# DRAFT BASIC ASSESSMENT REPORT FOR

THE PROPOSED
DEVELOPMENT OF A FILLING
STATION AND ASSOCIATED
INFRASTRUCTURE ALONG
THE R25 IN
BRONKHORSTSPRUIT,
WITHIN THE CITY OF
TSHWANE METROPOLITAN
MUNICIPALITY IN THE
GAUTENG PROVINCE

## **GDARD REFERENCE NUMBER:**

GAUT 002/22-23/E3456

## DATE:

JANUARY 2023

## Prepared by:



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## **Document Control**

Title of the document:	DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED DEVELOPMENT OF A FILLING STATION AND ASSOCIATED INFRASTRUCTURE ALONG THE R25 IN BRONKHORSTSPRUIT, WITHIN THE CITY OF TSHWANE METROPOLITAN MUNICIPALITY IN THE GAUTENG PROVINCE
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# Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2014 (Version 1/2022)

#### Kindly note that:

- 1. This Basic Assessment Report is the standard report required by GDARD in terms of the EIA Regulations, 2014.
- This template is current as of April 2022. It is the responsibility of the EAP to ascertain whether subsequent versions of the template have been published or produced by the competent authority.
- 3. A draft Basic Assessment Report must be submitted, for purposes of comments within a period of thirty (30) days, to all State Departments administering a law relating to a matter likely to be affected by the activity to be undertaken.
- 4. A draft Basic Assessment Report must be submitted, for purposes of comments within a period of thirty (30) days, to a Competent Authority (uploaded to the EIA online system) empowered in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended to consider and decide on the application. The EIA online system can be accessed at <a href="https://eia.gauteng.gov.za">https://eia.gauteng.gov.za</a>.
- 5. A copy (PDF) of the final report and attachments must be uploaded to the EIA online system. The EIA online system can be accessed at <a href="https://eia.gauteng.gov.za">https://eia.gauteng.gov.za</a>.
- 6. Draft and final reports submitted in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) must be emailed to environmentsue@gauteng.gov.za.
- 7. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
- 8. Selected boxes must be indicated by a cross and, when the form is completed electronically, must also be highlighted.
- An incomplete report may lead to an application for environmental authorisation or Waste Management License being refused.
- 10. Any report that does not contain a titled and dated full colour large scale layout plan of the proposed activities including a coherent legend, overlain with the sensitivities found on site may lead to an application for environmental authorization or Waste Management License being refused.
- 11. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the application for environmental authorisation or Waste Management License being refused.
- 12. The applicant must fill in all relevant sections of this form. Incomplete applications will not be processed. The applicant will be notified of the missing information in the acknowledgement letter that will be sent within 10 days of receipt of the application.
- 13. Unless protected by law, and clearly indicated as such, all information filled in on this application will become public information on receipt by the competent authority. The applicant/EAP must provide any interested and affected party with the information contained in this application on request, during any stage of the application process.
- 14. Although pre-application meeting with the Competent Authority is optional, applicants are advised to have these meetings prior to submission of application to seek guidance from the Competent Authority.

## **DEPARTMENTAL DETAILS**

Gauteng Department of Agriculture and Rural Development Attention: Administrative Unit of the Sustainable Utilisation of the Environment (SUE) Branch P.O. Box 8769 Johannesburg 2000

Ground floor, Umnotho House, 56 Eloff Street, Johannesburg

Administrative Unit telephone number: (011) 240 3051/3052 Department central telephone number: (011) 240 2500

	(For official use only	<b>/</b> )				
NEAS Reference Number:						
File Reference Number:						
Application Number:						
Date Received:				-		
f this BAR has not been submoermission was not requested ime frame.						
This is the first time that the D	raft Basic Assessm	ent Report	is submitted	to the Comp	petent Authority	y.
s a closure plan applicable for	his application and	has it been	included in	this report?		No
f not, state reasons for not inclu						
The Closure Plan is not include in the near future once it becapplicable legislation during the	omes operational. I	However, th				
Has a draft report for this applicated administering a law relating to a salist of the State Department details and contact person?	matter likely to be	affected as	a result of t	his activity?		ents Yes
f no, state reasons for not attac	hing the list.					
N/A						
Have State Departments includ	ng the competent a	authority cor	nmented?			No
f no, why?						
A public participation process w Gauteng Department of Agricultu this report.						
This Draft Basic Assessment Rep period. Comments that will be red of the Final Basic Assessment Re	eived will be included	d in the Comr	nents and Re	sponses Repo		

## **SECTION A: ACTIVITY INFORMATION**

## 1. PROPOSAL OR DEVELOPMENT DESCRIPTION

YES NO

Project title (must be the same name as per application form):

The proposed development of a filling station and associated infrastructure in Bronkhorstspruit within the City of Tshwane Metropolitan Municipality in the Gauteng Province.

	proposed project will entail development of a filling station. The associated activities will entail the following but not
limit	ted to:
•	4 x 23000L Fuel tanks;
•	14m wide access roads (entrance and exit);
•	Convenience store with offices and associated rooms;;
•	Fast food outlet;
•	Ablution facilities at the back of the convenient store;
•	Electricity connection;
•	Truck stop area;
•	Vehicle parking areas;
•	Workshop;
•	2 x 9 000L Jojo tanks with fire pump;
•	Stormwater system;
•	Emergency vehicle repair area;
•	Landscaping;
•	Filler islands;
•	Vent lines;
•	Crash barriers;
•	Sumps;
•	Signage;
•	Upgrade of the existing borehole;
•	Installation of septic tanks; and
•	Signage.
(Sh	proposed structure will be built with face brick externally and plastered inside then on the façade the Aluminum opfront) has been specified which is a great choice of material to use for any store entrance as it offers improved thetics, durability, affordability and energy efficiency.
Sele	ect the appropriate box
	application is for an upgrade The application is for a new n existing development The application is for a new development The application is for a new specify
Doe	es the activity also require any authorisation other than NEMA EIA authorisation?



If yes, describe the legislation and the Competent Authority administering such legislation

The proposed development may require a Water Use Licence. However, this will be conformed after further specialist study/consultation. Once it has been confirmed that a Water Use Licence is required, an application will be lodged with the Department of Water and Sanitation.

If yes, have you applied for the authorisation(s)?
If yes, have you received approval(s)? (attach in appropriate appendix)

YES	NO x
YES	NO x

## 2. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations:

Title of legislation, policy or guideline:	Administering authority:	Promulgation Date:
National Environmental Management Act, 1998 (Act No. 107 of	National & Provincial	27 November 1998
1998 as amended).		
The Constitution of South Africa, 1996 (Act 108 of 1996)	National & Provincial	18 December 296
National Environmental Management Act, 1998 (Act 107 of 1998) (NEMA)	National & Provincial	19 November 1998
Environmental Impact Assessment (EIA) Regulations of 2014 as amended.	National & Provincial	21 June 2021
National Water Act, 1998 (Act 36 of 1998)	National & Provincial	26 August 1998
National Environmental Management: Waste Act, 2008 (Act 59 of 2008) (NEMWA).	National & Provincial	10 March 2009
National Environmental Management: Air Quality Act 2004 (Act 39 of 2004)	National & Provincial	24 February 2005
National Heritage Resources Act, 1999 (Act 25 of 1999)	National & Provincial	28 April 1999
National Veld and Forest Act, 1998 (Act 101 of 1998)	National & Provincial	27 November 1998
Hazardous substances Act, 1973 (Act 15 of 1973)	National & Provincial	4 April 1973
Gauteng Provincial Road Traffic Act, 1997 (Act 10 of 1997)	Provincial	18 December 1997
City of Tshwane Metropolitan Municipality Integrated Development Plan	Local Municipality	26 May 2022

Description of compliance with the relevant legislation, policy or guideline:

Legislation, policy of guideline	Description of compliance
The Constitution of South Africa, 1996 (Act 108 of	The constitution states that
1996)	Everyone has the right—
,	(a) to an environment that is not harmful to their health or
	wellbeing; and
	<ul> <li>(b) to have the environment protected, for the benefit of present and future generations, through reasonable legislative and other measures that—</li> <li>(i) prevent pollution and ecological degradation;</li> </ul>
	(ii) promote conservation; and
	(iii)secure ecologically sustainable development and use of natural resources while promoting justifiable economic and social development.
	The proposed project affects the environment and the rights of the people should be considered when undertaking the project.
National Environmental Management Act, 1998	The proposed project triggers Listed Activities under the EIA
(Act 107 of 1998) and the Environmental Impact	Regulations under the NEMA. An Environmental Authorisation
Assessment Regulations of December 2014 as	should be obtained before commencement of the proposed
amended.	project.
National Environmental Management: Waste Act, 2008 (Act 59 of 2008).	Waste will be generated during construction and operational phase and the management of the waste will have to be in line with the requirement of the Act. The Environmental Management Programme attached to this report outlines how the waste will be managed.
National Water Act, 1998 (Act 36 of 1998) (NWA)	A potential wetland has been identified at the site. Once this has been confirmed by a specialist, a Water Use Licence Application will be submitted to Department of Water and Sanitation.
National Environmental Management: Air Quality Act 2004 (Act 39 of 2004)	During the construction activities of the proposed project, dust generation is expected. The project will have to comply with the requirements of the Act.
National Heritage Resources Act, 1999 (Act 25 of 1999)	The proposed development exceeds 5000m² in size and will change the character of the site.  Access roads (extraores and swit) longer than 200m.
	Access roads (entrance and exit) longer than 300m will be constructed.

	The Developer is applying for rezoning of the site from Agriculture to Public Garage.
Hazardous substances Act, 1973 (Act 15 of 1973)	Hazardous substances will be stored on site. The project will have to comply with the requirement of the Act regarding storage and use of these.

#### 3. ALTERNATIVES

Describe the proposal and alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished. The determination of whether the site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment.

The no-go option must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. Do not include the no go option into the alternative table below.

Note: After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

Please describe the process followed to reach (decide on) the list of alternatives below

The property where the proposed project will be undertaken belongs to the developer, i.e. Nondindwa Rhadasi Family Trust and as such, an alternative site has not been considered.

There are no alternatives considered.

Provide a description of the alternatives considered

No.	Alternative type, either alternative: site on property, properties, activity, design, technology, energy, operational or other(provide details of "other")	Description
1	Proposal	There are no alternatives considered.
2	Alternative 1	
3	Alternative 2	
	Etc.	

In the event that no alternative(s) has/have been provided, a motivation must be included in the table below.

The proposed site belongs to the Developer. This site is deemed suitable for the development because the filling station together with the various associated infrastructure is needed along the R25.

#### 4. PHYSICAL SIZE OF THE ACTIVITY

Indicate the total physical size (footprint) of the proposal as well as alternatives. Footprints are to include all new infrastructure (roads, services etc), impermeable surfaces and landscaped areas:

Size of the activity: Proposed activity (Total environmental (landscaping, parking, etc.) Approximately 25451 m<sup>2</sup> and the building footprint) Alternatives: Alternative 1 (if any) Alternative 2 (if any) Ha/ m<sup>2</sup> or, for linear activities: Length of the activity: Proposed activity Alternatives: Alternative 1 (if any) Alternative 2 (if any) m/km

Indicate the size of the site(s) or servitudes (within which the above footprints will occur):

Size of the site/servitude: 39,2907 Hectares Proposed activity Alternatives: Alternative 1 (if any) Alternative 2 (if any) Ha/m<sup>2</sup>

## 5. SITE ACCESS

#### Proposal

Does ready access to the site exist, or is access directly from an existing road?

YES	NO
X	
	m

If NO, what is the distance over which a new access road will be built Describe the type of access road planned:

Access to the property exists, however, the proposed project requires a suitable access for the vehicles/trucks that will access the facility.

Refer to Figure 1 below for the existing access and the Spatial Development Plan (SDP) illustrating the proposed access to the proposed site (Appendix C).



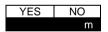
Figure 1: Existing entrance to site adjacent to the R25

Include the position of the access road on the site plan (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

Refer to Appendix C for the position of the Access Road.

#### Alternative 1

Does ready access to the site exist, or is access directly from an existing road? If NO, what is the distance over which a new access road will be built Describe the type of access road planned:

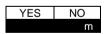


There is only one site, no alternative sites are proposed.

Include the position of the access road on the site plan. (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

#### Alternative 2

Does ready access to the site exist, or is access directly from an existing road? If NO, what is the distance over which a new access road will be built Describe the type of access road planned:



There is only one site, no alternative sites are proposed.

Include the position of the access road on the site plan. (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

## PLEASE NOTE: Points 6 to 8 of Section A must be duplicated where relevant for alternatives

Section A 6-8 has been duplicated 0 Number of times (only complete when applicable)

## 6. LAYOUT OR ROUTE PLAN

A detailed site or route (for linear activities) plan(s) must be prepared for each alternative site or alternative activity. It must be attached to this document. The site or route plans must indicate the following:

- > the layout plan is printed in colour and is overlaid with a sensitivity map (if applicable);
- > layout plan is of acceptable paper size and scale, e.g.
  - o A4 size for activities with development footprint of 10sqm to 5 hectares;
  - A3 size for activities with development footprint of > 5 hectares to 20 hectares;
  - A2 size for activities with development footprint of >20 hectares to 50 hectares);
  - A1 size for activities with development footprint of >50 hectares);
- > The following should serve as a guide for scale issues on the layout plan:
  - o A0 = 1: 500
  - o A1 = 1: 1000
  - o A2 = 1: 2000
  - o A3 = 1: 4000
- o A4 = 1: 8000 (±10 000)
- shapefiles of the activity must be included in the electronic submission on the CD's;
- > the property boundaries and Surveyor General numbers of all the properties within 50m of the site;
- > the exact position of each element of the activity as well as any other structures on the site;
- > the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, sewage pipelines, septic tanks, storm water infrastructure;
- servitudes indicating the purpose of the servitude;
- sensitive environmental elements on and within 100m of the site or sites (including the relevant buffers as prescribed by the competent authority) including (but not limited thereto):
  - Rivers and wetlands;
  - o the 1:100 and 1:50 year flood line;
  - ridges;
  - o cultural and historical features;
  - o areas with indigenous vegetation (even if it is degraded or infested with alien species);
- > Where a watercourse is located on the site at least one cross section of the water course must be included (to allow the position of the relevant buffer from the bank to be clearly indicated)

The Site Layout Plan is attached as Appendix A.

### FOR LOCALITY MAP (NOTE THIS IS ALSO INCLUDED IN THE APPLICATION FORM REQUIREMENTS)

- > the scale of locality map must be at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map;
- the locality map and all other maps must be in colour;
- locality map must show property boundaries and numbers within 100m of the site, and for poultry and/or piggery, locality map must show properties within 500m and prevailing or predominant wind direction;
- > for gentle slopes the 1m contour intervals must be indicated on the map and whenever the slope of the site exceeds 1:10. the 500mm contours must be indicated on the map:
- > areas with indigenous vegetation (even if it is degraded or infested with alien species);
- locality map must show exact position of development site or sites;
- > locality map showing and identifying (if possible) public and access roads; and
- > the current land use as well as the land use zoning of each of the properties adjoining the site or sites.

The Locality Map is attached as Appendix A.

## 7. SITE PHOTOGRAPHS

Colour photographs from the center of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under the appropriate Appendix. It should be supplemented with additional photographs of relevant features on the site, where applicable.

The site photographs are attached as Appendix B.

## 8. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 1:200 for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity to be attached in the appropriate Appendix.

The Facility Illustration is attached as Appendix C.

# SECTION B: DESCRIPTION OF RECEIVING ENVIRONMENT

**Note**: Complete Section B for the proposal and alternative(s) (if necessary)

### Instructions for completion of Section B for linear activities

- For linear activities (pipelines etc) it may be necessary to complete Section B for each section of the site that has a significantly different environment.
- 2) Indicate on a plan(s) the different environments identified
- 3) Complete Section B for each of the above areas identified
- 4) Attach to this form in a chronological order
- 5) Each copy of Section B must clearly indicate the corresponding sections of the route at the top of the next page.

Section B has been duplicated for sections of the route 0

## Instructions for completion of Section B for location/route alternatives

- 1) For each location/route alternative identified the entire Section B needs to be completed
- Each alterative location/route needs to be clearly indicated at the top of the next page
- 3) Attach the above documents in a chronological order

Section B has been duplicated for location/route alternatives 0 times

## Instructions for completion of Section B when both location/route alternatives and linear activities are applicable for the application

Section B is to be completed and attachments order in the following way

- All significantly different environments identified for Alternative 1 is to be completed and attached in a chronological order; then
- All significantly different environments identified for Alternative 2 is to be completed and attached chronological order, etc.

Section B - Section of Route

N/A (complete only when appropriate for above)

Section B - Location/route Alternative No.

N/A (complete only when appropriate for above)

(complete only

when appropriate)

## 1. PROPERTY DESCRIPTION

## Property description:

(Including Physical Address and Farm name, portion etc.)

Aspect	Details
Farm Name and Number	Farm Roodepoort 504 JR
Portion Number	Portion 28 (A portion of Portion 15)
Distance from nearest town	Approximately 4km from Bronkhorstspruit Town
Farm size	39,2907 Hectares
Municipality	City of Tshwane Metropolitan Municipality
Province	Gauteng Province

## 2. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in decimal degrees. The degrees should have at least six decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

 Alternative:
 Latitude (S):
 Longitude (E):

 -25.777477°
 28.763590°

In the case of linear activities: Alternative:

Starting point of the activity

Latitude (S):

Congitude (E):

Congitude (E):

- Middle point of the activity
- End point of the activity



For route alternatives that are longer than 500m, please provide co-ordinates taken every 250 meters along the route and attached in the appropriate Appendix

Addendum of route alternatives attached



This section is not applicable as there are no route alternatives applicable to the project.

