

# Basic Assessment Report



**edtea**

**Department :**

Economic Development, Tourism and  
Environmental Affairs

**PROVINCE OF KWAZULU-NATAL**

(For official use only)

EIA File Reference Number:

DC/23/0016/2014

NEAS Reference Number:

KZN/EIA/

Waste Management Licence Number:  
(if applicable)

Date Received:

## BASIC ASSESSMENT REPORT

**Submitted in terms of the Environmental Impact Assessment Regulations, 2010 promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998)**

**This template may be used for the following applications:**

- **Environmental Authorization** subject to basic assessment for an activity that is listed in Listing Notices 1 or 3, 2010 (Government Notices No. R 544 or No. R 546 dated 18 June 2010); or
- **Waste Management Licence** for an activity that is listed in terms of section 20(b) of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) for which a basic assessment process as stipulated in the EIA Regulations must be conducted as part of the application (refer to the schedule of waste management activities in Category A of Government Notice No. 718 dated 03 July 2009).

**Kindly note that:**

1. This **basic assessment report** meets the requirements of the EIA Regulations, 2010 and is meant to streamline applications. This report is the format prescribed by the KZN Department of Economic Development, Tourism & Environmental Affairs. Please make sure that this is the latest version.
2. The report must be typed within the spaces provided in the form. The size of the spaces provided is not 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 text.
3. Where required, place a cross in the box you select.
4. An incomplete report will be returned to the applicant for revision.
5. 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 will result in the rejection of the application as provided for in the regulations.
6. No faxed or e-mailed reports will be accepted.
7. The report must be compiled by an independent environmental assessment practitioner ("EAP").
8. 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.
9. The KZN Department of Economic Development, Tourism & Environmental Affairs may require that for specified types of activities in defined situations only parts of this report need to be completed.
10. The EAP must submit this basic assessment report for comment to all relevant State departments that administer a law relating to a matter affecting the environment. This provision is in accordance with Section 24 O (2) of the National Environmental Management Act 1998 (Act 107 of 1998) and such comments must be submitted within 40 days of such a request.
11. **Please note that this report must be handed in or posted to the District Office of the KZN Department of Economic Development, Tourism & Environmental Affairs to which the application has been allocated (please refer to the details provided in the letter of acknowledgement for this application).**

*"Leading the attainment of inclusive growth for job creation and economic sustenance"*

## DEPARTMENTAL REFERENCE NUMBER(S)

File reference number (EIA):	DC/23/0016/2014
File reference number (Waste Management Licence):	

## SECTION A: DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER AND SPECIALISTS

### 1. NAME AND CONTACT DETAILS OF ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP)

Name and contact details of the EAP who prepared this report:

Business name of EAP:	<b>Environmental Agency</b>		
Physical address:	<b>27 Umkhamba Drive, Umkhamba Gardens, Ladysmith 3370</b>		
Postal address:	<b>27 Umkhamba Drive, Umkhamba Gardens, Ladysmith 3370</b>		
Postal code:	<b>3370</b>	Cell:	<b>074 1414 157</b>
Telephone:	<b>036 631 0806</b>	Fax:	<b>086 272 4442</b>
E-mail:	<a href="mailto:dan@environmentalAgency.co.za">dan@environmentalAgency.co.za</a>		

### 2. NAMES AND EXPERTISE OF REPRESENTATIVES OF THE EAP

Names and details of the expertise of each representative of the EAP involved in the preparation of this report:

Name of representative of the EAP	Education qualifications	Professional affiliations	Experience at environmental assessments (yrs)
<b>Dan Mkhwanazi</b>	<b>B.Sc.</b>	<b>IAIAsa</b>	<b>15</b>
<b>Slindile Ngubeni</b>	<b>BA Enviro Man</b>		<b>1</b>

### 3. NAMES AND EXPERTISE OF SPECIALISTS

Names and details of the expertise of each specialist that has contributed to this report:

Name of specialist	Education qualifications	Field of expertise	Section/ s contributed to in this basic assessment report	Title of specialist report/ s as attached in Appendix D
<b>Paul Jones (Urban-Econ Development Economists)</b>	<b>B.Com Hons. (Economics)</b>	<b>Development economics</b>	<b>Needs and desirability and Socio-economic impacts</b>	<b>Market Feasibility Assessment</b>

## SECTION B: ACTIVITY INFORMATION

### 1. PROJECT TITLE

Describe the project title as provided on the application form for environmental authorization:

Proposed Construction of Ezakheni AutoHub on Erf 1923 Ezakheni D Section, Emnambithi-Ladysmith Municipality, UThukela District, KwaZulu-Natal

### 2. PROJECT DESCRIPTION

Provide a detailed description of the project:

Proposed Ezakheni AutoHub on Ezakheni D Section, Erf 1923, Ezakheni D, Emnambithi-Ladysmith Municipality. The commercial development will consist of a Petrol Filling Station (5 x 23,000L tanks, and associated dispensers), retails shop, spares shop, repairs workshop, parking bays, access roads, car wash, and associated infrastructure.

### 3. ACTIVITY DESCRIPTION

Describe each listed activity in Listing Notice 1 (GNR 544, 18 June 2010), Listing Notice 3 (GNR 546, 18 June 2010) or Category A of GN 718, 3 July 2009 (Waste Management Activities) which is being applied for as per the project description:

Indicate the number and date of the relevant notice:	Activity No (s) (in terms of the relevant or notice) :	Describe each listed activity as per the project description (and not as per wording of the relevant Government Notice) <sup>1</sup> :
R544 of 18 June 2010 Listing Notice 1	13	The construction of facilities or infrastructure for the storage, or storage and handling of a fuel in 5 tanks for leaded fuel, unleaded fuel and diesel, of 23 000 L each totalling 115 000L (115 cubic metres), retail shop, motor repairs workshop, access roads, parking and associated infrastructure.

### 4. 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.

<sup>1</sup> Please note that this description should not be a repetition of the listed activity as contained in the relevant Government Notice, but should be a brief description of activities to be undertaken as per the project description, i.e. describe the components of the desired development

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Describe alternatives that are considered in this report. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity 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.

Sections B 5 – 15 below should be completed for each alternative.

### 5. 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 degrees, minutes and seconds. List alternative sites were applicable.

	Latitude (S):			Longitude (E):		
<b>Alternative:</b> Alternative S1 <sup>2</sup> (preferred or only site alternative)	28°	36'	50.88"	29°	56'	11.92"
Alternative S2 (if any)	0	€	"	0	€	"
Alternative S3 (if any)	0	€	"	0	€	"

#### In the case of linear activities:

	Latitude (S):			Longitude (E):		
<b>Alternative:</b> Alternative S1 (preferred or only route alternative)						
<ul style="list-style-type: none"> <li>• Starting point of the activity</li> <li>• Middle point of the activity</li> <li>• End point of the activity</li> </ul>	0	€	"	0	€	"
Alternative S2 (if any)	0	€	"	0	€	"
<ul style="list-style-type: none"> <li>• Starting point of the activity</li> <li>• Middle point of the activity</li> <li>• End point of the activity</li> </ul>	0	€	"	0	€	"
Alternative S3 (if any)	0	€	"	0	€	"
<ul style="list-style-type: none"> <li>• Starting point of the activity</li> <li>• Middle point of the activity</li> <li>• End point of the activity</li> </ul>	0	€	"	0	€	"

<sup>2</sup> "Alternative S.." refer to site alternatives.

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

### 6. PHYSICAL SIZE OF THE ACTIVITY

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

**Alternative:**

Alternative A1<sup>3</sup> (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

or, for linear activities: N/A

**Size of the activity:**

	5 125m <sup>2</sup>
	5 125m <sup>2</sup>
	m <sup>2</sup>

**Alternative:**

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

**Length of the activity:**

	m
	m
	m

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

**Alternative:**

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

**Size of the site/servitude:**

	m <sup>2</sup>
	m <sup>2</sup>
	m <sup>2</sup>

### 7. SITE ACCESS

Does ready access to the site exist?

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

Describe the type of access road planned:

<del>YES</del>	NO
m	

Site is accessed on its two sides by Sawubona Road on its Southern boundary and Umqulusi Road on its Eastern boundary.

