

MPJF TRANSPORT

**PROPOSED DEVELOPMENT OF REMAINING
EXTENT OF HOLDING 22 WATERVAL SMALL
HOLDINGS JQ FOR STORAGE AND
WAREHOUSING, RUSTENBURG, NORTH
WEST PROVINCE**

NWP/EIA/39/2017

SEPTEMBER 2017 (DRAFT)



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read

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Provincial Reference Number:

NEAS Ref Number:

Date Received:

Basic assessment report in terms of the Environmental Impact Assessment Regulations, 2014, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.

Kindly note that:

1. This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2014 and is meant to streamline applications.
2. This report format is current as of **December 2014**. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority
3. 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.
4. Where applicable tick the boxes that are applicable in the report.
5. The use of "not applicable" in the report must be done with circumspection. An incomplete report or that does not meet the requirements in terms of Regulation 19 of the NEMA EIA Regulations, 2014, will be rejected to be revised and be resubmitted.
6. The report must be handed in at offices of the relevant competent authority as determined by each authority.
7. No faxed or e-mailed reports will be accepted.
8. The signature of the Environmental Assessment Practitioner (EAP) on the report must be an original.
9. The report must be compiled by an independent EAP.
10. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
11. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.
12. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.
13. Two (2) colour hard copies and one (1) electronic copy of the report must be submitted to the competent authority.
14. Shape files (.shp) for maps must be included on the electronic copy of the report submitted to the competent authority.

SECTION A: ACTIVITY INFORMATION

1. PROJECT DESCRIPTION

a) Describe the project in association with the listed activities applied for

Proposed Development of remaining extent of Holding 22 Waterval Small Holdings JQ for storage and warehousing, Rustenburg, North West Province.

The clearance of an area of 1ha or more (Activity 27 of GNR 983 as amended in GNR 327) since the property size is 2.1503ha and the entire site will be cleared for the development. The area is disturbed and contains mostly alien vegetation but is located within the 2.5km buffer of the MPE.

The clearance of an area of 300 square metres or more of indigenous vegetation (Activity 12 of GNR 985 as amended in GNR 324) since 2.1503ha vegetation will be cleared on the site which is identified as within the MPE buffer of 2.5km.

Possible construction phase activities that may occur with the proposed development on-site:

- Clearance of vegetation;
- Earthworks;
- Delivery of construction equipment and material to the site;
- Movement of construction vehicles and equipment on site and around the site;
- Bulk services (water supply) installation;
- Storm water infrastructure installation;
- Construction of access and internal roads; and
- Construction of warehouse.

The development includes the following:

- 130 parking areas
- 1 200m² storage area (warehousing / storage building)

Specialist studies:

The following specialist studies were undertaken as part of the project:

- A Cultural Heritage Impact Assessment by Archætnos Culture and Cultural Resource Consultants (Prof. A.C. van Vollenhoven), which found no sites of cultural heritage significance.
- A Palaeontological Scoping Report by Dr J.F. Durand which found fossil occurrence in the area improbable and recommending the project be exempted from further studies.
- An Ecological (fauna and flora) specialist study by African Litany (Ms Melissa Moffett), which found the site to be:
 - located in close proximity (~ 500 m) of a CBA 2 biodiversity corridor (east of the site);
 - located within the Marikana Thornveld SVcb 6 vegetation unit, which has a conservation status of *Vulnerable*;
 - completely transformed through previous and current land use activities; and
 - located in a developed area where the biodiversity has been transformed.



b) Provide a detailed description of the listed activities associated with the project as applied for

Listed activity as described in GN R.983, 984 and 985	Description of project activity
<p>Example: GN R.983 Activity 12(iii): The development of a bridge exceeding 100 square metres where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such development will occur within existing roads or roads reserve.</p>	<p><i>A bridge measuring 10m in length, 12 metres wide will be built over the Crocodile river</i></p>
<p>GNR 983 and amended in GNR 327, Activity 27: The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for:</p> <p>(i) the undertaking of linear activity; or (ii) maintenance purposes undertaken in accordance with a maintenance management plan</p>	<p>The property size is 2.1503ha and the entire site will be cleared for the development. The area is disturbed and contains mostly alien vegetation but is located within the 2.5km buffer of the MPE.</p>
<p>GNR 985 as amended in GNR 324, Activity 12: The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>(h) North West (v) Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority.</p>	<p>More than 300m² vegetation will be cleared on the site which is identified as within the MPE buffer of 2.5km.</p>

c) Property description/physical address

Province	North West Province
District Municipality	Bojanala District Municipality
Local Municipality	Rustenburg Local Municipality
Ward Number(s)	42
Farm name and number	Waterval Small Holdings JQ
Portion number	Remaining extent of Holding 22
21 digit Surveyor General Code	TOJQ00450000002200000



Where a large number of properties are involved (e.g. linear activities) please attach a full list to this application including the same information as indicated above

2. FEASIBLE AND REASONABLE ALTERNATIVES

“alternatives”, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

Describe alternatives that are considered in this application as required by EIA Regulation, 2014 Appendix 1(h) . Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity (NOT PROJECT) could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed.

The determination of whether 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. 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.

Should the alternatives include different locations and lay-outs, the co-ordinates of the different alternatives must be provided. The co-ordinates should be in degrees, minutes and seconds using the Hartebeeshoek94 WGS84 co-ordinate system.

a) Site alternatives

List alternative sites, if applicable.

Site Alternatives	Description
Alternative Site 1 (preferred or only site alternative)	The preferred site alternative is Remaining extent of Holding 22 Waterval Small Holdings JQ. The site is conveniently located along the R104 between Rustenburg and Pretoria via Kroondal, Mooinooi and Hartbeespoort Dam (visible and easy access) and within an urban developed area. The site is surrounded by existing, developments (Chrome Carriers to the west, Church to the east, residential to the east and south, industrial to the north and west).



Alternative Site 2	No alternative sites have been considered for the development since this site was purchased for this specific development purpose.
Alternative Site 3	

Site Co-ordinates

Latitude (S):

Longitude (E):

Alternative S1 (preferred or only site alternative)

25°	41'	30.98"	27°	16'	12.40"
0	'	"	0	'	"
0	'	"	0	'	"

Alternative S2 (if any)

Alternative S3 (if any)

In the case of linear activities:
Alternative:

Latitude (S):

Longitude (E):

Alternative S1 (preferred or only route alternative)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

0	'	"	0	'	"
0	'	"	0	'	"
0	'	"	0	'	"

Alternative S2 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

0	'	"	0	'	"
0	'	"	0	'	"
0	'	"	0	'	"

Alternative S3 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

0	'	"	0	'	"
0	'	"	0	'	"
0	'	"	0	'	"

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 metres along the route for each alternative alignment.



In the case of an area being under application, please provide the co-ordinates of the corners of the site as indicated on the lay-out map provided in Appendix A.

b) Lay-out alternatives

Alternatives	Description
Alternative 1 (preferred or only alternative)	The layout was guided by the new access. The preferred layout includes storage and warehousing across the majority of the property (1 200m ²), allowing for 130 parking bays.
Alternative 2	No alternative layout has been considered for the development since this site was purchased for this specific development purpose and the layout is restricted by the access.
Alternative 3	

c) Technology alternatives

Alternatives	Description
Alternative 1 (preferred or only alternative)	See below in terms of sewage management.
Alternative 2	
Alternative 3	

d) Other alternatives (e.g. scheduling, demand, input, scale and design alternatives)

Alternatives	Description
Alternative 1 (preferred or only alternative)	See below in terms of access and electricity.
Alternative 2	
Alternative 3	

Alternatives considered in terms of access (refer to Appendix E):

- Current access directly from the R104 into the middle of the property.
- New access on the western boundary of the site (border with Chrome Carriers) as per Department Public Works and Roads (DPWR) requirements in terms of road safety and access from a major road was selected.

Alternatives considered in terms of Sewage management (refer to Appendix E):

- Link to the municipal sewer.
- Enviroloo.
- Solar powered urine diversion toilet (SPUD).
- A conservancy tank will be established on site and will be pumped by Deonak for disposal to the Rustenburg Wastewater Treatment Works (WWTW). No more than three (3) people will be on the property daily.