The 21 digit Surveyor General code of each cadastral land parcel

PROPOSAL	Т	0	J	R	0	0	0	0	0	0	0	0	0	5	0	4	0	0	0	2	8
ALT. 1																					
ALT. 2																					
etc.																					

## 3. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Flat	1:50 - 1:20	1:20 - 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
		X				·

## 4. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site.

Ridgeline	Plateau	Side slope of	Vallev	Plain	Undulating	River
Riugeiirie	Flateau	hill/ridge	valley	Х	plain/low hills	front

## 5. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

a) Is the site located on any of the following?

Shallow water table (less than 1.5m deep)

Dolomite, sinkhole or doline areas

Seasonally wet soils (often close to water bodies)

Unstable rocky slopes or steep slopes with loose soil

Dispersive soils (soils that dissolve in water)

Soils with high clay content (clay fraction more than 40%)

Any other unstable soil or geological feature

An area sensitive to erosion

YES	NO X
YES	NO X

(Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

b) are any caves located on the site(s)		YES	NO X
If yes to above provide location details in	n on site or rou	ite map(s)	
Latitude (S):	Longitude (E):		
0			0
c) are any caves located within a 300m ra	dius of the site(s)	YES	NO X
If yes to above provide location details in	terms of latitude and longitude and indicate location	n on site or rou	ite map(s)
Latitude (S):	Longitude (E):		
Latitude (S):	Longitude (E):		0
. ,	Longitude (E):		0
. ,		YES	° NO <b>X</b>
d) are any sinkholes located within a 300r			
d) are any sinkholes located within a 300r	n radius of the site(s)		

If any of the answers to the above are "YES" or "unsure", specialist input may be requested by the Department

The Geotechnical Study for the proposed site was done and is attached as Appendix G1. The following are the findings of the Geotechnical Study:

The study area is predominantly characterized by lithologies of Wilge River Formation of Waterberg Group. It is dominated by immature, coarse-grained, lenticular-bedded, and red to reddish-brown sandstones showing tabular cross-bedding and soft-sediment deformation features. The sequences feature minor conglomerates and thin mudrocks. Figure 4 below shows the regional geological map of the site.

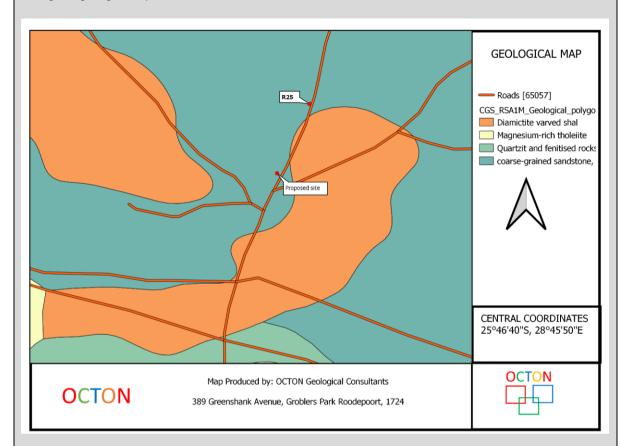


Figure 2: Regional Geological Map

No groundwater seepage was observed in any of the pits excavated during field investigations. The topographical setting of the site discourages stagnation of water, following precipitation. Perched water table resulting from the contact between various geologic zones may occur during rainy seasons. The test pits were excavated in a dry season.

Excavability is defined as the ease with which the ground can be dug. This is important for developments as increased costs are associated with installing services or foundations in areas where difficulty is experienced with excavation.

Based on SANS 1200D classifications, excavatability of soil on site categorized as intermediate conditions. It was noted that

excavation below 1.5 m was still possible with an automatic auger.

This refers to an area comprising unstable geological materials that can move either gradually (creep) or suddenly as a slump or slide. The risk of movement is determined by factors such as the nature of the slope, gradient, role of water, type and nature of vegetation covered, seismicity and impact of human activities.

The natural slope gradients are low and there are no signs of global slope instability on the site. The probability of landslides and mudslides occurring at this area are rare. This is primarily due to the low climatic conditions and composition of residual and transported materials in this area.

No potential hazards were identified.

The erosion of soils is a function of the resistance of slope materials to entrainment and transport, and the potential of slope processes that promotes erosion. The resistance of soils to erosion is also related to the mechanical strength, cohesion, and particle size of the material.

Indications for erosive soils are not evident on site. Dewatering the site to construct the proposed basement is not anticipated for the site.

## 6. AGRICULTURE

Does the site have high potential agriculture as contemplated in the Gauteng Agricultural Potential Atlas (GAPA 4)?

YES	NO x

The land capability value for the proposed site is moderate.

Please note: The Department may request specialist input/studies in respect of the above.

## 7. GROUNDCOVER

To be noted that the location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Indicate the types of groundcover present on the site and include the estimated percentage found on site

ſ	Natural veld - good	Natural veld with	Natural veld with	Veld dominated by	Landscaped
	condition	scattered aliens	heavy alien infestation	alien species	(vegetation)
	% = 0	% = 0	% = 0	% = 95	% = 0
	Sport field % = 0	Cultivated land % = 0	Paved surface (hard landscaping) % = 0	Building or other structure % = 0	Bare soil % = 5%

**Please note**: The Department may request specialist input/studies depending on the nature of the groundcover and potential impact(s) of the proposed activity/ies.

Are there any rare or endangered flora or fauna species (including red list species) present on the site

YES	NO
123	NO
	X

If YES, specify and explain:

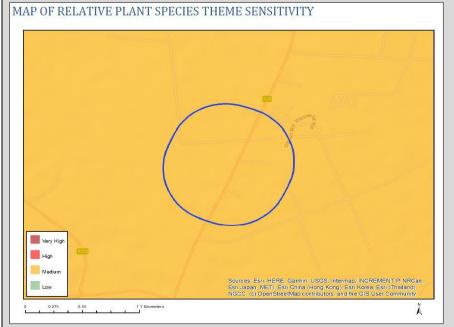
This section is not applicable as there are no rare or endangered flora or fauna species (including red list species) present on the proposed site.

The project area was found to be transformed from its original state by agriculture and infested with Invasive Alien Plants (AIP) (Figure 3). Transformed areas represents all areas of agriculture and the associated infrastructure such as roads. This habitat is regarded as transformed due to the nature of the modification of the area to such a point where it couldn't be able to return to its previous state without major rehabilitation. It is the opinion of the specialists that the project area no longer supports species of conservation concern as the habitat has been altered. Nor does the habitat have any areas that represent indigenous vegetation.



Figure 3: Current land use of the project area

The project area was transformed by agriculture and infrastructure development and has been assigned a low sensitivity. A



change to the land use is not envisioned to have an effect to the project area due to the current transformed state. The project area does not represent the medium plant sensitivity as per the screening report (Figure 4), as it has been determined to be low.

Are there any rare or endangered flora or fauna species (including red list species) present within a 200m (if within urban area as defined in the Regulations) or within 600m (if outside the urban area as defined in the Regulations) radius of the site.							
If YES, specify and explain:							
This section is not applicable.							
Are there any special or sensitive	ve habitats or other natural features present on the sit	e? YES NO x					
If YES, specify and explain:							
This section is not applicable.							
Was a specialist consulted to a	ssist with completing this section	YES NO					
If yes complete specialist detail	S	~					
Name of the specialist:	Martinus Erasmus						
Qualification(s) of the specialist	B-Tech						
Postal address:	777 Peridot Street, Jukskei Park						
Postal code:	2188						
Telephone:		ell: 082 448 1667					
		ax:					
	s recommended by the specialist?	YES NO x					
If YES,	o recommended by the openianer.	120 110 %					
specify:							
If YES, is such a report(s) attac	hed?	YES NO					
If YES list the specialist reports							
Signature of specialist:	Date: 04/1	1/2022					
,							
ALL CONTRACTOR OF THE PARTY OF							
	and the second of	V50 N0					
•	ssist with completing this section	YES x NO					
If yes complete specialist detail							
Name of the specialist:	Andrew Husted						
Qualification(s) of the specialist							
Postal address:	777 Peridot Street, Jukskei Park						
Postal code:	2188						
Telephone: 081	3191225 Cell:	0813191225					
E-mail: <u>info</u>	@thebiodiversitycompany.com Fax:						
	s recommended by the specialist?	YES NO x					
If YES,							
specify:	1. 10						
If YES, is such a report(s) attac		YES NO					
If YES list the specialist reports	attached below						
Cianature of an acialist	Doto: Odlar	1/2022					
Signature of specialist:	Date: 04/1	1/2022					
	<b>/</b> プト						

Please note; If more than one specialist was consulted to assist with the filling in of this section then this table must be appropriately duplicated

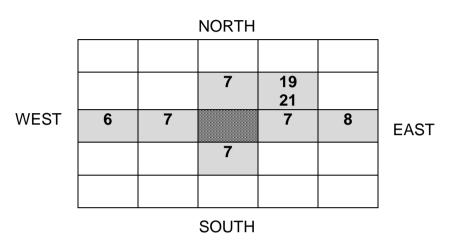
## 8. LAND USE CHARACTER OF SURROUNDING AREA

Using the associated number of the relevant current land use or prominent feature from the table below, fill in the position of these land-uses in the vacant blocks below which represent a 500m radius around the site

1. Vacant land	<ol><li>River, stream, wetland</li></ol>	3. Nature conservation area	4. Public open space	5. Koppie or ridge
6. Dam or reservoir	7. Agriculture 8. Low density residential		<ol><li>Medium to high density residential</li></ol>	10. Informal residential
11. Old age home	12. Retail 13. Offices		14. Commercial & warehousing	15. Light industrial
16. Heavy industrial <sup>AN</sup>	17. Hospitality facility	18. Church	19. Education facilities	20. Sport facilities
21. Golf course/polo fields	22. Airport <sup>N</sup>	23. Train station or shunting vard <sup>N</sup>	24. Railway line <sup>N</sup>	25. Major road (4 lanes or more) <sup>N</sup>

26. Sewage treatment plant <sup>A</sup>	27. Landfill or waste treatment site <sup>A</sup>	waste treatment 28. Historical building		30. Archeological site
31. Open cast mine 32. Undergro		33.Spoil heap or slimes dam <sup>A</sup>	34. Small Holdings	
Other land uses (describe):	Sizanani Children's H	lome towards the north eas	st of the proposed site.	

NOTE: Each block represents an area of 250m X 250m, if your proposed development is larger than this please use the appropriate number and orientation of hashed blocks



Note: More than one (1) Land-use may be indicated in a block

**Please note**: The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies. Specialist reports that look at health & air quality and noise impacts may be required for any feature above and in particular those features marked with an "A" and with an "N" respectively.

Have specialist reports been attached

If yes indicate the type of reports below

The following Specialist Reports have been attached:

Appendix G1 - Geotechnical Study

Appendix G2 - Traffic Impact Assessment

Appendix G3 - Heritage Impact Assessment

Appendix G4 - Vegetation Study

## 9. SOCIO-ECONOMIC CONTEXT

Describe the existing social and economic characteristics of the area and the community condition as baseline information to assess the potential social, economic and community impacts.

According to the City of Tshwane Metropolitan Municipality' Regionalised Municipal Spatial Development Framework 2017, Region 7., Bronkhorstspruit is located approximately 50 km east of the urban area of the City of Tshwane, adjacent to the N4 highway. Bronkhorstspruit is also the entry point to Gauteng and the City of Tshwane area from Mpumalanga, located north and south of the N4 highway. The main access routes to Bronkhorstspruit is the N4, Stanza Bopape Street (R104) (east-west), R25 and R513 (north-south).

Bronkhorstspruit is according to the MSDF/RSDF one of the identified metropolitan nodes. The town has a small inner core area with mixed used/mainly business related as well as residential, community and other social facilities dispersed throughout the area. The surrounding area contains some of the best farming land in Gauteng. The business node is situated in the older northern portion of the town. The highest concentration of businesses are located along Stanza Bopape, Kruger and Lanham Streets. The business area does not have well established links with the Zithobeni town, located to the north. Formal as well as informal trade are operating in Bronkhorstspruit. The town has a strong regional service centre function that should be strengthened. The economy is not very diversified, hence there are limited economic and industrial activities, although manufacturing constitutes a significant component of activity in the area. The industrial area of Ovipropark is located adjacent to Stanza Bopape Street. Single residential dwellings are located in the core area with medium density residential and community facilities including clinics, churches and municipal offices throughout the area. The town recently, mainly residential and community uses, extended southwards. This also includes the Nan Hua Buddhist Temple. The current public transport system in the area comprises minibus-taxi, bus modes. The rail network consists of a single line running from Johannesburg - through Witbank and Nelspruit - to Maputo. The rail network is used for both passenger transport and freight and should be extended westwards to link up with the Tshwane core area.

Bulk infrastructure is provided but capacity needs to be extended in certain areas and for future developments. Development should be contained within the current urban edge. One of the main tourist attractions in Bronkhorstspruit is the Nan Hua Buddhist Temple. Other tourist attractions in the area include the Bronkhorstspruit dam, various nature reserves and the Sizanani Cultural Village. These are however not located in Bronkhorstspruit but a few kilometres north and south. The Bronkhorstspruit dam runs through the node, creating a significant open space system. Recreational facilities have developed along the river including a golf course.

## **Traffic Impact Study**

The Traffic Impact Assessment was undertaken by Meizon Agape (Pty) Ltd in February 2021. The Traffic Impact Assessment Report is attached as Appendix G2.

In order to determine the expected traffic impact on the road network due to the planned rezoning, capacity analyses were carried out using the SIDRA Intersection 9.0 Plus traffic engineering software program.

The following key intersections were analysed:

- R25 and R907; and
- R25 and Proposed Access to Filling Station.

## The R25 and R907

The schematic layout of the existing intersection is indicated in Figure 5. The performance summary of the intersection is shown in Table 1. The following scenarios were analysed for this key intersection:

- 2021 weekday a.m. and p.m. peak hour base traffic volumes existing geometry of intersection.
- 2021 weekday a.m. and p.m. peak hour base traffic volumes plus total development traffic existing geometry of intersection.

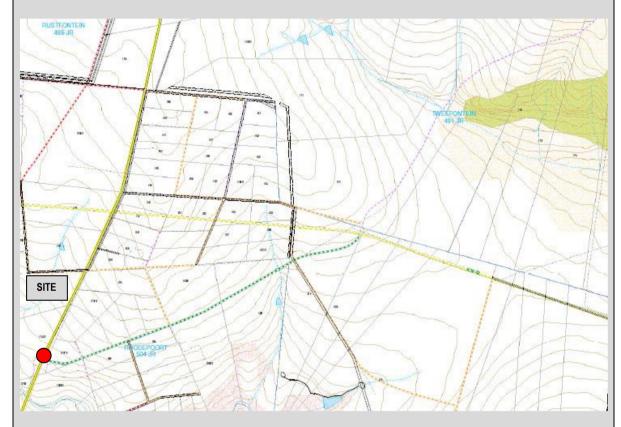


Figure 5: City of Tshwane Road Network Plan (RMP) Source: CoT RMP – Tolplan 2015

Table 1; Performance Summary of R25 and R907 Intersection

SCENARIO	PEAK	V/C	AVERAGEDELAY (SEC.)	LOS	COMMENTS
2021 Base Traffic	AM	0.179	1.9	N/A*	The AM and PM overall performance of the intersection
Volumes	PM	0.160	2.2	N/A*	is satisfactory.
2021 Base Traffic	AM	0.179	1.9	NA*	The AM and PM overall performance of the intersection
Volumes + Development Trips	PM	0.161	2.2	NA*	is satisfactory.

<sup>\*</sup> Note: Intersection LOS and Major Road approach LOS values are Not Applicable for two-waysign control since the average delay is negligible.

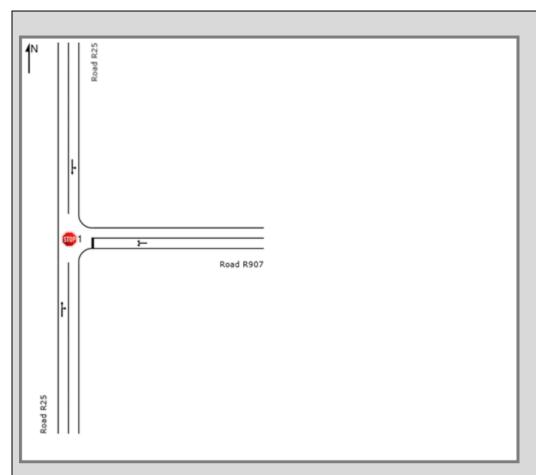


Figure 6: R25 and R907 Intersection Layout

## R25 and Proposed Access to the Filling Station

The schematic layout of the existing intersection is indicated in Figure 7. The performance summary of the intersection is shown in Table 2. The following scenarios were analysed for this key intersection:

 2021 weekday a.m. and p.m. peak hour base traffic volumes plus total development traffic – existing geometry of intersection.

