120	94	307	169	222	190	173	163	176	Industrial Limit Exceedances:
Max	2167	1921	1472	1783	1797	1629	1103	2437	2214	1292	1659	1055	
Min	1	5	2	31	11	27	5	41	7	10	14	8	13

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Legend	
No Sample	
Residentially acceptable	
Residential Limit Exceedance	
Industrial Limit Exceedance	
Alert Level	

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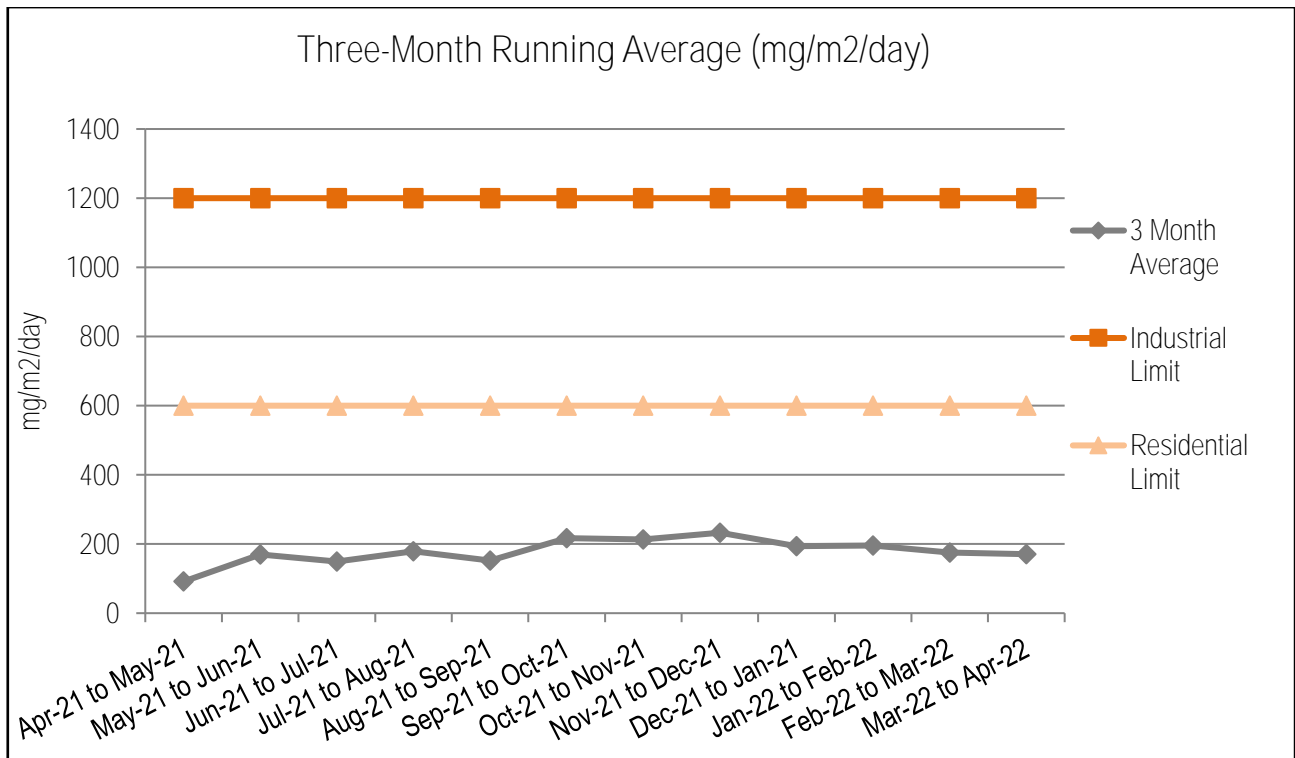


Figure 8: Dust Fallout Three-Month Running Average across all monitoring localities

7.5. WEATHER DATA

The possibility of emissions becoming a nuisance is determined by various factors. Specifically, PM₁₀ (dust) is mostly transported by air movement and as such wind and wind intensity can help determine the effective range of travel of pollutants. To determine possible areas that could be affected the wind rose data must be studied and interpreted. The following section provides an interpretation of the areas that could possibly be affected, by assessing the direction the wind is coming from and the areas the wind would deposit transported dust as reasonably expected. The following graphs provide an insight into the wind conditions versus the areas which would be affected during the current monitoring period. From Table 10 & 11 and Figure 9 & 10, the dominant wind direction was from the west-southwest and to a lesser extent from the west. Moreover, average wind speeds presented a calm to light breeze (0.1 m/s – 2.0 m/s) during the monitoring period. A total of 289.2 mm rain (Table 12) was recorded from March to April 2022.

Table 9: Beaufort Wind Force Scale

Beaufort Wind Force Scale			
Number	Wind speed (m/s)	Description	Land Conditions
0	<0.3 m/s	Calm	Calm. Smoke rises vertically
1	0.3–1.5 m/s	Light air	Wind motion visible in smoke.
2	1.6–3.3 m/s	Light breeze	Wind felt on exposed skin. Leaves rustle.
3	3.4–5.5 m/s	Gentle breeze	Leaves and smaller twigs in constant motion.
4	5.5–7.9 m/s	Moderate breeze	Dust and loose paper raised. Small branches begin to move.
5	8.0–10.7 m/s	Fresh breeze	Branches of a moderate size move. Small trees begin to sway.
6	10.8–13.8 m/s	Strong breeze	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult. Empty plastic garbage cans tip over.
7	13.9–17.1 m/s	High wind, moderate gale, near gale	Whole trees in motion. Effort needed to walk against the wind. Swaying of skyscrapers may be felt, especially by people on upper floors.
8	17.2–20.7 m/s	Fresh gale	Twigs broken from trees. Cars veer on road.
9	20.8–24.4 m/s	Strong gale	Larger branches break off trees, and some small trees blow over. Construction/temporary signs and barricades blow over. Damage to circus tents and canopies.
10	24.5–28.4 m/s	Whole gale, storm	Trees are broken off or uprooted, saplings bent and deformed, poorly attached asphalt shingles and shingles in poor condition peel off roofs.
11	28.5–32.6 m/s	Violent storm	Widespread vegetation damage. More damage to most roofing surfaces, asphalt tiles that have curled up and/or fractured due to age may break away completely.
12	≥32.7 m/s	Hurricane force	Considerable and widespread damage to vegetation, a few windows broken, structural damage to mobile homes and poorly constructed sheds and barns. Debris may be hurled about.

Table 10: Wind Direction

Wind Direction: March to April 2022	
Direction	Direction Frequency
North	16
NNE	9
NE	13
ENE	11
East	12
ESE	5
SE	4
SSE	4
South	3
SSW	6
SW	4
WSW	20
West	18
WNW	8
NW	10
NNW	5

Table 11: Average Wind Speeds

Average Wind Speeds: March to April 2022	
Day of Month	Wind Speed (m/s)
16-Mar	1,3
17-Mar	0,4
18-Mar	1,3
19-Mar	0,9
20-Mar	1,4
21-Mar	1,6
22-Mar	0,8
23-Mar	0,6
24-Mar	1,3
25-Mar	1,2
26-Mar	1,9
27-Mar	1,3
28-Mar	0,8
29-Mar	0,8
30-Mar	1,0
31-Mar	0,8
01-Apr	1,0
02-Apr	1,3
03-Apr	1,8
04-Apr	0,9
05-Apr	1,3
06-Apr	1,3
07-Apr	0,1
08-Apr	2,0
09-Apr	0,6
10-Apr	1,1
11-Apr	1,0
12-Apr	0,5
13-Apr	0,9
14-Apr	0,6
Max	2,0
Min	0,1