Alternatives considered in terms of Electricity supply:

- Municipal supply – there is municipal power extended to the property, though all wires etc. have been stolen from the electrical box (refer to photograph in Appendix C).



- The applicant opted to go for the installation of solar panels on the roof of the warehouse. A low quantity of electricity (lights) is required for this type of development (warehouse & storage).

e) **No-go alternative**

The no-go alternative will result in the property not being developed for storage and warehousing. The property is too small in size (2.15ha) to be commercial viable for agricultural use. This will result in the property remaining vacant and posing a safety and security risk to surrounding developed properties. Vagrants have stolen material from existing structures on the property and buildings had to be demolished to prevent these vagrants from illegally occupying the property after occupants were removed.

f) **Please motivate for preferred site, activity and technology alternative**

Remaining extent of Holding 22 Waterval Small Holdings JQ is the preferred site for the storage and warehousing development. Though the site is zoned for agricultural purposes, it is too small to be used for commercial agricultural purposes (2.15ha). This site is also located between other already developed properties (residential, business, commercial). This site was purchased for this purpose. The storage and warehousing will not negatively impact on neighbouring uses (residential, church, business, commercial). The property is ideally located in terms of visibility and accessibility along the R104 between Rustenburg and Pretoria via Kroondal, Mooinooi and Hartbeespoort Dam.

Paragraphs 3 – 13 below should be completed for each alternative.

3. **PHYSICAL SIZE OF THE ACTIVITY**

- a) Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

Alternative:	Size of the activity:
Alternative A1 ¹ (preferred activity alternative)	21 503 m ²
Alternative A2 (if any)	m ²
Alternative A3 (if any)	m ²

or, for linear activities:

Alternative:	Length of the activity:
Alternative A1 (preferred activity alternative)	m
Alternative A2 (if any)	m



Alternative A3 (if any)

m

b) Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

Alternative:

Size of the site/servitude:

Alternative A1 (preferred activity alternative)

21 503 m ²

Alternative A2 (if any)

m ²

Alternative A3 (if any)

m ²

4. SITE ACCESS

Does ready access to the site exist?

YES	NO
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If NO, what is the distance over which a new access road will be built

m

Describe the type of access road planned:

Access will be from the existing R104 on the western boundary of the site. This access was approved by the DPWR and this was used to determine the site layout.

Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

5. LOCALITY MAP – SEE APPENDIX A

An A3 locality map must be attached to the back of this document, as Appendix A. The scale of the locality map must be relevant to the size of the development (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 map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- indication of all the alternatives identified;
- closest town(s);
- the accurate indication of the site in relation to closest protected environments or national parks (i.e. within 2.5 km)
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow;



- a legend; and
- locality GPS co-ordinates (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 degrees, minutes and seconds using the Hartebeeshoek94 WGS84 co-ordinate system)

6. LAYOUT/ROUTE PLAN – SEE APPENDIX D

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix B to this document.

The site or route plans must indicate the following:

- the property boundaries and numbers of all the properties within 50 metres of the site;
- the current land use as well as the land use zoning of the site;
- the current land use as well as the land use zoning each of the properties adjoining the site or sites;
- the exact position of each listed activity applied for (including alternatives);
- servitude(s) indicating the purpose of the servitude;
- a legend; and
- a north arrow.

7. SENSITIVITY MAP – SEE APPENDIX B

The layout/route plan as indicated above must be overlain with a sensitivity map that indicates all the sensitive areas associated with the site, including, but not limited to:

- watercourses;
- the 1:100 year flood line (where available or where it is required by Department of Water and Sanitation);
- ridges;
- for gentle slopes the 1 metre contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- cultural and historical features;
- areas with indigenous vegetation (even if it is degraded or infested with alien species); and
- critical biodiversity areas and ecological support area.
- protected areas (e.g Magaliesberg Protected Environment, Pilanesberg National Park etc.)

The sensitivity map must also cover areas within 100m of the site and must be part of Appendix B.

8. SITE PHOTOGRAPHS – SEE APPENDIX C

Colour photographs from the centre 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 Appendix C to this report. It must be supplemented with additional photographs of relevant features on the site, if applicable.

9. FACILITY ILLUSTRATION – SEE APPENDIX D

A detailed illustration of the activity must be provided at a scale of at least 1:200 as Appendix D 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.



10. ACTIVITY MOTIVATION

Motivate and explain the need and desirability of the activity (including demand for the activity):

1. Is the activity permitted in terms of the property's existing land use rights?	YES	NO	Please explain
The current zoning for the proposed project area is agricultural land use. The rezoning of the project area is currently underway to allow storage and warehousing.			
2. Will the activity be in line with the following?			
(a) Provincial Spatial Development Framework (PSDF)	YES	NO	Please explain
Accelerate growth and development and promote sustainable development.			
(b) Urban edge / Edge of Built environment for the area	YES	NO	Please explain
The project area is located between other developed properties and residential, commercial and business developments and therefore will not result in urban sprawl.			
(c) Integrated Development Plan (IDP) and Spatial Development Framework (SDF) of the Local Municipality (e.g. would the approval of this application compromise the integrity of the existing approved and credible municipal IDP and SDF?).	YES	NO	Please explain
According to the Rustenburg Land Use Management Scheme (LUMS), the project area is earmarked for special. According to the Rustenburg Spatial Development Framework (SDF, 2010), the proposed project area is earmarked for urban agriculture with surrounding multiple residential land use, therefore the proposed project is in line with the municipal SDF to establish storage and warehousing.			
(d) Approved Structure Plan of the Municipality	YES	NO	Please explain
The project area is within 3km of the Rustenburg CBD and services extend to this area. The building plans still have to be approved.			



<p>(e) An Environmental Management Framework (EMF) adopted by the Department (e.g. Would the approval of this application compromise the integrity of the existing environmental management priorities for the area and if so, can it be justified in terms of sustainability considerations?)</p>	<p>YES</p>	<p>NO</p>	<p>Please explain</p>
<p>The small holding is currently not used for agricultural purposes and will be rezoned for storage and warehousing. The EMF does not specifically deal with storage and warehousing as a land use.</p> <p>The entire MPE is considered as a sensitive area and the proposed site is located within the 2.5 km buffer zone of the MPE. Many different land uses including residential, commercial, retail, industrial and institutional uses occur within the MPE buffer zone and this site is surrounded by existing developed properties.</p>			
<p>(f) Any other Plans (e.g. Guide Plan)</p>	<p>YES</p>	<p>NO</p>	<p>Please explain</p>
<p>All plans generated by authorities were considered and the proposed development will not contravene any other plans.</p>			
<p>3. Is the land use (associated with the activity being applied for) considered within the timeframe intended by the existing approved SDF agreed to by the relevant environmental authority (i.e. is the proposed development in line with the projects and programmes identified as priorities within the credible IDP)?</p>	<p>YES</p>	<p>NO</p>	<p>Please explain</p>
<p>The proposed project area is earmarked for urban agriculture surrounded by multiple residential land use.</p>			
<p>4. Does the community/area need the activity and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local context it could be inappropriate.)</p>	<p>YES</p>	<p>NO</p>	<p>Please explain</p>
<p>There is a need for storage and warehousing facilities. This land use is compatible with surrounding land uses.</p>			



5. Are the necessary services with adequate capacity currently available (at the time of application), or must additional capacity be created to cater for the development? (Confirmation by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix E.)	YES	NO	Please explain
<p>Services are available in the area but are not connected to the project site. The RLM bulk water supply line runs along the R104 to the south of the property. Electricity extends to the property but the contents of the electrical box have been stolen. The property will be self-sufficient in terms of electricity through solar panels on the roof of the building. The sewage will be captured in conservancy tanks which will be emptied by Deonak for disposal to the RLM Wastewater Treatment Works which has adequate capacity and has given Deonak permission to dispose of the sewage there. Solid waste will be collected by a contractor.</p>			
6. Is this development provided for in the infrastructure planning of the municipality, and if not what will the implication be on the infrastructure planning of the municipality (priority and placement of services and opportunity costs)? (Comment by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)	YES	NO	Please explain
<p>The proposed development is located in an urban developed area and therefore supply of services is the responsibility of the municipality. For this reason, it must be a part of the infrastructure planning of the municipality. Although, currently, the project site is not linked to municipal bulk services for water supply, the infrastructure is in close proximity (south of site - along R104).</p>			
7. Is this project part of a national programme to address an issue of national concern or importance?	YES	NO	Please explain
<p>Storage and warehousing are not part of a national programme.</p>			
8. Do location factors favour this land use (associated with the activity applied for) at this place? (This relates to the contextualisation of the proposed land use on this site within its broader context.)	YES	NO	Please explain
<p>There are existing developments and mixed land uses surrounding the site. This includes industrial (Chrome Carriers), institutional (church), residential (Casa Valde, Little Italy, Nyala Rock, Impala housing). Warehousing and storage is not an intrusive land use and will not impact on surrounding land uses.</p>			
9. Is the development the best practicable environmental option for this land/site?	YES	NO	Please explain
<p>Due to the fact that the property is located within a developed urban area and that there are residential, commercial and business developments surrounding the property. The surrounding properties can make use of the storage facilities if required.</p>			