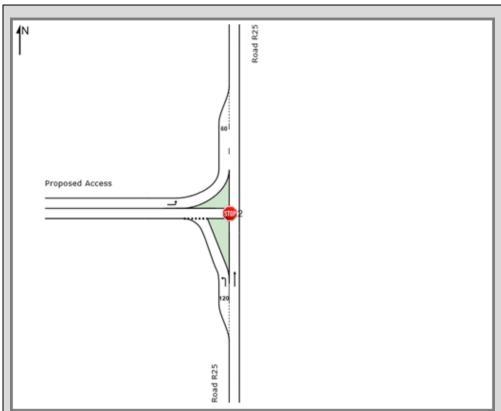


Figure 7: R25 and Proposed Access Layout Intersection Layout

Table 2: Performance Summary of R25 and Proposed Access to Filling Station Intersection

SCENARIO	PEAK	V/C	AVERAGEDELAY (SEC.)	LOS	COMMENTS
2021 Base Traffic	AM	0.128	0.4	NA*	The AM and PM overall performance ofthe
Volumes + Development Trips	PM	0.132	0.5	NA*	intersection is satisfactory.

<sup>\*</sup> Note: Intersection LOS and Major Road approach LOS values are Not Applicable for two-waysign control since the average delay is negligible.

## The findings of the Traffic Study are as follows:

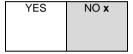
- There are no road upgrades required as a result of the planned filling station development.
- There are no additional public transport facilities required.
- The planned development will obtain a marginal access (Left-in and Left-Out) on R25. This road's functionality is mobility with a design speed of 100km/h. The transit market served by the planned development travels northbound on R25.
- The development is expected to generate approximately 18 trips during the weekday AM peak and 19 trips during the weekday PM peak hours, respectively.
- Intersection capacity analysis results revealed the one (1) key Intersection will operate within acceptable Levels of Services (LOS). The proposed access to the development on R25 is satisfactory as it will only serve for northbound traffic only. There are no road upgrades required as a result of the planned filling station development.
  - o R25 and R907; and
  - R25 and Proposed Access to Filling Station
- There are no new proposed non-motorized and public transport facilities. The existing transport facilities suffices for the planned rezoning development.

## 10. CULTURAL/HISTORICAL FEATURES

Please be advised that if section 38 of the National Heritage Resources Act 25 of 1999 is applicable to your proposal or alternatives, then you are requested to furnish this Department with written comment from the South African Heritage Resource Agency (SAHRA) – Attach comment in appropriate annexure

- 38. (1) Subject to the provisions of subsections (7), (8) and (9), any person who intends to undertake a development categorised as-
- (a) the construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;
- (b) the construction of a bridge or similar structure exceeding 50m in length;
- (c) any development or other activity which will change the character of a site-
  - (i) exceeding 5 000 m2 in extent; or
    - (ii) involving three or more existing erven or subdivisions thereof; or
  - (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or
  - (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;
- (d) the re-zoning of a site exceeding 10 000 m2 in extent; or
- (e) any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development.

Are there any signs of culturally (aesthetic, social, spiritual, environmental) or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including archaeological or palaeontological sites, on or close (within 20m) to the site?



If YES, explain:

If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist if one was already appointed:

The Heritage Impact Assessment Report attached as Appendix G3 indicates that that the proposed development will not affect any existing, tangible heritage resources and that it is unlikely that fossil heritage will be impacted in a low sensitive area. The Report further stated that there remains an inevitable risk that subsurface heritage resources may be exposed during construction. The potential that significant subsurface heritage resources are present is, however, very unlikely.

The report further states that according to the SAHRIS PalaeoSensitivity Map, the proposed project area is located within a moderately sensitive palaeontological zone. The underlying geology in the area includes rocks from the Elandsvlei Formation of the Dwyka Group of the Karoo Supergroup and the Wilge River Formation of the Waterberg Group. The project area is specifically underlain by the Wilge River Formation. The Wilge River Formation is the only stratigraphic unit of the Waterberg Group in the Middelburg Basin and correlates with the Swaershoek Formation of the main Waterberg Basin. Along the northern, eastern, and southeastern margins, the Loskop Formation uncomfortably overlies the Wilge River Formation. Coarse-grained, red-bed sandstones dominate the Wilge River Formation, with conglomerate interbeds more common in the west. Thin mudrocks are more common in the upper part of upward-fining sandstone successions in the eastern part. Most sandstones in the Wilge River Formation are textually and compositionally immature. The Waterberg Group in general is estimated to be between 2060 and 1700 Ma.

The chronostratigraphy of this formation places it in the Orosirian Period, the third geological period of the Palaeoprotozoic Era of the Proterozoic Eon, 2050-1900 Ma.5 Problematic fossil eukaryotes may occur within the associated palaeosols. The Waterberg Group (without any reference to the Wilge River Formation) is of low significance, although this formation in general potentially contains terrestrial cyanobacterial mats from playa lake deposits to occur.

The Dwyka Group is part of the Karoo Supergroup. Along the northern basin margin, it rests on glaciated Precambrian bedrock and uncomfortably overlies the Natal Group and the Msikaba Formation in the east. The Dwyka Group includes a variety of lithofacies types considered to have been deposited in a marine basin. Two distinct facies are recognised, the northern Mbizane Formation and southern Elandsvlei Formation. The chronostratigraphy of this group places it in the Late Carboniferous to Early Permian Period in the Palaeozoic Era of the Phanerozoic Eon, 299-252 Ma. The Dwyka Group is of low palaeontological significance, although it potentially contains trace fossils, organic-walled microfossils, and rare marine invertebrates such as molluscs, fish, and vascular plants. Refer to Figure 8 and Figure 9 below.

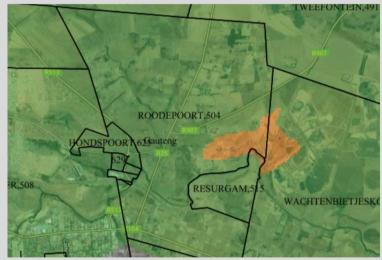


Figure 8: Palaeo-sensitivity map indicating farm Roodepoort 504 (© SAHRIS 2020)

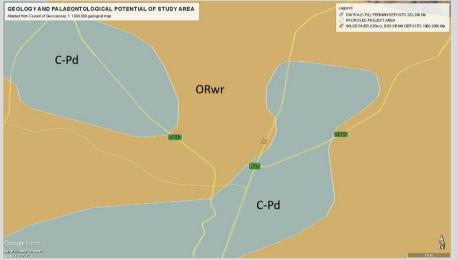


Figure 9: Detailed geology of proposed project area adapted from 1: 1 000 000 geological map

Will any building or structure older than 60 years be affected in any way? Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

NO x
NO x

If yes, please attached the comments from SAHRA in the appropriate Appendix

## SECTION C: PUBLIC PARTICIPATION (SECTION 41)

**1.** The Environmental Assessment Practitioner must conduct public participation process in accordance with the requirement of the EIA Regulations, 2014.

## 2. LOCAL AUTHORITY PARTICIPATION

Local authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least thirty (30) calendar days before the submission of the application to the competent authority.

Was the draft report submitted to the local authority for comment?

YES x NO
----------

The site notices for the proposed projects were placed as conspicuous places on 17 and 18 October 2022. The purpose of the Site Notices was to inform the Interested and Affected Parties of the proposed project, invite them to register as an Interested and Affected Party and to comment on the proposed project. Refer to Appendix E1 for proof of placement of the Site Notices.

A copy of the Background Information Document (BID) was submitted to the City of Tshwane Metropolitan Municipality (COTMM). The Draft Basic Assessment Report has been submitted to the Local Authority for Review and Comment. Proof of submission will be submitted as part of the Final Basic Assessment Report.

If yes, has any comments been received from the local authority?

YES x	NO

If "YES", briefly describe the comment below (also attach any correspondence to and from the local authority to this application):

Comments were received from the COTMM and this was in response to the BID that was submitted by the EAP. The comments received from the COTMM were as follows:

Comments from Kemmone Mofela

"Good day

Email acknowledged. However, kindly share the EIA report once available for public review to allow the city to formally comment on the proposed development

Regards.

Kemmone Mofela"

Comments from Jabulane Mabona

"Good morning Mr Masala Mahumela, I have received and read your email as send to my office and as a Region we appreciate such developments which are intended to uplift the infrastructure of our area, and also intended to contribute to halving unemployment in the area which is estimated at around sixty percent, From our office point of view we will love to meet you for further unpacking of your vision, for us to be in the same page on the intended infrastructure that you are envisaging to create so that we escalate it to other departments in the city which will be able to support you on the proposed development of a filling station and its associated infrastructure development intended to be created as proposed and suggested.

Regards Mabona[Regional head]"

Refer to the Comments and Responses Report attached as Appendix E6 and Appendix E6-1 for the correspondence to and from the COTMM.

Comments from Jabulane Mabona

"Good day Mr Mahumela for not being able to attend the stakeholders session due to pressing matters which needed my attention but you have my full support on the mentioned development.

Regards Mabona"

If "NO" briefly explain why no comments have been received or why the report was not submitted if that is the case. Comments have been received.

## 3. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the activity, site or property, such as servitude holders and service providers, should be informed of the application at least **thirty (30) calendar days** before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

YES	NO
X	

If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

#### 08 November 2022

"Good day Masala

Please send us kmz files so that we check this proposal against Eskom infrastructures.

I also noticed that you send Xolisa who is based at Eastern Cape.

Warm regards

Khululwa"

#### 18 November 2022

"Good day Masala

We have verified only Eskom transmission lines from our side and are not affected.

Thank you.

Warm regards Khululwa "

Refer to Appendix E6-2 for the proof of correspondence with Stakeholders.

If "NO" briefly explain why no comments have been received

This section is not applicable.

## 4. GENERAL PUBLIC PARTICIPATION REQUIREMENTS

The Environmental Assessment Practitioner must ensure that the public participation process is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees and ratepayers associations. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was flawed.

The EAP must record all comments and respond to each comment of the public / interested and affected party before the application report is submitted. The comments and responses must be captured in a Comments and Responses Report as prescribed in the regulations and be attached to this application.

## 5. APPENDICES FOR PUBLIC PARTICIPATION

All public participation information is to be attached in the appropriate Appendix. The information in this Appendix is to be ordered as detailed below

- Appendix 1 Proof of site notice
- Appendix 2 Written notices issued as required in terms of the regulations
- Appendix 3 Proof of newspaper advertisements
- Appendix 4 Communications to and from interested and affected parties
- Appendix 5 Minutes of any public and/or stakeholder meetings
- Appendix 6 Comments and Responses Report
- Appendix 7 Comments from I&APs on Basic Assessment (BA) Report
- Appendix 8 Comments from I&APs on amendments to the BA Report
- Appendix 9 Copy of the register of I&Aps
- Appendix 10 Background Information Document

# SECTION D: RESOURCE USE AND PROCESS DETAILS

**Note:** Section D is to be completed for the proposal and alternative(s) (if necessary)

#### Instructions for completion of Section D for alternatives

- 1) For each alternative under investigation, where such alternatives will have different resource and process details (e.g. technology alternative), the entire Section D needs to be completed
- 4) Each alterative needs to be clearly indicated in the box below
- 5) Attach the above documents in a chronological order

Section D has been duplicate when appropriate)	d for alternatives	0	times	(complete only
Section D Alternative No.	0	(complete only when appropri	ate for above)	

#### 1. WASTE, EFFLUENT, AND EMISSION MANAGEMENT

#### Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase? If yes, what estimated quantity will be produced per month?

YES x NO ~ 24 m<sup>3</sup>

How will the construction solid waste be disposed of (describe)?

The general and hazardous waste will be temporarily stored on site in bins/skips and later disposed of at a registered waste disposal site. A registered waste transporter will be appointed.

Where will the construction solid waste be disposed of (describe)?

The specific waste disposal site has not yet been selected, however, it will be any of the registered sites which include but not limited to the following:

- Holfontein;
- Rosslyn;
- Bon Accord;
- Mooiplaats Landfill Site; and
- Interwaste Klinkerstene Landfill.

Will the activity produce solid waste during its operational phase? If yes, what estimated quantity will be produced per month?

YES x	NO
	~12 m <sup>3</sup>

How will the solid waste be disposed of (describe)?

The solid waste will be temporarily stored in bins/skips and later disposed at a registered waste disposal site. A registered waste transporter will be appointed.

Has the municipality or relevant service provider confirmed that sufficient air space exists for treating/disposing of the solid waste to be generated by this activity?

YES NO x

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

Waste that does not feed into the municipal waste stream will be taken to Holfontein or any other authorized site.

**Note:** If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation? If yes, inform the competent authority and request a change to an application for scoping and EIA.

YES NO x

Is the activity that is being applied for a solid waste handling or treatment facility?

YES NO x

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Describe the measures, if any, that will be taken to ensure the optimal reuse or recycling of materials:

Where possible, during construction phase, water for washing of hands will be used for dust suppression.

## Liquid effluent (other than domestic sewage)

The COTMM has indicated that "there are currently no water or sewer networks in the vicinity of Portion 28 of the Farm Roodepoort 504-JR.

This portion is also not currently part of the water and sewer masterplanning since most of the surrounding properties are zoned as agricultural/undetermined. The proposed filling station will have to make use of a borehole

and package plant to accommodate the water demand and sewer outflow to be generated by the proposed development.

A boreholes exists on site and where necessary it will be upgraded to be used for the proposed project.

The proposed project will generate sewage which will be temporarily stored in the septic tank(s) and then removed by a registered service provider and deposed at a registered waste water treatment works.

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

If yes, what estimated quantity will be produced per month?

NO YES x Approximately 58 000m<sup>3</sup>/ Month YES NO x

If ves. has the municipality confirmed that sufficient capacity exist for treating / disposing of the liquid effluent to be generated by this activity(ies)?

Will the activity produce any effluent that will be treated and/or disposed of on site? If yes, what estimated quantity will be produced per month?

Yes NO x

If yes describe the nature of the effluent and how it will be disposed.

Sewage and waste water generated on site will be temporarily stored in septic tank(s) on site and then collected by a registered service provider and disposed at a registered waste water treatment works

Note that if effluent is to be treated or disposed on site the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA

Will the activity produce effluent that will be treated and/or disposed of at another facility?

YES x NO

Cell: 079 513 2342

Fax:

If ves. provide the particulars of the facility:

Facility name: Ekangala Waste Water Treatment Works Contact person: Madlenkosi Myanga Postal address: PO Box 1022, Pretoria

Postal code:

0001 012 358 7991

Telephone: E-mail: mandlamy@tshwane.gov.za

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

No measures to ensure the optimal reuse or recycling of waste water are proposed.

## Liquid effluent (domestic sewage)

Will the activity produce domestic effluent that will be disposed of in a municipal sewage system? If yes, what estimated quantity will be produced per month?

If ves. has the municipality confirmed that sufficient capacity exist for treating / disposing of the domestic effluent to be generated by this activity (ies)?

NO x YES

Will the activity produce any effluent that will be treated and/or disposed of on site?

If yes describe how it will be treated and disposed off.

NO x YFS

## Emissions into the atmosphere

Will the activity release emissions into the atmosphere?

If yes, is it controlled by any legislation of any sphere of government?

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the emissions in terms of type and concentration:

This section is not applicable.

#### NO x YES

## 2. WATER USE

Indicate the source(s) of water that will be used for the activity

	water board	X	lake		water
Municipal	Directly from	Groundwater	river, stream, dam or	other	the activity will not use

If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate Approximately the volume that will be extracted per month: 80 000 Liters

The borehole to be used is yet to be established/upgraded. Therefore there is no assurance of water supply yet.

If Yes, please attach proof of assurance of water supply, e.g. yield of borehole, in the appropriate Appendix

Does the activity require a water use permit from the Department of Water Affairs? If yes, list the permits required

YES x NO

Water Use License.

If yes, have you applied for the water use permit(s)?

If yes, have you received approval(s)? (attached in appropriate appendix)

YES	NO x
YES	NO x

The Water Use License Application has not yet been lodged.

## 3. POWER SUPPLY

Please indicate the source of power supply eg. Municipality / Eskom / Renewable energy source

Eskom / Municipality

If power supply is not available, where will power be sourced from?

This section is not applicable.

## 4. ENERGY EFFICIENCY

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

The proposed structure will be built with face brick externally and plastered inside then on the façade the Aluminum (Shopfront) has been specified which is a great choice of material to use for any store entrance as it offers improved aesthetics, durability, affordability and energy efficiency.

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

The proposed structure will be built with face brick externally and plastered inside then on the façade the Aluminum (Shopfront) has been specified which is a great choice of material to use for any store entrance as it offers improved aesthetics, durability, affordability and energy efficiency.

## SECTION E: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts as well as the impacts of not implementing the activity (Section 24(4)(b)(i).

## 1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summarise the issues raised by interested and affected parties.

The issues raised by Interested and Affected Parties are included in Appendix E6 and also summarised below:

#### Comments from Masud Rana:

- Masud Rana called on 26 October 2022 and inquired if he could get an opportunity to rent the shop at the proposed filling station.
- He also indicated that he has given the BID to Mr Azap Ibrahim (the landlord).

#### Comments from Peter Nkosi on behalf of Ndala-Somgulatjani Traditional Council:

"Dear Masala,

Attached is the information request from Ndala-Somgulatjani Traditional Council, asking to be enlisted as the I&AP on the above-mentioned project.

We also request to be furnished with all revelation documents for perusal and comments.