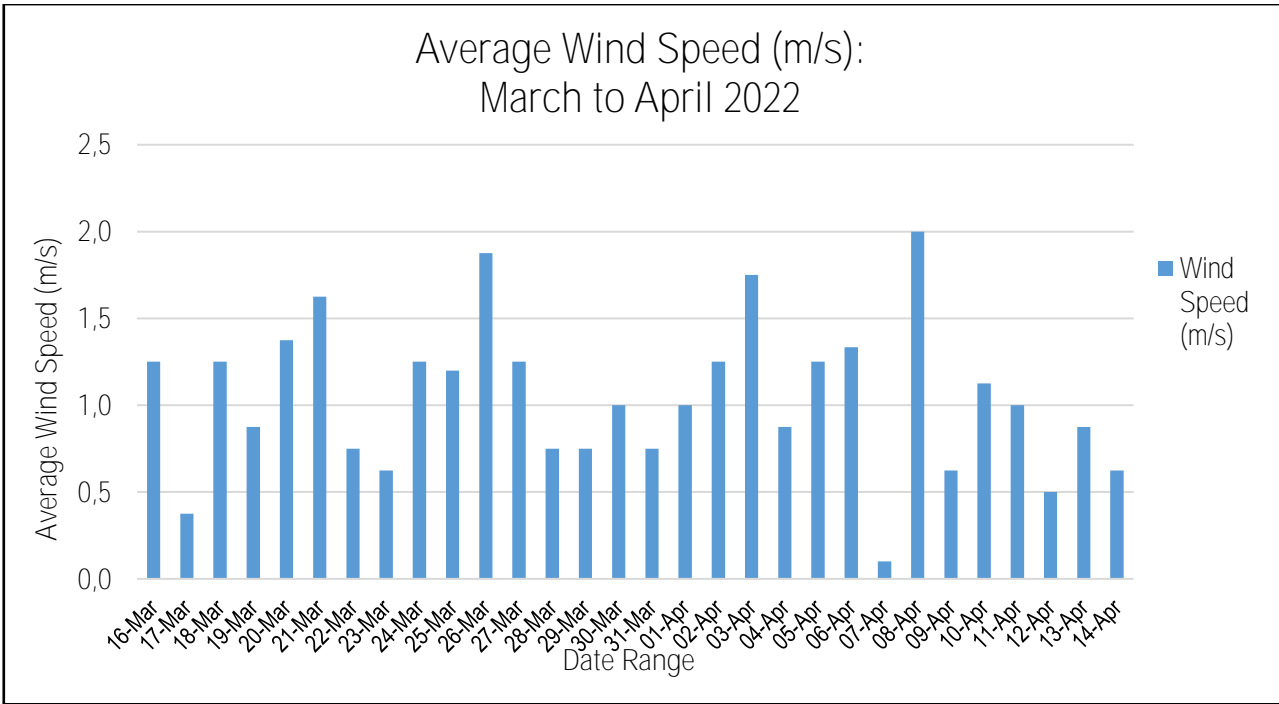


Figure 9: Wind Direction Frequency Average

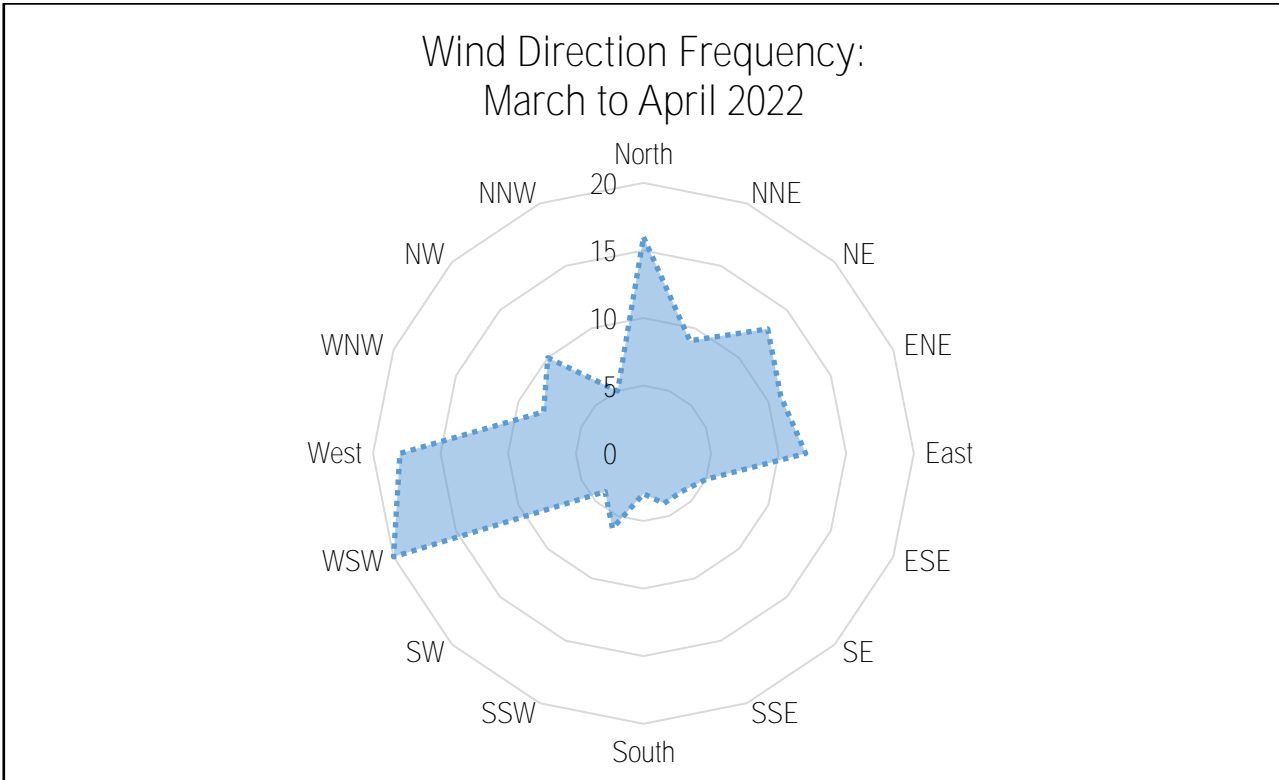


Figure 10: Windrose Diagram

Table 12: Rainfall

Rainfall Summary: March to April 2022	
Day of Month	Rainfall (mm)
18-Mar	2,4
19-Mar	0,4
22-Mar	2,0
23-Mar	3,2
24-Mar	1,2
26-Mar	1,6
27-Mar	0,4
30-Mar	0,8
31-Mar	2,8
01-Apr	2,0
03-Apr	4,0
04-Apr	28,0
05-Apr	2,0
08-Apr	12,0
09-Apr	115,0
10-Apr	59,0
11-Apr	50,0
12-Apr	2,0
13-Apr	0,4
Total	289,2

**Rainfall was not recorded on the omitted days*

Rem

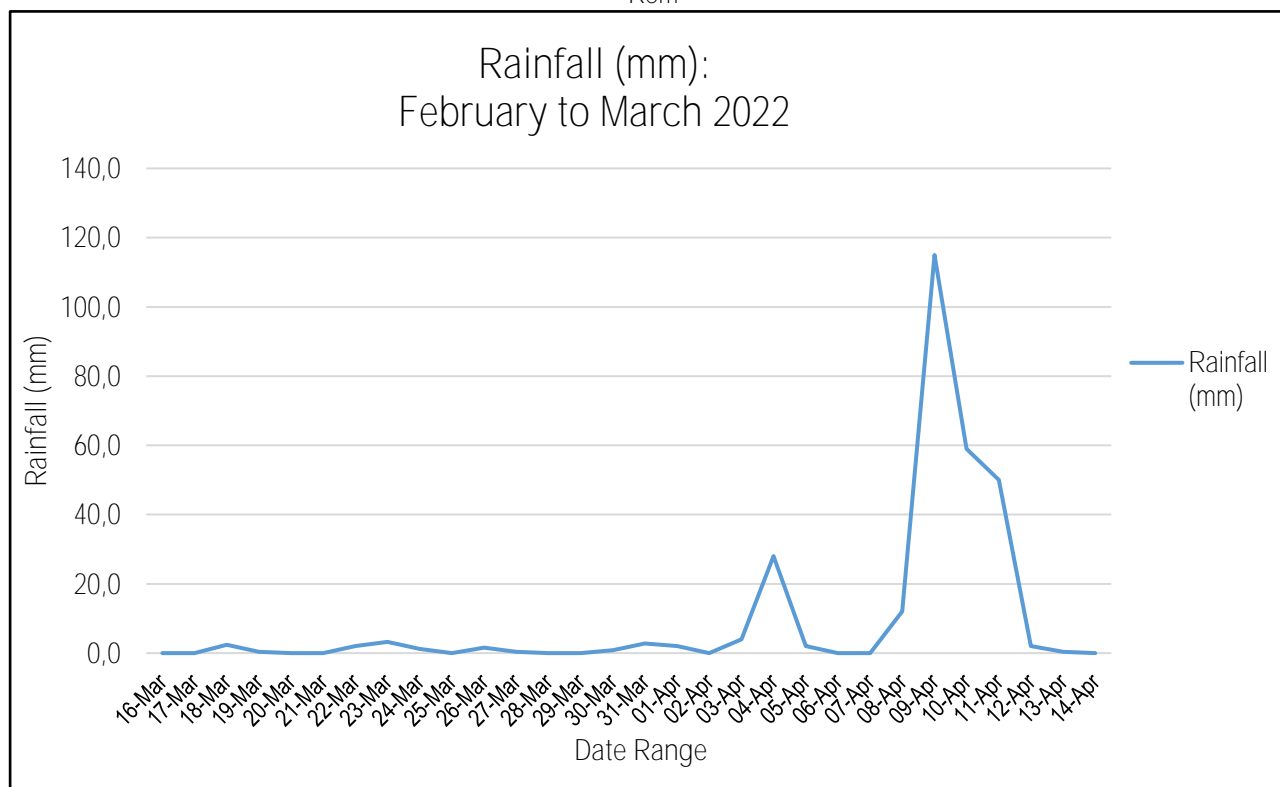


Figure 11: Rainfall for monitoring period

8. CONCLUSION AND ASPECTS TO CONSIDER

The air quality measured in the proposed area is considered in generally fair condition as per the results obtained, while it should be noted that currently operations are not present and the levels representative of the non-disturbed ambient air quality conditions.

It is assumed that the construction phase of the planned pipeline will contribute to the total suspended load in the atmosphere, although off-site impacts are not expected, and the impact is anticipated to be largely localised and centralised within the construction area. From the current sampling data obtained, exceedances are expected during the construction phase. In order to ensure and prevent this possible outcome, mitigation measures are provided in this report to enable the proposed developer to minimise the impact as stated in the CEMPr.

9. PROPOSED MITIGATION AND POLLUTION PREVENTION MEASURES DURING FUTURE CONSTRUCTION

Aspect: Stakeholder Communication	
1	Implement a programme of stakeholder communication that includes community engagement before and during work undertaken on site.
2	Provide complaints register on site where complaints can be made. This register should enable effective communication of complaints where these are reasonably addressed.
3	Clearly display the contact details of the environmental site office and manager at the construction camps.
Aspect: Dust Management	
4	In instances where exceedances are recorded, the implementation and maintenance of a Dust and Emission Management Plan which provides clear details on preventing, maintaining and improving the air quality in terms of site-specific activities is recommended.
Aspect: Site Management	
5	All complaints should be logged in the complaints register and should be available on the site at all times. All complaints regarding air quality should be adequately investigated and actions taken to reduce the impact in a timely manner should it be required.
6	Note must be taken of incidents that cause air emissions and this must be recorded to ensure that these are resolved and prevented from reoccurring.
Aspect: Monitoring	
7	Weekly site inspections should be undertaken in the vicinity of sensitive receptors. Records should be kept of these routine inspections.
8	Should activities be undertaken during dry and windy conditions, special focus must be taken on the impact and results of the conditions to ensure that minimal impact is occurring.
Aspect: Preparing and maintaining the site	
9	Plan the site layout in such a manner as to ensure that emission generating activities occur as far as possible from sensitive receptors.
10	Should the conditions require it, erect screens and barriers around the sensitive receptors.
11	Ensure that all areas, fencing, barriers and scaffolding is kept clear of debris and dust.
12	Remove any accumulating matter that could serve as emission generator from the site as soon as possible.