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.

<sup>3</sup> "Alternative A.." refer to activity, process, technology or other alternatives.

## 8. SITE OR ROUTE PLAN

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

The site or route plans must indicate the following:

- 8.1. the scale of the plan which must be at least a scale of 1:500;
- 8.2. the property boundaries and numbers/ erf/ farm numbers of all adjoining properties of the site;
- 8.3. the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 8.4. the exact position of each element of the application as well as any other structures on the site;
- 8.5. the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
- 8.6. walls and fencing including details of the height and construction material;
- 8.7. servitudes indicating the purpose of the servitude;
- 8.8. sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
  - rivers, streams, drainage lines or wetlands;
  - the 1:100 year flood line (where available or where it is required by DWA);
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation including protected plant species (even if it is degraded or infested with alien species);
- 8.9. 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
- 8.10. the positions from where photographs of the site were taken.

## 9. SITE PHOTOGRAPHS

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 B to this report. It must be supplemented with additional photographs of relevant features on the site, if applicable.

## 10. FACILITY ILLUSTRATION

A detailed illustration of the facility must be provided at a scale of 1:200 and attached to this report as Appendix C. The illustrations must be to scale and must represent a realistic image of the planned activity/ies.

## 11. ACTIVITY MOTIVATION

### 11.1. Socio-economic value of the activity

What is the expected capital value of the activity on completion?	R20 million
What is the expected yearly income that will be generated by or as a result of the activity?	R40 million
Will the activity contribute to service infrastructure?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Is the activity a public amenity?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
How many new employment opportunities will be created in the development phase of the activity?	25
What is the expected value of the employment opportunities during the development phase?	R2 million
What percentage of this will accrue to previously disadvantaged individuals?	95%
How many permanent new employment opportunities will be created during the operational phase of the activity?	29
What is the expected current value of the employment opportunities during the first 10 years?	R14 million
What percentage of this will accrue to previously disadvantaged individuals?	98%

### 11.2. Need and desirability of the activity

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

**The summary of the Report: Market Feasibility Assesemnt (by Urban-Econ Development Economists (November 2014):**

The proposed Ezakheni AutoHub would be well situated and would have a desirable effect as it is in close proximity to the new Ezakheni Plaza. There would be a positive economic impact of medium significance as developers would consider investing to it. There is a perceived need for another petroleum filling station which would help in reducing the general congestion surrounding the existing filling station in Ezakheni A. The proposed filling station will service drivers that frequent the Ezakheni Plaza and Ezakheni Community. The proposed project will also benefit the community in terms of employment opportunities during construction and operation phase. The site is located along the Ezakheni main roads (Umqulusi and Sawubona) which makes it easily accessible, particularly to the homeward bound traffic.

Indicate any benefits that the activity will have for society in general:

The proposed Ezakheni AutoHub will increase employment opportunities for Ezakheni communities during construction and operational phase. The additional petroleum filling station will enhance better service of the fuel retail demand. And also the petroleum filling station will be in close proximity to users. It will be operated 24/7 leading to the realiability of services offered and sustainabiillty of the business enterprise.

Other auxillary services will also improve service, employment, and contribute to local economic development to Ezakheni communities are:

- retail shop: offers to fast food and emergency household items, resulting savings to town trips
- car wash: offers convenience and controlled car cleaning service leading to water saveings
- auto shop: offers convenience and limit demand for illegal parts in the community
- workshop: offers connvience and provides professional service at the doorstep.

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Indicate any benefits that the activity will have for the local communities where the activity will be located:

The proposed Ezakheni AutoHub will

- provide employment for Ezakheni communities during construction and operational phase.
- enhance better service of the fuel retail demand.
- reduce congestion on the roads to town or Pieters filling station.
- reduce crime by offering a 24/7 business with high visibility in the township.
- improve sustainability of other SMMEs eg self-employed mechanics.

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

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

Title of legislation, policy or guideline:	Administering authority:	Date:
a. The Constitution of the Republic of South Africa	All authorities	1996
b. Heritage Resources Act	Amafa and Dept. of Arts and Culture	1996
c. National Water Act	Dept. of Water Affairs	1999
d. Health Act	Dept. of Health	1998
e. South African Bureau of Standards, SABS 089-3-1999, Third Edition. Code of practise - The petroleum industry, Part 3: The installation of underground storage tanks, pumps/dispensers and pipework at service station and consumer installations.	South African Bureau of Standards	1999
f. Uthukela District IDP	Uthukela District Municipality	2013/14
g. Emnambithi-Ladysmith IDP	Emnambithi-Ladysmith Municipality	2013/14
h. Emnambithi-Ladysmith SDF	Emnambithi-Ladysmith Municipality	2013/14



### 13. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

#### 13.1. Solid waste management

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

<del>YES</del>	NO
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If yes, what estimated quantity will be produced per month? 

40m <sup>3</sup>	
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How will the construction solid waste be disposed of? (describe)

General waste (40 tons) and hazardous waste (approximately 0.5 tons) will be collected and stored separately according to the specific requirements of the waste type. General waste will be disposed at an approved general waste (Ezakheni Waste Disposal Site). Hazardous waste (spilt fuels and oils and contaminated soils and waste) will be collected by an approved waste disposal Service Provider, and disposed of to an approved hazardous waste disposal landfill site.

Where will the construction solid waste be disposed of? (provide details of landfill site)

Ezakheni Waste Disposal Ste

Will the activity produce solid waste during its operational phase? 

<del>YES</del>	NO
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If yes, what estimated quantity will be produced per month? 

m <sup>3</sup>	
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How will the solid waste be disposed of? (provide details of landfill site)

- Domestic waste generated on site will feed into the Municipal waste stream.
- Hazardous waste generated at the workshop will be collected by an approved hazardous waste collector for recycling and/or disposal.

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

Hazardous waste generated at the workshop will be collected by an approved hazardous waste collector for recycling and/or disposal

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 the further requirements of the application.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation? 

<del>YES</del>	NO
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**If yes, contact the KZN Department of Economic Development, Tourism & Environmental Affairs to obtain clarity regarding the process requirements for your application.**

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

YES	<del>NO</del>
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**If yes, contact the KZN Department of Economic Development, Tourism & Environmental Affairs to obtain clarity regarding the process requirements for your application.**

#### 13.2. Liquid effluent

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

YES	<del>NO</del>
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If yes, what estimated quantity will be produced per month? 

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

Yes	<del>NO</del>
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**If yes, contact the KZN Department of Economic Development, Tourism & Environmental Affairs to obtain clarity regarding the process requirements for your application.**

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

<del>YES</del>	NO
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If yes, provide the particulars of the facility:

Facility name:	Ezakheni Sewage Treatment Works (Uthukela District Municipality)		
Contact person:	Mr. Glen Singh		
Postal address:	PO Box 116, Ladysmith 3370		
Postal code:	3370		
Telephone:	036 368 2400	Cell:	083 626 5130
E-mail:	none	Fax:	036 637 5608

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

<p>An integrated waste water management approach that is based the following:</p> <ul style="list-style-type: none"> <li>Slow dispensing taps at washbays</li> <li>Dry water car wash system</li> <li>Reuse of grey water for irrigation of gardens</li> <li>Usage of brooms instead of water spray for cleaning the court yard</li> </ul>
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### 13.3. Emissions into the atmosphere

Will the activity release emissions into the atmosphere?

<del>YES</del>	<del>NO</del>
YES	<del>NO</del>

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

**If yes, contact the KZN Department of Economic Development, Tourism & Environmental Affairs to obtain clarity regarding the process requirements for your application.**

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

<p>Dust and vehicle emissions will be released into the atmosphere during the construction phase. Emissions released from the site during the construction and operational phases are considered to be negligible and are expected to be well below the ambient emission standards.</p>
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### 13.4. Generation of noise

Will the activity generate noise?

<del>YES</del>	NO
YES	<del>NO</del>

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 noise in terms of type and level:

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- Limited noise will be generated by construction vehicles and machinery during construction. Limitation in the construction hours will alleviate this impact.
- Noise may be generated by vehicles entering and exiting the site, personnel and customers at the filling station and the associated facilities

The amount of noise generated at the site during the construction and operational phases is considered to be negligible, and is not expected to exceed the existing ambient noise levels in the area.