### Comments from Nomvula kgomo

Nomvula Kgomo called and inquired about the following:

- Any job opportunities
- What is going to happen
- What is the project about

## Comments from COTMM - Kemmone Mofela

"Good day

Email acknowledged. However, kindly share the EIA report once available for public review to allow the city to formally comment on the proposed development

Regards,

Kemmone Mofela"

## Comments from COTMM (Jabulane Mabona)

"Good morning Mr Masala Mahumela, I have received and read your email as send to my office and as a Region we appreciate such developments which are intended to uplift the infrastructure of our area, and also intended to contribute to halving unemployment in the area which is estimated at around sixty percent, From our office point of view we will love to meet you for further unpacking of your vision, for us to be in the same page on the intended infrastructure that you are envisaging to create so that we escalate it to other departments in the city which will be able to support you on the proposed development of a filling station and its associated infrastructure development intended to be created as proposed and suggested.

Regards Mabona

[Regional head]"

#### Comments from Mphosible

Mphosible sent a WhatsApp message indicating that he saw Eaglesage's notice on the Local Newspaper.

## Comments from Eskom Holdings SOC Limited

"Good day Masala

Please send us kmz files so that we check this proposal against Eskom infrastructures.

I also noticed that you send Xolisa who is based at Eastern Cape.

Warm regards

Khululwa '

#### Comments from COTMM (Marilyn Meyer)

"Good day Masala

There are currently no water or sewer networks in the vicinity of Portion 28 of the Farm Roodepoort 504-JR.

This portion is also not currently part of the water and sewer masterplanning since most of the surrounding properties are zoned as agricultural/undetermined.

The proposed filling station will have to make use of a borehole and package plant to accommodate the water demand and sewer outflow to be generated by the proposed development.

Kind regards Marilyn Meyer"

## Comments from Pieter Visser

"Hi

This is a great asset for all, it will be great and a boost for Bronkhorstspruit, please add a woolworths or OK

Regards

Pieter'

#### Comments from Azad Laher

"Greetings Masala,

Trust all is good.

Please be advised that I have an objection to the proposed development of a filling station situated on the R25, which is neighbouring my property. The reason for my objection is noted below.

- -A due diligence will have to be submitted as to what impact this development will have on the environment.
- -A report will have to be submitted as to what impact, Noise Pollution as well as Light pollution will have on the current surrounding habitats which are not limited to humans but to animals and the like as well.
- -Has the need and desirability study been done as to weather another filling station will be needed considering that the town of Bronkhorstspruit is overpopulated with Filling stations and Diesel depots.
- -Considering our depleting water resources, would it be wise to approve a water use licence.
- -Contamination of the underground water supply, bearing in mind that Humans and animals as well as greenery in the surrounds rely on this source.
- -Security can become an issue with the approval of a truck-stop.

As much as I am in favour of development which enhances the prices of property, it is imperative that we access the impact any development will have on it's surrounds.

Kindly feel free to contact me should you wish to discuss the matter in detail so that we can practice good neighbourliness and move forward.

Regards: Azad Laher"

Summary of response from the practitioner to the issues raised by the interested and affected parties (including the manner in which the public comments are incorporated or why they were not included)

(A full response must be provided in the Comments and Response Report that must be attached to this report):

his sect	ion should b	e read togethe	er with the Comments an	d Responses Repo	rt attached as Appendix E6.		
Date of Com ment	Name and Surnam e	Organisati on / Farm	Contact Details	Comment by I&AP	Response by EAP	Date of Respo nse By EAP	No es
18 Nove mber 2022	Johanne s Masilela	Plot 13 Roodepo ort farm	064 833 6400 Masilelajoe3@gmail. com	Mr Masilela sent a message via Whatsapp to Ms Mahumela requesting that she also contact Nico and Mam Nkosi.	"Dear Johannes,  Thank you also for the Whatsapp message.  Nico Smit and Mam Nkosi have been added to the database. As per your request, I tried calling them so that I could request their emails unsuccessfully, I will try to get hold of them again.  Should you have any queries, please do not hesitate to contact the undersigned.  Kind regards,  Masala Mahumela"  In response to the email above, Mr Masilela responded as follows: "Thanks will do as requested."	18 Nove mber 2022	N/ A
18 and 22 Nove mber 2022	Pieter Visser (Son)		Cell: 078 804 2766  Pieter.visser@sebat a.co.za	On 18 November 2022, Ms Mahumela called Mr Pieter Visser to inform him about the project. Mr Visser indicated that his email address can be used to communicate with Mr Hendrik	"Dear Pieter,  Your email below is hereby acknowledged.  Kindly be informed that the kind of retail shop will depend on the fuel service provider that will be used. It is therefore currently not clear as to which shop will be available on site.	and 23 Nove mber 2022	N/ A

					Visser (his	Should you have any		
					father).	queries, please do not		
					Mr Visser	hesitate to contact the		
					responded to an	undersigned.		
					email which			
					contained the	Kind regards,		
					BID that was	<b>3</b> ,		
					sent to him by	Masala Mahumela"		
					Ms Mahumela.			
					His response	Mr Visser responded to		
					was as follows:	the above email as		
					"Hi	follows:		
					111	"HI Msala		
					This is a great	TH Would		
					asset for all, it	That is great we cannot		
					will be great	wait!		
					and a boost for	wait:		
						Diagon mayo		
					Bronkhorstsprui	Please move		
					t, please add a woolworths or	Dogordo		
					woolworths or OK	Regards Pieter"		
					OK	Pielei		
					Damanda	Ma Makana da masa sa da d		
					Regards	Ms Mahumela responded		
					Pieter"	to Mr Visser's email as		
						follows:		
						"Dear Pieter,		
						T1:		
						This serves to		
						acknowledge your email		
						below.		
						Kind regards,		
				<del>-</del> 1 0/0 000 00=0	<b>"</b> 2 "	Masala Mahumela"	10	
15		Azad	LAHER	Tel: 013 932 0858	"Greetings	"Dear Azad,	16	N/
Nov		Laher	GROUP	Cell: 082 926 3907	Masala,	T	and	Α
mbe			OF	Fax: 013 932 2535		Thank you for the	24	
202	22		COMPAN	azad@laherrealestat	Trust all is	comments below.	Nove	
			IES	<u>e.co.za</u>	good.		mber	
						We will respond	2022	
			Portion 22	P.O. BOX 77	Please be	accordingly.		
			Farm	Bronkhorstspruit	advised that I			
			Roodepo	1020	have an	Kind regards,		
			ort 504JR		objection to the	Masala Mahumela"		
					proposed			
					development of	The comments raised by		
					a filling station	Mr Laher were addressed		
					situated on the	as follows:		
					R25, which is	"Dear Azad,		
					neighbouring			
					my property.	This email serves to		

		The reason for	respond to the comments	1
		my objection is	raised. Please see the	
		noted below.	responses below:	
		noted below.	responses below.	
		-A due diligence	- A Draft Basic	
		will have to be	Assessment	
		submitted as to		
			Report (BAR) which includes	
		what impact this		
		development	comprehensive	
		will have on the	information	
		environment.	pertaining to	
		-A report will	the proposed	
		have to be	project will be	
		submitted as to	made available	
		what impact,	to you for	
		Noise Pollution	review and	
		as well as Light	comments. The	
		pollution will	report will	
		have on the	include	
		current	assessment of	
		surrounding	the various	
		habitats which	potential	
		are not limited	impacts and the	
		to humans but	proposed	
		to animals and	mitigation	
		the like as well.	measures.	
		-Has the need	- The BAR will	
		and desirability	include the	
		study been	assessment of	
		done as to	Noise Pollution,	
		weather another	Light Pollution	
		filling station will	and other	
		be needed	impacts. The	
		considering that	mitigation	
		the town of	measures for	
		Bronkhorstsprui	these impacts	
		t is	will also be	
		overpopulated	included in the	
		with Filling	BAR.	
		stations and	- The Need and	
		Diesel depots.	Desirability will	
		-Considering	be included in	
		our depleting	Section 9 of the	
		water	BAR.	
		resources,	- The filling	
		would it be wise	station facility	
		to approve a	will require	
		water use	water supply for	
		licence.	some of its	
		-Contamination	functions to	
		of the	operate. The	
			,	

				underground	Department of		
				water supply,	Water and		
				bearing in mind	Sanitation will		
				that Humans	be engaged on		
				and animals as	the proposed		
				well as	project and the		
				greenery in the	responsibility to		
				surrounds rely	approve a		
				on this source.	water use		
				-Security can	licence lies with		
				become an	them.		
				issue with the	- The impact of		
				approval of a	potential		
					contamination		
				truck-stop.	of the		
				As much as I			
				am in favour of	groundwater		
					has been		
				development	assessed and		
				which enhances	mitigation		
				the prices of	measures will		
				property, it is	be included in		
				imperative that	the BAR.		
				we access the	- Where		
				impact any	necessary, a		
				development	security guard		
				will have on it's	will be provided		
				surrounds.	on site.		
				Kindly feel free	Should you have any		
				to contact me	queries, please do not		
				should you wish	hesitate to contact the		
				to discuss the	undersigned.		
				matter in detail			
				so that we can	Kind regards,		
				practice good			
				neighbourliness	Masala Mahumela"		
				and move			
				forward.			
				MY			
				PROPERTY			
				DESCRIPTION:			
				Portion 22			
				Farm			
				Roodepoort			
				504JR			
				Bronkhorstsprui			
				t REGARDS:"			
9	Jabulan	City of	082 496 0447	Mr Mabona	"Dear Mr Mabona,	11	N/
Nove	e	Tshwane	JabulaneM@tshwan	aould not attend		Nove	A
,0							

mber	Mabona	Metropolit	e.gov.za	the meeting he	Thank you for the email	mber	
2022	Masona	an	<u>0.907.24</u>	had requested	below.	2022	
2022		Municipali		and he sent an	bolow.	2022	
				email as	Mr Pafana Nhlana did		
		ty			Mr Bafana Nhlapo did		
		Bronkhors		follows:	inform us that you had an		
		tspruit		"Good day Mr	urgent matter that you		
		Regional		Mahumela for	were attending to. We will		
		Head		not being able	share the minutes of the		
				to attend the	meeting with you.		
				stakeholders			
				session due to	Kind regards,		
				pressing			
				matters which	Masala Mahumela"		
				needed my			
				attention but			
				you have my full			
				support on the			
				mentioned			
				development.			
				Regards			
				Mabona"			
08	Mandlen	City of	mandlamy@tshwane	"Good day	Ms Meyer responded to	11	N/
Nove	kosi	Tshwane	.gov.za	Masala	the emails that were sent	Nove	Α
mber	Myanga	Metropolit			to Mr Mandlenkosi	mber	
2022		an		There are	Myanga by Ms	2022	
	Marilyn	Municipali	MarilynM@TSHWAN	currently no	Mahumela. Ms Mahumela		
	Meyer	ty	E.GOV.ZA	water or sewer	had requested the details		
	John		JohnMh@TSHWAN	networks in the	of the Waste Water		
	Mhlanga		E.GOV.ZA	vicinity of	Treatment Plant at which		
	Jeaneth		JeanethM@TSHWA	Portion 28 of	the waste water from the		
	M.		NE.GOV.ZA	the Farm	proposed facility would be		
	Makgob			Roodepoort	treated. She further		
	ole			504-JR.	requested the		
					municipality to confirm		
				This portion is	capacity for water		
				also not	provision and waste water		
				currently part of	management.		
				the water and			
				sewer	Ms Mahumela responded		
				masterplanning	to Ms Meyer's email as		
				since most of	follows:		
				the surrounding	"Good morning Marilyn,		
				properties are	, ,		
				zoned as	Thank you for the email		
				agricultural/und	below.		
				etermined.			
					Kind regards,		
				The proposed			
				filling station will	Masala Mahumela"		
				have to make			
				use of a			
				acc or a			

				_
		borehole and	On 07 November 2022,	
		package plant	Ms Mahumela sent an	
		to	email to Ms Marilyn	
		accommodate	Meyer as follows:	
		the water		
		demand and	"Dear Marilyn,	
		sewer outflow to	In response to the	
		be generated by	recommendations below,	
		the proposed	the Developer has	
		development.	proposed to install septic	
			tank(s) that will	
		Kind regards	temporarily hold effluent,	
		Marilyn Meyer."	including sewage. The	
		, ,	effluent/sewage will then	
			be collected by a	
		Ms Meyer	registered service	
		copied John	provider and disposed at	
		Mhlanga and Jeaneth M.	a registered waste water	
			treatment facility. The	
		Makgobole in	septic tank(s) will be installed in an	
		her response.		
			environmentally friendly	
			manner.	
			A borehole exists on site	
			and the Developer	
			intends using it for the	
			proposed project. Where	
			necessary, the borehole	
			will be upgraded. In	
			addition, if applicable, a	
			water use licence will be	
			applied for from the	
			Department of Water and	
			Sanitation.	
			A Draft Basic Assessment	
			Report will be provided to	
			you, Mr Mhlanga and Ms.	
			Mkgobole for review and	
			comment.	
			May you please advise if	
			the Developer's proposal	
			above will be acceptable.	
			and the accordance.	
			Should you have any	
			queries, please do not	
			hesitate to contact the	
			undersigned.	
			Kind regards	
			Kind regards,	

						Masala Mahumela"		
						Response is awaited.		
_	08	Marilyn	City of	MarilynM@TSHWAN	On 08	On December 2022 Ms	08	N/
	Dece	Meyer	Tshwane	E.GOV.ZA	December	Mahumela responded as	Dece	Α
	mber		Metropolit		2022, Ms Meyer	follows:	mber	
	2022		an		sent an email	"Dear Marilyn,	2022	
	<b>– 17</b>		Municipali		as follows:		<b>– 17</b>	
	Janua		ty		"Hi Masala	I will send you the map.	Janua	
	ry				Please indicate	However I do not	ry	
	2023				the proposed	understand the second	2023	
					extent of the development.	question, may you please		
					What is the	clarify.		
					planned FAR and rights (incl.			
					subservient uses) that will	Kind regards,		
					be applied for?			
					Kind regards	Masala Mahumela"		
					Marilyn Meyer"			
					On December 2022 MS Meyer	On 08 December 2022  Ms Mahumela responded		
					responded as	as follows:		
					follows:	"Dear Marilyn,		
					"Hi Masala	Please find attached the Spatial Development		
					What rights are	Plan.		
					you planning to apply for? I	May you please send me		
					understand that	your phone number so		
					it will generally be a filling	that we can discuss, I want to make sure that I		
					station but	have answered all your		
					offices, dwelling units and a	questions and those that I cannot answer I will go		
					retail component	and inquire and revert.		
					were also	Kind regards,		
					mentioned in the outline	Masala Mahumela"		
					report you	madala manamola		
					previously sent.			
					We will require			
					the estimated extent of the			
					uses you intent			
					to apply for in order to			
					calculate the expected			
					sewage outflow.			
					Septic tanks can only be			
					considered			
					should the expected			
					sewage outflow			
					be below a certain value.			
					Kind regards			
					Marilyn Meyer "			
					•			

1				
			On 12 December 2022,	
			Ms Mahumela sent an	
			email as follows:	
			"Dear Marilyn,	
			I would like to inquire if	
			the Spatial Development	
			Plan has answered all	
			your questions? Please	
			· ·	
			send me your phone	
			Number so that we can	
			discuss.	
			Kind regards,	
			Masala Mahumela"	
			On 10 January 2023, Ms Mahumela sent an email	
			to Ms Meyer as follows:	
			"Dear Marilyn,	
			This serves to follow-up	
			on the email below. May	
			you please provide us	
			with your phone numbers,	
			we would like to ensure	
			that all your questions are	
			answered.	
			answered.	
			Kind regards	
			Kind regards,	
			Masala Mahumela"	
		On 16 January	On 17 January 2023 Ms Mahumela sent an email	
		2023, Ms Meyer sent an email to	to Ms Meyer as follows:	
		Ms Mahumela		
		as follows: "Hi Masala	"Dear Marilyn,	
			Thank you for the email	
		The SDP does not contain the	below. I called the phone number below twice	
		FAR or an	unsuccessfully.	
		indication of the		
		overall footprint of the filling	Please receive attached the maps with project	
		station.	footprint.	
		Generally only	May you please advise if	
		package plants	the use of septic tank(s)	
		are allowed to	is a no-no.	
		accommodate sewage outflow	Kind regards,	
		from filling		
		stations in areas where no	Masala Mahumela"	
		municipal sewer		
		is available due	Ms Mahumela also	
		to the fact that filling stations	copied Johan Mhlanga and Jeaneth H.	
		generate	Makgobole on the email.	
				27