Aspect: Operating vehicle/machinery and sustainable travel	
13	Ensure that all vehicles are maintained in good working condition and that they are services on regular intervals.
14	Ensure that all vehicles are switched off when stationary – no vehicles should be idling for extended period.
15	Avoid the use of diesel- or petrol-powered generators and use mains electricity or battery powered equipment as reasonably possible.
16	Impose and regulate a speed limit.
Aspect: Operations	
17	Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.
18	Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible.
19	Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.
Waste management	
20	Only use registered waste carriers to take waste off-site.
Measures specific to earthworks	
21	Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable. Use Hessian, mulches or tackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable. Only remove the cover in a small area during work and not all at once.
Aspect: Measures specific to construction	
22	Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place.
23	Ensure cement and other fine powder materials are delivered in enclosed tankers and stored in appropriate storage with suitable emission control systems to prevent escape of material and overfilling during delivery.
24	For smaller supplies of fine power materials ensure bags are sealed after use and stored appropriately to prevent dust.
Aspect: Measures specific to track-out	
25	Use water-assisted dust sweeper(s) on the access roads (where practical) to remove, as soon as practicable any material tracked out of the site.
26	Avoid dry sweeping of large areas.
27	Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.
28	Record all inspections of haul routes and any subsequent action in a site log book.
29	Install hard surfaced routes (compaction), which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowzers and regularly cleaned.
30	Inspect surfaced routes for integrity and instigate necessary repairs to the surface as soon as practicable.

Aspects	Management action or objective	Responsible Person(s)	Timeframe
Removal of Vegetation	<ul style="list-style-type: none"> Spray areas to be cleared with water. Ensure minimum travel distance between working areas and stockpiles. Ensure that topsoil for stockpiles is sprayed with water before tipping to prevent dust generation. Ensure graded areas are sprayed with water. Minimise the amount of graded areas. 	Environmental Site Officer	Duration of the construction phase
Land clearing			
Excavation			
Material Transport		Contractors & Sub-Contractor	
Material Handling		Safety and Environmental Officers	
Construction			

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Aspects	Management action or objective	Responsible Person(s)	Timeframe
	<ul style="list-style-type: none"> • Ensure that shortest routes are used for material transport. • Load and offload material, as far as possible, downwind of stockpiles. • Actively monitor dust fallout generated on the borders of the site. • Implement monthly site inspection to check for possible areas of dust generation not addressed or not effectively managed. 		

10. REFERENCES

- ASTM Standard (1739-98). 2004 (Reapproved 2017). Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter). United States.
- GNR 827. 2013. National Environmental Management: Air Quality Act, Act No. 39 of 2004. Government Gazette 36974.
- South African National Standards (SANS) 1929. 2011. Ambient Air Quality- Limits for Common Pollutants. Ed. 2. ISBN 978-0-626-26919-7. South Africa.

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APPENDIX A – EQUIPMENT CHECKLIST

Description	Serial No.	Quantity	Date Checked	Checked By
COVID-19				
Gloves		1 x Box	12-Apr-22	DN
Disinfectant		1 x 2 Liter Bottle	12-Apr-22	DN
Covid-19 Mask		1 x Person	12-Apr-22	DN
DOCUMENTS				
Project specific sampling field form		1	12-Apr-22	DN
Project specific Laboratory Analysis Request Form and Chain of Custody Form		1	12-Apr-22	DN
Project Specific monitoring localities and co-ordinates		1	12-Apr-22	DN
SAMPLING EQUIPMENT				
Handheld PM Meter				
Aerocet 831 PM meter		1	12-Apr-22	DN
Sampling Containers				
5 Litre Dust Bucket		100	12-Apr-22	DN
Signatures:				
				

APPENDIX B – ENVASS CHAIN OF CUSTODY (COC) FORM

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
1	DB01	16/4/2022	10h26	0.1	1.2	6.6	20.4	30.4
2	DB02	16/4/2022	10h30	4.0	16.4	169.4	246.0	267.6
3	DB03	16/4/2022	08h36	0.3	1.5	6.4	23.0	27.3
4	DB04	16/4/2022	08h11	0.9	6.6	29.1	116.1	136.3
5	DB05	16/4/2022	08h07	2.4	23.2	65.2	284.2	301.1
6	DB06	16/4/2022	08h02	4.7	42.2	92.8	372.7	42.2
7	DB07	16/4/2022	7h59	0.5	1.6	8.4	40.4	47.1
8	DB08	16/4/2022	7h54	0.3	1.2	4.1	14.3	19.0
9	DB09	16/4/2022	7h44	0.4	1.8	6.7	10.5	40.0
10	DB10	16/4/2022	7h27	0.5	2.4	14.9	40.1	199.6
11	DB11	16/4/2022	7h22	0.3	1.6	7.8	38.0	43.3
12	DB12	16/4/2022	08h16	0.3	1.0	5.4	42.0	54.0
13	DB13	13/4/2022	10h36	0.3	1.4	8.6	30.4	43.1
14	DB14	16/4/2022	08h23	0.6	4.3	9.0	27.9	32.3
15	DB15	NO ACCESS						
16	DB16	NO ACCESS						
17	DB17	Stopped						
18	DB18	13/4/2022	2020	0.5	1.7	8.6	45.0	48.1
19	DB19	13/4/2022	20h16	0.2	1.5	7.9	20.0	19.0
20	DB20	13/4/2022	20h14	0.6	4.0	11.0	25.0	31.0
21	DB21	13/4/2022	20h11	0.5	6.4	10.8	27.9	32.3
22	DB22	13/4/2022	20h07	0.4	1.1	3.7	11.4	18.0
23	DB23	13/4/2022	20h03	1.0	8.1	13.1	24.0	30.8
24	DB24	13/4/2022	20h01	0.3	6.5	11.0	20.0	24.7
25	DB25	13/4/2022	19h58	0.3	5.4	10.9	23.2	25.0
26	DB26	13/4/2022	19h55	0.4	4.1	9.7	22.8	25.0
27	DB27	13/4/2022	19h53	0.3	1.8	9.4	20.5	50.6
28	DB28	13/4/2022	19h49	0.4	1.9	14.7	25.1	40.1
29	DB29	13/4/2022	19h45	0.4	2.1	18.7	30.2	53.2
30	DB30	13/4/2022	19h42	0.5	1.7	10.2	24.7	30.2
31	DB31	13/4/2022	19h39	0.3	1.4	9.7	57.8	70.8
32	DB32	13/4/2022	19h35	0.3	1.1	13.9	35.8	35.9
33	DB33	13/4/2022	19h33	1.1	1.8	22.0	29.0	68.9
34	DB34	13/4/2022	19h30	0.3	1.3	9.6	23.2	50.4
35	DB35	13/4/2022	19h29	0.4	1.8	10.10	20.4	32.2
36	DB36	13/4/2022	19h27	0.3	1.6	7.9	18.8	36.4
37	DB37	13/4/2022	19h26	0.4	2.2	20.0	20.1	30.7
38	DB38	13/4/2022	19h24	0.4	1.9	19.6	24.5	34.8
39	DB39	13/4/2022	19h21	0.3	2.4	15.4	23.8	54.0
40	DB40	13/4/2022	19h19	0.3	2.9	16.7	25.7	46.2
41	DB41	13/4/2022	19h18	0.4	4.0	16.8	28.0	64.9
42	DB42	13/4/2022	19h17	0.4	5.2	15.1	30.2	39.3
43	DB43	13/4/2022	19h13	0.3	1.2	4.9	15.1	15.0

(Very Busy Road)

(near to Masjid)

