

DRAFT BASIC ASSESSMENT REPORT  
TRUNK ROAD 25/MAIN ROAD 25

**WESTERN CAPE DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND  
DEVELOPMENT PLANNING**

**Basic Assessment Report in terms of the National Environmental  
Management Act, 1998 (Act No. 107 of 1998), as amended, and the  
Environmental Impact Assessment Regulations, 2006**

**JULY 2006**



**Kindly note that:**

1. This **Basic Assessment Report** is the standard report required by DEA&DP in terms of the EIA Regulations, 2006 and must be completed for all Basic Assessment applications and submitted together with the application form.
2. This report is current as of 1 July 2006. It is the responsibility of the Applicant / EAP to ascertain whether subsequent versions of the report have been published or produced by the competent authority.
3. The required information must be typed within the spaces provided in the report. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. It is in the form of a table that can extend itself as each space is filled with typing.
4. Incomplete reports may be rejected or returned to the applicant for amendment.
5. The use of "not applicable" in the report must be done with circumspection. Where it is used in respect of material information that is required by the competent authority for assessing the application, this may result in the rejection of the report 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.
8. Unless protected by law all information contained in, and attached to this report, will become public information on receipt by the competent authority. Upon request, any interested and affected party should be provided with the information contained in and attached to this report. During any stage of the application process, the information contained in and attached to it must be provided by the applicant / EAP.
9. This report must be submitted to the Department at the postal address given below or by delivery thereof to the Registry Office of the Department. Should the report and attached information not be submitted to the addresses given below it will be rejected.

**DEPARTMENTAL DETAILS**

<b>CAPE TOWN OFFICE REGION A (Breede River/ Winelands, City of Cape Town: Tygerberg and Oostenberg Administrations)</b>	<b>CAPE TOWN OFFICE REGION B (West Coast, Overberg, City of Cape Town: Helderberg, South Peninsula, Cape Town and Blaauwberg Administrations)</b>	<b>GEORGE OFFICE (Eden and Central Karoo)</b>
Department of Environmental Affairs and Development Planning Attention: Directorate: Integrated Environmental Management (Region A2) Private Bag X 9086 Cape Town, 8000  Registry Office 1 <sup>st</sup> Floor Utilitas Building 1 Dorp Street, Cape Town  Queries should be directed to the Directorate: Integrated Environmental Management (Region A2) at: Tel: (021) 483-4793 Fax (021) 483-3633	Department of Environmental Affairs and Development Planning Attention: Directorate: Integrated Environmental Management (Region B) Private Bag X 9086 Cape Town, 8000  Registry Office 1 <sup>st</sup> Floor Utilitas Building 1 Dorp Street, Cape Town  Queries should be directed to the Directorate: Integrated Environmental Management (Region B) at: Tel: (021) 483-4094 Fax (021) 483-4372	Department of Environmental Affairs and Development Planning Attention: Directorate: Integrated Environmental Management (Region A1) Private Bag X 6509 George, 6530  Registry Office 4 <sup>th</sup> Floor, York Park Building 93 York Street George  Queries should be directed to the Directorate: Integrated Environmental Management (Region A1) at: Tel: (044) 874-2160 Fax (021) 874-2423

View website the Department's website on <http://www.westerncape.gov.za/eadp> for the latest version of the documents

## SECTION A: ACTIVITY INFORMATION

### 1. ACTIVITY DESCRIPTION

(a) Is the project a new development or an upgrade of an existing development?	<b>YES UPGRADE</b>	NO
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(b) Clearly describe the activity and associated infrastructure for which you are applying.

The Western Cape Provincial Administration proposes the upgrade of the Trunk Road 25 / Main Road 25 (km 39.84 to km 43.00) east of Malmesbury, in the Swartland Municipal area. The proposed upgrade will be approximately 4 km in length and is 12.6 metres wide.

The road surface is currently tarred and it is proposed to be upgraded and resurfaced. It is also proposed to construct additional climbing lanes for a section of road. This will take place along the existing horizontal alignment with minor alterations and within the existing 30 metre road reserve.

Though the tarring of the road does not per se trigger any activities according to Regulations 386 and 387 of the National Environmental Management Act (NEMA), Act No 107 of 1998, the *construction of a road wider than 4 metres or that has a road reserve wider than 6 metres* does.

A limited number of new stormwater pipes are proposed to provide cross-drainage of stormwater. These pipelines will be located on the existing alignment.

It is also proposed to replace and space all existing street lamps along the alignment within the urban area.

In addition, the existing bridge crossing the Riebeeck River will be upgraded and widened and therefore triggers activity 1(m) "*construction of facilities or infrastructure ... in the one in ten year floodline of a river or stream*" and activity 4 "*the dredging, excavation, infilling, removal or moving of soil, sand or rock exceeding 5 cubic metres from a river*" of Regulation 386. This activity will require a water use license application in terms of Section 21 (a) and (i) of the National Water Act (NWA), Act No 25 of 1998.

Also activity 12 "*the transformation or removal of indigenous vegetation of 3 hectares or more*" of Regulation 386 must be taken into consideration in this application.

The activity will not make use of any borrow pits and does not require environmental authorisation or a permit from the Department of Minerals and Energy (DME).

(c) Please provide details of all components of the proposed project and attach diagrams (e.g. architectural drawings or perspectives, engineering drawings, process flow charts etc.).