Day   Rhululw   Nove   a   Holdings   Doc   Canogale   Please   Canogale					additional waste from operations that includes oil etc. proper treatment of the effluent is required.  My office number is 012 358 9084  Regards			
Nove mber   Gaongal   SOC   Limited   SOC   Limited	08	Khululw	Eskom	StuurmKV@eskom.c	Marilyn Meyer" Ms	Ms Mahumela responded	08	N/
mber Gaongal 2022 elwe Limited Limited	Nove	а	Holdings		Gaongalelwe			Α
Ms Mahumela had sent which included an Background Information Document as follows:  "Good day Masala Mahumela"  Please send us kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa  Nove a Holdings mber Gaongal SOC elwe Limited  Is Khululwa  Is Khululw Eskom the Gaongal Soc elwe Limited  Ms Mahumela had sent which included an Background file attached.  Kindly receive the KMZ file attached.  Kindly receive the KMZ file attached.  Kindly receive the KMZ file attached.  Kegards,  Masala Mahumela"  Masala Mahumela attached.  Fleatached.  Masala Mahumela attached.  Masala Mahumela attached.  Masala Mahumela attached.  Fleatached.  Fleatached.  Fleatached.  Masala Mahumela attached.  Fleatached.  Fleatached.  Masala Mahumela attached.  Fleatached.  Fleata	mber	Gaongal					mber	
had sent which included an Background Information Document as follows: "Good day Masala  Please send us kruz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  Nove a Warm regards Khululwa"  I B Khululw Nove a Holdings O.2a  SCC Limited  StuurmkV@eskom.c We have confirmation.  We have verified only Eskom Kind regards, Masala Mahumela"  We have confirmation.  We have verified only Eskom Kind regards, Masala Mahumela"  Kindly receive the KMZ file attached. If	2022	elwe	Limited		the email that	follows:	2022	
included an Background Information Document as follows: "Good day Masala Mahumela" Masala Mahumela" Masala Mahumela"  Please send us kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  18 Khululw Eskom StuurmkV@eskom.c Q.za  Nove a Holdings DOC Limited We have confirmation. 2022  We have confirmation. 2022  We have confirmation. Masala Mahumela"					Ms Mahumela	"Dear Khululwa,		
Background Information Document as follows: "Good day Masala Mahumela" Masala Mahumela" Masala Please send us kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa" Warm regards Khululwa" Based at Eastern Cape.  Warm regards Khululwa" Thank you for the mber confirmation.  2022 elwe Limited We have confirmation.  We have confirmation.  We have confirmation.  We have confirmation.  We have dad and are not affected.					had sent which			
Information Document as follows: "Good day Masala  Please send us kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape. Warm regards Khululwa"  18 Khululw Nove a Holdings mber Gaongal SOC Limited  SituurmKV@eskom.c 2022  We have verified only Eskom transmission lines from our side and are not affected.  Regards, Masala Mahumela"  Masala Masala Mahumela  Regards,  Masala Masala Mahumela  Thank you for the mber confirmation.  Verified only Eskom transmission lines from our side and are not affected.					included an	Kindly receive the KMZ		
Document as follows: "Good day Masala  Please send us kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  Nove a Holdings SOC Holdings SOC elwe Limited  SOC Limited  Document as follows: "Good day Masala Mahumela"  Masala Mahumela"  Nove / Masala  Please send us kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  Thank you for the mber confirmation.  You have verified only Eskom Kind regards, transmission lines from our side and are not affected.  Masala Mahumela"					Background	file attached.		
follows: "Good day Masala  Please send us kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  Nove a Holdings SOC Limited  SOC Limited  Follows: "Good day Masala Mahumela"  "Good day "Dear Khululwa, Nove Masala Nove Masala  Thank you for the mber confirmation. 2022  We have verified only Eskom Kind regards, transmission lines from our side and are not affected.					Information			
"Good day Masala Mahumela"  Please send us kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  Nove a Holdings BOC Limited  SituurmKV@eskom.c					Document as	Regards,		
Masala  Please send us kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  Nove a Holdings SOC Holdings SOC Limited  SituurmKV@eskom.c Wasala  We have confirmation.  We have verified only Eskom Kind regards, transmission lines from our side and are not affected.					follows:			
Please send us kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  18 Khululw Eskom StuurmKV@eskom.c 0.2a  Move a Holdings SOC Umitted  We have Confirmation.  Masala Mahumela"					"Good day	Masala Mahumela"		
kmz files so that we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  18 Khululw Eskom Holdings O.23  Move a Holdings SOC Holdings SOC Elimited  We have verified only Eskom Kind regards, transmission lines from our side and are not affected.					Masala			
we check this proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  Nove a Holdings SOC Belwe Limited  SOC Limited  We have confirmation.  We have confirmation.  We have confirmation.  We have confirmation.  We have date and are not affected.					Please send us			
proposal against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  18 Khululw Beskom StuurmkV@eskom.c Move a Holdings Gaongal 2022 elwe SOC Limited  Eskom We have confirmation.  We have verified only Eskom transmission lines from our side and are not affected.					kmz files so that			
against Eskom infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  18 Khululw Beskom Holdings O.Za Wasala Thank you for the mber Gaongal SOC Limited  We have verified only Eskom Kind regards, transmission lines from our side and are not affected.					we check this			
infrastructures.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  18 Khululw Beskom StuurmKV@eskom.c O.Za "Good day Masala Nove Masala Thank you for the confirmation. 2022 elwe Limited We have verified only Eskom Kind regards, transmission lines from our side and are not affected.					proposal			
I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  18 Khululw Eskom StuurmKV@eskom.c 0.za "Good day Masala Nove mber Gaongal SOC Limited We have confirmation. 2022 elwe Limited We have verified only Eskom transmission lines from our side and are not affected.  I also noticed that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  "Good day Masala Thank you for the confirmation. 2022					against Eskom			
that you send Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  18 Khululw Beskom Holdings O.Za "Good day Masala "Dear Khululwa, Masala Nove Masala Thank you for the confirmation. 2022 elwe Limited We have verified only Eskom Kind regards, transmission lines from our side and are not affected.					infrastructures.			
Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  18 Khululw Eskom StuurmKV@eskom.c "Good day Masala Nove a Holdings SOC Limited We have confirmation. 2022  2022 elwe We We was transmission lines from our side and are not affected.  Xolisa who is based at Eastern Cape.  Warm regards Khululwa"  "Dear Khululwa, 18 Nove mber Confirmation. 2022  Kind regards, Masala Mahumela"					I also noticed			
based at Eastern Cape.  Warm regards Khululwa"  18 Khululw Eskom StuurmKV@eskom.c "Good day Masala Nove A Holdings SOC Utimited We have confirmation.  We have verified only Eskom Kind regards, transmission lines from our side and are not affected.					that you send			
Eastern Cape.  Warm regards Khululwa"  18 Khululw Eskom Nove a Holdings mber Gaongal 2022 elwe Limited  Eskom Warm regards Khululwa"  "Good day Masala Thank you for the confirmation.  We have verified only Eskom transmission lines from our side and are not affected.  Khululwa  "Dear Khululwa, Nove Thank you for the confirmation.  2022					Xolisa who is			
Warm regards Khululwa"  18 Khululw Eskom Nove a Holdings mber Gaongal 2022 elwe Limited  Warm regards Khululwa"  "Good day Masala  Thank you for the confirmation.  We have verified only Eskom transmission lines from our side and are not affected.  Warm regards Khululwa  "Dear Khululwa, Nove Thank you for the confirmation.  Masala Mahumela"					based at			
Record of the confirmation of the confirmati					Eastern Cape.			
18 Khululw Eskom Nove a Holdings SCC								
Nove mber Gaongal SOC Limited We have confirmation.  We have verified only Eskom transmission lines from our side and are not affected.  Masala  Nove mber 2022  Kind regards,  Masala Soc Masala  Nove mber 2022  Masala  Nove mber 2022	18	Khululw	Eskom	StuurmK\/@eskom.c		"Dear Khululwa	18	N/
mber 2022 elwe Limited We have verified only Eskom transmission lines from our side and are not affected.  Thank you for the confirmation.  We have verified only Kind regards,  Masala Mahumela"						Joan Malainea,		A A
2022 elwe Limited We have verified only Eskom transmission lines from our side and are not affected.  We have confirmation.  2022						Thank you for the		
verified only Eskom transmission lines from our side and are not affected.  Kind regards,  Masala Mahumela"					We have			
Eskom transmission lines from our side and are not affected.								
transmission lines from our side and are not affected.						Kind regards,		
side and are not affected.					transmission			
not affected.					lines from our	Masala Mahumela"		
					side and are			
Theology					not affected.			
Thank you.					Thank you.			

				Warm regards			
				Khululwa"			
28	Jabulan	City of	082 496 0447	"Good morning	Morning, its perfect the is	31	N/
Octob		Tshwane	JabulaneM@tshwan	Mr Masala	no problem.	Octob	Α
er	Mabona	Metropolit	e.gov.za	Mahumela, I	Regards Mabona	er	
2022		an		have received		2022	
		Municipali		and read your			
		ty		email as send	From: Masala Mahumela		
		Bronkhors		to my office and	<masala.mahumela@eag< td=""><td></td><td></td></masala.mahumela@eag<>		
		tspruit		as a Region we	lesage.co.za>		
		Regional		appreciate such	Sent: Monday, 31		
		Head		developments	October 2022 13:42		
				which are	To: Jabulane S. Mabona		
				intended to	< <u>JabulaneM@TSHWANE</u>		
				uplift the	.GOV.ZA>		
				infrastructure of	Subject: RE: BID FOR		
				our area, and	THE BASIC		
				also intended to	ASSESSMENT		
				contribute to	PROCESS OF THE		
				halving	PROPOSED		
				unemployment	DEVELOPMENT OF A		
				in the area	FILLING STATION AND		
				which is	ASSOCIATED		
				estimated at	INFRASTRUCTURE		
				around sixty	ALONG THE R25, IN		
				percent, From	BRONKHORSTSPRUIT		
				our office point	IN TSHWANE		
				of view we will	METROPOLITAN		
				love to meet	MUNICIPALITY IN THE		
				you for further	GAUTENG PROVINCE		
				unpacking of			
				your vision, for	Dear Mr Mabona,		
				us to be in the			
				same page on	Thank you for the email		
				the intended	below.		
				infrastructure			
				that you are	Are you available to meet		
				envisaging to	on 09 November 2022 at		
				create so that	11:00am Via Zoom?		
				we escalate it to			
				other	The Ward Councilor, Mr		
				departments in	Nhlapo has also		
				the city which	requested to meet with		
				will be able to	us. May you kindly advise		
				support you on	if we can invite him to this		
				the proposed	meeting also?		
				development of			
				a filling station	Regards,		
				and its			
				associated	Masala Mahumela		
				infrastructure			

development	
intended to be	From: Jabulane S.
created as	Mabona
proposed and	[mailto:JabulaneM@TSH
suggested.	WANE.GOV.ZA]
Regards	Sent: Friday, 28 October
Mabona	2022 08:20
[Regional	To: Masala Mahumela
head]"	Subject: RE: BID FOR
	THE BASIC
	ASSESSMENT
	PROCESS OF THE
	PROPOSED
	DEVELOPMENT OF A
	FILLING STATION AND
	ASSOCIATED
	INFRASTRUCTURE
	ALONG THE R25, IN
	BRONKHORSTSPRUIT
	IN TSHWANE
	METROPOLITAN
	MUNICIPALITY IN THE
	GAUTENG PROVINCE
	0,10,12,10,1,10,1,102
	Good morning Mr Masala
	Mahumela, I have
	received and read your
	email as send to my office
	and as a Region we
	appreciate such
	developments which are
	intended to uplift the
	infrastructure of our area,
	and also intended to
	contribute to halving
	unemployment in the area
	which is estimated at
	around sixty percent,
	From our office point of
	view we will love to meet
	you for further unpacking
	of your vision, for us to be
	in the same page on the
	intended infrastructure
	that you are envisaging to
	create so that we
	escalate it to other
	departments in the city
	which will be able to
	support you on the
	proposed development of

a filling station and its
associated infrastructure
development intended to
be created as proposed
and suggested.
Regards
Mabona[Regional head]
From: Masala Mahumela
<masala.mahumela@eag< td=""></masala.mahumela@eag<>
lesage.co.za>
Sent: Thursday, 27
October 2022 15:51
To: Jabulane S. Mabona
< <u>JabulaneM@TSHWANE</u>
.GOV.ZA>
Subject: BID FOR THE
BASIC ASSESSMENT
PROCESS OF THE
PROPOSED
DEVELOPMENT OF A
FILLING STATION AND
ASSOCIATED
INFRASTRUCTURE
ALONG THE R25, IN
BRONKHORSTSPRUIT
IN TSHWANE
METROPOLITAN
MUNICIPALITY IN THE
GAUTENG PROVINCE
Good day Mr Mabona,
I visited the municipality
on 18 October 2022 and
asked for your contact
details, but could not find
your email address until
today.
Please receive attached
the Background
Information Document for
the afore-mentioned
project, for your review.
May you please
acknowledge receipt.
Kind regards,
1.0.0 1.0 50.00,
Masala Mahumela
madala mananda

26	Masud	Phumula	Masudran27@gmail.	Masud	The EAP noted the	26
Octob	Rana	Supermar	com	Rana	comments and further	Octob
er		ket and	084 395 2401	called on	requested the Mr Rana to	er
2022		Take		26 October	send the comments in	2022
		Away. He		2022 and	writing.	
		is renting		inquired if	ŭ	
		the shop.		he could		
				get an		
				opportunity		
				to rent the		
				shop at the		
				proposed		
				filling		
				station.		
				He also		
				indicated		
				that he has		
				given the		
				BID to Mr		
				Azap		
				Ibrahim		
				(the		
				landlord).		
				Ms		
				Mahumela		
				encourage		
				d Masud		
				Rana to		
				submit his		
				comments		
				in writing.		
				3		
25	Peter	Ndala-	079 123 6899	"Dear Masala,	"Dear Mr Nkosi,	26
Octob	Nkosi	Somgulatj	Pkankosi@gmail.co			Octob
er		ani	<u>m</u>	Attached is the	Thank you for the email	er
2022		Traditiona		information	below.	2022
		I Council		request from		
				Ndala-	Please be informed that	
				Somgulatjani	there is no attachment on	
				Traditional	your email. Please resend	
				Council, asking	the email with	
				to be enlisted	attachment.	
				as the I&AP on		
				the above-	Kindly note that the	
				mentioned	Ndala-Somgulatjani	
				project.	Traditional Council has	
					been registered as an	
				We also request	I&AP and will be kept	
				to be furnished	updated as the proposed	
				with all	project progresses.	
				revelation		

				documents for	We will send you the		
				perusal and	Draft Basic Assessment		
				comments.	Report for review when it		
					becomes available.		
				Kindest			
				regards	Should you have any		
				P Nkosi	queries, please do not		
				079 123 6899	hesitate to contact the		
				On behalf of	undersigned.		
				Ndala-	anasisignoa.		
				Somgulatjani	Regards,		
				Traditional	rtegarus,		
					Masala Mahumela"		
				Council	Masala Manumeia		
				Pkankosi@gmai			
				l.com "			
24	Nomvula	Resident	076 670 2711	Nomvula	"Dear Nomvula Kgomo,	26	
Octob	kgomo	at	rachelkgomm@gmail	Kgomo called		Octob	
er		sizanani	<u>.com</u>	and inquired	Thank you for the phone	er	
2022		village		about the	call on 24 October 2022.	2022	
				following:			
				Any job	Please be advised that		
				opportuniti	the project entails		
				es	construction of a filling		
				What is	station and associated		
				going to	infrastructure along the		
				happen	R25 in Bronkhorstspruit.		
				What is			
					The law requires us to		
				the project	give you an opportunity to		
				about	participate in the project		
					by reviewing documents,		
					commenting on the		
					project etc. and in return		
					I should respond to your		
					questions/comments.		
					When the Draft Basic		
					Assessment Report		
					becomes available, we		
					will forward it to you for		
					review and comment.		
					Further, we will also invite		
					you to the public meeting.		
					With regards to your		
					question on job		
					opportunities, we		
					currently do not have		
					much information as the		
					consultants, as we are		
					still undertaking the		

					environmental		
					assessment.		
					Ob sold on the control		
					Should you have any		
					queries, please do not		
					hesitate to contact the		
					undersigned.		
					Kind regards,		
					Masala Mahumela"		
24	Kemmon	City of	Tel: 012 358 7334	Ms Kemmone	"Dear Kemmone,	26	
Octob	e Mofela	Tshwane	Fax:086 673 2162	Mofela"		Octob	
er	Senior	Metropolit	Email:	responded to	The email below is	er	
2022	Environ	an .	KemmoneM@tshwa	the email with a	acknowledged.	2022	
	mental	Municipali	ne.gov.za	BID attachment	o o		
	Consulta	ty	Ground Floor, Block	that was sent to	The Draft BAR will be		
	nt	Environm	A, Tshwane House	the City of	submitted to the		
	111	ent and	Building, 320	Tshwane			
					Municipality in due		
		Agricultur	Madiba Street ,	Metropolitan	course.		
		е	Pretoria	Municipality on			
		Managem	PO Box 1454, 0001	21 October	Kind regards,		
		ent (EAM)		2022 as follows:			
		Departme		"Good day	Masala Mahumela"		
		nt					
				Email			
				acknowledged.			
				However, kindly			
				share the EIA			
				report once			
				available for			
				public review to			
				allow the city to			
				formally			
				comment on the			
				proposed			
				development			
				Regards,			
				Kemmone			
				Mofela"			
21	Mphosibl		076 506 1135	Mphosible sent	Ms Mahumela called him	21	N/
Octob	е			a WhatsApp	and he indicated that he	Octob	Α
er				message	was looking for contractor	er	
2022				indicating that	opportunity. Ms	2022	
				he saw	Mahumela further		
				Eaglesage's	requested him to send his		
				notice on the	comments in writing.		
					l line in the same		
				Local			
				Local Newspaper.			
Octob er			076 506 1135	Mofela"  Mphosible sent a WhatsApp message indicating that he saw	and he indicated that he was looking for contractor opportunity. Ms Mahumela further	Octob er	