10. Will the benefits of the proposed land use/development outweigh the negative impacts of it?	YES	NO	Please explain
If mitigation is applied during the construction phase as suggested, the positive impacts will outweigh the potential negative impacts. The vulnerable vegetation unit within the property has already been disturbed by previous land use activities and the property has no conservation value from an ecological perspective.			
11. Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?	YES	NO	Please explain
There are already residential, industrial, institutional, business and commercial developments surrounding the proposed project area and within the region.			
12. Will any person's rights be negatively affected by the proposed activity/ies?	YES	NO	Please explain
There is no predicted violation of any person's rights based on the scope of the development.			
13. Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality?	YES	NO	Please explain
The proposed development is located within the urban area, hence it will not result in urban sprawl.			
14. Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPs)?	YES	NO	Please explain
SIP includes the unlocking of economic opportunities in the North West Province, although this project is not listed directly, it does contribute to the current socio-economic structure.			
15. What will the benefits be to society in general and to the local communities?			Please explain
The provision of storage and warehousing for the local people in the area, including neighbouring residential, business and commercial properties will be a positive impact. Jobs will be created during the construction phase (construction workers and contractors), consequently adding to the Gross Domestic Product (GDP) of the city as a whole.			
16. Any other need and desirability considerations related to the proposed activity?			Please explain
Market need for storage and warehousing.			



17. How does the project fit into the National Development Plan for 2030?	Please explain
The proposed project will create employment and lead to economic growth, which is in line with the National Development Plan.	
18. Please describe how the general objectives of Integrated Environmental Management as set out in Section 23 of NEMA as amended have been taken into account.	
Environmental tools such as impact assessments have been used to ensure integrated environmental management.	
19. Please describe how the principles of environmental management as set out in Section 2 of NEMA as amended have been taken into account.	
All environmental and socio-economic impacts have been taken into account, including the associated consequences and alternatives to mitigate predicted negative impacts.	

11. 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, if applicable:

Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
Constitution of South Africa, 1996 (Act 108 of 1996)	Section 24 states that: Everyone has the right to an environment that is not harmful to their health or well-being; and to have the environment protected, for the benefit of present and future generations, through reasonable legislative and other measures that prevent pollution and ecological degradation; promote conservation; and secure ecologically sustainable development and use of natural resources while promoting justifiable economic and social development." <i>This project will not result in any harm to health and well-being due to the nature of storage and warehousing. The</i>	Department of Justice and Constitutional Court	1996



Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
	<i>Environmental Management Programme (EMP) will prevent pollution. The property is ecologically degraded due to historic activities.</i>		
National Environmental Management Act (NEMA), 1998 (Act 107 of 1998) as amended	Government Notice Regulations (GNR) 982, 983, 984 & 985 of 4 December 2014 as amended in GNR 324, 325, 326 and 327 of 7 April 2017 contain the regulations pertaining to EIA under sections 24(5), 24M and 44 of the NEMA. <i>The project falls under the listed activities of GNR983 as amended in GNR327 Activity 27 and GNR 985 as amended in GNR324 Activity 12.</i>	National (DEA) and Provincial (NW READ)	1998
Conservation of Agricultural Resources Act (CARA), 1983 (Act 43 of 1983)	The aim of the Act is to provide for control over the utilization of the natural agricultural resources of the Republic in order to promote the conservation of the soil, the water sources and the vegetation and the combating of weeds and invader plants. <i>The project area is currently zoned as agricultural land and is infested with alien vegetation.</i>	Department of Agriculture, Forestry and Fisheries (DAFF)	1983
National Heritage Resources Act (NHRA), 1999 (Act 25 of 1999)	Aspects concerning the conservation of cultural resources are dealt with in this Act and need to be considered to determine if there are any sites of heritage value that require	South African Heritage Resources Agency	1999



Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
	<p>protection/mitigation.</p> <p><i>No sites of cultural heritage significance were found and fossil occurrence in the area is improbable based on Cultural Heritage and Palaeontology studies.</i></p>		
<p>National Environmental Management: Biodiversity Act (NEMBA), 2004 (Act 10 of 2004)</p>	<p>One of the objectives of this Act is to provide for the management and conservation of South Africa's biodiversity within the framework of the NEMA and to ensure the sustainable use of indigenous biological resources. Part 2 of NEMBA provides for listing of species that are threatened or in need of protection.</p> <p>Alien and Invasive Species are listed under GNR 599 (1 August 2014).</p> <p><i>Alien species as identified in the specialist ecology study, need to be controlled as per regulations.</i></p>	<p>DEA & NW READ</p>	<p>2004</p>
<p>National Environmental Management: Protected Areas Act (NEMPAA), 2003 (Act 57 of 2003)</p>	<p><i>The property falls within the 2.5 km buffer of the MPE.</i></p>	<p>DEA & NW READ</p>	<p>2003</p>
<p>Rustenburg Spatial Development Framework (SDF), North West, 2010.</p>	<p>To determine if the project is in line with spatial development plans and environmental management frameworks developed by the municipality.</p> <p><i>The area is earmarked for urban agriculture with</i></p>	<p>RLM</p>	<p>2010</p>



Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
	<i>surrounding multiple residential land uses.</i>		
Rustenburg Strategic Environmental Assessment (SEA), 2003.	Old document but still has useful information in terms of long-term planning.	RLM	2003
Rustenburg Land Use Management Scheme (LUMS), 2005.	<i>In terms of land uses.</i>	RLM	2005
MPE Environmental Management Framework (EMF) and Plan. Draft. October 2007	<i>Since the project is located within the buffer zone of the MPE.</i>	NW READ	2007
North West Biodiversity Sector Plan, 2015	<i>Since the project is located within the buffer zone of the MPE.</i>	NW READ	2015

12. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

a) Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?

YES	NO
	15 000m ³

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

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

Solid construction waste from the site will include:

Building rubble due to demolition of existing and remaining buildings, which have already been vandalised and during construction of new infrastructure/structures/buildings. Roof tiles and bricks can be reused.

Biodegradable/organic waste will include:

Soil and vegetation cover that will be removed during the construction phase (vegetation clearance and earthworks) for the establishment of infrastructure/structures resulting in garden type biodegradable waste.

General waste will include:

Waste generated by builders on site (food containers, plastic, paper etc.).

All solid waste will be removed from site and disposed of at the licensed local municipal waste disposal facility in Rustenburg. The waste will be collected in skips (to be placed on site by the construction contractor) and transported to the waste disposal site by the appointed construction contractor. No special handling or disposal methods will be required and landfill/ landbuild is adequate due to the wide-ranging general nature of waste produced.



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

Solid waste will be collected in skips / bins and disposed to the local landfill site in Rustenburg (Waterval Landfill Site).

Roof tiles and bricks can be reused.

Will the activity produce solid waste during its operational phase?

YES	NO
-----	----

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

4 m ³

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

Solid waste generated during the operational phase, will be typical household/office type waste. This waste will be removed from the site and transported by a waste contractor to a licensed municipal waste disposal site in Rustenburg. The general type solid waste mainly consists of the following:

Domestic waste (for possible recycling off site ensure separation on site) including:

- Glass;
- Plastics;
- Paper;
- Metals (cans);

Biodegradable waste including:

- Food waste;
- Garden waste (possible removal off site to composting facility); and
- Paper (possible recycling).