Buildings	YES	<b>NO</b>
Provide brief description:		
No permanent or temporary buildings will be constructed.		
Infrastructure (e.g. roads, power and water supply/ storage)	<b>YES</b>	NO
Provide brief description:		
As described above, the proposed activity is the upgrade of the TR25/MR25 within the existing 30 m road reserve, km 39.84 to km 43.00.		
Associated infrastructure will include street lamp within the section of the route located within the urban area.		
Processing activities (e.g. manufacturing, storage, distribution)	YES	<b>NO</b>
Provide brief description:		
No processing activities will take place.		

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Storage facilities for raw materials and products (e.g. volume and substances to be stored)		
Provide brief description	YES	NO
<p>Small volumes of oil and diesel will be stored at the construction camp during the construction phase. This aspect will be addressed and managed in the Construction Environmental Management Programme (EMP).</p>		
Storage and treatment facilities for solid waste and effluent generated by the project		
Provide brief description	YES	NO
<p>Limited quantities of solid waste (construction rubble and litter) and effluent (site ablution facilities in the form of ablution facilities) be generated during the construction phase will be managed in terms of the Construction EMP.</p>		
Other activities (e.g. water abstraction activities, crop planting activities)		
Provide brief description	YES	NO
<p>The proposed upgrade includes the widening and strengthening of the bridge crossing the Riebeek River.</p> <p>This activity requires a water use license application in terms of the National Water Act, Act No 25 of 1998.</p>		

**2. ACTIVITY NEED AND DESIRABILITY**

(a) Describe the need and desirability of the activity:

<p>Due to the current condition of the TR25/MR25 and the extensive use of the route for agricultural activities, the road is considered to be unsafe and overloaded. The proposed upgrade will increase safety, increase the movement of traffic and allow for motorists to pass loaded tractors and other heavy vehicles.</p> <p>The proposed upgrade will also provide job opportunities for the local community in the area and surrounding landowners and road users welcomes the upgrade, as they comment that the upgrade is long overdue.</p> <p>The TR25/M25 is frequently used by motorists travelling to and from Paarl, Riebeek Kasteel, Riebeek West and Moorreesburg. The road is also extensively used by farmers for agricultural activities such as grapes and wheat production, as well as by PPC Limited for the transportation of cement.</p> <p>The only alternative of the No-Go Option (not upgrading) is not feasible, as the existing conditions will deteriorate and negatively impact on financial expenditure due to continuous maintenance on the road. The existing road surface has various potholes and uneven areas causing damage to all vehicles.</p>
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(b) Indicate the benefits that the activity will have for society in general and also indicate the benefits that the activity will have for the local communities where the activity will be located:

<p>The proposed upgrade of the TR 25/MR 25 will be beneficial to all road users, such as cyclists, motorists, farmers and truck drivers, as the current conditions is constantly deteriorating and requires constant maintenance. The current condition is unsafe and makes it difficult for both motorists and truck drivers to use the road.</p>
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**3. ALTERNATIVES**

Describe alternatives that are considered in this application.

**Please Note:**

1. This report only provides space for 3 alternatives. The required information must however be provided for all alternatives being considered. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished. The determination of whether the site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. The no-go option must in all cases be included in the assessment phase as the baseline against which the impacts of all alternatives are assessed.
2. 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.
3. Consult the Department's Guideline on Alternatives prior to completing this section.

**3(a) Site alternatives:**

Please indicate the number of site alternatives assessed

**Note: Assessment of alternatives has been screened out of the assessment as they are not viable. The proposed activity will take place within a registered road reserve.**

Describe site alternative 1 (S1) (**preferred or only site alternative**), for the activity described above, or for any other activity alternative:

The proposed upgrade will be approximately 4 km in length and is up to 12.6 m wide, within the existing 30m road reserve. Upgrading and resurfacing will start at the Riebeek-Kasteel turn-off (km 39.84) on the Trunk Road 25/Main Road 25 and end at the Rainier Street – Piet Retief Street intersection (43.00). Widening of the road surface and the additional of a climbing lane will take place outside the urban area as indicated on Figure 3. C in **Appendix B**.

The proposed activities will also include the construction of stormwater channels, street lamps and widening of the crossing the Riebeek River.

The existing road surface will be demolished and reused in the construction of the new road surface. Stockpiling and possible spoil sites needs to be identified and will be provided with the final Basic Assessment Report.

Describe site alternative 2 (S2), if any, for the activity described above, or for any other activity alternative:

**No-Go Option:**

The No-Go Option was considered, but due to the current condition and frequent use of the TR 25/MR25 it will not be feasible. The existing road surface has various potholes and is extremely uneven. The addition of climbing lanes will allow motorists to pass slow moving trucks with in return will relieve congestion. The proposed upgrade will also provide job opportunities to people of the community, not only benefiting road users and surrounding farmers.

Describe site alternative 3 (S3), if any, for the activity described above, or for any other activity alternative:

Not Applicable

**3(b) Activity alternatives:**

**Note: Alternative localities for possible stockpiling and spoil sites will be determined and provided in the final Basic Assessment Process.**

Describe activity alternative 1 (A1), if any, for any or all of the site alternatives as appropriate:

Information will be provided when available.