Octob	Madons	Resident		take it to	Mr Madonsela as follows:	Nove	Α
er	ela			Ekangala and	"Dear J Madonsea, \nThe	mber	
2022				Rethabiseng	BID you received on	2022	
					17102022 refers. \nThe		
					earmarked land for the		
					project is Portion 28 (a		
					portion of portion 15) of		
					Farm Roodepoort 504		
					JR"		
17	G.S.	Vlaakplaa	072 370 8417	Employment	Dear G.S. Moepye, Your	15	N/
Octob	Моеруа	s Plot 133		and Poverty.	comment regarding	Nove	Α
er				·	employment and poverty	mber	
2022					has reference. Eaglesage	2022	
					is responsible for		
					undertaking the Basic		
					Assessment Process. We		
					are not sure of how		
					employment of staff will		
					be done for this project.		
					However we encourage		
					you to lookout for the		
					adverts as they are		
					published.		
17	E.	SVT	Edmore@sizananico	After receiving	An email was sent to	08	N/
Octob	Ziyambi	Sizanai	nferrence.org	the Background	info@sizanani.org as	Nove	A
er	Liyambi	Village	info@sizanani.org	Information	follows:	mber	
2022		Trust	into Colzanamiorg	Document, Mr	"Good day,	2022	
				Edmore	Coou aay,		
				Zimbayi	Please receive attached		
				commented as	the Background		
				follows:	Information Document for		
				"Refer to my	the afore-mentioned		
				trustees"	project, for your review		
					and comment.		
					G. G		
					May you please		
					acknowledge receipt.		
					J		
					Kind regards,		
					Masala Mahumela"		
17	J. Botes		083 415 0241	More	"Dear Mr Botes,	15	N/
Octob			janbotes79@yahoo.c	information.		Nove	Α
er			<u>om</u>		On 17 October 2022 I	mber	
2022					delivered a Background	2022	
					Information Document for		
					the afore-mentioned		
					project to you. Thereafter		
					you requested to be		
					provided with more		
					information.		

have been registered as an Interested and Affected Party for the proposed project and that you will be provided with the documents as the project progresses.  Should you have any queries, please do not hesitate to contact the undersigned.  Kind regards.  Masala Mahumela "  Doctob Nhlapo Tshwane Metropolit an Metropolit an Municipali ty Acting Ward 105 Councillor  Basiman Tel: 012 392 1411 Practioner.  Councillor  The int of Cell: 082 941 9641 mber of Siwelan int of Sanitation Fax: 012 392 1408 private Bag X 995, Pretoria, 0001  Fretoria, 0001  Raselament Tele: 012 392 1401 the cellent and revert.  Kind regards,  Masala Mahumela"  Dear Itilian, Os Nove A Masala Mahumela "  Thank you for the call.  Masala Mahumela"  Thank you for the call.  Kind regards,  Masala Mahumela"  Thank you for the call.  Kind regards,  Masala Mahumela "  Thank you for the call.  Kind regards,  Masala Mahumela"  Thank you for the call.  Kind regards,  Masala Mahumela "  Thank you for the because the proposed to the email that the call thank you for the massent to her items. Let me communicate with the client and revert.  Kind regards,  Masala Mahumela "  Thank you for the massent to her items. Let me communicate with the client and revert.  Kind regards,  Nove A Thank you for the massent to her items. Let me communicate with the client and revert.  Kind regards,  Masala Mahumela "  Thank you for the massent to her items. Let me communicate with the client and revert.  Kind regards,  Nove A Thank you for the massent to her items. Let me communicate with the proposed to the email that the proposed activity falls under Olifants water						This email serves to information you that you		
an Interested and Affected Party for the proposed project and that you will be provided with the documents as the project progresses.  Should you have any queries, please do not hesitate to contact the undersigned.  Kind regards,  Masala Mahumela *  Departme of the proposed project and that you will be provided with the documents as the project progresses.  Should you have any queries, please do not hesitate to contact the undersigned.  Kind regards,  Masala Mahumela *  Departme of the proposed project please do not hesitate to contact the undersigned.  Kind regards,  Masala Mahumela *  Departme of the proposed project please do not hesitate to contact the undersigned.  City of the call.  Thank you for the call.  Thank you for the call.  Profectioner.  City of the call.  Thank you for the call of the proposed project please that you with provided with the client and revert.  Kind regards,  Masala Mahumela *  Nove the email that you for the more proposed activity falls under Olfants water  The proposed activity falls under Olfants water  Water and the the client and revert.  Kind regards,  Nove the certain that you for the more proposed activity falls under Olfants water								
proposed project and that you will be provided with the documents as the project progresses.  Should you have any queries, please do not hesitate to contact the undersigned.  Kind regards, Masslat Mehumela *  Octob Nhiapo Tshwane er Metropolit an Municipali ty Environmental Acting Ward 105 Councillor  Councilor  OB Lillian Departme Nove Siwelan and Sanitation mehr and Sanitation Fax: 012 392 1481 Fretoria, 0001  OB Lillian Departme Nove Siwelan and Sanitation Fax: 012 392 1408 Private Bag X 995, Pretoria, 0001  Fax: 012 392 1408 Private Bag X 995, Pretoria, 0001  Fax: 012 392 1408 Private Bag X 995, Pretoria, 0001  Fax: 012 392 1408 Private Bag X 995, Pretoria, 0001  Fax: 012 392 1408 Private Bag X 995, Pretoria, 0001  Thank you for the call.  Ms Siwelane *Oear Lillian, Nove A mobilian, Nove A						an Interested and		
you will be provided with the documents as the project progresses.  Should you have any queries, please do not hestate to contact the undersigned.  Kind regards,  Masala Mahumela *  Octob Nhlapo Tshwane er Metropolit an Municipali ty Acting Yeard 105 Councillor  Octob Councillor  Background  Rove Sivelan nn of Sanitation Practic 2022  As per your request, we can have a meeting with the Environmental Assessment Practitioner.  Cell: 082 941 9641  Tel: 012 392 1411  Rove Sivelan nn of Sanitation Fax: 012 391 408  Private Bag X 995, Pretoria, 0001  Private Bag X 995, Pretoria, 0001  Sanitation Document*  "Good day Masala  The proposed activity falls under Olifants water						Affected Party for the		
the documents as the project progresses.  Should you have any queries, please do not hesitate to contact the undersigned.  Kind regards,  Masala Mahumela *  28 Bafana City of OR2 412 1209 Diphlapo@mail.com or Metropolit an Metropolit an Municipali ty Acting Ward 105 Councillor  Councillor  OB Lililian Departme Tel: 012 392 1411 Ms Sivelane responded to the meanil that was sent to her and the meanil that was sent to her together with the meanil that was sent to her together with the project plan and other items. Let me communicate with the client and revert.  Kind regards,  Masala Mahumela*  OB Lililian Departme Tel: 012 392 1411 Ms Sivelane responded to the meanil that was sent to her together with the project plan and other items. Let me communicate with the client and revert.  Kind regards,  Masala Mahumela*  OB NV Sivelan and other items. Let me communicate with the client and revert.  Kind regards,  Masala Mahumela*  OB NV Sivelan and other items. Let me communicate with the client and revert.  Kind regards,  Masala Mahumela*  OB NV Thank you for the mber response.  OB NV Thank you for the mber response.  Councillor  The morposed activity falls under Olifants water						proposed project and that		
project progresses.  Should you have any queries, please do not hesitate to contact the undersigned.  Kind regards, Masala Mahumela *  28 Bafana City of Octob Nihapo Tshwane er Metropolit an Municipali by Acting Ward 105 Councillor  8 Lillian Departme Nove Siwelan int of mere e Water and Sanitation Nove And Sanitation Nove And Sanitation Practicular and Sanitation Practicular and Sanitation Practicular and Sanitation Practicular and Sanitation Nove And Sanitation Document*  9 Water Sanitation Pretoria, 0001  108 Lillian Departme Cell: 012 392 1411 Ms Siwelan rot of Siwelan int of Sanitation Practicular and Sanitation Nove And Sanitation Document*  108 Lillian Departme Practicular Ms Siwelan rot of Cell: 032 941 9641 responded to the email that was sent to her together with Private Bay X 995, Pretoria, 0001  108 Private Bay X 995, Pretoria, 0001  109 Private Bay X 995, Pretoria, 0001  109 Private Bay X 995, Pretoria, 0001  100 Proposed activity falls under Olifants water						you will be provided with		
Should you have any queries, please do not hesitate to contact the undersigned.  Kind regards.  Masala Mahumela *  28 Bafana City of O62 412 1209 binhlapo @mail.com er Metropolit an Municipali ty Environmental Assessment Practitioner.  Acting Ward 105 Councillor  O8 Lilitan Departme Tel: 012 392 1411 Ms Siwelane recommunicate with the client and revert.  Kind regards,  Masala Mahumela *  2022 As per your request, we can have a meeting with you and discuss the project plan and other items. Let me communicate with the client and revert.  Kind regards,  Masala Mahumela*  O8 Lilitan Departme Tel: 012 392 1411 Ms Siwelane responded to the mail that was sent to her was entited to the mail that was sent to her to						the documents as the		
28    Bafana   City of O62 412 1209   Mr. Nhlapo   Tolear Mr. Nhlapo   Cotob   Nhlapo   Tolear Mr. Nhlapo   Tolear Mr. Nhlapo   Cotob   A requested a meeting with   Thank you for the call.   er   Cotob   A requested a meeting with   Assessment   Practitioner.   Practitioner.   As per your request, we can have a meeting with you and discuss the project plan and other items. Let me   Communicate with the client and revert.   Kind regards,   Masala Mahumela*   Nove   A mase   Masala Mahumela*   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Tolear Lillian,   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Tolear Lilli						project progresses.		
28    Bafana   City of O62 412 1209   Mr. Nhlapo   Tolear Mr. Nhlapo   Cotob   Nhlapo   Tolear Mr. Nhlapo   Tolear Mr. Nhlapo   Cotob   A requested a meeting with   Thank you for the call.   er   Cotob   A requested a meeting with   Assessment   Practitioner.   Practitioner.   As per your request, we can have a meeting with you and discuss the project plan and other items. Let me   Communicate with the client and revert.   Kind regards,   Masala Mahumela*   Nove   A mase   Masala Mahumela*   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Tolear Lillian,   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Nove   A mase   Tolear Lillian,   Tolear Lilli						Should you have any		
28    Bafana   City of   O82 412 1209   binhlapo @ omail.com   or   or   or   or   or   or   or								
28    Bafana   City of   0.82 412 1209   Tshwane er   Metropolit an Municipali ty   Acting   Ward 105   Councillor   Cou								
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# 2. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION AND OPERATIONAL PHASE

Briefly describe the methodology utilised in the rating of significance of impacts

The methodology utilized in the rating of the significance of the impacts is indicated below:

The Impact Rating System:

Details of the impact assessment methodology used to determine the significance of physical, bio- physical and socio-economic impacts are provided below.

The impacts are assessed as either having a:

negative effect (i.e. at a `cost' to the environment), positive effect (i.e. a `benefit' to the environment), or Neutral effect on the environment.

#### Extent of the Impact

- (1) Site (site only),
- (2) Local (site boundary and immediate surrounds),
- (3) Regional (within the City of Johannesburg),
- (4) National, or
- (5) International.

#### **Duration of the Impact**

The length that the impact will last for is described as either:

- (1) immediate (<1 year)
- (2) short term (1-5 years),
- (3) medium term (5-15 years),
- (4) long term (ceases after the operational life span of the project),
- (5) Permanent.

#### Magnitude of the Impact

The intensity or severity of the impacts is indicated as either:

- (0) none.
- (2) Minor,
- (4) Low,
- (6) Moderate (environmental functions altered but continue),
- (8) High (environmental functions temporarily cease), or
- (10) Very high / Unsure (environmental functions permanently cease).

#### **Probability of Occurrence**

The likelihood of the impact actually occurring is indicated as either:

- (0) None (the impact will not occur),
- (1) improbable (probability very low due to design or experience)
- (2) low probability (unlikely to occur),
- (3) medium probability (distinct probability that the impact will occur),
- (4) high probability (most likely to occur), or
- (5) Definite.

#### Significance of the Impact

Based on the information contained in the points above, the potential impacts are assigned a significance rating (S). This rating is formulated by adding the sum of the numbers assigned to extent (E), duration (D) and magnitude (M) and multiplying this sum by the probability (P) of the impact.S=(E+D+M)P

#### The significance ratings are given below

(<30) low (i.e. where this impact would not have a direct influence on the decision to develop in the area),

(30-60) medium (i.e. where the impact could influence the decision to develop in the area unless it is effectively mitigated),

(>60) high (i.e. where the impact must have an influence on the decision process to develop in the area).

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the construction phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

# Construction Phase

Impact: Job creation (This is a positive impact)										
Extent Duration Magnitude Probability Significance										
Without With Without With Without With Without With Without With										
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	
3 4 10 5 85 = High										
Mitigation Measures:										

The Developer and Contractor should follows the applicable legislation when hiring staff.

Impact: Light Pollution											
Extent Duration Magnitude Probability Significance											
Without	With	Without	With	Without	With	Without	With	Without	With		
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation		
3	2	4	3	8	4	4	3	60 =	27 = Low		
								Medium			

- Switch off unnecessary lights to reduce light pollution.
- Where possible use automatic systems to turn off street light at certain times.
- Where possible, use Light Emitting Diodes (LED) and Compact Fluorescents (CFLs) because they can help reduce energy

use and protect the environment.

- · Outdoor lights should not be directed towards neighboring properties as they create discomfort.
- Use glare-free bulbs, installing low hanging bulbs.
- Where possible, ensure that lights are facing downwards.
- Cover the bulbs to reduce bright skies at night.

Impact: Crime activities in the area due to the new filling station											
Extent Duration Magnitude Probability Significance											
Without With Without With Mitigation Mitigation Mitigation Mitigation				Without Mitigation	With Mitigation	Without Mitigation	With Mitigation	Without Mitigation	With Mitigation		
3 2 4 3 8 4 4 2 60 = 18 = Low Medium								18 = Low			

#### Mitigation Measures:

- Security staff should be available on site.
- Contact details of the Bronkhorstspruit Police Station should be made available on site and communicated staff members.

Impact: Fire incidents											
Extent Duration Magnitude Probability Significance											
Without	With	Without	With	Without	With	Without	With	Without	With		
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation		
3	1	3	1	8	4	4	2	56 =	8 = Low		
								Medium			

#### Mitigation Measures:

- Serviced fire extinguishers and fire beater should be available on site.
- Contact details of the Fire Department should be made available on site and communicated staff members.
- · Relevant staff should be treated on fire management.
- The 9000L JOJO tanks with fire pumps should be maintained on site.

Impact: Ab	Impact: Abstraction of groundwater through a borehole may result in sinking water table											
Extent		Duration		Magnitude		Probability		Significance				
Without With Without With Without With Without With Without With												
Mitigation	Mitigation Mitigation Mitigation Mitigation				Mitigation	Mitigation	Mitigation	n Mitigation Mitigation				
3 1 4 1 8 4						4	2	60 =	12 = Low			
Medium												

# Mitigation Measures:

 A Water use Licence should be obtained before any water uses can commence and its recommendations should be complied with.

Impact: Pot	Impact: Potential contamination of water and oil as a result of the septic tanks											
Extent		Duration		Magnitude		Probability		Significance				
Without With Without With Without With Without With Without With												
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation Mitigation		Mitigation	Mitigation			
3	1	4 1 8 2 4 2 60 = 8 = Low										

#### Mitigation Measures:

- Septic tank to be installed as per the manufacturer's guidelines.
- A concrete bund should be constructed and the septic tanks should be placed in it. The concrete slab should contain 110%
  of the contents of the septic tank(s).

The septic tank should be inspected regularly and defects should be fixed immediately.

Fuel tanks should be installed at the approved location.

Impact: Gro	Impact: Groundwater Contamination										
Extent	1 11 1			Magnitude		Probability		Significance			
Without Mitigation				Without Mitigation	With Mitigation	Without Mitigation	With Mitigation	Without Mitigation	With Mitigation		
3	1	3	1	8	2	4	2	48 = Medium	8 = Low		
								Medium			

- Fuel tanks should be installed at the approved location.
- The tank should be chemically compatible with the hazardous substance being stored in it.
- The tank should be protected from, or resistant to, all forms of internal and external wear.
- The tank should be vibration, shock and corrosion-resistant.
- The tank should be a stable foundation or support structure suitable for all operating conditions.
- The tank should be protected from fire, heat, vacuum and pressure, which might cause tank failure.
- The tank should be sized to align with storage requirements.
- Underground tanks must be placed in a contained hole that has been sealed with concrete. The space around the tank is filled with an immovable material to prevent chemicals from leaking into the earth.

Impact: Pot	Impact: Potential soil contamination										
Extent Duration Magnitude Probability Significance											
Without	With	Without	With	Without	With	Without	With	Without	With		
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation		
3	1	4	1	8	2	4	2	60 =	8 = Low		
								Medium			

- A spill management plan must be put in place to ensure that should there be any chemical spill out or over that it does not run into the surrounding areas.
- The Contractor shall be in possession of an emergency spill kit that must always be complete and available on site.
- Drip trays or any form of oil absorbent material must be placed underneath vehicles/machinery and equipment when not in use.
- No servicing of equipment on site unless necessary.
- All contaminated soil / vard stone shall be treated in situ or removed and be placed in containers.
- · Leaking equipment and vehicles must be repaired immediately or be removed from project area to facilitate repair.