Small quantities of hazardous waste diluted in the waste stream including:

- Chemicals (mainly household chemicals used for cleaning purposes);
- Fuel spillages due to vehicles off-loading for storage or collection from storage;
- Oil spillages due to vehicles off-loading for storage or collection from storage.

This waste will feed into the municipal waste stream. Therefore, it will be stored in bins/bags, which will be collected on a weekly basis by the contractor for disposal to the local municipal landfill site in Rustenburg. The waste can be classified as a general type of waste and therefore no special handling or disposal methods are required and normal landfilling or landbuilding type disposal will be acceptable. The hazardous solid waste quantities will be minimal and diluted within the general stream as is the case in all municipal waste streams. Recycling should be encouraged by providing recycling domes for collection of recyclable waste such as glass, plastic, paper etc.

If the solid waste will be disposed of into a municipal waste stream, indicate which registered landfill site will be used.

The RLM Waterval General Waste Disposal Facility, located approximately 5km southeast of Rustenburg. The site is approximately 115 hectares in extent.

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

Waste will feed into the municipal waste stream.



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, then 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 NEM:WA?

YES	NO
-----	----

If YES, inform the competent authority and request a change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

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

YES	NO
-----	----

If YES, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

b) Liquid effluent

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

YES	NO
-----	----

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

m ³	
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Will the activity produce any effluent that will be treated and/or disposed of on site?

YES	NO
-----	----

If YES, describe the type of effluent and the disposal mechanism/method

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

YES	NO
-----	----

If YES, provide the particulars of the facility:

Facility name:	Rustenburg Wastewater Treatment Works (see letters attached in Appendix E)		
Contact person:	Ms Ziyanda Mateta		
Postal address:	P.O. Box 16, Rustenburg		
Postal code:	0300		
Telephone:	014 590 3530	Cell:	
E-mail:	zmateta@rustenburg.gov.za	Fax:	

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

Recycling: Technologies, which are available for recycling and can be considered by the applicant include the recycling of grey water and rain water harvesting.

c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere other than exhaust emissions and dust associated with construction phase activities?

YES	NO
-----	----

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

YES	NO
-----	----

If YES, the applicant must 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:

During the construction phase of the activity, emissions may be expected from:

- Exhausts of construction vehicles to and from the site and construction equipment exhausts.
- Dust generation as a result of ground clearance (removal of vegetation), construction works (earth works) and associated vehicle movement.

As far as the operational phase of the activity is concerned, emissions released into the atmosphere would be from vehicle exhausts visiting the facility to deliver or collect.

d) Waste Licence/Registration

Will any aspect of the activity produce waste that will require a waste licence/registration in terms of the NEM:WA?

YES	NO
-----	----

If YES, please submit evidence that an application for a waste licence/registration has been submitted to the competent authority

e) Generation of noise

Will the activity generate noise?

YES	NO
-----	----

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

YES	NO
YES	NO

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 noise in terms of type and level:

During the construction phase, construction vehicles and equipment will definitely disturb the ambient environment of the surrounding businesses and residential units.

During the operational phase, an increase in the number of visitors to the property, will increase the noise levels in the area. Aside from vehicular traffic increasing, ambient noise levels will also most probably increase due to visitors and workers talking. However, this is minimal compared to surrounding land use noise levels (Chrome Carriers, residential areas, roads etc.). Noise from traffic on the R104 will also be heard on the property. Noise levels will comply with municipal bylaws on noise during the operational phase.

13. WATER USE

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box(es):

Municipal	Water-board	Groundwater	River, stream, dam or lake	Other	The activity will not use water
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

Does the activity require a water use authorisation (general authorisation or water use license) from the Department of Water and Sanitation?

		litres
YES	NO	

If YES, please provide proof that the application has been submitted to the Department of Water and Sanitation.



14. ENERGY EFFICIENCY

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

The warehouse and storage building will be fitted with solar panels on its roof.
Energy efficient (LED) lighting will be installed.

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

During the operational phase, the activity will be reliant on solar panels on the roof of the warehouse and storage area to supply it with its energy requirements.

Has a specialist been consulted to assist with the completion of this section?

YES

NO

If YES, please complete the form entitled "Details of specialist and declaration of interest" for the specialist appointed and attach in Appendix F.



SECTION B: SITE/AREA/PROPERTY DESCRIPTION

Important notes:

- For linear activities (pipelines, etc) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section B and indicate the area, as it appears on the Site Plan.
- Paragraphs 1 - 6 below must be completed for each alternative.

Current land-use zoning as per local municipality IDP/records:

Agriculture

In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.

Is a change of land-use or a consent use application required?

YES	NO
-----	----

1. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Alternative S1:

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
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Alternative S2 (if any):

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
------	-------------	-------------	-------------	--------------	-------------	------------------

Alternative S3 (if any):

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
------	-------------	-------------	-------------	--------------	-------------	------------------

2. LOCATION IN LANDSCAPE

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

2.1 Ridgeline	<input type="checkbox"/>	2.4 Closed valley	<input type="checkbox"/>	2.7 Undulating plain / low hills	<input type="checkbox"/>
2.2 Plateau	<input type="checkbox"/>	2.5 Open valley	<input type="checkbox"/>	2.8 Dune	<input type="checkbox"/>
2.3 Side slope of hill/mountain	<input type="checkbox"/>	2.6 Plain	<input checked="" type="checkbox"/>	2.9 Seafront	<input type="checkbox"/>



3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Is the site(s) located on any of the following?

	Alternative S1:		Alternative S2 (if any):		Alternative S3 (if any):	
Shallow water table (less than 1.5m deep)	YES	NO	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO	YES	NO	YES	NO
An area sensitive to erosion	YES	NO	YES	NO	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted.

4. GROUND COVER

Indicate the types of groundcover present on the site. The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld – good condition ^E	Natural veld – with scattered aliens ^E	Natural veld – with heavy alien infestation ^E	Veld dominated by alien species ^E	Gardens – around the existing house
Sport field	Cultivated land – mango trees	Paved surface	Building or other structure – existing structures	Bare soil – current access road, patches and the area through which the demolition equipment moved

If any of the boxes marked with an “^E” is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn’t have the necessary expertise.

5. SURFACE WATER

Indicate the surface water present on and or adjacent to the site and alternative sites?

Perennial River	YES	NO	UNSURE
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Non-Perennial River	YES	NO	UNSURE
Permanent Wetland	YES	NO	UNSURE
Seasonal Wetland	YES	NO	UNSURE
Artificial Wetland	YES	NO	UNSURE

If any of the boxes marked YES or UNSURE is ticked, please provide a description of the relevant watercourse.

The Hex River is located approximately 1.2km north of the site.
The Waterval Spruit flowing through Waterval East and not shown on maps is located approximately 400m north west of the site.

6. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

Natural area	Dam or reservoir	Polo fields
Low density residential	Hospital/medical centre	Filling station [#]
Medium density residential – Nyala Rock to east, Casa Valde, Little Italy & Impala housing south of R104	School	Landfill or waste treatment site
High density residential	Tertiary education facility	Plantation
Informal residential ^A	Church – His vision Church directly to the east	Agriculture – north east
Retail commercial & warehousing	Old age home – Retirement village, Casa Valde south of R104	River, stream or wetland ^N – Waterval Spruit 400m north west
Light industrial – Chrome Carriers transport yard directly to the west and north	Sewage treatment plant ^A	Nature conservation area ^N
Medium industrial ^{AN}	Train station or shunting yard ^N	Mountain, koppie or ridge ^N



Heavy industrial ^{AN}	Railway line ^N	Museum
Power station	Major road (4 lanes or more) ^N	Historical building ^N
Office/consulting room	Airport ^N	Protected Area ^N
Military or police base/station/compound	Harbour	Graveyard ^N
Spoil heap or slimes dam ^A – directly to the north on Chrome Carriers site	Sport facilities	Archaeological site ^N
Quarry, sand or borrow pit	Golf course	Other land uses (describe)

If any of the boxes marked with an "N" are ticked, how this impact will / be impacted upon by the proposed activity? Specify and explain

No impact on the Waterval Spruit or vice versa due to the nature of the activity (storage & warehousing).

If any of the boxes marked with an "AN" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

The spoil heap will result in dust, which may be a nuisance to neighbouring properties. The warehouse and storage area may require more frequent cleaning (dusting).

If any of the boxes marked with an "H" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

None.