### 14. WATER USE

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

<del>municipal</del>	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:

litres	
YES	<del>NO</del>

Does the activity require a water use permit from the Department of Water Affairs?

If YES, please submit the necessary application to the Department of Water Affairs and attach proof thereof to this report.

### 15. ENERGY EFFICIENCY

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

- Standard PFS (Petrol Fuel Station) construction designs will apply.
- The contractor will be advised to transport all construction materials on site at the same time where possible and the collection of waste material conducted simultaneous with other activities to reduce the amount energy for such transportation.
  - The use of low energy lighting and solar lights and geysers will be considered subject to PFS designs.
  - No direct light and intrusive lighting shall be used that will affect domestic and commercial properties adjacent to the Autohub.
  - Low visibility and soft lights will be used.

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

Solar system is being considered subject to PFS design and suitability.

## SECTION C: 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 C and indicate the area, which is covered by each copy No. on the Site Plan.

Section C Copy No.   
(e.g. A):

- Subsections 1 - 6 below must be completed for each alternative.

### 1. GRADIENT OF THE SITE

Indicate the general gradient of the site.

#### Alternative S1:

<del>Flat</del>	1:50	-	1:20	-	1:15 – 1:10	1:10	-	1:7,5 – 1:5	Steeper than 1:5
	1:20		1:15			1:7,5			

#### Alternative S2 (if any): NONE

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

#### Alternative S3 (if any): NONE

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

### 2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site (Please cross the appropriate box).

#### Alternative S1 (preferred site):

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	<del>Plain</del>	Undulating plain/low hills	Dune	Sea-front
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#### Alternative S2 (if any):

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front
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#### Alternative S3 (if any):

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front
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### 3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Has a specialist been consulted for the completion of this section? YES  NO

If YES, please complete the following:

Name of the specialist:	The Geotechnical Study is being commissioned by the Applicant and shall be available in the Final BAR phase of the project.		
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	
Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites?	YES	NO	
If YES, specify and explain:			
Are there any special or sensitive habitats or other natural features present on any of the alternative sites?	YES	NO	
If YES, specify and explain:			
Are any further specialist studies recommended by the specialist?	YES	NO	
If YES, specify:			
If YES, is such a report(s) attached in <u>Appendix D</u> ?	YES	NO	

Signature of specialist: \_\_\_\_\_ Date: \_\_\_\_\_

Is the site(s) located on any of the following (cross the appropriate boxes)?  
 THE GEOTECHNICAL STUDY WILL BE AVAILABLE IN JANUARY 2014 TO FILL THIS TABLE.

	Alternative S1:		Alternative S2 (if any):		Alternative S3 (if any):	
	YES	NO	YES	NO	YES	NO
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**

Has a specialist been consulted for the completion of this section?  YES  NO

If YES, please complete the following:

Name of the specialist:

Qualification(s) of the specialist:

Postal address:

Postal code:

Telephone:  Cell:

E-mail:  Fax:

Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites?  YES  NO

If YES, specify and explain:

Are there any special or sensitive habitats or other natural features present on any of the alternative sites?  YES  NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist?  YES  NO

If YES, specify:

If YES, is such a report(s) attached in Appendix D?  YES  NO

Signature of specialist:     N/A     Date:

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 <sup>E</sup>	<del>Natural veld with scattered aliens<sup>E</sup></del>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an “<sup>E</sup>” 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. LAND USE CHARACTER OF SURROUNDING AREA**

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

Land use character	YES	NO	Description
Natural area	<del>YES</del>	NO	Undeveloped but zoned and subdivided sites, Ezakheni Shopping Centre, Residential Properties
Low density residential	YES	<del>NO</del>	
Medium density residential	<del>YES</del>	NO	Township sites around the property most vacant but earmarked for development as per zoning and subdivision.
High density residential	YES	<del>NO</del>	
Informal residential	YES	<del>NO</del>	Ezakheni is an urban township
Retail commercial & warehousing	<del>YES</del>	NO	Ezakheni Shopping Centre is 500m away
Light industrial	YES	<del>NO</del>	
Medium industrial	YES	<del>NO</del>	
Heavy industrial	YES	<del>NO</del>	
Power station	YES	<del>NO</del>	
Office/consulting room	YES	<del>NO</del>	
Military or police base/station/compound	YES	<del>NO</del>	
Spoil heap or slimes dam	YES	<del>NO</del>	
Quarry, sand or borrow pit	YES	<del>NO</del>	
Dam or reservoir	YES	<del>NO</del>	
Hospital/medical centre	YES	<del>NO</del>	
School/ crèche	YES	<del>NO</del>	
Tertiary education facility	YES	<del>NO</del>	
Church	YES	<del>NO</del>	
Old age home	YES	<del>NO</del>	
Sewage treatment plant	YES	<del>NO</del>	
Train station or shunting yard	YES	<del>NO</del>	
Railway line	YES	<del>NO</del>	
Major road (4 lanes or more)	YES	<del>NO</del>	
Airport	YES	<del>NO</del>	
Harbour	YES	<del>NO</del>	
Sport facilities	<del>YES</del>	NO	Soccer field is 250m South West of the site
Golf course	YES	<del>NO</del>	
Polo fields	YES	<del>NO</del>	
Filling station	YES	<del>NO</del>	
Landfill or waste treatment site	YES	<del>NO</del>	
Plantation	YES	<del>NO</del>	
Agriculture	YES	<del>NO</del>	
River, stream or wetland	YES	<del>NO</del>	
Nature conservation area	YES	<del>NO</del>	
Mountain, hill or ridge	YES	<del>NO</del>	
Museum	YES	<del>NO</del>	
Historical building	YES	<del>NO</del>	
Protected Area	YES	<del>NO</del>	
Graveyard	YES	<del>NO</del>	
Archaeological site	YES	<del>NO</del>	
Other land uses (describe)	YES	<del>NO</del>	

## 6. 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 within 20m of the site?

YES	NO
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If YES, contact a specialist recommended by AMAFA to conduct a heritage impact assessment. The heritage impact assessment must be attached as an appendix to this report.

Briefly explain the recommendations of the specialist:

N/A

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

YES	NO
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Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

YES	NO
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If YES, please submit the necessary application to AMAFA and attach proof thereof to this report.

## SECTION D: PUBLIC PARTICIPATION

### 1. ADVERTISEMENT

The person conducting a public participation process must take into account any guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of the application which is subjected to public participation by—

- (a) fixing a notice board (of a size at least 60cm by 42cm; and must display the required information in lettering and in a format as may be determined by the competent authority) at a place conspicuous to the public at the boundary or on the fence of—
  - (i) the site where the activity to which the application relates is or is to be undertaken; and
  - (ii) any alternative site mentioned in the application;
- (b) giving written notice to—
  - (i) the owner or person in control of that land if the applicant is not the owner or person in control of the land;
  - (ii) the occupiers of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iii) owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iv) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;
  - (v) the local and district municipality which has jurisdiction in the area;
  - (vi) any organ of state having jurisdiction in respect of any aspect of the activity (as identified in the application form for the environmental authorization of this project); and
  - (vii) any other party as required by the competent authority;



- (c) placing an advertisement in—
  - (i) one local newspaper; or
  - (ii) any official *Gazette* that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;
- (d) placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the metropolitan or district municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official *Gazette* referred to in subregulation 54(c)(ii); and
- (e) using reasonable alternative methods, as agreed to by the competent authority, in those instances where a person is desiring of but unable to participate in the process due to—
  - (i) illiteracy;
  - (ii) disability; or
  - (iii) any other disadvantage.

## 2. CONTENT OF ADVERTISEMENTS AND NOTICES

A notice board, advertisement or notices must:

- (a) indicate the details of the application which is subjected to public participation; and
- (b) state—
  - (i) that an application for environmental authorization has been submitted to the KZN Department of Economic Development, Tourism & Environmental Affairs in terms of the EIA Regulations, 2010;(ii)
  - (iii) a brief project description that includes the nature and location of the activity to which the application relates;
  - (iv) where further information on the application can be obtained; and
  - (iv) the manner in which and the person to whom representations in respect of the application may be made.