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
44	DB44 *	13/4/2022	19:06	0.3	1.2	10.5	20.5	30.8
45	DB45	13/4/2022	19:02	0.4	1.4	9.8	23.0	42.3
46	DB46	13/4/2022	18:59	0.4	2.8	9.9	20.7	38.7
47	DB47	13/4/2022	18:57	0.4	2.3	10.1	21.0	24.7
48	DB48	13/4/2022	18:54	0.3	2.0	9.8	23.0	27.9
49	DB49	13/4/2022	18:51	0.3	2.7	7.4	21.0	31.1
50	DB50	13/4/2022	18:47	0.3	1.9	7.3	24.3	28.9
51	DB51	13/4/2022	18:45	0.3	1.8	6.5	22.2	23.7
52	DB52	13/4/2022	18:42	0.3	1.7	8.1	21.9	30.1
53	DB53	13/4/2022	18:40	0.4	1.5	6.2	22.7	28.3
54	DB54	13/4/2022	18:37	0.4	1.8	5.0	25.9	30.0
55	DB55	13/4/2022	18:34	0.3	1.7	8.5	24.1	27.5
56	DB56	13/4/2022	18:30	0.3	1.7	8.4	19.4	20.1
57	DB57	13/4/2022	18:27	0.5	1.4	10.1	30.4	32.0
58	DB58 *	13/4/2022	18:25	0.3	1.4	10.5	25.8	27.7
59	DB59	13/4/2022	18:22	0.3	1.5	7.5	20.1	22.6
60	DB60	13/4/2022	18:20	0.4	1.6	5.8	21.3	25.6
61	DB61	13/4/2022	18:17	0.4	1.5	11.0	29.7	38.7
62	DB62	13/4/2022	18:15	0.4	1.1	4.7	28.7	35.0
63	DB63	13/4/2022	18:13	0.5	1.0	10.1	27.1	33.8
64	DB64	13/4/2022	18:10	0.4	1.1	8.3	22.9	29.7
65	DB65	13/4/2022	18:07	0.3	1.1	6.3	30.0	57.0
66	DB66	13/4/2022	18:05	0.3	1.3	6.5	17.5	25.1
67	DB67	13/4/2022	18:02	0.3	1.4	7.8	26.1	36.2
68	DB68	13/4/2022	18:00	0.5	1.7	5.8	30.1	36.7
69	DB69	13/4/2022	17:57	0.2	1.3	11.2	18.3	34.0
70	DB70	13/4/2022	17:55	0.2	1.2	8.7	26.3	30.1
71	DB71	13/4/2022	17:50	0.3	2.8	7.8	30.1	47.0
72	DB72	13/4/2022	17:47	0.4	2.4	13.2	28.7	38.9
73	DB73	13/4/2022	17:42	0.1	1.8	9.0	30.0	41.6
74	DB74	13/4/2022	17:40	0.3	1.4	10.1	27.8	31.1
75	DB75	13/4/2022	17:38	0.5	1.2	10.8	29.1	35.6
76	DB76	13/4/2022	17:34	0.4	1.2	9.7	26.9	27.0
77	DB77	13/4/2022	17:27	0.1	1.3	12.0	25.3	29.3
78	DB78	13/4/2022	17:23	0.2	1.2	10.3	26.8	27.0
79	DB79	13/4/2022	16:34	0.1	2.4	11.4	30.2	40.7
80	DB80	13/4/2022	16:32	0.2	1.9	10.0	29.0	30.5
81	DB81	13/4/2022	16:40	0.2	1.4	8.7	28.7	29.1
82	DB82	13/4/2022	16:47	0.2	1.3	14.1	31.2	40.0
83	DB83	13/4/2022	16:52	0.2	1.8	10.8	30.0	35.8
84	DB84	13/4/2022	15:47	0.2	2.0	11.1	29.7	30.0
85	DB85	13/4/2022	15:36	0.2	1.4	9.0	26.0	27.0
86	DB86	13/4/2022	12:42	0.2	1.3	15.0	27.0	31.0

(3 months)
(3 months)

GBN-JV 2A-C-8.9 Air Monitoring								
No	Sample ID	Date	Time	Comment				
				PM 1	PM 2.5	PM 4	PM 10	TSP
87	DB87	13/4/2022	14h15	0.4	1.8	5.8	24.0	30.4
88	DB88	13/4/2022	14h20	0.5	2.4	6.7	23.2	27.5
89	DB89	13/4/2022	12h00	0.4	1.8	10.1	28.8	40.1
90	DB90	13/4/2022	14h34	0.4	1.3	4.9	26.7	42.2
91	DB91	13/4/2022	14h30	0.5	1.6	6.6	30.4	32.7
92	DB92	13/4/2022	11h38	0.3	2.5	7.6	30.1	47.3
93	DB93	13/4/2022	11h28	0.3	4.2	5.8	28.7	25.9
94	DB94	13/4/2022	14h20	0.3	5.4	5.9	27.0	24.3
95	DB95	13/4/2022	10h30	0.4	6.1	7.9	27.9	43.0
96	DB96	14/4/2022	09h20	0.4	4.3	8.5	45.0	80.0
97	DB97	13/4/2022	16h44	0.5	5.4	7.2	38.1	22.7
98	DB98	13/4/2022	16h57	0.5	7.6	6.4	24.3	32.4
99	DB99	13/4/2022	12h37	0.4	5.2	7.3	32.3	44.0
100	DB100	13/4/2022	11h55	0.5	8.1	12.0	22.3	33.3


PM01 - School → 13/4/2022 → 12h01

PM02 - Madup (Esbon) → 14/04/2022 → 09h10h19

PM03 - Moanaleia 13/04/2022 → 14h37


APPENDIX C – MONITORING LOCALITY SUMMARY TABLE

Air Quality Monitoring Localities:

DB 01	
<p>Location: 23°40'41.16"S; 27°36'4.24"E</p> <p>Farm: Grootestryd 465 LO Portion 5</p> <p>Description: Near Matimba Power Station</p>	
March 2021	Date Installed: 31 st March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 20th July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 19th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 01	
August 2021	Date Sampled: 16 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Not Sampled – Tampered Air Quality Class: NA
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Not Sampled – Stolen Air Quality Class: NA
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 th April 2022


DB 01	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 02	
<p>Location: 23°40'52.25"S; 27°36'2.03"E</p> <p>Farm: Grootestryd 465 LQ Portion 5</p> <p>Description: Near Matimba Power Station</p>	
March 2021	Date Installed: 31 st March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 20th July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 19th August 2021</p> <p>Sample Status: Sampled</p>

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DB 02	
	Air Quality Class: Ideal
August 2021	Date Sampled: 16 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 02	
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 03	
Location: 23°41'37.30"S; 27°33'44.10"E Farm: Turfvlakte 463 LQ Description: Next to D1675	
March 2021	Date Installed: 31 st March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 th August 2021

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DB 03	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19th January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15th February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 16th March 2022</p> <p>Sample Status: Sampled</p>

DB 03	
	Air Quality Class: Ideal
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 04	
Location: 23°41'57.80"S; 27°32'48.26"E Farm: Hierontrent 460 LQ Description: Next to D1675	
March 2021	Date Installed: 31 st March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 th July 2021 Sample Status: Not Sampled – Bucket Stolen
July 2021	Date Sampled: 19 th August 2021

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DB 04	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded both the Residential limit and the Industrial Limit</p>
September 2021	<p>Date Sampled: 12th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19th January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15th February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 16th March 2022</p> <p>Sample Status: Sampled</p>

DB 04	
	Air Quality Class: Ideal
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 05	
Location: 23°42'13.03"S, 27°31'52.68"E Farm: Eenzaamheid 687 LQ Description: Next D1675	
March 2021	Date Installed: 31 st March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 th July 2021 Sample Status: Sampled Air Quality Class: Ideal

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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DB 05	
July 2021	Date Sampled: 19 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit
February 2022	Date Sampled: 16 th March 2022

DB 05	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 14th April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 06	
<p>Location: 23°42'29.97"S, 27°30'32.64"E</p> <p>Farm: Eenzaamheid 687 LQ</p> <p>Description: Next to D1675</p>	
March 2021	Date Installed: 31 st March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 20th July 2021</p> <p>Sample Status: Sampled</p>

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DB 06	
	Air Quality Class: Ideal
July 2021	Date Sampled: 19 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 06	
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 07	
Location: 23°42'32.26"S, 27°29'48.38"E Farm: Eenzaamheid 687 LQ Description: Next to D1675	
March 2021	Date Installed: 31 st March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 th July 2021

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DB 07	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 19th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19th January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15th February 2022</p> <p>Sample Status: Sampled</p>

DB 07	
	Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 08	
Location: 23°42'43.21"S, 27°27'48.78"E Farm: Pontes Estate 744 LQ Description: Outside farm gate next D1675	
March 2021	Date Installed: 31 st March 2021
April 2021	Date Sampled: 6 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 08	
June 2021	Date Sampled: 20 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022


DB 08	
	Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 09	
Location: 23°42'55.98"S, 27°27'30.40"E Farm: Pontes Estate 744 LQ (Buffels Jag)	
March 2021	Date Installed: 31 st March 2021
April 2021	Date Sampled: 6 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 3 rd June 2021 Sample Status: Sampled

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DB 09	
	Air Quality Class: Ideal
June 2021	Date Sampled: 20 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 16 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 13 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 09	
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 10	
Location: 23°43'28.90"S, 27°26'41.33"E Farm: Pontes Estate 744 LQ (Buffels Jag)	
March 2021	Date Installed: 31 st March 2021
April 2021	Date Sampled: 6 th May 2021 Sample Status: Sampled Air Quality Class: Ideal

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DB 10	
May 2021	Date Sampled: 3 rd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 16 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 13 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022

DB 10	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15th February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 16th March 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 14th April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 11	
<p>Location: 23°44'4.06"S, 27°25'46.60"E</p> <p>Farm: Pontes Estates 712 LQ</p> <p>Description: Border fence of Enkeldraai 718 LQ</p>	
March 2021	Date Installed: 31 st March 2021
April 2021	<p>Date Sampled: 6th May 2021</p> <p>Sample Status: Tampered (Attempted theft)</p>

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DB 11	
	Air Quality Class: Ideal
May 2021	Date Sampled: 3 rd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 st July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 16 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 13 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal


DB 11	
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 12	
Location: 23°41'23.55"S, 27°34'20.99"E Farm: N/A Description: N/A	
July 2021	Date Sampled: 19 th August 2021 Sample Status: Sampled

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DB 12	
	Air Quality Class: Ideal
August 2021	Date Sampled: 16 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 8 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 12	
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 13	
Location: 24°38'30.48"S, 27°18'53.46"E Farm: N/A Description: N/A	
June 2021	Date Installed: 19 th July 2021
July 2021	Date Sampled: 13 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 13 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021

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DB 13	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 8th December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 17th January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 14th February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 15th March 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 13th April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 14

Location: 23°41'8.24"S, 27°35'18.63"E

Farm: N/A

Description: N/A



July 2021

Date Sampled: 19th August 2021

Sample Status: Installed

Air Quality Class: NA

August 2021

Date Sampled: 16th September 2021

Sample Status: Sampled

Air Quality Class: Ideal

September 2021

Date Sampled: 12th October 2021

Sample Status: Sampled

Air Quality Class: Ideal

October 2021

Date Sampled: 9th November 2021

Sample Status: Sampled

Air Quality Class: Ideal

November 2021

Date Sampled: 8th December 2021

Sample Status: Sampled

Air Quality Class: Ideal

Document No:

MON-AQR-244-20_21 (22-03)

Revision:

0.0

Date:

March to April 2022

GIBB Bigen Nyeleti Joint Venture
(GBN-JV)

Client Restricted

Author: D Nell

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DB 14	
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 15	
Location: 23°46'41.92"S, 27°25'52.99"E Farm: Zandnek 358 LQ Portion 1 Description: Servitude Road	
March 2021	Date Installed: 31 st March 2021
April 2021	Date Sampled: 5 th May 2021

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
Revision:	0.0		Author: D Nell
Date:	March to April 2022		93

DB 15	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 20th July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: NA</p> <p>Sample Status: Not Sampled – No Access</p> <p>Air Quality Class: NA</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p>


DB 15	
	Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Not Sampled – No Access Air Quality Class: NA

DB 16	
Location: 23°47'39.91"S, 27°25'39.16"E Farm: Renosterpan 361 Portion 6 Description: Servitude Road	
March 2021	Date Installed: 31 st March 2021

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
Revision:	0.0		Author: D Nell
Date:	March to April 2022		95

DB 16	
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: NA Sample Status: Not Sampled – No Access Air Quality Class: NA
November 2021	Date Sampled: 9 th December 2021

DB 16	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
December 2021	<p>Date Sampled: 17th January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15th February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 16th March 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 13th April 2022</p> <p>Sample Status: Not Sampled – No Access</p> <p>Air Quality Class: NA</p>

DB 17	
<p>Location: 23°49'17.37"S, 27°25'15.13"E</p> <p>Farm: Renosterpan 361 Portion 3</p> <p>Description: Servitude Road</p>	

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
Revision:	0.0		Author: D Nell
Date:	March to April 2022		97

DB 17	
March 2021	Date Installed: 31 st March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: NA Sample Status: Not Sampled – No Access Air Quality Class: NA

DB 17	
November 2021	Date Sampled: NA Sample Status: Not Sampled – No Access Air Quality Class: NA
December 2021	Date Sampled: 17 th January 2022 Sample Status: Not Sampled – Bucket Stolen Air Quality Class: NA
January 2022	Date Sampled: 15 th February 2022 Sample Status: Not Sampled – Dust Bucket Stand Stolen Air Quality Class: NA
February 2022	Date Sampled: 16 th March 2022 Sample Status: Not Sampled – Dust Bucket Stand Stolen Air Quality Class: NA
March 2022	Date Sampled: 13 th April 2022 Sample Status: Not Sampled – Dust Bucket Stand Stolen Air Quality Class: NA

Location: 23°50'5.11"S, 27°25'4.54"E

Farm: Renosterpan 361 Portion 4

Description: Servitude Road



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 18	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

<p>Location: 23°50'36.53"S, 27°24'56.77"E</p> <p>Farm: Renosterpan 361 Portion 4</p> <p>Description: Servitude Road</p>	
March 2021	Date Installed: 30 th March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p>

DB 19	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°51'5.81"S, 27°24'49.59"E

Farm: Renosterpan 361 Portion 5

Description: Servitude Road



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 20	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°51'43.25"S, 27°24'40.22"E

Farm: Naauwpoort 365 LQ

Description: Servitude Road



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 21	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°52'22.70"S, 27°24'31.05"E

Farm: Naauwpoort 365 LQ

Description: Servitude Road



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 22	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 23

Location: 23°53'36.73"S, 27°24'13.40"E

Farm: Rooipan 357 LQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 23	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°53'39.51"S, 27°24'12.55"E

Farm: Rooipan 357 LQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 24	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°54'1.90"S, 27°24'6.76"E

Farm: Rooipan 357 LQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021


Date Sampled: 15th September 2021

Sample Status: Sampled

DB 25	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

<p>Location: 23°54'46.08"S, 27°23'56.64"E</p> <p>Farm: Rooipan 357 LQ Portion 4</p> <p>Description: Servitude Dam</p>	
March 2021	Date Installed: 29 th March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p>

DB 26	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

<p>Location: 23°55'22.69"S, 27°23'47.77"E</p> <p>Farm: Zandfontein Portion 2</p> <p>Description: Servitude Road</p>	
March 2021	Date Installed: 29 th March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p>

DB 27	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°56'29.84"S, 27°23'31.71"E

Farm: Zandfontein Portion 2

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 28	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°57'11.41"S, 27°23'28.14"E

Farm: Diepspruit 386 LQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 29	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°57'58.79"S, 27°23'37.97"E

Farm: Diepspruit 386 LQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 30	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°58'36.77"S, 27°23'44.50"E

Farm: Mabulskop 406 LQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 31	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°59'45.59"S, 27°23'58.25"E

Farm: Mabulskop 406 LQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 32	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 0'4.67"S, 27°24'1.95"E

Farm: Groenland 397 LQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 33	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 0'37.82"S, 27°24'8.36"E

Farm: Groenland 397 LQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 34	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 0'51.33"S, 27°24'10.07"E

Farm: Inkerman 10 KQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 35	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 1'3.54"S, 27°24'12.35"E

Farm: Inkerman 10 KQ portion 3

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021


Date Sampled: 15th September 2021

Sample Status: Sampled

DB 36	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

<p>Location: 24° 1'7.07"S, 27°24'13.15"E</p> <p>Farm: Inkerman 10 KQ portion 3</p> <p>Description: Servitude Road</p>	
March 2021	Date Installed: 29 th March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p>

DB 37	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Not Sampled – Bucket Stolen Air Quality Class: NA
January 2022	Date Sampled: 15 th February 2022 Sample Status: Not Sampled – Bucket Stolen Air Quality Class: NA
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

<p>Location: 24° 1'34.37"S, 27°24'18.32"E</p> <p>Farm: Inkerman 10 KQ Portion 3</p> <p>Description: Servitude Road</p>	
March 2021	Date Installed: 29 th March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 38	
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 38	
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 39	
Location: 23°41'35.31"S; 27°38'51.43"E Farm: Rietfontein 820 KQ Description: Servitude Road	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 st July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 th August 2021

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DB 39	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19th January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15th February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 16th March 2022</p> <p>Sample Status: Sampled</p>

DB 39	
	Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 40	
Location: 24° 2'29.74"S, 27°24'28.91"E Farm: Rietfontein 820 KQ Description: Servitude Road	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 st July 2021 Sample Status: Sampled Air Quality Class: Ideal

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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DB 40	
July 2021	Date Sampled: 18 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Not Sampled – Tampered Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022

DB 40	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 13th April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 41	
<p>Location: 24° 2'40.69"S, 27°24'31.20"E</p> <p>Farm: Rietfontein 820 KQ</p> <p>Description: Servitude Road</p>	
March 2021	Date Installed: 29 th March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p>

DB 41	
	Air Quality Class: Ideal
July 2021	Date Sampled: 18 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal


DB 41	
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 42	
Location: 24° 2'46.02"S, 27°24'32.19"E Farm: Rietfontein 15 KQ Portion 4 Description: Servitude Road	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 st July 2021

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DB 42	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19th January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 15th February 2022</p> <p>Sample Status: Sampled</p>

DB 42	
	Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 43	
Location: 24° 3'21.38"S, 27°24'37.93"E Farm: Rietfontein 15 KQ Portion 4 Description: Servitude Road	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
Revision:	0.0		Author: D Nell
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DB 43	
June 2021	Date Sampled: 21 st July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022

DB 43	
	Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 44	
Location: 24° 4'29.95"S, 27°24'51.86"E Farm: Schoonwater 14 KQ Portion 1 Description: Servitude Road	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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DB 44	
	Air Quality Class: Ideal
June 2021	Date Sampled: 21 st July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 44	
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 45	
Location: 24° 4'53.87"S, 27°24'55.26"E Farm: Schoonwater 14 KQ Portion 1 Description: Servitude Road	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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DB 45	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 19th January 2022</p> <p>Sample Status: Sampled</p>

DB 45	
	Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 46	
Location: 24° 5'48.56"S, 27°25'8.99"E Farm: Welgewonden 16 KQ portion 6 Description: Servitude Road	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled Air Quality Class: Ideal

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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DB 46	
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 st July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022


DB 46	
	Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 47	
Location: 24° 6'2.39"S, 27°25'12.90"E Farm: Welgewonden 16 KQ portion 9 Description: Servitude Road	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 5 th May 2021 Sample Status: Sampled

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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Date:	March to April 2022		158

DB 47	
	Air Quality Class: Ideal
May 2021	Date Sampled: 2 nd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 21 st July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 18 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 15 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal

DB 47	
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 48	
Location: 24° 6'33.52"S, 27°25'21.12"E Farm: Welgewonden 949 KQ Description: Servitude Road	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 5 th May 2021

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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DB 48	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 2nd June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 12th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 10th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p>

DB 48	
	Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 7'11.42"S, 27°25'32.63"E

Farm: Welgewonden 949 KQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 49	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 7'50.30"S, 27°25'43.01"E

Farm: Welgewonden 949 KQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 50	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Not Sampled – Bucket Stolen Air Quality Class: NA
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 8'36.82"S, 27°25'56.47"E

Farm: Welgewonden 949 KQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 51	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 9'10.22"S, 27°26'5.85"E

Farm: Welgewonden 949 KQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 52	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Not Sampled – Bucket Stolen Air Quality Class: NA
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 9'23.38"S, 27°26'10.00"E

Farm: Harlemoost 51 KQ portion 13

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 53	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24° 9'56.57"S, 27°26'19.10"E

Farm: Harlemoost 51 KQ portion 13

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 54	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°10'32.51"S, 27°26'26.49"E