Does the proposed site (including any alternative sites) fall within any of the following:

Critical Biodiversity Area (as per provincial conservation plan) CBA2 in terms of MPE buffer	YES	NO
Core area of a protected area?	YES	NO
Buffer area of a protected area? MPE buffer of 2.5km	YES	NO
Planned expansion area of an existing protected area?	YES	NO
Existing offset area associated with a previous Environmental Authorisation?	YES	NO

If the answer to any of these questions was YES, a map indicating the affected area must be included in Appendix B (as part of sensitivity map). **SEE APPENDIX B.**

7. BIODIVERSITY

Please note: The Department may request specialist input/studies depending on the nature of the biodiversity occurring on the site and potential impact(s) of the proposed activity/ies. To assist with the identification of the biodiversity occurring on site and the ecosystem status consult <http://bgis.sanbi.org> or BGIShelp@sanbi.org. Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/



EAP's responsibility to ensure that the latest version is used. A map of the relevant biodiversity information (including an indication of the habitat conditions as per (b) below) and must be provided as an overlay map to the property/site plan as Appendix B to this report.

- a) Indicate the applicable biodiversity planning categories of all areas on site and indicate the reason(s) provided in the biodiversity plan for the selection of the specific area as part of the specific category)

Systematic Biodiversity Planning Category				If CBA or ESA, indicate the reason(s) for its selection in biodiversity plan
Critical Biodiversity Area (CBA)	Ecological Support Area (ESA)	Other Natural Area (ONA)	No Natural Area Remaining (NNR)	Within MPE 2.5km buffer zone.

- b) Indicate and describe the habitat condition on site

Habitat Condition	Percentage of habitat condition class (adding up to 100%)	Description and additional Comments and Observations (including additional insight into condition, e.g. poor land management practises, presence of quarries, grazing, harvesting regimes etc).
Natural	0%	
Near Natural (includes areas with low to moderate level of alien invasive plants)	5%	
Degraded (includes areas heavily invaded by alien plants)	80%	
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	15%	Structures/buildings with associated swimming pool and what used to be a garden.



c) Complete the table to indicate:

- (i) the type of vegetation, including its ecosystem status, present on the site; and
- (ii) whether an aquatic ecosystem is present on site.

Terrestrial Ecosystems		Aquatic Ecosystems		
Ecosystem threat status as per the National Environmental Management: Biodiversity Act (Act No. 10 of 2004)	Critical	Wetland (including rivers, depressions, channelled and unchannelled wetlands, flats, seeps pans, and artificial wetlands)		
	Endangered			
	Vulnerable - Marikana Thornveld SVcb 6 but totally transformed			
	Least Threatened			
		YES	NO	UNSURE

d) Please provide a description of the vegetation type and/or aquatic ecosystem present on site, including any important biodiversity features/information identified on site (e.g. threatened species and special habitats)

An Ecological (fauna and flora) specialist study by African Litany (Ms Melissa Moffett), found the site to be:

- o located in close proximity (~ 500 m) of a CBA 2 biodiversity corridor (east of the site);
- o located within the Marikana Thornveld SVcb 6 vegetation unit, which has a conservation status of *Vulnerable*;
- o completely transformed through previous and current land use activities; and
- o located in an urban area that is already developed and where the biodiversity has been transformed.

8. CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the site? If YES, explain:

YES

NO

Uncertain

If uncertain, conduct a specialist investigation by a recognised specialist in the field (archaeology or palaeontology) to establish whether there is such a feature(s) present on or close to the site. Briefly explain the findings of the specialist:



- A Cultural Heritage Impact Assessment by Archaetnos Culture and Cultural Resource Consultants (Prof. A.C. van Vollenhoven), which found no sites of cultural heritage significance.
- A Palaeontological Scoping Report by Dr J.F. Durand which found fossil occurrence in the area improbable and recommending the project be exempted from further studies.

Will any building or structure older than 60 years be affected in any way?

YES	NO
YES	NO

Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

If YES, please provide proof that this permit application has been submitted to SAHRA or the relevant provincial authority.

9. SOCIO-ECONOMIC CHARACTER

a) Local Municipality

Please provide details on the socio-economic character of the local municipality in which the proposed site(s) are situated.

Level of unemployment:

The estimated unemployment rates in the RLM have decreased from 31.8% in 2001 to 26.42% in 2011.

A further notable feature is the significant differences between the levels of unemployment between the male and female population. The unemployment rate of the male population in 2010 was 18.1%, compared to the 46.3% of the female population and in 2015 it was 10.6 % for males and 21.1% for females.

Economic profile of local municipality:

RLM contributes more than 3% to the National Gross Value Added (GVA) (2016), the dominant economic sector being mining, which contributes to more than 60% of the GVA of the municipality. The type of mining done in Rustenburg is also relatively labour intensive - it employs more than 50% of Rustenburg's people.

The manufacturing and retail sectors accounts for 5.7% and 10%, respectively of the employment in the municipality.

All other economic sectors contribute less than 10% each of the GVA of Rustenburg (2016).

The growth rate for Rustenburg is more than 3.5%.

Level of education:

It is generally recognized that the skills profile of a particular area has a significant influence on the economic performance and growth of that region. Although significant



progress has been made with the eradication of adult illiteracy (decreasing from approximately 12% to 6.7%), the majority of the adult population have only completed some form of secondary education as highest qualification (representing just over 40% of the total adult population). 5% of population have had no schooling. There are no significant differences between the gender education profiles, although a slightly higher percentage of the male population has only completed primary education compared to the female population. In both categories, the percentage of the adult population with some form of tertiary qualification remains very low.

b) Socio-economic value of the activity

What is the expected capital value of the activity on completion?
 What is the expected yearly income that will be generated by or as a result of the activity?
 Will the activity contribute to service infrastructure?
 Is the activity a public amenity?
 How many new employment opportunities will be created in the development and construction phase of the activity/ies?
 What is the expected value of the employment opportunities during the development and construction phase?
 What percentage of this will accrue to previously disadvantaged individuals?
 How many permanent new employment opportunities will be created during the operational phase of the activity?
 What is the expected current value of the employment opportunities during the first 10 years?
 What percentage of this will accrue to previously disadvantaged individuals?

R 6 million
R 1 million
YES NO
YES NO
50
Unknown
90 %
3
R 300 000
90 %

10. SPECIALIST(S) CONSULTATION

Has a specialist been consulted to assist with the completion of this section?

YES	NO
-----	----

 If YES, please complete the form entitled "Details of specialist and declaration of interest" for each specialist thus appointed and attach it in Appendix F. All specialist reports must be contained in Appendix G and must meet the requirement in Appendix 6 of EIA Regulations, 2014.



SECTION C: 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.

1. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

Provide a summary and anticipated significance of the potential direct, indirect and cumulative impacts that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed. This impact assessment must be applied to all the identified alternatives to the activities identified in Section A(2) of this report.

Activity	Impact summary	Significance	Proposed mitigation
Alternative 1 (preferred alternative)			
CONSTRUCTION: Fauna & Flora – loss of biodiversity	Direct impacts: <ul style="list-style-type: none"> The site is located within the 2.5km buffer zone of the MPE. The site is located in close proximity (~ 500 m) of a CBA 2 biodiversity corridor (east of the site). The site is located within the Marikana Thornveld SVcb 6 vegetation unit, which has a conservation status of Vulnerable. Degradation of the area through a loss of plant cover. Vegetation removal will cause fauna to move away and reduce extent of faunal habitat. Establishment and spread of declared weeds and alien invader plants. Alien vegetation species are more prominent near disturbances relative to less disturbed areas. 	Low	<ul style="list-style-type: none"> The ecological specialist study by African Litany (Ms Melissa Moffett) found the site to be: <ul style="list-style-type: none"> completely transformed through previous and current land use activities; and located in an urban area that is already developed and where the biodiversity has been transformed. Remain within demarcated areas during construction to limit disturbances to surrounding areas. Remove all exotic/invasive species as Conservation of Agricultural Resources Act (CARA), 1983 (Act 43 of 1983) and National Environmental Management Biodiversity Act (NEMBA), 2004 (Act 10