Impact: Slo	Impact: Slowdown in traffic										
Extent Duration Magnitude Probability Significance											
Without	With	Without	With	Without	With	Without	With	Without	With		
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation		
2	1	3	2	6	2	3	2	33 =	10 = Low		
								Medium			

#### Mitigation Measures:

- Delivery of materials should be done outside of pick hours.
- Traffic control signs should be provided on site.
- Motorists to obey all traffic rules.

Impact: No	Impact: Noise Generation										
Extent Duration Magnitude Probability Significance											
Without	With	Without	With	Without	With	Without	With	Without	With		
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation		
2	2	3	1	6	2	3	2	33 =	10 = Low		
								Medium			

#### Mitigation Measures:

- No loud music will be allowed on site.
- No construction activities will be undertaken at night unless an agreement had been sought from neighbours before such work can be undertaken.
- Well-serviced vehicles and equipment will be brought to site.
- Broken and noisy equipment will be removed from site.

Impact: Poor management of Vegetation and Habitats											
Extent Duration Magnitude Probability Significance											
Without	With	Without	With	Without	With	Without	With	Without	With		
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation		
3	2	4	1	4	2	3	2	33 =	10 = Low		
								Medium			

- All activities must be restricted too within the project area (low sensitivity areas).
- No further loss of secondary grassland should be permitted as construction should only take place in the modified areas.
- Areas to be developed should be specifically demarcated so that during the construction phase, only the demarcated areas be impacted upon (including fencing off the defined project area).
- All construction/operational and access must make use of the existing roads;
- All laydown, chemical toilets etc. should be restricted to low sensitivity areas. Any materials may not be stored for extended
  periods of time and must be removed from the project area once the construction/closure phase has been concluded. No
  permanent construction structures should be permitted at drill sites. Construction buildings should preferably be
  prefabricated or constructed of re-usable/recyclable materials. No storage of vehicles or equipment will be allowed outside
  of the designated project areas.
- Areas that are denuded during construction need to be re-vegetated with indigenous vegetation to prevent erosion during flood events. This will also reduce the likelihood of encroachment by alien invasive plant species.
- All structure footprints to be rehabilitated and landscaped after prospecting is complete. Rehabilitation of the disturbed areas
  existing in the project area must be made a priority. Topsoil must also be utilised, and any disturbed area must be revegetated with plant and grass species which are endemic to this vegetation type.
- Progressive rehabilitation will enable topsoil to be returned more rapidly, thus ensuring more recruitment from the existing seedbank
- It should be made an offence for any staff to /take bring any plant species into/out of any portion of the project area. No
  plant species whether indigenous or exotic should be brought into/taken from the project area, to prevent the spread of
  exotic or invasive species or the illegal collection of plants.
- A fire management plan needs to be complied and implemented to restrict the impact fire might have on the rehabilitated areas.

- Inspections and monitoring of the pipelines for fuel leaks must be done on a regular basis.
- Tank storage and maintenance, if any, should be done according to the relevant guidelines, depending on the type
  petroleum product being stored.

Impact: Dis	Impact: Disturbance of Fauna											
Extent		Duration		Magnitude		Probability		Significance				
Without	With	Without	With	Without	With	Without	With	Without	With			
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation			
3	2	4	1	4	2	3	2	33 =	10 = Low			
								Medium				

- A qualified environmental control officer must be on site when construction begins. The area must be walked though prior to construction to ensure no faunal species remain in the habitat and get killed. Should animals not move out of the area on their own relevant specialists must be contacted to advise on how the species can be relocated.
- No trapping, killing, or poisoning of any wildlife is to be allowed.
- The duration of the construction should be minimized to as short term as possible, to reduce the period of disturbance on fauna.
- Outside lighting should be designed and limited to minimize impacts on fauna. Fluorescent and mercury vapor lighting should be avoided and sodium vapor (yellow) lights should be used wherever possible.
- All construction and maintenance motor vehicle operators should undergo an environmental induction that includes
  instruction on the need to comply with speed limits, to respect all forms of wildlife. Speed limits must still be enforced to
  ensure that road killings and erosion is limited.
- Any holes/excavations need to be sealed to ensure that no fauna species can fall in.

Impact: Fur	Impact: Further infestation of the site with alien vegetation											
Extent						Probability		Significance				
Without	With	Without	With	Without	With	Without With		Without	With			
Mitigation	Mitigation	itigation Mitigation Mitigation		Mitigation Mitigation		Mitigation Mitigation		Mitigation Mitigatio				
3	1	4	1	8	2	3	2	45 =	8 = Low			

# Mitigation Measures:

- Compilation of and implementation of an alien vegetation management plan.
- The footprint area of the construction should be kept to a minimum. The footprint area must be clearly demarcated to avoid unnecessary disturbances to adjacent areas.
- Waste management must be a priority and all waste must be collected and stored adequately. It is recommended that all
  waste be removed from site on a weekly basis to prevent rodents and pests entering the site.
- A pest control plan must be put in place and implemented; it is imperative that poisons not be used due to the likely presence of Species of Conservation Concern (SCCs).

Impact: Du	Impact: Dust generation											
Extent				Magnitude		Probability		Significance				
Without Mitigation	With Without With  n Mitigation Mitigation Mitigation		With Mitigation	Without Mitigation	With Mitigation	Without Mitigation	With Mitigation	Without With Mitigation Mitigation				
2	1 3 2				2	4	3	52 = Medium	15 = Low			

# Mitigation Measures:

- Dust-reducing mitigation measures must be put in place and must be strictly adhered to, for all roads and dumps especially.
   This includes wetting of exposed soft soil surfaces and not conducting activities on windy days which will increase the likelihood of dust being generated.
- Access roads and parking areas should be surfaced.
- Obey speed limit.
- A complaints register should be kept on site. The register should include the following but not limited to:
  - Name and Surname of the complainant.
  - o Contact details: phone number, Postal and Residential Address, Email Address, Fax Number etc.
  - o Date of submission of the complaint
  - Date of closure of complaint
  - Details of the complaint
- All complaints brought to site should be addressed to the satisfaction of the complainant. If agreement cannot be reached, the Gauteng Department of Agriculture and Rural Development should be involved.

Impact: Wa	Impact: Waste generation											
Extent Duration Magnitude Probability Significance												
Without	With	Without	With	Without	With	Without	With	Without	With			
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation			
3	1	3	2	8	2	4	2	56 =	10 = Low			
								Medium				

- Waste management must be a priority and all waste must be collected and stored effectively.
- Litter, spills, fuels, chemicals and human waste in and around the project area.
- A minimum of one toilet must be provided per 10 persons. Portable toilets must be pumped dry to ensure the system does
  not degrade over time and spill into the surrounding area.

- Sealable and properly marked waste collection bins or skips should be provided on site and all solid waste collected shall be disposed of at a licensed disposal facility.
- Under no circumstances may domestic waste be burned or buried on site.
- Refuse bins will be emptied and secured Temporary storage of domestic waste shall be in covered waste skips.
- Maximum domestic waste storage period will be 10 days.

Impact: Sev	Impact: Sewage generation												
Extent		Duration		Magnitude		Probability		Significance					
Without	With	Without			With	Without	With	Without	With				
Mitigation	litigation   Mitigation   Mitigation   Mitigation		Mitigation	Mitigation Mitigation		Mitigation Mitigation		Mitigation Mitigation					
3	1	3	2	8	2	4	2	56 =	10 = Low				
								Medium					

- Mobile chemical toilets should be provided.
- The toilets should be anchored to prevent them from being blown by the wind.
- A minimum of one toilet must be provided per 10 persons.
- Portable toilets must be pumped dry to ensure the system does not degrade over time and spill into the surrounding area.
- The toilets should be cleaned on a regular basis.
- Safe Disposal Certificates for sewage disposal should be provided to the Environmental Control Officer.
- All staff on site should use the toilets.

Impact: No	Impact: Non-compliance with permits and licenses due to poor or no Environmental awareness training											
Extent Duration Magnitude Probability Significance												
Without	With	Without	With	Without	With	Without	With	Without	With			
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation Mitigation		n Mitigation Mitigation				
3	1	3	2	8	2	4	2	56 =	10 = Low			

#### Mitigation Measures:

- All personnel and contractors should undergo Environmental Awareness Training.
- The training should focus on the compliance of the conditions of the Environmental Authorisation (EA), Environmental Management Programme (EMPr), and any other relevant permits and licences.
- Discussions are required on sensitive environmental receptors within the project area to inform contractors and site staff of the presence of Red / Orange List species, their identification, conservation status and importance, biology, habitat requirements and management requirements.
- A signed register of attendance must be kept for proof.
- Awareness posters should be placed on the site notice board or any other placed allowed on site.

Impact: Imp	Impact: Impact on heritage artefacts												
Extent		Duration		Magnitude		Probability		Significance					
Without	With	Without	With	Without	With	Without	With	Without	With				
Mitigation	igation Mitigation Mitigation Mitigation		Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	n Mitigation Mitigation					
3	1	3	2	8	2	4	2	56 =	10 = Low				
								Medium					

#### Mitigation Measures:

Should any heritage artefacts, graves or Palaeontological features be uncovered during excavations, construction activities
on that area should stop. The affected areas should be demarcated with a 50m radius and qualified archaeologist ad
Palaeontologist should called to site. Investigations should be done and reports submitted to the South African Resources
Agency (SAHRA). No further activities will be undertaken on the affected area until written response has been received from
SAHRA.

Impact: Ne	gative visual	impact due to	o construction	n and operati	on of a new	building and	associated in	frastructure		
Extent				Magnitude	Magnitude		Probability			
Without	With	Without	With	Without	With	Without	With	Without	With	
Mitigation	Mitigation Mitigation Mitigation Mitigation		Mitigation	Mitigation Mitigation		Mitigation Mitigation		Mitigation Mitigatio		
3	3 2 5 2				4	3	2	42 =	16 = Low	
Medium Medium										

#### Mitigation Measures:

 During construction, the site should be demarcated with material that can prevent outsiders from viewing construction activities.

Impact on t	Impact on the geology of the proposed site (Geotechnical)											
Extent		Duration		Magnitude		Probability		Significance				
								With				
Mitigation	litigation Mitigation Mitigation Mitigation			Mitigation	Mitigation	Mitigation	Mitigation	n Mitigation Mitigation				
2	1	3	2	6	4	3	2	33 =	14 = Low			
Medium Medium												

- Before the concrete base is cast, the following construction procedures apply:
  - All topsoil to be stripped to spoil;

- Excavation to be backfill with G5 quality material to required depth below ground level:
- o G5 material to be adequately compacted to 93% Mod AASHTO density at -1% to +2% OMC;
- Allowance should be made for the worst-case scenario in the design of foundation structures to withstand a corrosive environment.
- No ponding of water should be permitted on the site.
- It is important to note that foundation recommendations are subject to confirmation of laboratory test results. Based on site conditions and the classification described (C1) Residential Site Class Designations according to NHBR). The following foundation types are provisionally recommended: Residual sandstone was encountered at the depths of about 1.2 m below the ground level. Therefore, the recommended foundation type for single or double masonry house structures to be erected: Reinforced strip footings; and or deep strip foundations founded on a solid horizon below the problem horizon.
- The following construction procedures apply.
  - Removal of in-situ material up to 600mm beyond the perimeter of the building and to a depth of 600mm below the current ground level and spoil.
  - o The above operation can be followed by compaction of the in-situ material to 90% MOD AASHOTO.
  - Backfill and compact using the imported G5 quality material in layers of 150mm compacted thickness to a density
    of at least 95% Mod AASHTO density at OMC +/- 2% up to top of the proposed founding level.
  - The foundation of the proposed structure can then be placed on the soil mattress at the required foundation level using an allowable bearing capacity of 100kPa.
  - o A minimum cover of 600mm of compacted soil mattress is required below the concrete raft foundation.
- Adequate drainage is an important factor in the promotion of a stable site.
- Drainage should be such that any rainfall is diverted to the nearest storm water drainage system.
- Both surface and subsurface drainage should be constructed such that no water ingress into the subsurface soils in and around the foundation base is possible.
- It is recommended that the installation of underground services and surface drainage is undertaken in accordance with SANS 1200 LF-1983.
- Foundation: SABS 0400 Part H Strip foundations unless otherwise specified on the drawing.
- Filling: SABS 0400 Part J Fill to be well compacted in wet layers of 150 and according to Engineer's Specs. and recommendations.
- Damp-Proofing: SABS 0400 Part J (JJ3) and Part (KK15).
- Ground Slabs:
  - o 75mm thick concrete ground slabs on fill with damp-proofing as described above.
  - o Reinforce ground slabs according to engineer's details and specifications.
  - All expansion joints to be placed according to engineer's specifications.
- Glazing: SABS 0400 Part N
  - All glazing to be clear unless otherwise specified in Architects details, schedules and thickness all according to the following:
    - 0.75m² 3mm
    - 1.5m² 4mm
    - 2.1m² 5mm
    - 3.2m<sup>2</sup> 6mm
  - o Glazing in sliding and folding doors to be 6mm laminated safety glass.
  - o Glazing in bathrooms to be opaque unless otherwise specified.
  - All glazing in door panels to be 6mm laminated safety glass.
  - All sliding doors to have safety markers.

Impact: Sto	rmwater								
Extent				Magnitude		Probability		Significance	
Without	With	Without	With	Without	With	Without	With	Without	With
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation
3	2	3	2	6	2	3	2	36 =	12 = Low
								Medium	

- A storm water Management Plan should be developed and implemented on site.
- Ensure that storm water is efficiently and effectively removed from the proximity of the infrastructure and safely distributed or deposited into either municipal storm water systems or natural river courses.
- Where storm water canals cross the site and carry large quantities of water, the canals should be lined.
- Contaminated water should be stored in a containment and disposed appropriately as waste water.

Impact: Co	ntamination o	of surface wa	ter (Hydrolog	y)					
Extent		Duration	Magnitude		Probability		Significance		
Without	111111111111111111111111111111111111111			Without	With Without With With			Without	With
Mitigation	gation   Mitigation   Mitigation   Mitigation		Mitigation	Mitigation Mitigation		Mitigation Mitigation		n Mitigation Mitigation	
3	1	3	2	8	4	4	2	56 =	14 = Low
								Medium	

- Cement batching should be done safely in an impervious place.
- Empty cement bags should be treated as hazardous waste.
- · Contamination of soil should be prevented. Contaminated soil should be disposed as hazardous waste.
- No water will be sourced from the nearby stream for any purpose pertaining to this project.
- Waste fittings to have reseal traps with waste pipes to be fully accessible along its entire length for attention and repair.
- Drains to have IE's at all bends and junctions with marked covers at ground level.
- Drains under floor to be protected from loads with IE's at both ends of the building.
- OVP's to be Ø110mm PVC

- ASVP's to be Ø50mm PVC.
- Soil and sewerage pipes to be Ø110mm PVC at 1:60 minimum fall.
- Bath, sink and shower drain pipes to be Ø50mm.
- Basin and bidet drain pipes to be Ø32mm.
- Vent valves to be fitted to all waste pipes.

Impact in a	Impact in agriculture											
Extent						Probability		Significance				
Without	With	Without	With	Without	With	Without	With	Without	With			
Mitigation					Mitigation	Mitigation	Mitigation	Mitigation	Mitigation			
2	1	3	2	8	2	4	2	52 =	110 = Low			
								Medium				

- Construction activities should only be allowed within the approved area.
- The filling station and associated infrastructure should be fenced off.
- No construction staff will be allowed on areas that are not approved.

There are no alternative sites considered for this project, as such no impact rating has been done for the alternative site.

#### No Go

The No-Go option refers to the option not to develop the proposed filling station.

Impact: No additional fuel station along the R25											
Extent		Duration		Magnitude		Probability		Significance			
Without	/ithout With Without With Without With Without With Without With										
Mitigation	Mitigation Mitigation Mitigation				Mitigation	Mitigation	Mitigation	Mitigation	Mitigation		
3 5 4 2 24 = Low											
There are no mitigation measures required.											

Impact: No new jobs created										
Extent		Duration		Magnitude		Probability		Significance		
Without With Without With Without With Without With Without With								With		
Mitigation Mitigation Mitigation Mitiga				Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	
3 5 8 5 80 = High										
There are no mitigation measures required.										

Impact: No disturbance of the environment										
Extent		Duration		Magnitude		Probability		Significance		
Without With Without With Without With Without With										
Mitigation Mitigation Mitigation Mitigation				Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	
3 5 0 3 24 = Low										
There are no mitigation measures required.										

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

The following specialist Reports were used to complete the above tables:

Appendix G1 - Geotechnical Study

Appendix G2 – Traffic Impact Assessment Appendix G3 – Heritage Impact Assessment

Appendix G4 - Vegetation Study

Describe any gaps in knowledge or assumptions made in the assessment of the environment and the impacts associated with the proposed development.

# The following gaps apply:

### Public Participation Process (PPP)

During the Public Participation Process, the EAP sought to ensure that every stakeholder, landowner, relevant Government Department, Interested and Affected Party etc., is involved. However, it is possible that some of the relevant persons may have been missed.