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Describe activity alternative 2 (A2), if any, for any or all of the site alternatives as appropriate:

Describe activity alternative 3 (A3), if any, for any or all of the site alternatives as appropriate:

**3(c) Other alternatives (e.g. layout, technological, timing, process etc):**

Describe the alternative
Not Applicable

### 4. ACTIVITY LOCATION

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 must be in degrees, minutes and seconds. The minutes should be given to at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

Alternative:	Latitude (S):			Longitude (E):		
Alternative S1 (preferred or only site alternative)	°	′	″	°	′	″
Alternative S2 (if any)	°	′	″	°	′	″
Alternative S3 (if any)	°	′	″	°	′	″

or, for linear activities:

Alternative:	Latitude (S):			Longitude (E):		
Alternative S1 (preferred or only route alternative)	Please refer to the table below for the coordinates, 100m intervals					
<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>	°	′	″	°	′	″
	°	′	″	°	′	″
	°	′	″	°	′	″

Please refer to Figure 2, 2 a-d

ID	Y	X	Latitude (S)	Longitude (E)
*1	24957.96800	3704108.01700	-33.46279313880	18.73152624280
2	24877.57275	3704161.42087	-33.46327649780	18.73238956960
3	24783.29434	3704194.43521	-33.46357634010	18.73340281080
4	24689.70823	3704229.22113	-33.46389213080	18.73440856310
5	24590.33146	3704237.65060	-33.46397041650	18.73547733530
6	24490.34050	3704238.96065	-33.46398451820	18.73655291060
7	24390.84937	3704229.80487	-33.46390423940	18.73762339380
8	24294.73524	3704203.39104	-33.46366827610	18.73865801540
9	24206.21353	3704156.94326	-33.46325150640	18.73961149980
10	24118.37618	3704109.14578	-33.46282254500	18.74055764970
11	24030.53882	3704061.34830	-33.46239357640	18.74150379040
12	23942.70147	3704013.55082	-33.46196460050	18.74244992180
13	23855.37129	3703964.85801	-33.46152753360	18.74339061200
14	23773.24132	3703907.92671	-33.46101606580	18.74427557370
15	23698.54928	3703841.53662	-33.46041914660	18.74508076730
16	23632.37814	3703766.65025	-33.45974543160	18.74579451770
17	23575.68729	3703684.35328	-33.45900468970	18.74640647700
18	23529.29873	3703595.83886	-33.45820766180	18.74690777330
19	23493.88507	3703502.39025	-33.45736590450	18.74729114030
20	23468.80024	3703405.61612	-33.45649393680	18.74756348810

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21	23445.68326	3703308.32477	-33.45561726210	18.74781467760
22	23422.41476	3703211.07059	-33.45474092500	18.74806749070
23	23392.90586	3703115.58160	-33.45388063860	18.74838737350
24	23353.14819	3703023.87974	-33.45305471930	18.74881738460
25	23303.51000	3702937.12646	-33.45227362990	18.74935353050
26	23244.68457	3702856.32606	-33.45154640850	18.74998832660
27	23177.39255	3702782.43142	-33.45088162950	18.75071399610
28	23102.43600	3702716.32302	-33.45028721230	18.75152188950
29	23020.70776	3702658.78911	-33.44977024300	18.75240238390
30	22933.13997	3702610.60257	-33.44933766860	18.75334543530
31	22840.90852	3702572.06808	-33.44899220960	18.75433839080
32	22747.26208	3702536.99183	-33.44867795210	18.75534646950
33	22653.61563	3702501.91557	-33.44836368640	18.75635454100
34	22559.96919	3702466.83932	-33.44804941240	18.75736260530
35	22466.32275	3702431.76306	-33.44773513020	18.75837066230
36	22372.60731	3702396.87526	-33.44742254030	18.75937944940
37	22276.52540	3702369.41618	-33.44717696890	18.76041349670
38	22177.74031	3702354.32288	-33.44704293520	18.76147630580
39	22077.83975	3702351.89244	-33.44702308430	18.76255079730
40	21978.15060	3702359.61079	-33.44709472180	18.76362276660
41	21878.53400	3702368.35910	-33.44717563460	18.76469393240
42	21855.07800	3702370.41900	-33.44719468520	18.76494615230

\* Start point at Rainier Street

Alternative S2 (if any) • Starting point of the activity • Middle point of the activity • End point of the activity	<b>No-Go Option</b>					
	o	e	"	o	e	"
	o	e	"	o	e	"
	o	e	"	o	e	"
Alternative S3 (if any) • Starting point of the activity • Middle point of the activity • End point of the activity	<b>Not Applicable</b>					
	o	e	"	o	e	"
	o	e	"	o	e	"
	o	e	"	o	e	"

**Please Note:** For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 100 meters along the route for each alternative.

## 5. PHYSICAL SIZE OF THE ACTIVITY

Indicate the physical size of the preferred activity as well as alternative activities and its associated infrastructure (footprints):

Alternative:	Size of the activity:
Alternative A1 (preferred activity alternative)	m <sup>2</sup>
Alternative A2 (if any)	m <sup>2</sup>
Alternative A3 (if any)	m <sup>2</sup>

or, for linear activities:

Alternative:	Length of the activity:
Alternative A1 (preferred activity alternative)	4900 m
Alternative A2 (if any) <b>No-Go Option</b>	4900 m
Alternative A3 (if any)	N/A m

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

Alternative:	Size of the site/servitude:
Alternative A1 (preferred activity alternative)	147 000 m <sup>2</sup>
Alternative A2 (if any) <b>No-Go Option</b>	147 000 m <sup>2</sup>
Alternative A3 (if any)	N/A m <sup>2</sup>

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**Associated Infrastructure:**

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

**Note: Possible sites for stockpiling and spoil are in the process of being finalised.**

Alternative:	Size of the site/servitude:
Alternative A1 (preferred activity alternative)	m <sup>2</sup>
Alternative A2 (if any)	m <sup>2</sup>
Alternative A3 (if any)	m <sup>2</sup>

**6. SITE ACCESS**

Is there an existing access road?	<b>YES</b>	NO
If NO, what is the distance over which a new access road will be built?	N/A m	

Describe the type of access road planned:

The proposed activity is for the upgrade of a road and required access to the construction area is in place.