Farm: Harlemoost 51 KQ portion 16

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 55	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°10'55.15"S, 27°26'36.17"E

Farm: Harlemoost 51 KQ portion 15

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 56	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°11'38.61"S, 27°26'48.79"E

Farm: Harlemoost 51 KQ portion 15

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 2nd June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 57	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°11'49.30"S, 27°26'51.53"E

Farm: Matlabas 94 KQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 58	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

<p>Location: 24°12'25.42"S, 27°26'59.45"E</p> <p>Farm: Matlabas 94 KQ Portion 2</p> <p>Description: Servitude Road</p>	
March 2021	Date Installed: 29 th March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 1st June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p>

DB 59	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°13'6.00"S, 27°26'59.07"E

Farm: Matlabas 94 KQ Portion 2

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 60	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°14'34.19"S, 27°26'58.48"E

Farm: Matsulan 98 KQ Portion 37

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled


Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 61	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

<p>Location: 24°14'49.64"S, 27°26'58.86"E</p> <p>Farm: Matsulan 98 KQ Portion 37</p> <p>Description: Servitude Road</p>	
March 2021	Date Installed: 29 th March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 1st June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p>

DB 62	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°15'19.44"S, 27°26'58.33"E

Farm: Witklip 665 KQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 63	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°16'6.23"S, 27°26'58.26"E

Farm: Witklip 665 KQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 64	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°16'42.57"S, 27°26'57.57"E

Farm: Witklip 665 KQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 65	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°17'26.82"S, 27°26'56.01"E

Farm: Witklip 665 KQ Portion 4

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled


Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 66	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

<p>Location: 24°18'14.46"S, 27°26'56.97"E</p> <p>Farm: Rugtevley 97 KQ Portion 5</p> <p>Description: Servitude Road</p>	
March 2021	Date Installed: 29 th March 2021
April 2021	<p>Date Sampled: 5th May 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 1st June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 21st July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 18th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 15th September 2021</p> <p>Sample Status: Sampled</p>

DB 67	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°18'49.52"S, 27°26'57.63"E

Farm: Rugtevley 97 KQ Portion 5

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 68	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°19'31.03"S, 27°26'56.52"E

Farm: Rugtevley 97 KQ Portion 6

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 69	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Not Sampled – Bucket was Stolen Air Quality Class: NA
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°20'4.26"S, 27°26'56.14"E

Farm: Rugtevley 97 KQ Portion 6

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 70	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°20'45.70"S, 27°26'55.87"E

Farm: Blaauwpan 133 KQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 71	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

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Revision:	0.0	(GBN-JV)	Author: D Nell
Date:	March to April 2022		208

Location: 24°21'48.85"S, 27°26'55.81"E

Farm: Blaauwpan 133 KQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 72	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential limit.
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 73

Location: 24°23'9.52"S, 27°26'54.85"E

Farm: Blaauwpan 133 KQ

Description: Servitude Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 73	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°23'21.10"S, 27°26'33.71"E

Description: Dirt road between Tarentaalpan 132 KQ portion 2 and
Diepkuil 135 Portion 5



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 74	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°23'31.60"S, 27°26'13.03"E

Description: Dirt road between Tarentaalpan 132 KQ portion 2 and Diepkuil 135 Portion 5



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: **Stolen (Dust Bucket stolen from the dust stand)**

Air Quality Class: NA

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 75	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Not Sampled – Bucket Was Stolen Air Quality Class: NA
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Not Sampled – Dust Bucket Stolen Air Quality Class: NA
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 76

Location: 24°23'53.46"S, 27°25'19.77"E

Description: Dirt road between Tarentaalpan 132 KQ portion 2 and
Diepkuil 135 Portion 3



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 18th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 15th September 2021

Sample Status: Sampled

DB 76	
	Air Quality Class: Ideal
September 2021	Date Sampled: 12 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 77

Location: 24°24'24.61"S, 27°24'3.45"E

Farm: Diepkuil 135 KQ Portion 3

Description: Along the R510



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 77	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential limit.
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 23°41'35.31"S; 27°38'51.43"E

Farm: Diepkuil Portion 3

Description: Along the R510



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 5th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 21st July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 78	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°25'29.93"S, 27°24'23.06"E

Farm: Diepkuil 135 KQ Portion 1

Description: Along the R510



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 4th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19th July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 79	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 80

Location: 24°25'33.45"S, 27°24'13.50"E

Description: Along Dirt road between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 4th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19th July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 80	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°25'47.88"S, 27°23'10.20"E

Description: Along Dirt road between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 4th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19th July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 81	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°26'31.14"S, 27°21'39.92"E

Description: Along Dirt road between Buffelsvley 127 KQ and Karoobult 126 KQ



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 4th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19th July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 82	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°27'9.88"S, 27°20'11.67"E

Description: Along Dirt road between Buffelsvley 127 KQ and Karoobult 126 KQ



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 4th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19th July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 83	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°28'20.86"S, 27°17'27.36"E

Farm: Paarl 124 KQ Portion 6

Description: Beneath power line



March 2021

Date Installed: 30th March 2021

April 2021

Date Sampled: 4th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19th July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 84	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: NA Sample Status: Not Sampled – No Access Air Quality Class: NA
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Not Sampled – No Access Air Quality Class: NA
February 2022	Date Sampled: 15 th March 2022 Sample Status: Not Sampled – No Access Air Quality Class: NA
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°30'0.19"S, 27°16'58.48"E

Farm: Paarl 124 KQ Portion 3

Description: Beneath powerlines near eastern boundary line



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 4th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19th July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 85	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: NA Sample Status: Not Sampled – No Access Air Quality Class: NA
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Not Sampled – No Access Air Quality Class: NA
February 2022	Date Sampled: 15 th March 2022 Sample Status: Not Sampled – No Access Air Quality Class: NA
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°31'38.11"S, 27°16'29.83"E

Farm: Stratford 462 KO

Description: Along D769 dirt road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 4th May 2021

Sample Status: Sampled

Air Quality Class: Exceeded Residential Limit

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Exceeded Residential Limit

June 2021

Date Sampled: 19th July 2021

Sample Status: Sampled

Air Quality Class: Exceeded Residential Limit

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Exceeded Residential Limit

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 86	
	Air Quality Class: Exceeded Residential Limit
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

Location: 24°33'53.16"S, 27°18'16.95"E

Farm: Stratford 462 KQ

Description: Along D769 dirt road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 4th May 2021

Sample Status: Sampled

Air Quality Class: Exceeded both Residential and Industrial limits

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Exceeded both Residential and Industrial limits

June 2021

Date Sampled: 19th July 2021

Sample Status: Sampled

Air Quality Class: Exceeded both Residential and Industrial limits

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Exceeded both Residential and Industrial limits

DB 87	
August 2021	<p>Date Sampled: 14th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded both the Residential limit and the Industrial</p>
September 2021	<p>Date Sampled: 11th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded both the Residential limit and the Industrial</p>
October 2021	<p>Date Sampled: 9th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded the Residential, Industrial and Unacceptable limit</p>
December 2021	<p>Date Sampled: 18th January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 14th February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded the Residential and Industrial Limit.</p>
February 2022	<p>Date Sampled: 15th March 2022</p> <p>Sample Status: Sampled</p>


DB 87	
	Air Quality Class: Exceeded the Residential and Industrial Limits.
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit.

DB 88	
Location: 24°34'14.79"S, 27°18'36.10"E Farm: Stratford 462 KQ Description: Situated between the houses of the small community	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 4 th May 2021 Sample Status: Sampled Air Quality Class: Exceeded Residential Limit
May 2021	Date Sampled: 1 st June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 19 th July 2021 Sample Status: Sampled

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DB 88	
	Air Quality Class: Ideal
July 2021	Date Sampled: 17 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Exceeded both the residential and industrial limits.
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 88	
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit.

DB 89	
Location: 24°34'24.25"S, 27°18'35.18"E Farm: Stratford 462 KQ Description: Situated within Primary School Property	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 4 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 1 st June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 19 th July 2021

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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DB 89	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 17th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 14th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 11th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 9th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
December 2021	<p>Date Sampled: 18th January 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 14th February 2022</p> <p>Sample Status: Sampled</p>

DB 89	
	Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 90	
Location: 24°35'35.70"S, 27°17'45.31"E Farm: Mooivalei 342 KQ – Portion 1 Description: Situated next to the farmhouse property fence	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 4 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 1 st June 2021 Sample Status: Sampled Air Quality Class: Ideal

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Date:	March to April 2022		245

DB 90	
June 2021	Date Sampled: 19 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 17 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022

DB 90	
	Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 91	
Location: 24°35'59.20"S, 27°17'38.40"E Farm: Mooivalei 342 KQ – Portion 2 Description: Situated Within the farmhouse boundary fence	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 4 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 3 rd June 2021 Sample Status: Sampled

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DB 91	
	Air Quality Class: Ideal
June 2021	Date Sampled: 22 nd July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 17 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 91	
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 92	
Location: 24°36'25.02"S, 27°17'49.23"E Farm: Mooivalei 342 KQ – Portion 4 Description: Situated near the farmhouse	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 4 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 1 st June 2021

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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Date:	March to April 2022		249

DB 92	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 19th July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 17th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 14th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 11th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 9th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
December 2021	<p>Date Sampled: 18th January 2022</p> <p>Sample Status: Sampled</p>

DB 92	
	Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 93	
Location: 24°36'51.37"S, 27°18'27.13"E Farm: Mooivalei 342 KQ – Portion 7 Description: Situated next to the farm work shed	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 4 th May 2021 Sample Status: Sampled Air Quality Class: Ideal

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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Date:	March to April 2022		251

DB 93	
May 2021	Date Sampled: 1 st June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 19 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 17 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022