## 3. PLACEMENT OF ADVERTISEMENTS AND NOTICES

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the competent authority in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of the EIA regulations.

Advertisements and notices must make provision for all alternatives.

#### 4. DETERMINATION OF APPROPRIATE PROCESS

The EAP must ensure that the public participation process is according to that prescribed in regulation 54 of the EIA Regulations, 2010, but may deviate from the requirements of subregulation 54(2) in the manner agreed by the KZN Department of Economic Development, Tourism & Environmental Affairs as appropriate for this application. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate.

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 inadequate.

#### 5. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments and respond to each comment of the public before this application is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations (regulation 57 in the EIA Regulations, 2010) and be attached as Appendix E to this report.

#### 6. PARTICIPATION BY DISTRICT, LOCAL AND TRADITIONAL AUTHORITIES

District, local and traditional authorities (where applicable) are all 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 this application and provided with an opportunity to comment.

Has any comment been received from the district municipality?

YES  NO

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

No comments have been received as yet. All comments from the Public Meeting, emails, post and fax will be consolidated into the Comments and Responses Report. The report will then be appended as Appendix E in the final BAR (Basic Assessment Report).

Has any comment been received from the local municipality?

YES  NO

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

A presentation done to the Municipality's Management Committee on the 11 November 2014. At the presentation the Municipality's Department of Development Planning and Human Settlement supported the project. Written comments will be sort from the municipality and will be included in the final BAR.

Has any comment been received from a traditional authority?

YES  NO

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

The site and/or the activity do not impact directly or indirectly on to the Traditional Authorities. Ezakheni is an urban township.

## 7. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the site or property, such as servitude holders and service providers, should be informed of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

YES  NO

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

This Draft BAR will be sent to stakeholders for comments. The Final BAR will have full comments from stakeholders. It will further address/respond to comments/issues/recommendations by authorities.

## SECTION E: IMPACT ASSESSMENT

The assessment of impacts must adhere to the requirements in the EIA Regulations, 2010, 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. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the main issues raised by interested and affected parties.

Issues and comments provided by interested and affected parties will be included in the final Basic Assessment Report.

Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached as Appendix E to this report):

Issues and comments provided by interested and affected parties will be included in the final Basic Assessment Report.

### 2. 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

#### 2.1. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN PHASE

##### a. Site alternatives

List the potential impacts associated with site alternatives that are likely to occur during the planning and design phase:

##### **Alternative S1 (preferred alternative)**

##### **Direct impacts:**

- Land use zoning is commercial
- Land use proposed is in line with IDP objectives and nodes
- Adequate provision of services and infrastructure.
- Needs and desirability confirmed the sustainability of the project.

##### **Indirect impacts:**

- Impact of the project on the future developments in Ezakheni
- Traffic management to be taken into account
- Access to services on site
- Compatibility of the operations to current uses and users.

##### **Cumulative impacts:**

- Traffic flow in Ezakheni
- Lighting pollution for residents.

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**Alternative S2 (if any): NONE**

**Direct impacts:**

None

**Indirect impacts:**

None

**Cumulative impacts:**

None

**No-go alternative (compulsory)**

**Direct impacts:**

- Loss of diversification of businesses in Ezakheni
- Inability to fulfill Local Economic Developments objectives of the Municipality.
- Failure to meet IDP objectives
- Failure to use land appropriately

**Indirect impacts:**

- Unsustainability of existing business.
- loss of employment
- lack of services in the township

**Cumulative impacts:**

None

Indicate mitigation measures to manage the potential impacts listed above:

**Alternative S1**

- Ensure the planning undertaken by engineers appointed takes cognisance of the responsibility to preserve the natural environment.
- Evaluate designs and provide recommendations to limit and reduce potential negative environmental, social and economic impacts associated with the proposed activities.
- Comply with municipal commercial zoning
- Meet LED objectives
- Ensure that project is compatible with IDP projects.

**Alternative S2**

The applicant has no other site to compare with, therefore there are no alternatives to mention and evaluate against

**b. Process, technology, layout or other alternatives**

List the impacts associated with any process, technology, layout or other alternatives that are likely to occur during the planning and design phase (please list impacts associated with each alternative separately):

**Alternative A1 (preferred alternative)**

**Direct impacts:**

- Loss of grass and vegetation during construction
- Increased stormwater
- Light pollution
- Potential soil pollution due to leaking tanks

**Indirect impacts:**

- Increased traffic

**Cumulative impacts:**

- Compatibility of the business to other neighbouring uses

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### Alternative A2 (if any)

#### Direct impacts:

- Use aboveground tank: pollution and fire hazards
- Access roads untarred will lead to dust generation
- New untested fuel station design will be difficult to implement.

#### Indirect impacts:

- Unrelated businesses in one premises will lead to conflicts.

#### Cumulative impacts:

- Poor designs lead to traffic
- Poor layout will lead to accidents on the property.

### No-go alternative (compulsory)

#### Direct impacts:

- Lack of revenue rates from businesses
- Lack of services to Ezakheni residents
- Lack of employment

#### Indirect impacts:

- Loss of socio-economic benefits.
- Loss of skilled people to work in town
- Loss of job opportunities

#### Cumulative impacts:

- Loss of development in Ezakheni
- Poor or limited usage of existing infrastructure

Indicate mitigation measures to manage the potential impacts listed above:

#### Alternative A1:

- Clear only vegetation on required land only.
- Direct stormwater into water retaining structures
- Use soft lights as approved by Total SA.
- iNStall tank leak detectors
- Ensure traffic management is per approved designs
- Fuel station is compatible with retail shop, workshop, and carwash
- Fuel station is not intrusive to residential areas.
- Use underground tanks as they have less risk for fire and install leak detectors as prescribed by Total SA.
- All roads to be tarred.
- Use TOTAL SA designs as they are proven winning designs.

#### Alternative A2:

- Use fire protection devices
- Avoid exposure to fires
- Use dust suppression at all times
- Maximise business synergies at all times
- 

## 2.2. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION PHASE

### a. Site alternatives

List the potential impacts associated with site alternatives that are likely to occur during the construction phase:

#### Alternative S1 (preferred site)

#### Direct impacts:

#### Soils:

- Soil erosion could potentially occur due to construction activities, where ground stripped of vegetation is exposed to rainfall with the resultant washing away of topsoil and/or sub-soils.
- Cut and fill embankments, if implemented, are also particularly vulnerable to soil erosion, if not subjected to

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the correct environmental management practices.

- The negative impact under these circumstances is considered to have a medium significance (local extent, medium intensity, long term duration and probable).

### **Traffic Congestion:**

- The construction phase is likely to generate additional traffic in terms of construction vehicles and heavy vehicles delivering materials to the site.
- The significance of this negative impact is considered to be very low (local extent, low intensity, short-term duration and definite).
- The road will need to be maintained /upgraded during the construction period.

### **Social Impact:**

- Crime increase

### **Safety:**

- Safety of construction workers could be compromised during construction activities.
- Safety of residence during construction

### **Waste:**

- There will be generation and disposal of domestic and hazardous waste.
- Also including the generation and disposal of sewage waste from temporal construction toilets.

### **Indirect impacts:**

Noise:

- Noise will be generated during construction due to hauling of construction vehicles and excavations which could cause disturbance to communities.

Pollution:

- There could be traffic disruption during construction period.

Hazardous Spillage:

- Possible spillage of hazardous materials onto surfaces during usage and storage of chemicals.

### **Cumulative impacts:**

- Increase level of noise and dust.
- Increase sediments run off into local catchments.
- Waste materials at site and landfills.

### **Alternative S2 (if any) NONE**

#### **Direct impacts:**

None

#### **Indirect impacts:**

None

#### **Cumulative impacts:**

None.

### **No-go alternative (compulsory)**

#### **Direct impacts:**

- Loss of employment opportunities during construction phase
- Loss of business opportunities for construction material suppliers and transportors

#### **Indirect impacts:**

- Loss of employment and business opportunities.