Activity	Impact summary	Significance	Proposed mitigation
			<p>of 2004) Alien and Invasive Species Lists requires.</p> <ul style="list-style-type: none"> • Prepare and implement an alien plant management and monitoring programme from the outset once authorization has been granted as it takes at least three (3) years to break the cycle of regeneration. This plan needs to make provision for the on-going management of alien vegetation in the long-term to prevent encroachment and spreading of invasive and exotic species. • Limit construction activities to the day-time and working hours for the purpose of not disturbing activities and ecological processes of nocturnal birds and small mammals. • No removal of material (animals, plant, trees for firewood, rocks) from nearby undisturbed areas such as the CBA 2 located to the east of the site. • No fauna species encountered may be harmed, trapped or captured, <i>i.e.</i> poaching by the workforce is forbidden. Notify manager for safe removal. • Place signage indicating conduct on property, such as no littering, no removal of trees or animals, no pets, no harm to trees



Activity	Impact summary	Significance	Proposed mitigation
			<p>and animals etc.</p> <ul style="list-style-type: none"> • Retain as many of the indigenous trees and bushes as possible and practical. This could be through the incorporation of natural bushveld trees as part of the landscape features of the development. Sensitise the work force to this requirement and demarcate the few large remaining indigenous trees. • Limit dust on site and the spreading thereof to vegetation in surrounding areas, as this will impact negatively on both the vegetation and faunal habitat of the adjacent properties. • In the unlikely event that any rare / endangered / protected species are found in the project site footprint, such species should be relocated to a similar location/habitat not more than 300 metres from its original location, before site clearing and planting activities occur. A suitably qualified professional (botanist) or institution, e.g. NW READ, should be contacted to advise and assist to ensure that the endangered species relocation process is undertaken appropriately. • Appoint an



Activity	Impact summary	Significance	Proposed mitigation
			<p>Environmental Control Officer (ECO) to ensure mitigation is applied and incidents are reported and reflect non-compliance to the EMP.</p> <ul style="list-style-type: none"> • Re-vegetate all disturbed areas using only indigenous trees and shrubs which are key taxa of the Marikana Thornveld vegetation unit.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
<p>CONSTRUCTION: Land use change</p>	<p><i>Direct impacts:</i> The property is zoned agricultural but not used for agricultural activities. It was previously used for residential – buildings with tenants. Some buildings were demolished when tenants moved out since vagrants started moving in and vandalising building (removing windows, roof tiles etc). Agricultural land will be lost.</p>	<p>Moderate High</p>	<p>Rezoning the property from agricultural use to allow for storage and warehousing because:</p> <ul style="list-style-type: none"> • The property is not currently and has not been used for agricultural purposes. • The property was previously used for residential purposes and it now vacant and not used at all. • The property is too small (2.15ha) to be used for commercial agricultural activities from an economic point-of-view. • The property is surrounded by existing residential (south and east), commercial and business (north and west) developments. • The property is located within the urban edge. • The property is located within close proximity (3km) to the Rustenburg CBD.



Activity	Impact summary	Significance	Proposed mitigation
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
CONSTRUCTION: Soil erosion	<i>Direct impacts:</i> Soil erosion due to vegetation clearance and earth works.	Low	<ul style="list-style-type: none"> Refer to storm water management
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
CONSTRUCTION: Improper Handling and Disposal of Waste – impact on soil, groundwater and runoff	<p><i>Direct impacts:</i> General waste will accumulate during the construction phase due to vegetation clearance, demolition of structures and construction workers. Waste generated on site must be sorted into different waste streams. Poor solid waste management practises can lead to contamination and unsightly areas, as well as pests/vermin and odours with associated health issues. Waste streams include:</p> <ul style="list-style-type: none"> Vegetation due to removal of vegetation. Solid construction waste generated through construction activities (building rubble). Hazardous waste in the event of a hydrocarbon spillage/leak (construction equipment or vehicles). General waste produced by builders (biodegradable and non-biodegradable). 	Low	<ul style="list-style-type: none"> Prevention of waste: Material storage – material storage areas should be safe, secure and weatherproof to prevent damage to material (resulting in waste generation) and theft. Reduction / minimisation of waste: <ul style="list-style-type: none"> Reduce waste quantities and disposal costs through a reduction in the materials ordered. “Take-back” schemes – setting up schemes with suppliers to take back surplus materials. Collect waste in suitable containers (drums/skips/bins on site). Engage with the supply chain to supply products and materials that use minimal packaging. Reuse / recycling of waste: Separate / sort waste for collection and recycling - make



Activity	Impact summary	Significance	Proposed mitigation
			<p>arrangement with recycling contractors to provide clearly marked bins for material separation / sorting. Make sure that sub-contractors are aware of the placement of the bins and their responsibility to separate / sort materials. Segregate packaging for reuse.</p> <ul style="list-style-type: none"> • Waste handling on site: <ul style="list-style-type: none"> ○ Separate / sort waste. ○ Waste containers must have covers to prevent rainwater infiltration. ○ Ensure sufficient containers are available for storage of waste prior to removal off site to prevent overflow and littering on the site and surroundings. ○ Ensure no litter, refuse, waste and rubble generated on the premises will be placed, dumped or deposited on this site, adjacent or surrounding properties during the construction and clean-up phase. • Waste removal & disposal: The property owner plans to not use municipal waste removal services but a contractor for waste removal. Remove waste from site for



Activity	Impact summary	Significance	Proposed mitigation
			<p>disposal to the local licensed municipal landfill / waste management facility on a regular basis (at least weekly or when skip is full). Removal by the construction contractor or another contractor. No burning or burying of waste.</p> <ul style="list-style-type: none"> • Documentation: <ul style="list-style-type: none"> ○ Contractors to report on the quantities of different waste streams they manage (landfill, reuse, recycling, energy recovery). ○ Ensure copies of all waste manifests (safe disposal certificates) are kept, showing responsible handling, transport and disposal by a reputable waste handler. ○ Include measure in contract that will ensure sub-contractors are required to clean their work area after construction.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i> Airspace on RLM waste disposal facility is reduced	Low	Small quantity of waste
CONSTRUCTION: Air quality – dust & emissions	<i>Direct impacts:</i> Emissions may be released into the atmosphere resulting from: <ul style="list-style-type: none"> • vehicles and machinery (carbon monoxide 	Low	<ul style="list-style-type: none"> • All vehicles and machinery/equipment used on, or entering the site, must be maintained and serviced regularly to



Activity	Impact summary	Significance	Proposed mitigation
	<p>emissions, smoke),</p> <ul style="list-style-type: none"> • solvents, and • malodours as a result of waste not being removed from the construction site; and <p>Dust may result from earthworks.</p>		<p>ensure that they do not emit smoke or fumes. The contractor's representative must ensure that all on-site vehicles comply with the old SABS 0181 standards (now SANS 10181:2003 in conjunction with SANS 10282:2003)</p> <ul style="list-style-type: none"> • Limit idling time of vehicles / equipment. • Avoid overloading of construction vehicles. • Any solvent based finishes such as paints, varnishes, sealants, and polishes will contain minimal levels of Volatile Organic Compounds (VOC) and no Chloro-Fluoro Carbons (CFC), which may harm the atmosphere. Water-based paints are to be used where possible and plant based stains and sealants must be considered as these are more environmentally friendly. • Waste must be disposed, as soon as possible to a municipal transfer station, skip or on a licensed landfill site. Waste must not be allowed to stand on site to decay, resulting in malodours and attracting vermin. Waste may not be burnt on site. • Hazardous waste must be stored separately from general waste on an impermeable surface and disposed of



Activity	Impact summary	Significance	Proposed mitigation
			<p>at a hazardous waste landfill site.</p> <ul style="list-style-type: none"> • Water sprays and dust suppression surfactants, must be used to limit dust generated if required. • A complaints register must be kept throughout the construction and operational phase. •
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
CONSTRUCTION: Water quality	<p><i>Direct impacts:</i> Spillages can cause soil, runoff and groundwater contamination. Due to vegetation clearance, runoff can wash sediment away causing erosion on the property and runoff with a high sediment load.</p>	Low	<ul style="list-style-type: none"> • If feasible, construction should preferably occur in the dry season, when surface water runoff is minimal. • No uncontrolled discharge from the site should be permitted. • Surface run-off from construction sites should be discharged into storm water drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins to reduce siltation in storm water drains. Channels or earth bunds or sand bag barriers should be provided on site to properly direct storm water to such silt removal facilities. • Silt removal facilities should be maintained and the deposited silt and grit should be removed regularly, to ensure that these facilities are functioning properly at all times.