#### **Specialist Information**

The specialist information has been used as is. It is possible that graves, some protected species etc., could have been missed on site.

# 3. IMPACTS THAT MAY RESULT FROM THE DECOMISSIONING AND CLOSURE PHASE

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the decommissioning and closure phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

Impact: Waste generation											
Extent		Duration		Magnitude		Probability		Significance			
Without	With	Without	With	Without	With	Without	With	Without	With		
Mitigation	gation Mitigation Mitigation Mitigation		Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation			
3	1	4	1	8	2	4	2	60 =	0 = Low		
								Medium			

#### Mitigation Measures:

- All waste should be removed from site.
- Waste should be removed and disposed at a registered waste disposal facility.
- Safe Disposal Certificates should be retained on site.
- Waste should not be burnt or buried on site.

Impact: Dust generation											
Extent		Duration		Magnitude		Probability		Significance			
Without Mitigation	With Mitigation	Without Mitigation	With Mitigation	Without Mitigation	With Mitigation	Without Mitigation	With Mitigation	Without Mitigation	With Mitigation		
2	1	3	2	8	2	4	3	52 = Medium	15 = Low		

#### Mitigation Measures:

- Dust suppression should be done in the form of spraying of water or other environmentally friendly methods.
- Obey speed limits.

Impact: Noise Generation											
Extent		Duration		Magnitude		Probability		Significance			
Without	With	Without	With	Without	With	Without	With	Without	With		
Mitigation	Mitigation   Mitigation   Mitigation   Mitigation		Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation			
2	2	3	1	6	2	3	2	33 =	10 = Low		
								Medium			

#### Mitigation Measures:

- No loud music will be allowed on site.
- No construction activities will be undertaken at night unless an agreement had been sought from neighbours before such work can be undertaken.
- Well-serviced vehicles and equipment will be brought to site.
- Broken and noisy equipment will be removed from site.

Impact: Poor landscaping											
Extent Duration Magnitude Probability Significance											
Without	With	Without	With	Without	With	Without	With	Without	With		
Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation	Mitigation		
2	1	3	1	6	2	4	2	44 =	8 = Low		
								Medium			

#### Mitigation Measures:

- Concrete should be removed from site.
- Compacted areas should be dug and loosened.
- No stockpiles should be left on site.

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate

The following specialist Reports were used to complete the above tables:

Appendix G1 - Geotechnical Study

Appendix G2 – Traffic Impact Assessment Appendix G3 – Heritage Impact Assessment

Appendix G4 - Vegetation Study

Where applicable indicate the detailed financial provisions for rehabilitation, closure and ongoing post decommissioning management for the negative environmental impacts.

The proposed project is not a mining project. However, Rehabilitation will be undertaken when decommissioning takes place.

#### 4. CUMULATIVE IMPACTS

Describe potential impacts that, on their own may not be significant, but is significant when added to the impact of other activities or existing impacts in the environment. Substantiate response:

The proposed project area has been transformed from its original state by agriculture. It does not support any SCCs nor does it represent the sensitivity as identified in the screening tool. The project area has an overall low sensitivity. Although no sensitive species were found in the project area it is still likely that such species could occur nearby or access / forage in the project area. It is thus important that the management outcomes be adhered to in order to mitigate any impacts that might stem from the development. Adherence to the proposed mitigation measures will ensure that the cumulative impacts kept low.

# 5. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that sums up the impact that the proposal and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

#### **Proposal**

The proposed project will pose various environmental impacts in the environment. When rated without mitigation measures, the impacts are Low, Medium and High. However, when mitigation measures are provided, the impacts are rated Low. The Table below provide a summary of the Impact Rating.

	Extent		Duration		Magnitude		Probability		Significance	
Impact	Without	With	Without	With	Without	With	Without	With	Without	With
	Mitigatio	Mitigatio	Mitigatio	Mitigatio	Mitigatio	Mitigatio	Mitigatio	Mitigation	Mitigation	Mitigation
	n	n	n	n	n	n	n		_	_
				Construct	ion and Ope	rational Pha	se			
Job creation (This is a positive	3		4		10		5		85	
impact) Light Pollution	3	2	4	3	8	4	4	3	60 = Medium	27 = Low
Crime activities in the area due to the new filling station	3	2	4	3	8	4	4	2	60 = Medium	18 = Low
Fire incidents	3	1	3	1	8	4	4	2	56 = Medium	8 = Low
Abstracti on of groundw ater through a borehole may result in sinking water table	3	1	4	1	8	4	4	2	60 = Medium	12 = Low
Potential contami nation of water and oil as a	3	1	4	1	8	2	4	2	60 = Medium	8 = Low

	Extent		Duration		Magnitude	)	Probability	/	Significance	
Impact	Without Mitigatio n	With Mitigatio n	Without Mitigatio n	With Mitigatio n	Without Mitigatio n	With Mitigatio n	Without Mitigatio n	With Mitigation	Without Mitigation	With Mitigation
result of the septic										
dround water Contami	3	1	4	1	8	2	4	2	60 = Medium	8 = Low
nation Potential soil contami nation	3	1	4	1	8	2	4	2	60 = Medium	8 = Low
Slowdow n in traffic	2	1	3	2	6	2	3	2	33 = Medium	10 = Low
Noise Generati on	2	2	3	1	6	2	3	2	33 = Medium	10 = Low
Poor manage ment of Vegetati on and Habitats	3	2	4	1	4	2	3	2	33 = Medium	10 = Low
Disturba nce of Fauna	3	2	4	1	4	2	3	2	33 = Medium	10 = Low
Further infestatio n of the site with alien vegetati on	3	1	4	1	8	2	3	2	45 = Medium	8 = Low
Dust generati on	2	1	3	2	8	2	4	3	52 = Medium	15 = Low
Waste generati on	3	1	3	2	8	2	4	2	56 = Medium	10 = Low
Sewage generati on	3	1	3	2	8	2	4	2	56 = Medium	10 = Low
Non-complian ce with permits and licenses due to poor or no Environ mental awarene ss training	3	1	3	2	8	2	4	2	56 = Medium	10 = Low
Impact on heritage artefacts	3	1	3	2	8	2	4	2	56 = Medium	10 = Low
Negative visual impact due to construction and operation of a new building and	3	2	5	2	6	4	3	2	42 = Medium	16 = Low

	Extent		Duration		Magnitude		Probability	,	Significance	
Impact	Without Mitigatio n	With Mitigatio n	Without Mitigatio n	With Mitigatio n	Without Mitigatio n	With Mitigatio n	Without Mitigatio n	With Mitigation	Without Mitigation	With Mitigation
associat ed infrastru cture										
Impact on the geotech	2	1	3	2	6	4	3	2	33 = Medium	14 = Low
Stormwa ter	3	2	3	2	6	2	3	2	36 = Medium	12 = Low
Contami nation of surface water (Hydrolo gy)	3	1	3	2	8	4	4	2	56 = Medium	14 = Low
Loss of Agricultu ral Land	2	1	3	2	8	2	4	2	52 = Medium	110 = Low
					ommissionir					
Waste generati on	3	1	4	1	8	2	4	2	60 = Medium	0 = Low
Dust generati on	2	1	3	2	8	2	4	3	52 = Medium	15 = Low
Noise Generati on	2	2	3	1	6	2	3	2	33 = Medium	10 = Low
Poor rehabilit ation	2	1	3	1	6	2	4	2	44 = Medium	8 = Low

# No-go (compulsory)

The No-Go option refers to the option not to develop the proposed filling station.

	Extent		Duration		Magnitude	)	Probability	•	Significance	)
Impact	Without Mitigatio n	With Mitigatio n	Without Mitigatio n	With Mitigatio n	Without Mitigatio n	With Mitigatio n	Without Mitigatio n	With Mitigatio n	Without Mitigation	With Mitigation
No addition al fuel station along the R25	3		5		4		2		24 = Low	
No new jobs created	3		5		8		5		80 = High	
No disturba nce of the environ ment	3		5		0		3		24 = Low	

#### IMPACT SUMMARY OF THE PROPOSAL OR PREFERRED ALTERNATIVE 6.

For proposal:

Various potential impacts have been identified and are listed in the table below. Mitigation measures for these impacts are included in Section 2 above and the Environmental Management Programme (EMPr).

	Significance	
Potential Impact	Without Mitigation	With Mitigation
Construction and C	Operational Phases	
Job creation (This is a positive impact)	85	

Light Pollution	60 = Medium	27 = Low
Crime activities in the area due to the new filling station	60 = Medium	18 = Low
Fire incidents	56 = Medium	8 = Low
Abstraction of groundwater through a borehole may result in sinking water table	60 = Medium	12 = Low
Potential contamination of water and oil as a result of the septic tank	60 = Medium	8 = Low
Groundwater Contamination	60 = Medium	8 = Low
Potential soil contamination	60 = Medium	8 = Low
Slowdown in traffic	33 = Medium	10 = Low
Noise Generation	33 = Medium	10 = Low
Poor management of Vegetation and Habitats	33 = Medium	10 = Low
Disturbance of Fauna	33 = Medium	10 = Low
Further infestation of the site with alien vegetation	45 = Medium	8 = Low
Dust generation	52 = Medium	15 = Low
Waste generation	56 = Medium	10 = Low
Sewage generation	56 = Medium	10 = Low
Non-compliance with permits and licenses due to poor or no Environmental awareness training	56 = Medium	10 = Low
Impact on heritage artefacts	56 = Medium	10 = Low
Negative visual impact due to construction and operation of a new building and associated infrastructure	42 = Medium	16 = Low
Impact on the geotech	33 = Medium	14 = Low
Stormwater	36 = Medium	12 = Low
Contamination of surface water (Hydrology)	56 = Medium	14 = Low
Loss of Agricultural Land	52 = Medium	110 = Low
Decommissioning Phase	e	
Waste generation	60 = Medium	0 = Low
Dust generation	52 = Medium	15 = Low
Noise Generation	33 = Medium	10 = Low
Poor rehabilitation	44 = Medium	8 = Low

#### For alternative:

This section is not applicable.

Having assessed the significance of impacts of the proposal and alternative(s), please provide an overall summary and reasons for selecting the proposal or preferred alternative.

In terms of heritage features, the proposed development will not affect any existing, tangible heritage resources. It is unlikely that fossil heritage will be impacted in a low sensitive area. However, there remains an inevitable risk that subsurface heritage resources may be exposed during construction. The potential that significant subsurface heritage resources are present is, however, very unlikely.

In terms of biodiversity, the project area has been transformed from its original state by agriculture. It does not support any SCCs nor does it represent the sensitivity as identified in the screening tool. The project area has an overall low sensitivity. Although no sensitive species were found in the project area it is still likely that such species could occur nearby or access / forage in the project area.

In terms of the geology, no groundwater seepage was observed in any of the pits excavated during field investigations. The site classified as class C in accordance with the NHBRC Residential Class Designation. Conditions prevailing at the site suggest that no problems are foreseen for the development of the proposed structures, provided the recommendations outlined in the report are adhered to.

In terms of traffic assessment, the study concluded that the planned filling station development can be undertaken.

The impact assessment done has revealed that the negative impacts identified can be mitigated to acceptable levels provided the EMPr is implemented on site. There are no fatal flaws that were noted on the proposed project. As such based on the specialist studies undertaken, the assessment done by the EAP and the feedback received from the I&APs during the Public Participation Process, this proposed project should be allowed to proceed.

#### 7. SPATIAL DEVELOPMENT TOOLS

Indicate the application of any spatial development tool protocols on the proposed development and the outcome thereof.

The maps were developed using spatial development tool.

#### 8. RECOMMENDATION OF THE PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the Environmental Assessment Practitioner as bound by professional ethical standards and the code of conduct of EAPASA).

YES x	NO

If "NO", indicate the aspects that require further assessment before a decision can be made (list the aspects that require further assessment):

This section is not applicable.

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

#### Monitoring

- A suitably qualified Environmental Control Officer (ECO) should be appointed before commencement of construction activities.
- The ECO should monitor compliance to the Environmental Authorisation, EMPr and any other relevant environmental authorization.

#### **Training and Awareness**

The construction staff should be trained on the content of the EMPr, EA and other relevant permits and licenses.

#### Geology

- Before the concrete base is cast, the following construction procedures apply:
  - All topsoil to be stripped to spoil;
  - o Excavation to be backfill with G5 quality material to required depth below ground level;
  - o G5 material to be adequately compacted to 93% Mod AASHTO density at -1% to +2% OMC;
  - Allowance should be made for the worst-case scenario in the design of foundation structures to withstand a corrosive environment.
- No ponding of water should be permitted on the site.
- It is important to note that foundation recommendations are subject to confirmation of laboratory test results. Based on site conditions and the classification described (C1) Residential Site Class Designations according to NHBR). The following foundation types are provisionally recommended: Residual sandstone was encountered at the depths of about 1.2 m below the ground level. Therefore, the recommended foundation type for single or double masonry house structures to be erected: Reinforced strip footings; and or deep strip foundations founded on a solid horizon below the problem horizon.
- The following construction procedures apply.
  - Removal of in-situ material up to 600mm beyond the perimeter of the building and to a depth of 600mm below the current ground level and spoil.
  - o The above operation can be followed by compaction of the in-situ material to 90% MOD AASHOTO.
  - Backfill and compact using the imported G5 quality material in layers of 150mm compacted thickness to a density of at least 95% Mod AASHTO density at OMC +/- 2% up to top of the proposed founding level.
  - The foundation of the proposed structure can then be placed on the soil mattress at the required foundation level using an allowable bearing capacity of 100kPa.
  - A minimum cover of 600mm of compacted soil mattress is required below the concrete raft foundation.
- Adequate drainage is an important factor in the promotion of a stable site.
- Drainage should be such that any rainfall is diverted to the nearest storm water drainage system.
- Both surface and subsurface drainage should be constructed such that no water ingress into the subsurface soils in and around the foundation base is possible.

It is recommended that the installation of underground services and surface drainage is undertaken in accordance with SANS 1200 LF-1983.

# **9. THE NEEDS AND DESIREBILITY OF THE PROPOSED DEVELOPMENT** (as per notice 792 of 2012, or the updated version of this guideline)

The R25 starts in the Gauteng Province and continues to Mpumalanga and Limpopo Provinces passing through Bronkhorstspruit to Groblersdal. In the Gauteng/Mpumalanga border, the R25 continues past R544, and ends at N11 head-on with the R33 in Groblersdal. Between Bronkhorstspruit and Groblersdal, there is limited access to fuel to the travellers along the R25. As a result, the Nondindwa Rhadasi Family Trust has proposed to establish a fuel station and associated infrastructure to service motorists along the R25. The associated infrastructure include the following but are not limited to: 4 x 23000L fuel tanks, 14m wide access roads (entrance and exit), convenience store with offices and associated rooms, fast food outlet, ablution facilities, truck stop area, vehicle parking areas, workshop, 2 x 9 000l jojo tanks with fire pump, stormwater system and emergency vehicle repair area.

The proposed filling station will provide service to the vehicles/trucks travelling to and from Groblersdal or Limpopo Province. The food outlet will provide a place to rest for motorists.

The proposed filling station will also enhance development within Bronkhorstspruit. Further, it will provide employment opportunities.

# **10.** THE PERIOD FOR WHICH THE ENVIRONMENTAL AUTHORISATION IS REQUIRED (CONSIDER WHEN THE ACITIVTY IS EXPECTED TO BE CONCLUDED)

Three (3) years.

11. **ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr)** (must include post construction monitoring requirements and when these will be concluded.)

If the EAP answers "Yes" to Point 7 above then an EMP is to be attached to this report as an Appendix

Yes x

# **SECTION F: APPENDIXES**

The following appendixes must be attached as appropriate (this list is inclusive, but not exhaustive):

It is required that if more than one item is enclosed that a table of contents is included in the appendix

Appendix A: Site plan(s) – (must include a scaled layout plan of the proposed activities overlain on the site sensitivities indicating areas to be avoided including buffers)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Route position information

Appendix E: Public participation information

Appendix F: Water use license(s) authorisation, SAHRA information, service letters from municipalities, water supply information

Appendix G: Specialist reports

Appendix H: EMPr

Appendix I: Minutes of Pre\_Application Meeting with GDARD

#### **CHECKLIST**

To ensure that all information that the Department needs to be able to process this application, please check that:

- Where requested, supporting documentation has been attached;
- > All relevant sections of the form have been completed.

# **REFERENCES**

National Department of Transport. May 2012. RDDA South African Numbered Route Description and Destination Analysis. OCTON Geological Consultants. September 2021. Geotechnical Investigation for a Proposed Filling Station and Associated Infrastructure on Farm Roodepoort 504, JR, Bronkhorstspruit, Tshwane Metropolitan Municipality of the Gauteng Province, South Africa.

The Biodiversity Company. November 2020. The Vegetation Compliance Statement for the Proposed Establishment of the Bronkhorstspruit Filling Station and Associated Structures at Farm Roodepoort 504 JR Bronkhorstspruit, Gauteng.

The Heritage Foundation. December 2020. Bronkhorstspruit Filling Station: Portion 28 (a portion of Portion 15) of the Farm Roodepoort 504 JR, Gauteng Notification of Intent to Develop and Request for Exemption.

City of Tshwane Metropolitan Municipality. Regionalised Municipal Spatial Development Framework 2017, Region 7.

https://www.engineeringnews.co.za/article/small-companies-unaware-of-regulations-2010-07-30 Accessed 11 November 2022 and 07:54

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