#### **Cumulative impacts:**

None

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Indicate mitigation measures to manage the potential impacts listed above:

<b>Alternative S1</b>	<b>Alternative S2</b>
<p><b>Soils:</b></p> <ul style="list-style-type: none"> <li>• Reuse topsoil to rehabilitate disturbed areas.</li> <li>• Minimise the clearance of vegetation to avoid exposure of soil.</li> <li>• The underground storage tanks must be designed and installed in accordance with the SABS Standards (South African Bureau of Standards, SABS 089-3-1999, Third Edition. Code of practise - The petroleum industry, Part 3: The installation of underground storage tanks, pumps/dispensers and pipework at service station and consumer installations). SANS standards adequately address various potential impacts via the implementation of required engineering measures</li> </ul> <p><b>Traffic congestion:</b></p> <ul style="list-style-type: none"> <li>• Traffic congestion and limitation of access along the access road.</li> <li>• The road will need to be maintained /upgraded during the construction period.</li> </ul> <p><b>Social Mitigations:</b></p> <ul style="list-style-type: none"> <li>• Employ guards to ensure safety of goods and workers</li> <li>• The development will result in job creation and provision of employment.</li> </ul> <p><b>Safety:</b></p> <ul style="list-style-type: none"> <li>• Ensure the appointment of a Safety Officer to continuously monitor the safety conditions during construction.</li> <li>• All construction staff must have the appropriate PPE.</li> <li>• The construction staff handling chemicals or hazardous materials must be trained in the use of the substances and the environmental, health and safety consequences of incidents.</li> <li>• Report and record any environmental, health and safety incidents to the responsible person.</li> <li>• Firearms or any other hunting weapons must be prohibited on site.</li> <li>• Current employees must be educated about the value of wild animals and the importance of their conservation.</li> <li>• Members of the public adjacent to the construction site should be notified of construction activities in order to limit unnecessary disturbance or interference;</li> <li>• Construction activities will be undertaken during daylight hours and not on Sundays;</li> <li>• Consult with local communities regarding the location of construction camps, access and hauling routes and other likely disturbance during and after construction.</li> </ul> <p><b>Waste:</b></p> <ul style="list-style-type: none"> <li>• Waste disposal bins will supplied at convenient intervals within the construction site.</li> <li>• General waste will be disposed of to an approved waste disposal site.</li> <li>• Waste will be temporally stored on site for less than 30 days, until removed to be disposed at a registered land fill.</li> <li>• An appropriate number of drums must be kept on site for contaminated soil due to spillages.</li> <li>• Adequate number of self-contained chemical toilets will be provided on site during construction phase.</li> <li>• A registered chemical waste company will be used for the removal of waste from the chemical toilets.</li> </ul>	<p>The applicant has no other site to compare with, therefore there are no alternatives to mention and evaluate against</p>



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## b. Process, technology, layout or other alternatives

List the impacts associated with process, technology, layout or other alternatives that are likely to occur during the construction phase (please list impacts associated with each alternative separately):

### Alternative A1 (preferred alternative)

#### **Direct impacts:**

##### **Soils:**

- Soil erosion could potentially occur due to construction activities, where ground stripped of vegetation is exposed to rainfall with the resultant washing away of topsoil and/or sub-soils.
- Cut and fill embankments, if implemented, are also particularly vulnerable to soil erosion, if not subjected to the correct environmental management practices.
- The negative impact under these circumstances is considered to have a medium significance (local extent, medium intensity, long term duration and probable).

##### **Traffic Congestion:**

- The construction phase is likely to generate additional traffic in terms of construction vehicles and heavy vehicles delivering materials to the site.
- The significance of this negative impact is considered to be very low (local extent, low intensity, short-term duration and definite).
- The road will need to be maintained /upgraded during the construction period.

##### **Social Impact:**

- Crime increase

##### **Safety:**

- Safety of construction workers could be compromised during construction activities.
- Safety of residence during construction

##### **Waste:**

- There will be generation and disposal of domestic and hazardous waste.
- Also including the generation and disposal of sewage waste from temporal construction toilets.

#### **Indirect impacts:**

##### **Noise:**

- Noise will be generated during construction due to hauling of construction vehicles and excavations which could cause disturbance to communities.

##### **Pollution:**

- There could be traffic disruption during construction period.

##### **Hazardous Spillage:**

- Possible spillage of hazardous materials onto surfaces during usage and storage of chemicals.

#### **Cumulative impacts:**

- Increase level of noise and dust.
- Increase sediments run off into local catchments.
- Waste materials at site and landfills.

### Alternative A2: CONSTRUCTION OF RESIDENCIAL HOUSES

#### **Direct impacts:**

##### **Soils:**

- Soil erosion could potentially occur due to construction activities, where ground stripped of vegetation is exposed to rainfall with the resultant washing away of topsoil and/or sub-soils.
- Cut and fill embankments, if implemented, are also particularly vulnerable to soil erosion, if not subjected to the correct environmental management practices.

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- The negative impact under these circumstances is considered to have a medium significance (local extent, medium intensity, long term duration and probable).

**Traffic Congestion:**

- The construction phase is likely to generate additional traffic in terms of construction vehicles and heavy vehicles delivering materials to the site.
- The road will need to be maintained /upgraded during the construction period.

**Social Impact:**

- Crime increase

**Safety:**

- Safety of construction workers could be compromised during construction activities.
- Safety of residence during construction

**Waste:**

- There will be generation and disposal of domestic and hazardous waste.
- Also including the generation and disposal of sewage waste from temporal construction toilets.

**Indirect impacts:**

**Noise:**

- Noise will be generated during construction due to hauling of construction vehicles and excavations which could cause disturbance to communities.

**Pollution:**

- There could be traffic disruption during construction period.

**Hazardous Spillage:**

- Possible spillage of hazardous materials onto surfaces during usage and storage of chemicals.

**Cumulative impacts:**

- Increase level of noise and dust.
- Increase sediments run off into local catchments.
- Waste materials at site and landfills.

**No-go alternative (compulsory)**

**Direct impacts:**

- Loss of employment opportunities during construction phase
- Loss of business opportunities for construction material suppliers and transportors

**Indirect impacts:**

- Loss of employment and business opportunities.

**Cumulative impacts:**

None

Indicate mitigation measures to manage the potential impacts listed above:

**Alternative A1:**

**Soil Erosion and pollution:**

- Reuse topsoil to rehabilitate disturbed areas.
- Minimise the clearance of vegetation to avoid exposure of soil.

**Traffic congestion:**

- Traffic congestion and limitation of access along

**Alternative A2:**

**Soil Erosion and pollution:**

- Reuse topsoil to rehabilitate disturbed areas.
- Minimise the clearance of vegetation to avoid exposure of soil.