Upgrade of the road will take place in such a manner that a lane will be upgraded at a time to ensure continuous movement and usage of the road.

**Please Note:** indicate the position of the proposed access road on the site plan (See Section 7 below)

**7. SITE PHOTOGRAPHS**

Colour photographs of the site and its surroundings (taken of the site and from the site) with a description of each photograph. The vantage points from which the photographs were taken must be indicated on the site plan, or locality plan as applicable. If available, please also provide a recent aerial photograph. Photographs must be attached under **Appendix D** to this form. It should be supplemented with additional photographs of relevant features on the site. Date of photographs must be included. Please note that the above requirements must be duplicated for all alternative sites.

**8. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES**

Please list all legislation, policies and/or guidelines that have or will be considered in the preparation of this application.

LEGISLATION	ADMINISTERING AUTHORITY	TYPE Permit/ license/ authorization/comment	DATE (if already obtained):
National Environmental Management Act, Act No. 107 of 1998	Western Cape Department of Environmental Affairs and Development Planning (DEADP)	Authorisation	This Application Notice of Intent: Acknowledgement 11/11/2009
National Heritage Resources Act, Act No. 25 of 1999	South African Heritage Resources Agency (SAHRA)	Authorisation and comment: Notice of Intent to Develop will be submitted to Heritage Western Cape for approval	None up to date
National Water Act, Act No. 36 of 1998	Department of Water Affairs	Auhtorisation and Comment: Water use license application will be submitted for a river crossing	None up to date

POLICY/ GUIDELINES	ADMINISTERING AUTHORITY
Government Notice Regulations No. 385 – Regulations i.t.o. Chapter 5 of NEMA	Department of Environmental Affairs and Development Planning
Government Notice Regulations No. 386 – Listed activities & competent authorities	Department of Environmental Affairs and Development Planning
DEAT: Guideline 3: General guide to Environmental	Department of Environmental Affairs and Development

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Impact Assessment Regulations, 2006	Planning
DEADP: Guideline on the interpretation of the listed activities (November 2006)	Department of Environmental Affairs and Development Planning
DEAT: Guideline 4: Guideline on Public Participation (September 2007)	Department of Environmental Affairs and Development Planning
DEAT: Guideline 5: Guideline on Assessing Alternatives (September 2007)	Department of Environmental Affairs and Development Planning
Government Notice Regulations No. 385 – Regulations i.t.o. Chapter 5 of NEMA	Department of Environmental Affairs and Development Planning
Government Notice Regulations No. 386 – Listed activities & competent authorities	Department of Environmental Affairs and Development Planning
DEAT: Guideline 3: General guide to Environmental Impact Assessment Regulations, 2006	Department of Environmental Affairs and Development Planning
DEADP: Guideline on the interpretation of the listed activities (November 2006)	Department of Environmental Affairs and Development Planning

## SECTION B: DESCRIPTION OF RECEIVING ENVIRONMENT

### Site/Area Description

For linear activities (pipelines etc) as well as activities that cover very large sites, it may be necessary to complete copies of this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section B and indicate the area which is covered by each copy No. on the Site Plan.

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

### SECTION A AS IN FIGURE 2A

#### 1. GRADIENT OF THE SITE

Indicate the general gradient of the sites (tick the appropriate box).

##### Alternative S1: Preferred Route

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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##### Alternative S2: No-Go Option

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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##### Alternative S3: Not Applicable

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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#### 2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site (tick (“✓”) the appropriate box(es)).

##### Alternative S1: Preferred Route

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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##### Alternative S2: No-Go Option

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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**Alternative S3: Not Applicable**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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If other, please describe

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

Please note that a Geotechnical Impact Assessment and Hydrological Study will be conducted and will be made available with the Final Basic Assessment Report.

Is the site(s) located on or near any of the following (tick ("✓") the appropriate boxes)?

	Alternative S1 Preferred Route			Alternative S2 No-Go Option			Alternative S3 Not Applicable		
Shallow water table (less than 1.5m deep)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Seasonally wet soils (often close to water bodies)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Unstable rocky slopes or steep slopes with loose soil	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Dispersive soils (soils that dissolve in water)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Soils with high clay content	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Any other unstable soil or geological feature	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
An area sensitive to erosion	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE

If any of the answers to the above are "YES" or "unsure", specialist input may be requested by the Department. (Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

### 4. SURFACE WATER

Indicate the surface water present on and or adjacent to the site and alternative sites (tick ("✓") the appropriate boxes)?

	Alternative S1 Preferred Route			Alternative S2 No-Go Option			Alternative S3 Not Applicable		
Perennial River	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Non-Perennial River	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Permanent Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Seasonal Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Artificial Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Estuarine / Lagoonal wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE

### 5. VEGETATION / GROUND COVER

Tick ("✓") and describe (where required) the vegetation types / groundcover present on the site.

**Alternative S1: Preferred Route**

Indigenous Vegetation - good condition		Indigenous Vegetation with scattered aliens	✓	Indigenous Vegetation with heavy alien infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	

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Indigenous Vegetation in an ecological corridor or along a soil boundary / interface	Veld dominated by alien species	Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe
Bare soil	<b>Building or other structure</b>	Sport field
<b>Paved surface</b>	Cultivated land	Other (describe)

**Alternative S2: No-Go Option**

Indigenous Vegetation - good condition		<b>Indigenous Vegetation with scattered aliens</b>	✓	Indigenous Vegetation with heavy alien infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		<b>Building or other structure</b>		Sport field	
<b>Paved surface</b>		Cultivated land		Other (describe)	

**Alternative S3: Not Applicable**

Indigenous Vegetation - good condition		Indigenous Vegetation with scattered aliens		Indigenous Vegetation with heavy alien infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Paved surface		Cultivated land		Other (describe)	

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

To assist with the identification of the vegetation type and ecosystem status consult <http://bgis.sanbi.org> or [BGIShelp@sanbi.org](mailto:BGIShelp@sanbi.org). Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/ EAP's responsibility to ensure that the latest version is used.