Activity	Impact summary	Significance	Proposed mitigation
			<ul style="list-style-type: none"> • Wastewater generated from the washing down of mixer trucks and drum mixers and similar equipment should wherever practicable be recycled. • Contractor must ensure that all building materials / chemicals are effectively stored (sealed containers) and managed (mixing etc.) to prevent contamination. In the unlikely event of a spillage, sufficient clean-up procedures must be carried out immediately. • All reagents, reagents storage tanks and mixing units must be supplied with a bunded area (bund wall) built to contain 110% of the capacity of the facility, to contain any spilled material and return back into the system if possible. The system must be maintained in a state of good repair and standby pumps must be provided. •
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
CONSTRUCTION: Water quantity	<i>Direct Impacts</i> Impermeable surfaces (such as roofed buildings, concrete surfaces and roads) minimise the surface area available for water infiltration and prevents the effective infiltration of precipitation into the soils and therefore leads to an increase in surface water flow	Low	<ul style="list-style-type: none"> • Alteration of existing drainage patterns must be avoided. • Construction vehicles must be limited to one path to reduce compaction of soil, which increases surface runoff. • Designing the site with



Activity	Impact summary	Significance	Proposed mitigation
	volumes to be managed as well as the velocity at which it flows. This may also lead to erosion.		<p>a smaller area of impervious surfaces.</p> <ul style="list-style-type: none"> The use of low impact development techniques are preferred to intercept and infiltrate runoff from developed areas distributed throughout the site. The cost of storm water implementation, management and maintenance, as well as flood risk, can be greatly reduced by identifying, retaining and enhancing the natural areas along which runoff flows. Permeable paving should be considered for low traffic areas (internal roads, off-loading areas etc). Rainwater harvesting should be considered to capture runoff from roofs and use of this water in landscaped / garden areas.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
CONSTRUCTION: Safety	<i>Direct impacts:</i> Failure to comply with the safety requirements can result in health impacts (injury) and environmental damage.	Low	Compliance with OHSA.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
OPERATION: Waste	<i>Direct impacts:</i> General waste will be produced by visitors (clients)	Low	As per construction phase.



Activity	Impact summary	Significance	Proposed mitigation
management	and workers. Waste removal services are required.		
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i> Airspace of RLM waste disposal facility	Low	Due to small quantity.
OPERATION: Noise & air quality	<i>Direct impacts:</i> <ul style="list-style-type: none"> Noise levels will increase due to the presence of people. Air quality will be impacted by vehicle exhaust systems. 	Low	<ul style="list-style-type: none"> Noise levels will be minimal due to minimal number of workers (2 – 3) and nature of the development (storage & warehousing). The facility will operate during business hours and therefore not disturb church activities on a Sunday (neighbouring church). Vehicle traffic will be minimal due to the nature of the development (storage & warehousing), which only involves delivery and collection.
	<i>Indirect impacts:</i>	-	-
	<i>Cumulative impacts:</i>	-	-
OPERATION: Fauna & Flora	<i>Direct impacts:</i> <ul style="list-style-type: none"> The disturbance associated with the construction phase of the project will render the disturbed areas vulnerable to alien plant invasion. Increase in the spread of alien and invasive plants on site due to disturbance of existing vegetation. 	Low	<ul style="list-style-type: none"> Remove all exotic/invasive species as CARA and NEMBA requires.
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		
OPERATION: Storm water	<i>Direct impacts:</i> Impermeable surfaces	Low	<ul style="list-style-type: none"> Storm water runoff must be controlled and kept



Activity	Impact summary	Significance	Proposed mitigation
management	minimises the surface area available for water infiltration and prevents the effective infiltration of precipitation into the soils and therefore leads to an increase in surface water flow volumes to be managed as well as the velocity at which it flows.		<p>to low velocity flows.</p> <ul style="list-style-type: none"> • Passing water from gutters onto grassed surfaces, rather than directly into areas prone to erosion (bare surfaces). • Rainwater harvesting to irrigate gardens. • A storm water management plan is required considering Sustainable Urban Drainage Systems (SUDS).
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		
Alternative 2			
	<i>Direct impacts:</i>		
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		
	<i>Direct impacts:</i>		
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		
Alternative 3			
	<i>Direct impacts:</i>		
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		
	<i>Direct impacts:</i>		
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		
No-go option			
	<i>Direct impacts:</i> <ul style="list-style-type: none"> • <u>Safety and security:</u> Since the land is currently 	Moderate High	Continuation of the proposed project



Activity	Impact summary	Significance	Proposed mitigation
	<p>vacant, vagrants may occupy the property illegally and this may lead to crime in the area causing a safety and security risk to the neighbouring businesses (such as Chrome Carriers), church and residents. The site was previously occupied and buildings had to be demolished after vacating these people due to the safety and security risk as well as theft.</p> <ul style="list-style-type: none"> • <u>Health:</u> Due to easy access from the R104, the property is used for dumping. Illegal waste disposal can lead to malodours, vermin, pests and associated health risks. • <u>Flora:</u> The site is currently invaded by alien vegetation, which needs to be eradicated and controlled. • <u>Land use:</u> Though the property is zoned for agricultural use, it is not used for agricultural purposes. Agricultural potential of the land is limited due to the size (2.15ha) since it is not feasible to commercially farm on a property this small. Loss of land with development potential since the site is currently vacant and not used. The property is surrounded by residential, institutional, business etc. use. • <u>Socio-economic:</u> Loss of land with development potential since the site is currently vacant and not 		



Activity	Impact summary	Significance	Proposed mitigation
	used.		
	<i>Indirect impacts:</i>		
	<i>Cumulative impacts:</i>		

A complete impact assessment which include process undertaken to identify, assess and rank the impacts, the activity will impose on the site through the life of the activity in terms of EIA Regulation 2014, Appendix 1(i) and (j) of GN R.982 must be included as Appendix H. **SEE APPENDIX J.**

2. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity 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.

Alternative A (preferred alternative)

Impact significance and mitigation measures: The land use will be permanent altered but all other impacts are of low significance with the implementation of the mitigation measures as suggested in the EMP (see Appendix J). The implementation of mitigation measures are especially important during the construction phase when the risk of potential impacts are higher.

Biodiversity in MPE buffer: Though the proposed project is located within the 2.5km buffer zone of the MPE, the potential impact that the proposed development will have on biodiversity is of low significance owing to the fact that the property has already been completely transformed through previous and current land use activities as it is located in an urban area that is already developed and transformed. The eradication of alien vegetation remains a priority and a programme will be implemented to deal with this.

Service provision: The applicant plans to use municipal water. The project will not require solid waste removal services from the RLM as a contractor will be used for off-site removal. A link to the RLM sewer network is not planned since the sewage generated by the three (3) people on site will be stored in conservancy tanks and will be managed by Deonak (see Appendix E). RLM electricity will not be used since the development will be self-sufficient through solar panels on the roof of the building.

Storm water management: A storm water management plan is required.

Alternative B

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Alternative C

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No-go alternative (compulsory)

If the project does not proceed, the potential impacts on safety and security of a vacant holding will be of a high significance.



SECTION D: PUBLIC PARTICIPATION

1. ADVERTISEMENT AND NOTICE

Publication name	Rustenburg Herald Newspaper	
Date published	1 September 2017	
Site notice position	Latitude (S)	Longitude (E)
	25° 41' 32.6"	27° 16' 10.3"
	25° 41' 32.3"	27° 16' 09.7"
Date placed	30 August 2017	

Include proof of the placement of the relevant advertisements and notices in Appendix I1.