**Traffic congestion:**

- Traffic congestion and limitation of access along

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<p>the access road.</p> <ul style="list-style-type: none"> <li>• The road will need to be maintained /upgraded during the construction period.</li> </ul> <p><b>Socio Economic:</b></p> <ul style="list-style-type: none"> <li>• The development will result in job creation and provision of employment.</li> <li>• The safety of the construction staff could be compromised unless adequate safety measures are implemented.</li> </ul> <p><b>Safety:</b></p> <ul style="list-style-type: none"> <li>• Ensure the appointment of a Safety Officer to continuously monitor the safety conditions during construction.</li> <li>• All construction staff must have the appropriate PPE.</li> <li>• The construction staff handling chemicals or hazardous materials must be trained in the use of the substances and the environmental, health and safety consequences of incidents.</li> <li>• Report and record any environmental, health and safety incidents to the responsible person.</li> <li>• Firearms or any other hunting weapons must be prohibited on site.</li> <li>• Members of the public adjacent to the construction site should be notified of construction activities in order to limit unnecessary disturbance or interference;</li> <li>• Construction activities will be undertaken during daylight hours and not on Sundays;</li> <li>• Consult with local communities regarding the location of construction camps, access and hauling routes and other likely disturbance during and after construction.</li> </ul> <p><b>Waste:</b></p> <ul style="list-style-type: none"> <li>• Waste disposal bins will be supplied at convenient intervals within the construction site.</li> <li>• General waste will be disposed of to an approved waste disposal site.</li> <li>• Waste will be temporally stored on site for less than 30 days, until removed to be disposed at a registered land fill.</li> <li>• An appropriate number of drums must be kept on site for contaminated soil due to spillages.</li> <li>• Adequate number of self-contained chemical toilets will be provided on site during construction phase.</li> <li>• A registered chemical waste company will be used for the removal of waste from the chemical toilets.</li> </ul>	<p>the access road.</p> <ul style="list-style-type: none"> <li>• The road will need to be maintained /upgraded during the construction period.</li> </ul> <p><b>Socio Economic:</b></p> <ul style="list-style-type: none"> <li>• The development will result in job creation and provision of employment.</li> <li>• The safety of the construction staff could be compromised unless adequate safety measures are implemented.</li> </ul> <p><b>Safety:</b></p> <ul style="list-style-type: none"> <li>• Ensure the appointment of a Safety Officer to continuously monitor the safety conditions during construction.</li> <li>• All construction staff must have the appropriate PPE.</li> <li>• The construction staff handling chemicals or hazardous materials must be trained in the use of the substances and the environmental, health and safety consequences of incidents.</li> <li>• Report and record any environmental, health and safety incidents to the responsible person.</li> <li>• Firearms or any other hunting weapons must be prohibited on site.</li> <li>• Members of the public adjacent to the construction site should be notified of construction activities in order to limit unnecessary disturbance or interference;</li> <li>• Construction activities will be undertaken during daylight hours and not on Sundays;</li> <li>• Consult with local communities regarding the location of construction camps, access and hauling routes and other likely disturbance during and after construction.</li> </ul> <p><b>Waste:</b></p> <ul style="list-style-type: none"> <li>• Waste disposal bins will be supplied at convenient intervals within the construction site.</li> <li>• General waste will be disposed of to an approved waste disposal site.</li> <li>• Waste will be temporally stored on site for less than 30 days, until removed to be disposed at a registered land fill.</li> <li>• An appropriate number of drums must be kept on site for contaminated soil due to spillages.</li> <li>• Adequate number of self-contained chemical toilets will be provided on site during construction phase.</li> <li>• A registered chemical waste company will be used for the removal of waste from the chemical toilets.</li> </ul>
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## 2.3. IMPACTS THAT MAY RESULT FROM THE OPERATIONAL PHASE

### a. Site alternatives

List the potential impacts associated with site alternatives that are likely to occur during the operational phase:

#### Alternative S1 (preferred alternative)

##### **Direct impacts:**

Groundwater contamination:

- In the absent of correct design standards during the installation of fuel storage tanks, pollution of groundwater might occur in the operating phase.
- Contamination of groundwater due to potential leaks from pipe fittings/valves and spillages which may occur from time to time, during the transfer petroleum products to the underground storage tanks, and to a lesser extent, during the filling of motor vehicles

Stormwater Impact:

- Increased stormwater runoff may arise due to increased coverage of paved surfaces

Economic Impact:

- The proposed development will provide employment opportunities to Ezakheni communities.

Soil Erosion:

- Erosion from inadequate vegetation cover.
- Maintenance activities may result in vegetation clearance.

##### **Indirect impacts:**

Economic Impact:

- The proposed Ezakheni AutoHub would be well situated as it is in close proximity with a Ezakheni Plaza, there would be a positive economic impact of medium significance as developers would consider investing to it.

##### **Cumulative impacts:**

Traffic Impact:

- The existing traffic volumes on the surrounding road network showed that there is generally no major congestion encountered on the road network surrounding the proposed site during existing peak hours. The road network with the study area operates at a good level of service.

#### Alternative S2 (if any): NONE

##### **Direct impacts:**

None

##### **Indirect impacts:**

None

##### **Cumulative impacts:**

None

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### **No-go alternative (compulsory)**

**Direct impacts:**

- The site remains unused.
- The site is zoned commercial not residential

**Indirect impacts:**

- None

**Cumulative impacts:**

- None

Indicate mitigation measures to manage the potential impacts listed above:

#### **Alternative S1**

- The fuel filling station must operate on a conservancy tank system and effluent removed regularly by vacuum tanker to an approved sewage treatment facility.
- Stormwater should be collected from the roofs and impervious surfaces and piped or channelled in surface drains to the point of discharge.
- The site should be graded to allow rapid surface runoff.

#### **Alternative S2**

The applicant has no other site to compare with, therefore there are no alternatives to mention and evaluate against

### **b. Process, technology, layout or other alternatives**

List the impacts associated with process, technology, layout or other alternatives that are likely to occur during the operational phase (please list impacts associated with each alternative separately):

#### **Alternative A1 (preferred alternative)**

**Direct impacts:**

- Traffic congestion
- Stormwater increased flows
- Light and visual pollution

**Indirect impacts:**

- Crime near and at the fuel station

**Cumulative impacts:**

- Increase in business activities

#### **Alternative A2; CONSTRUCTION OF RESIDENTIAL HOUSES**

**Direct impacts:**

- Oversupply of residential houses

**Indirect impacts:**

- Loss of employment opportunities and business opportunities

**Cumulative impacts:**

- Lack of development in Ezakheni

#### **No-go alternative (compulsory)**

**Direct impacts:**

- Loss of business and investment

**Indirect impacts:**

- Loss of development and services in Ezakheni

**Cumulative impacts:**

- Loss of development and services in Ezakheni

## Basic Assessment Report

Indicate mitigation measures to manage the potential impacts listed above:

<b>Alternative A1</b>	<b>Alternative A2</b>
<p><b>Soil Erosion and pollution:</b></p> <ul style="list-style-type: none"> <li>• Reuse topsoil to rehabilitate disturbed areas.</li> <li>• Minimise the clearance of vegetation to avoid exposure of soil.</li> </ul> <p><b>Traffic congestion:</b></p> <ul style="list-style-type: none"> <li>• Traffic congestion and limitation of access along the access road.</li> <li>• The road will need to be maintained /upgraded during the construction period.</li> </ul> <p><b>Socio Economic:</b></p> <ul style="list-style-type: none"> <li>• The development will result in job creation and provision of employment.</li> <li>• The safety of the construction staff could be compromised unless adequate safety measures are implemented.</li> </ul> <p><b>Safety:</b></p> <ul style="list-style-type: none"> <li>• Ensure the appointment of a Safety Officer to continuously monitor the safety conditions during construction.</li> <li>• All construction staff must have the appropriate PPE.</li> <li>• The construction staff handling chemicals or hazardous materials must be trained in the use of the substances and the environmental, health and safety consequences of incidents.</li> <li>• Report and record any environmental, health and safety incidents to the responsible person.</li> <li>• Firearms or any other hunting weapons must be prohibited on site.</li> <li>• Members of the public adjacent to the construction site should be notified of construction activities in order to limit unnecessary disturbance or interference;</li> <li>• Construction activities will be undertaken during daylight hours and not on Sundays;</li> <li>• Consult with local communities regarding the location of construction camps, access and hauling routes and other likely disturbance during and after construction.</li> </ul> <p><b>Waste:</b></p> <ul style="list-style-type: none"> <li>• Waste disposal bins will be supplied at convenient intervals within the construction site.</li> <li>• General waste will be disposed of to an approved waste disposal site.</li> <li>• Waste will be temporally stored on site for less than 30 days, until removed to be disposed at a registered land fill.</li> <li>• An appropriate number of drums must be kept on site for contaminated soil due to spillages.</li> <li>• Adequate number of self-contained chemical toilets will be provided on site during construction</li> </ul>	<p><b>Soil Erosion and pollution:</b></p> <ul style="list-style-type: none"> <li>• Reuse topsoil to rehabilitate disturbed areas.</li> <li>• Minimise the clearance of vegetation to avoid exposure of soil.</li> </ul> <p><b>Traffic congestion:</b></p> <ul style="list-style-type: none"> <li>• Traffic congestion and limitation of access along the access road.</li> <li>• The road will need to be maintained /upgraded during the construction period.</li> </ul> <p><b>Socio Economic:</b></p> <ul style="list-style-type: none"> <li>• The development will result in job creation and provision of employment.</li> <li>• The safety of the construction staff could be compromised unless adequate safety measures are implemented.</li> </ul> <p><b>Safety:</b></p> <ul style="list-style-type: none"> <li>• Ensure the appointment of a Safety Officer to continuously monitor the safety conditions during construction.</li> <li>• All construction staff must have the appropriate PPE.</li> <li>• The construction staff handling chemicals or hazardous materials must be trained in the use of the substances and the environmental, health and safety consequences of incidents.</li> <li>• Report and record any environmental, health and safety incidents to the responsible person.</li> <li>• Firearms or any other hunting weapons must be prohibited on site.</li> <li>• Members of the public adjacent to the construction site should be notified of construction activities in order to limit unnecessary disturbance or interference;</li> <li>• Construction activities will be undertaken during daylight hours and not on Sundays;</li> <li>• Consult with local communities regarding the location of construction camps, access and hauling routes and other likely disturbance during and after construction.</li> </ul> <p><b>Waste:</b></p> <ul style="list-style-type: none"> <li>• Waste disposal bins will be supplied at convenient intervals within the construction site.</li> <li>• General waste will be disposed of to an approved waste disposal site.</li> <li>• Waste will be temporally stored on site for less than 30 days, until removed to be disposed at a registered land fill.</li> <li>• An appropriate number of drums must be kept on site for contaminated soil due to spillages.</li> <li>• Adequate number of self-contained chemical toilets will be provided on site during</li> </ul>