**6. LAND USE CHARACTER OF SURROUNDING AREA**

Tick ("✓") the current land uses and/or prominent features that occur within +/- 500m radius of the site and neighbouring properties if these are located beyond 500m of the site. **Please note:** The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies.

**Alternative S1: Preferred Route**

Untransformed area	Low density residential	<b>Medium density residential</b>	High density residential	Informal residential
<b>Retail</b>	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	<b>Office/consulting room</b>	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility

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Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	<b>Church</b>	<b>Old age home</b>
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	<b>Agriculture</b>	<b>River, stream or wetland</b>	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

**Alternative S2: No-Go Option**

Untransformed area	Low density residential	<b>Medium density residential</b>	High density residential	Informal residential
<b>Retail</b>	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	<b>Office/consulting room</b>	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	<b>Church</b>	<b>Old age home</b>
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	<b>Agriculture</b>	<b>River, stream or wetland</b>	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

**Alternative S3: Not Applicable**

Untransformed area	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

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**SECTION B AS IN FIGURE 2B**

**1. GRADIENT OF THE SITE**

Indicate the general gradient of the sites (tick the appropriate box).

**Alternative S1: Preferred Route**

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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**Alternative S2: No-Go Option**

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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**Alternative S3: Not Applicable**

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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**2. LOCATION IN LANDSCAPE**

Indicate the landform(s) that best describes the site (tick (“√”) the appropriate box(es)).

**Alternative S1: Preferred Route**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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**Alternative S2: No-Go Option**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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**Alternative S3: Not Applicable**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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If other, please describe

**3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE**

Please note that a Geotechnical Impact Assessment and Hydrological Study will be conducted and will be made available with the Final Basic Assessment Report.

Is the site(s) located on or near any of the following (tick (“√”) the appropriate boxes)?

	Alternative S1 Preferred Route			Alternative S2 No-Go Option			Alternative S3 Not Applicable		
	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Shallow water table (less than 1.5m deep)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Seasonally wet soils (often close to water bodies)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Unstable rocky slopes or steep slopes with loose soil	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Dispersive soils (soils that dissolve in water)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Soils with high clay content	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Any other unstable soil or geological feature	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
An area sensitive to erosion	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE

If any of the answers to the above are “YES” or “unsure”, specialist input may be requested by the Department. (Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

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**5. SURFACE WATER**

Indicate the surface water present on and or adjacent to the site and alternative sites (tick (“√”) the appropriate boxes)?

	Alternative S1 Preferred Route			Alternative S2 No-Go Option			Alternative S3 Not Applicable		
	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Perennial River	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Non-Perennial River	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Permanent Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Seasonal Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Artificial Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Estuarine / Lagoonal wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE

**5. VEGETATION / GROUNDCOVER**

Tick (“√”) and describe (where required) the vegetation types / groundcover present on the site.

**Alternative S1: Preferred Route**

Indigenous Vegetation - good condition		Indigenous Vegetation with scattered aliens	✓	Indigenous Vegetation with heavy alien infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Paved surface		<b>Cultivated land</b>		Other (describe)	

**Alternative S2: No-Go Option**

Indigenous Vegetation - good condition		Indigenous Vegetation with scattered aliens	✓	Indigenous Vegetation with heavy alien infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Paved surface		<b>Cultivated land</b>		Other (describe)	

**Alternative S3: Not Applicable**

Indigenous Vegetation - good		Indigenous Vegetation with		Indigenous Vegetation with heavy alien	
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condition		scattered aliens		infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Paved surface		Cultivated land		Other (describe)	

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

To assist with the identification of the vegetation type and ecosystem status consult <http://bgis.sanbi.org> or [BGIShelp@sanbi.org](mailto:BGIShelp@sanbi.org).

Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/ EAP's responsibility to ensure that the latest version is used.

## 6. LAND USE CHARACTER OF SURROUNDING AREA

Tick ("✓") the current land uses and/or prominent features that occur within +/- 500m radius of the site and neighbouring properties if these are located beyond 500m of the site. **Please note:** The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies.

### Alternative S1: Preferred Route

Untransformed area	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	<b>Agriculture</b>	<b>River, stream or wetland</b>	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

### Alternative S2: No-Go Option

Untransformed area	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	<b>Agriculture</b>	<b>River, stream or wetland</b>	Nature conservation area

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Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

**Alternative S3: Not Applicable**

Untransformed area	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

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**SECTION C AS IN FIGURE 2c**

**1. GRADIENT OF THE SITE**

Indicate the general gradient of the sites (tick the appropriate box).

**Alternative S1: Preferred Route**

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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**Alternative S2: No-Go Option**

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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**Alternative S3: Not Applicable**

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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**2. LOCATION IN LANDSCAPE**

Indicate the landform(s) that best describes the site (tick (“✓”) the appropriate box(es)).

**Alternative S1: Preferred Route**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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**Alternative S2: No-Go Option**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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**Alternative S3: Not Applicable**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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If other, please describe

**3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE**

Please note that a Geotechnical Impact Assessment and Hydrological Study will be conducted and will be made available with the Final Basic Assessment Report.

Is the site(s) located on or near any of the following (tick (“✓”) the appropriate boxes)?