2. DETERMINATION OF APPROPRIATE MEASURES

Provide details of the measures taken to include all potential I&APs as required by Regulation 41(2)(e) and 41(6) of GN R.982. **SEE APPENDIX I.**

Key stakeholders (other than organs of state) identified in terms of Regulation 40(2)(d) of GN R.982:

Name & surname	Company / Department / Organisation	Tel	Address:
MPJF Transport (Applicant)	Remainder of Holding 22 Waterval Small Holdings		arcadertb@gmail.com fmfconstruction70@gmail.com
New Space Development (Developer)	Waterval East X32 Scheme Nyala Rock (South East of site)		admin@newspacedevelopment.co.za
Professional Body Corporate Management Shantel Theofrastos Marina Claasen	Waterval East X32 Scheme Nyala Rock (South East of site)	014 592 9529 014 592 8697 014 592 8654	Info.pbcm@gmail.com pbcm.rtb@gmail.com
Casa Valde Carenet Haven (Pty) Ltd Deon Farmer Christo Weyer	Erf 336, 283, 284 Waterval East X19 (South & South West of site)	082 455 5911	P.O. Box 597, Potchefstroom, 2520 weyerplant@mweb.co.za
Waterval East X 31 Homeowners Association	Erf 280 Waterval East X31 (West of site)		P.O. Box 35465, Menlopark, 0102
Deddel CC	Portion 17 of the farm Waterval 306 JQ (West of site)		Postnet Suite 83, Private Bag X82329, Rustenburg, 0300



Name & surname	Company / Department / Organisation	Tel	Address:
Rustenburg Christensentrum (His Vision Church) Marcell Stadler	Portion 1 of Holding 22, Waterval Small Holdings (South East of site)	079 513 8947	P.O. Box 20587, Protea Park, 0305 marcel@hisvision.co.za office@hisvision.co.za
Chrome Loads Prop CC Hennie Marais	Holding 23 and Portion 2 of holding 22, Waterval Small Holdings (West, North West, North, North East of site)	014 592 2571	P.O. Box 1304, Nigel, 1490 hennie@chromecarriers.co.za
Ronel	Symphony Guest House (West of site)	014 592 2821 082 900 9627	
Friedshelf 1169 (Pty) Ltd (Impala Platinum)	Units 109 of Scheme Little Italy 3 (West & South West of site)		Postnet Suite 560, Private Bag X1, Melrose Arch, 2076
Towncomp Pieter de Jager	Town Planner		083 653 7080
Ms Erika Wenhold	Kroondal & Wards Environmental Forum (KWEF)	014 536 1870	mabeu@vodamail.co.za
Carmen Barends	Leads 2 Business: Regional Content Researcher; Private Projects	033 343 1130 0860 836 337 082 783 6978	carmenb@l2b.co.za

Include proof that the key stakeholder received written notification of the proposed activities as Appendix I2. This proof may include any of the following:

- e-mail delivery reports;
- registered mail receipts;
- courier waybills;
- signed acknowledgements of receipt; and/or
- or any other proof as agreed upon by the competent authority.

3. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summary of main issues raised by I&APs	Summary of response from EAP
Jurie Schoeman Was worried that it might be mine stockpiles in terms of storage. Concern ito dust nuisance.	No stockpiles with resulting dust.

4. COMMENTS AND RESPONSE REPORT

The practitioner must make report (s) available to I&APs record all comments received from I&APs and respond to each comment before is submitted. The comments and responses must be captured in a



comments and response report as prescribed in the EIA Regulations and be attached to the Final BAR as Appendix I3.

5. AUTHORITY PARTICIPATION

Authorities and organs of state identified as key stakeholders. Key stakeholders identified in terms of Regulation 7(1) and (2) and Regulation 40(2) (a)-(c) of GN R.982:

Include proof that the Authorities and Organs of State received written notification and draft reports of the proposed activities as Appendix I4.

Name:	Department / Section:	Tel:	Postal address: E-mail:
Mr Thato Molwantwa	RLM: Town planning		P.O. Box 16, Rustenburg, 0300 tmolwantwa@rustenburg.gov.za
Ms Ronette Barnard	RLM: Town planning		P.O. Box 16, Rustenburg, 0300 rbarnard@rustenburg.gov.za
Ms Ziyanda Mateta	RLM: Sanitation	014 590 3530 082 813 3358	P.O. Box 16, Rustenburg, 0300 zmateta@rustenburg.gov.za
Thembi Ntabanyane	RLM: Water & Sewage	014 590 3779	P.O. Box 16, Rustenburg, 0300 tntabanyane@rustenburg.gov.za
Ms Lillian Sefike	RLM: Integrated Environmental	014 590 3075 083 454 3730	P.O. Box 16, Rustenburg, 0300 lsefike@rustenburg.gov.za
Ms Kelebogile Mekgoe	RLM: Integrated Environmental	014 590 3075 072 585 9460	P.O. Box 16, Rustenburg, 0300 kmekgoe@rustenburg.gov.za
Office of the Speaker Councillor: Ilse Edwards	RLM: Ward Councillors Ward 42	014 590 3111 014 590 3240 014 590 3739 014 590 3454 064 755 1009	P.O. Box 16, Rustenburg, 0300 ilse.edwards@lonmin.com
Innocent Sirohva Lynette Lekhafola	BPDM: Municipal Manager	014 590 4502 014 594 2332	innocents@bojanala.co.za lynette@bonajala.gov.za
Kgomotso Setshedi	BPDM: Environmental Officer	082 324 4323	Kgomotso_setshedi@yahoo.com
Ms Portia Krisjan	NWREAD: Director: Environmental Quality Control	082 658 0159	pkrisjan@nwpg.gov.za
Ms Ellis Thebe	NWREAD: Associate Director: Environmental Quality Control	018 389 5099	gethebe@nwpg.gov.za
Ms Motshabi Mohlalisi	NWREAD: Rustenburg EIA	014 597 3597	Private Bag X82298, Rustenburg, 0300 mmohlalisi@nwpg.gov.za
R.L. Bosoga	DAFF: Land Use and Soil Management	012 319 7685	lydiaB@daff.gov.za
Ms Raesibe N. Mashiane Mr Mpho Gumula	DAFF: Land Use and Soil Management	018 285 0311 083 781 5967	P.O. Box 2557, Potchefstroom, 2520 raesibem@daff.gov.za mphog@daff.gov.za mphogumula@gmail.com
Mr Albi Modise	DEA	012 310 3132	amodise@environment.gov.za
Mr Phillip Hine	NW Provincial Heritage Resources Agency		phine@sahra.org.za



6. CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for any activities (linear or other) where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub-regulation to the extent and in the manner as may be agreed to by the competent authority.

Proof of any such agreement must be provided, where applicable. Application for any deviation from the regulations relating to the public participation process must be submitted prior to the commencement of the public participation process.

A list of registered I&APs must be included as Appendix 15.

Copies of any correspondence and minutes of any meetings held must be included in Appendix 16.



SECTION E. RECOMMENDATION OF 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)?

YES

NO

If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment).

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.

In general, all the mitigation measures recommended in the EMP should form part of the authorisation process.

The EMPs that meet the requirements of EIA Regulation, 2014, Appendix 4, must be attached as Appendix J.

Is an EMP attached?

YES

NO

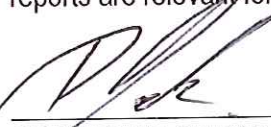
The details of the EAP who compiled the BAR and the expertise of the EAP to perform the Basic Assessment process must be included as Appendix K

If any specialist reports were used during the compilation of this BAR, please attach the declaration of interest for each specialist in Appendix F

Any other information relevant to this application and not previously included must be attached in Appendix L.

SECTION F: AFFIRMATION BY EAP

I, **Paulette Jacobs** (name of person representing EAP) of **HydroScience** (name of company) declare that the information provided is correct and relevant to the activity/ project and that, the information was made available to interested and affected parties for their comments. All specialist (s) reports are relevant for the competent authority to make informed decision.



SIGNATURE OF EAP

2017-09-22
DATE



SECTION F: APPENDICES

The following appendices must be attached:

Appendix A: A3 Locality Map

Appendix B: Layout Plan and Sensitivity Maps

Appendix C: Photographs

Appendix D: Facility illustration(s)

Appendix E: Confirmation of services by Municipality (servitude and infrastructure planning)

Appendix F: Details and expertise of Specialist and Declaration of Interest

Appendix G: Specialist reports (including terms of reference)

Appendix H: Impact Assessment

Appendix I: Public Participation

Appendix J: Environmental Management Programme (EMPr)

Appendix K: Details of EAP and expertise

Appendix L: Any other Information

Appendix M: Financial Provision (if applicable)

Appendix N: Closure Plan (where applicable) as described in Appendix 5 of EIA Regulations, 2014