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<p>phase.</p> <ul style="list-style-type: none"><li>• A registered chemical waste company will be used for the removal of waste from the chemical toilets.</li></ul>	<p>construction phase.</p> <ul style="list-style-type: none"><li>• A registered chemical waste company will be used for the removal of waste from the chemical toilets.</li></ul>
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### 2.4. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING OR CLOSURE PHASE

#### a. Site alternatives

List the potential impacts associated with site alternatives that are likely to occur during the decommissioning or closure phase:

##### Alternative S1 (preferred alternative)

###### **Direct impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

###### **Indirect impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

###### **Cumulative impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

##### Alternative S2

###### **Direct impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

###### **Indirect impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

###### **Cumulative impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

##### No-go alternative (compulsory)

###### **Direct impacts:**

There will be no decommissioning on this option

###### **Indirect impacts:**

There will be no decommissioning on this option

###### **Cumulative impacts:**

There will be no decommissioning on this option

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Indicate mitigation measures to manage the potential impacts listed above:

## Alternative S1

As mentioned in the impacts phase decommissioning and/or closure of the petroleum filling station and/or the underground for any reason, the Department of Water Affairs must be consulted for guidance. The following conditions are generally required by the Department of Water Affairs:

### **Tank Closure**

- A soil and groundwater contamination investigation must be conducted to determine the presence, nature and extent of any contamination. This will provide information as to the current status of the site in terms of the level of contamination, which will ultimately influence the level or type of remediation that needs to be undertaken, if any.
- The soil and groundwater must be analysed for Benzene, Toluene, Ethyl benzene and Xylene (BTEX's) and for lead based fuel, if this was previously stored in the tank.
- Prior to the tanks and associated piping being closed all residue product must be carefully removed for recycling or safe disposal. Safe disposal certificates must be obtained and kept on record as proof.
- A solid inert material must be used for filling the underground storage tank.
- Only clean soil must be used for backfilling purposes.

### **Stormwater & Wastewater Management**

- Water used for flushing the pipes and tanks must be disposed of safely if it is not suitable for disposal via the sewer system. The relevant department at the Local Municipality must be contacted with regard to the discharge of water containing waste to the sewer system.
- The water containing waste generated must pass through an oil/water separator prior to discharge to the municipal sewer system.
- It must be ensured that any water containing waste does not contaminate clean stormwater.

### **Waste Management**

- All solid waste generated from the removal of the tanks must be handled according to the precautionary principle. This implies that waste (including soils, metals and other material) should be treated as hazardous unless proven otherwise.
- All contaminated soil and other material must be disposed of at a permitted landfill site that is authorized to accept such wastes.
- Waste must not be allowed to be stockpiled on site for extensive periods but must be disposed of as generated.
- Any waste material temporarily stockpiled must be adequately protected from the environment to prevent leaching of potentially harmful contaminants.

### **Spillages**

- Any spillages during the decommissioning of the tanks must be reported to this Department and other relevant authorities.

### **Remediation**

- Clean-up or remediation of any contamination must be done in consultation with this Department.

### **General**

- A proper sampling protocol must be followed.
- In terms of Section 19 of the National Water Act, 1998 (Act 36 of 1998) and with regard to contamination and the remediation thereof, the owner

## Alternative S2

- The applicant has no other site to consider as options.



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of land, a person in control of land or a person who occupies or uses the land on which pollution has occurred, is not absolved from responsibility of any further and/or associated pollution arising from his property. Should there be a risk to downstream users or the environment from this site in the future, the Department would request that further remedial measures be instituted at this site.	
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### **b. Process, technology, layout or other alternatives**

List the impacts associated with process, technology, layout or other alternatives that are likely to occur during the decommissioning or closure phase (please list impacts associated with each alternative separately):

#### **Alternative A1 (preferred alternative)**

##### **Direct impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

##### **Indirect impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

##### **Cumulative impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

#### **Alternative A2**

##### **Direct impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

##### **Indirect impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

##### **Cumulative impacts:**

While decommissioning is not anticipated, should this be required the relevant environmental laws prevailing at that point in time will be adhered to in terms of decommissioning requirements. Decommissioning will take place in consultation with and in receipt of confirmation from the relevant environmental authority.

#### **No-go alternative (compulsory): NO DECOMMISSIONING WILL BE REQUIRED**

##### **Direct impacts:**

None

##### **Indirect impacts:**

None

##### **Cumulative impacts:**

None

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Indicate mitigation measures to manage the potential impacts listed above:

<b>Alternative A1</b>	<b>Alternative A2</b>
Decommissioning is not expected in over long time	Decommissioning is not expected in over long time

### 2.5. PROPOSED MONITORING AND AUDITING

For each phase of the project and for each alternative, please indicate how identified impacts and mitigation will be monitored and/or audited.

<b>Alternative S1 (preferred site)</b>	<b>Alternative S2</b>
<ul style="list-style-type: none"> <li>• Before the construction phase commence an Environmental Control Officer must be appointed for the full duration of the construction and operational phase.</li> <li>• The EMPr shall be developed and be complied with.</li> <li>• The ECO will be responsible for perform all task assigned to the ECO in the EMPr, keep record of all the activities on site, problems identified and transgressions noted, assist in ensuring environmental implementation of appropriate environmental authorisation and approved EMPr, and Providing guidance/advice that ensures implementation of appropriate environmental management measures and adherence with environmental legislation/regulations.</li> <li>• The ECO will be required to conduct monthly environmental audit and submits reports every month end.</li> <li>• The ECO must quarterly monitor surface and ground water quality at points that will be established in consultation with the water affairs.</li> </ul>	<ul style="list-style-type: none"> <li>• Before the construction phase commence an Environmental Control Officer must be appointed for the full duration of the construction and operational phase.</li> <li>• The EMPr shall be developed and be complied with.</li> <li>• The ECO will be responsible for perform all task assigned to the ECO in the EMPr, keep record of all the activities on site, problems identified and transgressions noted, assist in ensuring environmental implementation of appropriate environmental authorisation and approved EMPr, and Providing guidance/advice that ensures implementation of appropriate environmental management measures and adherence with environmental legislation/regulations.</li> <li>• The ECO will be required to conduct monthly environmental audit and submits reports every month end.</li> <li>• The ECO must quarterly monitor surface and ground water quality at points that will be established in consultation with the water affairs.</li> </ul>

<b>Alternative A1 (preferred alternative)</b>	<b>Alternative A2</b>
<ul style="list-style-type: none"> <li>• Before the construction phase commence an Environmental Control Officer must be appointed for the full duration of the construction and operational phase.</li> <li>• The EMPr shall be developed and be complied with.</li> <li>• The ECO will be responsible for perform all task assigned to the ECO in the EMPr, keep record of all the activities on site, problems identified and transgressions noted, assist in ensuring environmental implementation of appropriate environmental authorisation and approved EMPr, and Providing guidance/advice that ensures implementation of appropriate environmental management measures and adherence with environmental legislation/regulations.</li> <li>• The ECO will be required to conduct monthly environmental audit and submits reports every month end.</li> <li>• The ECO must quarterly monitor surface and ground water quality at points that will be established in consultation with the water affairs.</li> </ul>	<ul style="list-style-type: none"> <li>• Before the construction phase commence an Environmental Control Officer must be appointed for the full duration of the construction and operational phase.</li> <li>• The EMPr shall be developed and be complied with.</li> <li>• The ECO will be responsible for perform all task assigned to the ECO in the EMPr, keep record of all the activities on site, problems identified and transgressions noted, assist in ensuring environmental implementation of appropriate environmental authorisation and approved EMPr, and Providing guidance/advice that ensures implementation of appropriate environmental management measures and adherence with environmental legislation/regulations.</li> <li>• The ECO will be required to conduct monthly environmental audit and submits reports every month end.</li> <li>• The ECO must quarterly monitor surface and ground water quality at points that will be established in consultation with the water affairs.</li> </ul>

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### 3. 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 S1 (preferred site)**

Other than the negative impacts mentioned in the assessment, the proposed Ezakheni AutoHub will have no long-term impact of high or medium significance towards the environment, if the mitigation measures and management of the impacts are undertaken.