	Alternative S1 Preferred Route			Alternative S2 No-Go Option			Alternative S3 Not Applicable		
Shallow water table (less than 1.5m deep)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Seasonally wet soils (often close to water bodies)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Unstable rocky slopes or steep slopes with loose soil	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Dispersive soils (soils that dissolve in water)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Soils with high clay content	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Any other unstable soil or geological feature	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
An area sensitive to erosion	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE

If any of the answers to the above are “YES” or “unsure”, specialist input may be requested by the Department. (Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

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**6. SURFACE WATER**

Indicate the surface water present on and or adjacent to the site and alternative sites (tick (“√”) the appropriate boxes)?

	Alternative S1 Preferred Route			Alternative S2 No-Go Option			Alternative S3 Not Applicable		
	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Perennial River	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Non-Perennial River	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Permanent Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Seasonal Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Artificial Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Estuarine / Lagoonal wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE

**5. VEGETATION / GROUNDCOVER**

Tick (“√”) and describe (where required) the vegetation types / groundcover present on the site.

**Alternative S1: Preferred Route**

Indigenous Vegetation - good condition		Indigenous Vegetation with scattered aliens	√	Indigenous Vegetation with heavy alien infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Paved surface		Cultivated land		Other (describe)	

**Alternative S2: No-Go Option**

Indigenous Vegetation - good condition		Indigenous Vegetation with scattered aliens	√	Indigenous Vegetation with heavy alien infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Paved surface		Cultivated land		Other (describe)	

**Alternative S3: Not Applicable**

Indigenous Vegetation - good		Indigenous Vegetation with		Indigenous Vegetation with heavy alien	
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condition		scattered aliens		infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Paved surface		Cultivated land		Other (describe)	

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

To assist with the identification of the vegetation type and ecosystem status consult <http://bgis.sanbi.org> or [BGIShelp@sanbi.org](mailto:BGIShelp@sanbi.org). Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/ EAP's responsibility to ensure that the latest version is used.

## 6. LAND USE CHARACTER OF SURROUNDING AREA

Tick ("✓") the current land uses and/or prominent features that occur within +/- 500m radius of the site and neighbouring properties if these are located beyond 500m of the site. **Please note:** The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies.

### Alternative S1: Preferred Route

Untransformed area	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	<b>Medium industrial</b>	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	<b>Agriculture</b>	<b>River, stream or wetland</b>	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

### Alternative S2: No-Go Option

Untransformed area	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	<b>Medium industrial</b>	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	<b>Agriculture</b>	<b>River, stream or wetland</b>	Nature conservation area

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Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

**Alternative S3: Not Applicable**

Untransformed area	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

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**SECTION D AS IN FIGURE 2D**

**1. GRADIENT OF THE SITE**

Indicate the general gradient of the sites (tick the appropriate box).

**Alternative S1: Preferred Route**

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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**Alternative S2: No-Go Option**

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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**Alternative S3: Not Applicable**

Flat	Flatter than 1:10	1:10 – 1:5	Steeper than 1:5
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**2. LOCATION IN LANDSCAPE**

Indicate the landform(s) that best describes the site (tick (“✓”) the appropriate box(es)).

**Alternative S1: Preferred Route**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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**Alternative S2: No-Go Option**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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**Alternative S3: Not Applicable**

Ridgeline	Plateau	Side slope of hill/mountain	Closed valley	Open valley	Plain	Undulating plain/low hills	Dune	Sea-front	Other
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If other, please describe

**3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE**

Please note that a Geotechnical Impact Assessment and Hydrological Study will be conducted and will be made available with the Final Basic Assessment Report.

Is the site(s) located on or near any of the following (tick (“✓”) the appropriate boxes)?

	Alternative S1 Preferred Route			Alternative S2 No-Go Option			Alternative S3 Not Applicable		
Shallow water table (less than 1.5m deep)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Seasonally wet soils (often close to water bodies)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Unstable rocky slopes or steep slopes with loose soil	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Dispersive soils (soils that dissolve in water)	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Soils with high clay content	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Any other unstable soil or geological feature	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
An area sensitive to erosion	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE

If any of the answers to the above are “YES” or “unsure”, specialist input may be requested by the Department. (Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

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**7. SURFACE WATER**

Indicate the surface water present on and or adjacent to the site and alternative sites (tick (“✓”) the appropriate boxes)?

	Alternative S1 Preferred Route			Alternative S2 No-Go Option			Alternative S3 Not Applicable		
	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Perennial River	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Non-Perennial River	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Permanent Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Seasonal Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Artificial Wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE
Estuarine / Lagoonal wetland	YES	NO	UNSURE	YES	NO	UNSURE	YES	NO	UNSURE

**5. VEGETATION / GROUNDCOVER**

Tick (“✓”) and describe (where required) the vegetation types / groundcover present on the site.

**Alternative S1: Preferred Route**

Indigenous Vegetation - good condition		Indigenous Vegetation with scattered aliens	✓	Indigenous Vegetation with heavy alien infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Paved surface		Cultivated land		Other (describe)	

**Alternative S2: No-Go Option**

Indigenous Vegetation - good condition		Indigenous Vegetation with scattered aliens	✓	Indigenous Vegetation with heavy alien infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Paved surface		Cultivated land		Other (describe)	

**Alternative S3: Not Applicable**

Indigenous Vegetation - good		Indigenous Vegetation with		Indigenous Vegetation with heavy alien	
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condition		scattered aliens		infestation	
Identify the vegetation type above:		Identify the vegetation type above:		Identify the vegetation type above:	
Provide ecosystem status for above:		Provide ecosystem status for above:		Provide Ecosystem status for above:	
Indigenous Vegetation in an ecological corridor or along a soil boundary / interface		Veld dominated by alien species		Distinctive soil conditions (e.g. Sand over shale, quartz patches, limestone, alluvial deposits, termitaria etc.) – describe	
Bare soil		Building or other structure		Sport field	
Paved surface		Cultivated land		Other (describe)	

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

To assist with the identification of the vegetation type and ecosystem status consult <http://bgis.sanbi.org> or [BGIShelp@sanbi.org](mailto:BGIShelp@sanbi.org).

Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/ EAP's responsibility to ensure that the latest version is used.

## 6. LAND USE CHARACTER OF SURROUNDING AREA

Tick ("✓") the current land uses and/or prominent features that occur within +/- 500m radius of the site and neighbouring properties if these are located beyond 500m of the site. **Please note:** The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies.

### Alternative S1: Preferred Route

Untransformed area	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

### Alternative S2: No-Go Option

Untransformed area	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	Agriculture	River, stream or wetland	Nature conservation area

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Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

**Alternative S3: Not Applicable**

Untransformed area	Low density residential	Medium density residential	High density residential	Informal residential
Retail	Commercial & warehousing	Light industrial	Medium industrial	Heavy industrial
Power station	Office/consulting room	Military or police base/station/compound	Casino/entertainment complex	Tourism & Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical center	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes or more)	Airport
Harbour	Sport facilities	Golf course	Polo fields	Filling station
Landfill or waste treatment site	Plantation	Agriculture	River, stream or wetland	Nature conservation area
Mountain, koppie or ridge	Museum	Historical building	Graveyard	Archeological site
Other land uses (describe):				

**7. REGIONAL PLANNING CONTEXT**

Is the activity permitted in terms of the property's existing land use rights? Please explain			
Yes, the proposed upgrade of the existing road will take place within the existing 30 metre road reserve, which is the property of the applicant, Western Cape Provincial Administration: Public Works and Transportation.			
Will the activity be in line with the following?			
Provincial Spatial Development Framework (PSDF)	<b>YES</b>	NO	Please explain
The Western Cape Provincial Development Framework: The infrastructure and services that are essential for the development of rural communities must be created in an environmentally sustainable manner.			
Urban edge / Edge of Built environment for the area	YES	NO	Please explain
Not Applicable			
Integrated Development Plan of the Local Municipality	<b>YES</b>	NO	Please explain
The upgrade of the TR 25/MR25 will promote maintenance of services in the municipal area.			
Spatial Development Framework of the Local Municipality	YES	<b>NO</b>	Please explain
Not Applicable			
Approved Structure Plan of the Municipality	YES	<b>NO</b>	Please explain
Not Applicable			
Any other Plans	YES	<b>NO</b>	Please explain
Not Applicable			

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**8. SOCIO-ECONOMIC CONTEXT**

Describe the existing social and economic characteristics of the community in order to provide baseline information.

The significance of the social impacts will be low to medium in the area. Temporary social impacts will be during the construction phase as construction vehicles and workers will be working in the area. The proposed activities will create job opportunities.

An Empowerment Impact Assessment will be conducted and will be made available upon completion together with the final Basic Assessment Report.

**9. CULTURAL/HISTORICAL FEATURES**

Please be advised that if section 38 of the National Heritage Resources Act 25 of 1999 is applicable to your proposed development, then you are requested to furnish this Department with written comment from Heritage Western Cape as part of your public participation process. Section 38 of the Act states as follows:

38. (1) Subject to the provisions of subsections (7), (8) and (9), any person who intends to undertake a development categorised as-

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

**Alternative S1: Preferred Route**

Are there any signs of culturally or historically significant elements including archaeological or palaeontological sites, on or in close proximity to the site?		YES	NO
		UNCERTAIN	
If YES, explain:	The following buildings older than 60 years are located in close proximity or along the proposed road upgrade; <ol style="list-style-type: none"> <li>1. Trafalgar on the corner of Piet Retief and Rainier Streets. Build in c.1850;</li> <li>2. "Ou Lap" Residence on the opposite corner of Piet Retief and Rainier Streets. Build in c.1899; and</li> <li>3. Malmesbury Dutch Reformed Church. Build in c.1860</li> </ol>		
If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.			
Briefly explain the findings of the specialist if one was already appointed:	A Notice of Intent to Develop will be submitted to Heritage Western Cape.		
Will any building or structure older than 60 years be affected in any way?		YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?		YES	NO
If yes, please submit or, make sure that the applicant or a specialist submit the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application.			

**Alternative S2: No-Go Option**

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 palaeontological sites, on or close (within 20m) to the site?		YES	NO
		UNCERTAIN	

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If YES, explain:	<p>The following buildings older than 60 years are located in close proximity or along the proposed road upgrade;</p> <ol style="list-style-type: none"> <li>1. Trafalgar on the corner of Piet Retief and Rainier Streets. Build in c.1850;</li> <li>2. "Ou Lap" Residence on the opposite corner of Piet Retief and Rainier Streets. Build in c.1899; and</li> <li>3. Malmesbury Dutch Reformed Church. Build in c.1860</li> </ol>		
If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.			
Briefly explain the findings of the specialist if one was already appointed:	A Notice of Intent to Develop will be submitted to Heritage Western Cape.		
Will any building or structure older than 60 years be affected in any way?		YES	<b>NO</b>
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?		YES	<b>NO</b>
If yes, please submit or, make sure that the applicant or a specialist submit the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application.			