DB 93	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
January 2022	<p>Date Sampled: 14th February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 15th March 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 13th April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 94	
<p>Location: 24°37'18.10"S, 27°18'45.97"E</p> <p>Farm: Mooivalei 342 KQ – Portion 9</p> <p>Description: Situated within horse paddock</p>	
March 2021	Date Installed: 29 th March 2021
April 2021	<p>Date Sampled: 4th May 2021</p> <p>Sample Status: Sampled</p>

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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DB 94	
	Air Quality Class: Ideal
May 2021	Date Sampled: 1 st June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 19 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 17 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal

DB 94	
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 95	
Location: 24°38'3.48"S, 27°18'54.13"E Farm: NA Description: Along D727 dirt road	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 4 th May 2021

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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DB 95	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 1st June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
June 2021	<p>Date Sampled: 19th July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 17th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Exceeded Residential Limit</p>
August 2021	<p>Date Sampled: 14th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 11th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 9th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p>

DB 95	
	Air Quality Class: Ideal
December 2021	Date Sampled: 17 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 96	
Location: 23°41'25.22"S, 27°34'18.42"E Farm: NA Description: Along unnamed dirt road on the fence line of Exxaro coal mine	
March 2021	Access Restrictions

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DB 96	
April 2021	Date Installed: 6 th May 2021
May 2021	Date Sampled: 3 rd June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 20 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 19 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 16 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal

DB 96	
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 97	
Location: 24°26'15.46"S, 27°22'29.41"E Description: Along Dirt road between Zondagsuil 137 KQ and Diepkuil 135 KQ portion 1	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 4 th May 2021

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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Date:	March to April 2022		259

DB 97	
	<p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
May 2021	<p>Date Sampled: 1st June 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
June 2021	<p>Date Sampled: 19th July 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
July 2021	<p>Date Sampled: 17th August 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
August 2021	<p>Date Sampled: 14th September 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
September 2021	<p>Date Sampled: 11th October 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
October 2021	<p>Date Sampled: 9th November 2021</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
November 2021	<p>Date Sampled: 9th December 2021</p> <p>Sample Status: Sampled</p>

DB 97	
	Air Quality Class: Exceeded Residential Limit
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

DB 98	
Location: 24°26'48.84"S, 27°18'57.38"E Farm: Buffelsvley 127 KQ Description: Next to workshop/ homestead	
March 2021	Date Installed: 29 th March 2021

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture (GBN-JV)	Client Restricted
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DB 98	
April 2021	Date Sampled: 4 th May 2021 Sample Status: Sampled Air Quality Class: Ideal
May 2021	Date Sampled: 1 st June 2021 Sample Status: Sampled Air Quality Class: Ideal
June 2021	Date Sampled: 19 th July 2021 Sample Status: Sampled Air Quality Class: Ideal
July 2021	Date Sampled: 17 th August 2021 Sample Status: Sampled Air Quality Class: Ideal
August 2021	Date Sampled: 14 th September 2021 Sample Status: Sampled Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: NA

DB 98	
	<p>Sample Status: Not Sampled – No Access</p> <p>Air Quality Class: NA</p>
December 2021	<p>Date Sampled: NA</p> <p>Sample Status: Not Sampled – No Access</p> <p>Air Quality Class: NA</p>
January 2022	<p>Date Sampled: 14th February 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
February 2022	<p>Date Sampled: 15th March 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>
March 2022	<p>Date Sampled: 13th April 2022</p> <p>Sample Status: Sampled</p> <p>Air Quality Class: Ideal</p>

DB 99	
<p>Location: 24°32'48.86"S, 27°17'24.55"E</p> <p>Farm: Stratford 462 KQ</p> <p>Description: Along D769 dirt road</p>	

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DB 99	
March 2021	Date Installed: 29 th March 2021
April 2021	Date Sampled: 4 th May 2021 Sample Status: Sampled Air Quality Class: Exceeded residential limits
May 2021	Date Sampled: 1 st June 2021 Sample Status: Sampled Air Quality Class: Exceeded both the Residential and Industrial limits
June 2021	Date Sampled: 19 th July 2021 Sample Status: Sampled Air Quality Class: Exceeded residential limits
July 2021	Date Sampled: 17 th August 2021 Sample Status: Sampled Air Quality Class: Exceeded both the Residential and Industrial limits
August 2021	Date Sampled: 14 th September 2021 Sample Status: Sampled Air Quality Class: Exceeded the Residential limit
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Exceeded the Residential limit
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled

Document No:	MON-AQR-244-20_21 (22-03)	GIBB Bigen Nyeleti Joint Venture	Client Restricted
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DB 99	
	Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential limit.
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit.
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Exceeded the Residential Limit.

DB 100

Location: 24°35'5.76"S, 27°18'49.94"E

Farm: Mooivalei 342 KQ – Portion 1

Description: Near the D1649 Road



March 2021

Date Installed: 29th March 2021

April 2021

Date Sampled: 4th May 2021

Sample Status: Sampled

Air Quality Class: Ideal

May 2021

Date Sampled: 1st June 2021

Sample Status: Sampled

Air Quality Class: Ideal

June 2021

Date Sampled: 19th July 2021

Sample Status: Sampled

Air Quality Class: Ideal

July 2021

Date Sampled: 17th August 2021

Sample Status: Sampled

Air Quality Class: Ideal

August 2021

Date Sampled: 14th September 2021

Sample Status: Sampled

DB 100	
	Air Quality Class: Ideal
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled Air Quality Class: Ideal
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled Air Quality Class: Ideal
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled Air Quality Class: Ideal
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled Air Quality Class: Ideal
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled Air Quality Class: Ideal
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled Air Quality Class: Ideal
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled Air Quality Class: Ideal

ES01

Location: 24°34'22.26"S, 27°18'33.97"E

Description: Primary School



June 2021

Not installed due to insurance delays and time constraints

July 2021

Installed: 19th August 2021

August 2021

Date Sampled: 16th September 2021

Sample Status: Sampled

September 2021

Date Sampled: 11th October 2021

Sample Status: Sampled

October 2021

Date Sampled: 9th November 2021

Sample Status: Sampled

November 2021

Date Sampled: 8th December 2021

Sample Status: Sampled

December 2021

Date Sampled: 18th January 2022

Sample Status: Sampled

January 2022

Date Sampled: 14th February 2022

Sample Status: Sampled

February 2022

Date Sampled: 15th March 2022


Sample Status: Sampled

ES01	
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled

ES02	
Location: 23°41'51.31"S, 27°34'6.52"E Description: – Eskom - Medupi Power Station	
June 2021	Date Installed: 19 th July 2021
July 2021	Date Sampled: 20 th August 2021 Sample Status: Sampled
August 2021	Date Sampled: 14 th September 2021 Sample Status: Sampled
September 2021	Date Sampled: 13 th October 2021 Sample Status: Sampled
October 2021	Date Sampled: 10 th November 2021 Sample Status: Sampled
November 2021	Date Sampled: 9 th December 2021 Sample Status: Sampled
December 2021	Date Sampled: 19 th January 2022 Sample Status: Sampled

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ES02	
January 2022	Date Sampled: 15 th February 2022 Sample Status: Sampled
February 2022	Date Sampled: 16 th March 2022 Sample Status: Sampled
March 2022	Date Sampled: 14 th April 2022 Sample Status: Sampled

ES03	
Location: 24°35'37.25"S, 27°17'43.45"E Farm: Mooivalei 342 KQ – Portion 1 Description: Situated within the farmhouse property fence	
June 2021	Date Installed: 19 th July 2021
July 2021	Date Sampled: 20 th August 2021 Sample Status: Sampled
August 2021	Date Sampled: 14 th September 2021 Sample Status: Sampled
September 2021	Date Sampled: 11 th October 2021 Sample Status: Sampled
October 2021	Date Sampled: 9 th November 2021 Sample Status: Sampled

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ES03	
November 2021	Date Sampled: 8 th December 2021 Sample Status: Sampled
December 2021	Date Sampled: 18 th January 2022 Sample Status: Sampled
January 2022	Date Sampled: 14 th February 2022 Sample Status: Sampled
February 2022	Date Sampled: 15 th March 2022 Sample Status: Sampled
March 2022	Date Sampled: 13 th April 2022 Sample Status: Sampled

APPENDIX D – INDEPENDENT FORM AND CV

STATEMENT OF OBJECTIVENESS AND COMPETENCE

The author(s) of this document hereby declare that he/she/they:

- Act as an independent and objective consultant/s;
- Does not have any financial interest in the undertaking of this project or projects, other than remuneration for the work performed in terms of relevant legislation;
- Has and will not have a vested interest in the current and/or proposed activity, nor will engage in any directly conflicting interest associated with this project;
- Undertakes to function transparently and provide any information to a competent authority if compelled to do so by law or by consent of the involved parties;
- Based on the information provided by the client, due diligence studies or any other source or sources, have presented the results, discussion and conclusion, as applicable to the project concerned, to the best of his/her/their professional ability;
- Reserves the right to modify aspects pertaining to this study should additional information become available through ongoing research and further work on the relevant field/s;
- Undertakes to have the work peer reviewed on a regular basis by a competent specialist in the field/s of study;
- Is duly qualified and experienced to undertake the work at hand; and
- Adheres to the code of conduct as stipulated under Section 28 (3) of the Natural Scientific Professions Act 27 of 2003 as observed by the South African Council for Natural Scientific Professions (SACNASP).
- Signed by Anton Botha:



Date: 26-05-2022

Environmental Auditor	Relevant expertise
Anton Botha Pr. Sci.Nat Registration No 122440	Has completed a B.Sc. in Environmental Sciences, followed by a B.Sc. (Hons) and M.Sc. specialising in Hydrogeology and Hydrology. Anton has comprehensive experience and knowledge on compliance monitoring, project management and specialist reporting. As an environmental consultant, Anton has provided numerous environmental monitoring assessments, specialist input services, mine closure quantum's and environmental audits. monitoring assessments, specialist input services and environmental audits.