There are no site alternatives for the project since the applicant has only this property to develop. The site was specifically chosen due its proximity to Ezakheni Plaza and for addressing specific needs in the area such as to help reduce the traffic congestion surrounding the existing filling station at Ezakheni A, service drives that frequent the Ezakheni Plaza and Ezakheni communities at large. Other business ventures were considered such as business park but have not been assessed further as part of this application as the proposed fuel station. Most of the impacts that the development might have will occur during the construction phase and limited impacts during operation phase, therefore the proposed mitigation measures for the construction and operation phase will ensure that potential impacts can be mitigated to acceptable levels.

#### **Alternative S2**

The applicant has only this property in Ezakheni. The site is already zoned Commercial and the development is in line with Municipal Zoning and IDP objectives

#### **Alternative A1 (preferred alternative)**

The project offers the following advantages:

- Employment opportunities due to construction and operation of the project
- Improved national GDP and local economy
- Services to the Ezakheni community
- Saving of travel costs to access fuel and workshop and carwash services with increased reliability.
- Sustainability of other associated businesses in Ezakheni
- Diversification of businesses in Ezakheni
- Diversification of rates collection base for the Municipality
- Improvement of social cohesion to the Ezakheni and surrounding areas.
- Attraction of investments into the Municipality and specifically Ezakheni

#### **Alternative A2**

- The property was acquired from the municipality zoned as Commercial Zoning not Residential Zoning.
- There are residential plots in and around D section. These are adequate to deal with residential demands.
- While residential units are required, it is equally important that the services offered by business meet clients requirements to add value to the community as people.
- A correct mix of commercial, residential, institutional, retail, and other services is required in any community.
- Therefore, the residential use is not an ideal or required use for this property.

#### **No-go alternative (compulsory)**

There will be no changes to the natural environment should the development not go ahead. There is very little vegetation and environmental value on the property as it has sparsely populated grass and thornbushes. There will be no real value in servicing an already disturbed plots which are earmarked for development.

However, will impact economic development, there will be a loss of sustainable employment opportunities, continuity of congestion to the existing filling station at Ezakheni A section and high demand of fuel retail due to the new Ezakheni Plaza. Also potential impacts to groundwater and surface water resources associated with the proposed development will be removed.

## SECTION F. RECOMMENDATION OF EAP

Is the information contained in this report and the documentation attached hereto in the view of the EAPr sufficient to make a decision in respect of this report?

YES	NO

If "NO", please contact the KZN Department of Economic Development, Tourism & Environmental Affairs regarding the further requirements for your report.

If "YES", please attach the draft EMPr as Appendix F to this report and 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:

### GENERAL

- a) An EMPr for site establishment, construction and operational phases must be finalised and approved by DEDTEA prior to the contractor moving onto site.
- b) The Environmental Control Officer (ECO) must be appointed prior to site establishment and construct to prevent contravention of the approved EMPr and Environmental Authorisation.
- c) The working areas must be clearly demarcated by the ECO prior to commencement of the installation and no access is to be allowed to sensitive areas.
- d) The ECO is to conduct monthly audits and prepare monthly audit reports. Copies of these reports are to be supplied by the ECO to the developer and DEDTEA.
- e) The ECO's duties extend to the end of the construction phase.

### DESIGN PHASE

#### Engineering Design:

- A stormwater management plan must be prepared once the engineer's design of the site is finalised.
- Engineering design needs to accommodate the spill containment slabs to assist in the containment accidental spillages.
- A stormwater management plan must be prepared once the engineering design of the site has been finalised.

### CONSTRUCTION PHASE

#### Noise Pollution:

- During the construction phase, maintain machinery regularly, as per the manufacturer's instructions
- During the construction phase, limit working hours from 07:00 to 17:00 on weekdays, 07:00 to 13:00 on Saturday and no work must be conducted on Sundays unless for emergency purposes.

#### Air Pollution:

- During dry/windy periods water sprays precautions must be undertaken to the construction access road.
- Construction phase stockpiles which have the potential of generating dust must be covered with plastic sheeting.
- Maintain construction vehicles and machinery to control exhaust emissions.

#### Water Pollution:

- Construction activities must remain within the footprint of the development.
- Construction machinery must be maintained by a suitably qualified mechanic, at an appropriately lined site, during working hours, so that diesel and/or oil leaks are avoided.
- Prevent run-off by constructing diversion berms and/or placing straw bales on denuded areas.

#### Erosion measures:

- Should erosion become a problem during the construction phase then diversion berms and drains shall be constructed to divert run-off away from exposed areas.
- During the construction phase, bales can be used as filters across run-off pathways.

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### **Accidental spillages:**

- Spills shall be cleared up immediately. The contaminated soils and the spilled material shall be taken to the nearest registered landfill site capable of receiving such spills.
- A register of all incidents shall be kept on site showing measures taken to clear up the spillages.

### **Heritage Issues:**

- During construction, if heritage findings are made (graves, archaeological objects, etc.), contact AMAFA and stop the works immediately.

### **Health & Safety:**

- Traffic signage shall be erected to advise people of machinery driving in the area.
- Pollution that could be detrimental to humans, flora and fauna shall be prevented as much as possible.
- Construction employees must be restricted to the development area; they must be warned not to trespass on the neighbouring properties.

### **Waste Management:**

- All solid waste shall be disposed of regularly at an approved registered municipal landfill site.
- Copies of the waybills shall be kept for proof of correct disposal, where possible.
- Should accidental spillages occur, the cleaned up material and the contaminated soil shall be taken to a hazardous registered landfill site.

### **Construction Site:**

- Construction employees must be encouraged to keep within the proposed development site, and not trespass on private property.

## **OPERATIONAL PHASE**

### **Water pollution**

- An operational spill management plan must be compiled by a suitably qualified specialist and implemented.
- Accidental spillages in the filler area and the forecourt are to be contained by allowing entering the drain at the edge of the spill containment slabs, diverting the spillages to the separator located at a low point on the site.
- A certified contractor must service the separator by removing the spilt product.

### **Waste Management**

- All general solid waste generated at the petroleum filling station during the operational phase must feed into the municipal waste stream.

### **Stormwater**

- A stormwater management system must be implemented and maintained throughout the operational phase of the proposed development.

### **Health and Safety**

- All relevant health and safety requirements under the Occupational Health and Safety Act, as amended (Act 85 of 1993) must be complied with in the operational phase of the development.

### **Monitoring and Reporting**

- Routine monitoring, sampling and analysis of the early warning system should be carried out.
- Quarterly monitoring and bi-annual sampling is recommended.
- Records of monitoring must be kept and made available to the DEDTEA on request.
- Monthly stock reconciliations must be taken and recorded. These records must be made available to the Department of Water Affairs on request.
- The leak detectors must be regularly tested and records kept.
- All machinery must be maintained in good working order as to prevent soil or water pollution from oil, fuel or other leaks.

## SECTION G: APPENDIXES

The following appendixes must be attached as appropriate:

Appendix A: Site plan(s)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports

Appendix E: Comments and responses report

Appendix F: Draft Environmental Management Programme (EMPr)

Appendix G: Other information