ENVIRONMENTAL ASSURANCE (PTY) LTD

Anton Botha

ENVIRONMENTAL CONSULTANT & DIVISIONAL MANAGER

394 Tram Street, New Muckleneuk, Pretoria, 0181

T : 012 460 9768 ; M : 083 555 4354; F : 012 460 3071 ; E mail : anton@envass.co.za

Date of Birth : 25 July 1991; Place of Birth : South Africa

Ethnic Group and Gender : White Male ; Disabilities : None

AREAS OF EXPERTISE

- Compliance Monitoring
- Data Analysis & Interpretation
- Potable, Ground and Surface Water Quality
- Compliance Monitoring
- Data Analysis & Interpretation
- Hydrogeology
- Ambient Air and Particulate Matter Quality
- Water and Salt Balance Development and Assessment
- Hydrogeology
- Ambient Air and Particulate Matter Quality
- Customer Relationships
- Site Audits and Inspections
- Field Sampling of dust, soil, ambient air and water
- Customer Relationships
- Site Audits and Inspections

CAREER HISTORY

Employer
Period
Position
Responsibilities

ENVIRONMENTAL ASSURANCE (PTY) LTD

Anton holds a B.Sc. in Environmental Sciences, followed by a B.Sc. (Hons) and M.Sc. specializing in Hydrogeology and Hydrology. He has comprehensive experience and knowledge on compliance monitoring, project management and specialist reporting. As an environmental consultant, Anton has provided several environmental monitoring assessments, audits, mine closure assessments and specialist input services.

BUSINESS UNIT HEAD: COMPLIANCE MONITORING, SPECIALIST AND MINE CLOSURE Environmental Consultant and Auditor

October 2018 – Current

- Develop and maintain environmental compliance monitoring programmes in conjunction with site audits and assessments. Monitoring co-ordination and planning of all relevant projects. Maintaining data and results from monitoring programmes and databases. Conduct compliance audits, determine compliance ratings and report on conditions. Determining financial provision of mine closures. Compile and overseeing reports on water-, soil-, air-quality and site findings, with interpretation of results and possible recommendations. Maintain and build customer relationships with guidance on environmental matters and updates on environmental legislation. Market to potential clients with site specific marketing material

EDUCATION AND QUALIFICATIONS

North-West University; Masters (MSc.) Hydrogeology - 2018
North-West University; Honours BSc. Hydrogeology and Hydrology - 2013
North-West University; Degree BSc. Environmental Science Geology and Geography – 2012

PROFESSIONAL STATUS Registration Membership

Registered as a Professional Natural Scientist (122440) with the South African Council of Natural Scientific Professions (SACNASP)

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PROJECT EXPERIENCE

PROJECT DESCRIPTION	CLIENT
Water and Air Quality Monitoring programme co-ordination, management and reporting	Afrimat Lyttleton
	Afrimat Delfsand
	Assmang Black Rock
	Assmang Dwarsrivier
	Barloworld Slurry
	Blue Diamond Mine
	Exxaro Base Metals Zincor
	Lonmin Marikana
	Kimberly Ekapa Mining
	Kimberley Ekapa Mining Joint Venture
	Kudumane Manganese Resources
	Mooikloof Heights
	Polokwane Smelter
	PPC Dwaalboom
	PPC Slurry
	Rolfes Silica
	TC Smelter
	Makoya Binkpan
	Makoya Highveld
	SACMH Umlabu
	SACMH Voorslag
	Ocon Brick
	Group 5 Everite
	Locksand
	Samancor WCM
	Samancor ECM
	Rosema Olifantsfontein
	Rosema Delmas
	Sublime
	SABrix Boekenhoutkloof
	SABrix Zandfontein
	Tubatse Chrome
	Infrabuild
	Federale Stene
	Tronox
	Canyon Coal
	Lynca Meats
	Ankerlig
	Lafarge
	SACMH Voorslag
Water and Salt Balances	PPC Dwaalboom
	Kimberly Ekapa Mining (De Beers)
	SABrix Zandfontein
	SABrix Boekenhoutkloof
	Lynca Meats
	Ilangabi Brikor Plant 1
	Kudumane Manganese
	Tronox Namakwa Sands Smelter
Specialist Noise, Air, Odour Assessments	Numerous
Odour Assessment	Lafarge Geocycle
Regulation 34 EMPr Audits	Several

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Technical AEL, WML and WUL Audits	Numerous
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REFERENCES

CONTACT NAME	COMPANY	RELATIONSHIP	CONTACT
Emile van Druten	ENVASS	Director	012 460 9768
Carl Schoeman	ENVASS	Consultant	012 460 9768



herewith certifies that

Anton Botha

Registration Number: 122440

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science (Professional Natural Scientist)

Effective 11 September 2019

Expires 31 March 2023



A handwritten signature in black ink, appearing to read 'Botha', is written over a horizontal line.

Chairperson

A handwritten signature in black ink, appearing to read 'R. J. J. J.', is written over a horizontal line.

Chief Executive Officer



To verify this certificate scan this code

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STATEMENT OF OBJECTIVENESS AND COMPETENCE

The author(s) of this document hereby declare that he/she/they:

- Act as an independent and objective consultant/s;
- Does not have any financial interest in the undertaking of this project or projects, other than remuneration for the work performed in terms of relevant legislation;
- Has and will not have a vested interest in the current and/or proposed activity, nor will engage in any directly conflicting interest associated with this project;
- Undertakes to function transparently and provide any information to a competent authority if compelled to do so by law or by consent of the involved parties;
- Based on the information provided by the client, due diligence studies or any other source or sources, have presented the results, discussion and conclusion, as applicable to the project concerned, to the best of his/her/their professional ability;
- Reserves the right to modify aspects pertaining to this study should additional information become available through ongoing research and further work on the relevant field/s;
- Undertakes to have the work peer reviewed on a regular basis by a competent specialist in the field/s of study;
- Is duly qualified and experienced to undertake the work at hand; and
- Adheres to the code of conduct as stipulated under Section 28 (3) of the Natural Scientific Professions Act 27 of 2003 as observed by the South African Council for Natural Scientific Professions (SACNASP).
- Signed by Damon Nell:



Date: 25-05-2022

Environmental Auditor	Relevant expertise
Damon Nell Cand.Sci.Nat Registration No 124378	Has completed a B.Sc. in Environmental Sciences, followed by a B.Sc. (Hons) in Plant Science. Damon has comprehensive experience and knowledge on compliance monitoring, project management and specialist reporting. As an environmental consultant, Damon has provided numerous environmental monitoring assessments, and specialist input services.



ENVIRONMENTAL ASSURANCE (PTY) LTD

Damon Nell

ENVIRONMENTAL CONSULTANT & FIELD TECHNICIAN

394 Tram Street, New Muckleneuk, Pretoria, 0181

T : 012 460 9768 ; M : 072 506 9692; F : 012 460 3071 ; E mail : damon@envass.co.za

Date of Birth : 01 June 1997; Place of Birth : South Africa

Ethnic Group and Gender : White Male ; Disabilities : None

AREAS OF EXPERTISE

- Compliance Monitoring
- Ambient Air and Particulate Matter Quality
- Customer Relationships
- Data Analysis & Interpretation
- Potable, Ground and Surface Water Quality
- Field Sampling of dust, soil, ambient air and water
- Water and Salt Balance Development and Assessment

CAREER HISTORY

Employer
Period
Position
Responsibilities

ENVIRONMENTAL ASSURANCE (PTY) LTD

Damon holds a B.Sc. in Environmental Sciences, followed by a B.Sc. (Hons) in Plant Science from the University of Pretoria. He has comprehensive experience and knowledge on compliance monitoring, project management and specialist reporting. As an environmental consultant, Damon has provided several environmental monitoring assessments, and specialist input services.

Environmental Consultant and Field Technician.

February 2021 – Current

- Conduct specialist studies and reports in the field of Visual Impacts, and Terrestrial Vegetation, and conduct compliance monitoring with regards to surface water, ground water, air quality and site findings, with interpretation of results and possible recommendations. Maintain and build customer relationships with guidance on environmental matters and updates on environmental legislation. Market to potential clients with site specific marketing material.

EDUCATION AND QUALIFICATIONS

University of Pretoria: Honours (Hons) BSc. Plant Science and Plant Diversity – 2019

University of Pretoria: Degree BSc. Environmental Science - 2018

PROFESSIONAL STATUS

Registration
Membership

Registered as a Candidate Natural Scientist (124378) with the South African Council of Natural Scientific Professions (SACNASP)

PROJECT EXPERIENCE

PROJECT DESCRIPTION	CLIENT
Water and Air Quality Monitoring program reporting	Tronox Fairbreeze
	Tronox Hillendale
	Hercules Bricks
	Sublime
	Silica Quartz

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Specialist Visual Impact and Vegetation Assessments	SA Brix
	Rosema
	Victoria Bricks
	Samancor Ferrometals
	Goldfields – Deep South
	Samancor Eastern Chrome Mines
	Kephri Innovations

REFERENCES

CONTACT NAME	COMPANY	RELATIONSHIP	CONTACT
Emile van Druten	ENVASS	Director	012 460 9768
Carl Schoeman	ENVASS	Consultant	012 460 9768



herewith certifies that

Damon Travis Nell

Registration Number: 124378

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Ecological Science (Candidate Natural Scientist)
Environmental Science (Candidate Natural Scientist)
Botanical Science (Candidate Natural Scientist)

Effective **9 September 2020**

Expires **31 March 2023**



Chairperson

Chief Executive Officer

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