**Alternative S3: Not Applicable**

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 palaeontological sites, on or close (within 20m) to the site?	YES	NO	
	UNCERTAIN		
If YES, explain:			
If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.			
Briefly explain the findings of the specialist if one was already appointed:			
Will any building or structure older than 60 years be affected in any way?		YES	NO
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?		YES	NO
If yes, please submit or, make sure that the applicant or a specialist submit the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application.			

**Please note:** Heritage Western Cape / South African Heritage Resource Agency (which ever is the competent authority under the circumstance) comments needs to be submitted along with this Basic Assessment Report.

## SECTION C: PUBLIC PARTICIPATION

The person conducting the public participation process must fulfil the requirements outlined in Regulation 56 and also take into account this Department's guideline on Public participation.

**Please tick ("✓") the appropriate box to indicate whether the specific requirement was undertaken or whether exemption has been applied for.**

1. Were all potential interested and affected parties notified of the application by –			
(a) having fixed a notice board 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	YES	NO	EXEMPTION
(ii) any alternative site mentioned in the application	YES	NO	EXEMPTION
(b) having given written notice to –			
(i) the owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site	YES	NO	EXEMPTION
(ii) the owners and occupiers of land within 100 metres of the boundary of the site or alternative site who are or may be directly affected by the activity	YES	NO	EXEMPTION
(iii) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represents the community in the area	YES	NO	EXEMPTION
(iv) the municipality which has jurisdiction in the area; and	YES	NO	EXEMPTION
(v) any organ of state having jurisdiction in respect of any aspect of the activity	YES	NO	EXEMPTION
(c) having placed an advertisement in –			
(i) one local newspaper, or	YES	NO	EXEMPTION
(ii) the official EIA <i>Gazette</i>	YES	NO	EXEMPTION
(d) having placed 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 local municipality in which it is or will be undertaken. (This requirement need not be complied with if an advertisement has been placed in the official EIA <i>Gazette</i> referred to in (c)(ii) above.	YES	NO	EXEMPTION
2. Was a register of interested and affected parties opened, maintained and made available to any person requesting access to the register in writing? (copy of register to be included in appendix E)	YES	NO	EXEMPTION
3. Were all registered interested and affected parties given access to this application form and basic assessment report and any other report(s) compiled in relation to this application and was an opportunity for interested and affected parties to comment on the report(s) in writing provided?	YES	NO	EXEMPTION
4. Were stakeholders that have direct interests in the site or property, such as servitude holders and service providers, informed of the application at least 30 (thirty) calendar days before the submission of this application and were they provided with the opportunity to comment. (Comments to be included in the comments and response report as described below)	YES	NO	EXEMPTION
5. Were Municipalities and other organs of state notified and given an opportunity to comment? (This information must also be included in the comments and response report)	YES	NO	EXEMPTION

**Please note:** Proof of all of the above must be submitted as part of the public participation information to be attached to this basic assessment report as **Appendix E**. Should any of the responses be "No" and no application for exemption from that requirement was applied for, the Department will not proceed with evaluating / processing the application until that specific requirement is undertaken. Any exemption application must be brought to the attention of all interest and affected parties through the public participation process.

The practitioner must record all comments and respond to each comment of the public / interested and affected party before the application is submitted. The comments and responses must be captured in a **Comments and Responses Report** as prescribed in the regulations and must also include a description of the public participation process followed and this report must also be included in the public participation information to be attached to this basic assessment report as **Appendix E**.

If an application is for a linear or ocean-based activity and strict compliance with the above requirements is inappropriate, the person conducting the public participation process may deviate from the requirements to the extent and in the manner as may be agreed to by this

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Department.

## SECTION D: IMPACT ASSESSMENT

**Please note:** The information in this section must be duplicated for all the alternatives (where relevant).

### 1. WASTE, EFFLUENT AND EMISSION MANAGEMENT

#### (a) Solid waste management

Will the activity produce solid waste (including rubble) during the construction phase?	YES	NO
If yes, what estimated quantity during the construction period?	See below	

Where and how will the construction solid waste be treated / disposed of (describe)?
<p>Please note: Any domestic waste produced by the contractor and workers during the construction phase will be disposed of by the contractor at a registered municipal landfill site.</p> <p>The existing road surface will be demolished and re-used in the upgrade (construction phase) of the road. Any excess material will be spoiled. Spoil sites need to be determined.</p>

Will the activity produce solid waste during its operational phase?	YES	NO
If Yes, what estimated quantity will be produced per month?	m <sup>3</sup>	

Where and how will the solid waste be treated / disposed of (describe)?		
<p>No solid waste will be treated. All general waste will be disposed of at the municipal landfill site.</p> <p>All possible road surface material will be re-used during the construction phase.</p>		
Has the municipality or relevant authority confirmed that sufficient capacity exist for treating / disposing of the solid waste to be generated by this activity(ies)? If yes, provide written confirmation from Municipality or relevant authority	YES	NO
Will the activity produce solid waste that will be treated and/or disposed of at another facility other than into a municipal waste stream?	YES	NO
If yes, has this facility confirmed that sufficient capacity exist for treating / disposing of the solid waste to be generated by this activity(ies)? Provide written confirmation from the facility and provide the following particulars of the facility:	YES	NO
Does the facility have an operating license? (If yes, please attach a copy of the license.)	YES	NO
Facility name:		
Contact person:		
Postal address:		
	Postal code:	
Telephone:	Cell:	
E-mail:	Fax:	

#### (b) Effluent

Will the activity produce sewage and or any other effluent?	YES	NO
The construction phase of the proposed activity will produce sewage. Ablution facilities (chemical toilets) for the construction workers will be provided and managed in terms of the Construction EMP.		
What estimated quantity will be produced per month?	Unknown	
Will the effluent be treated and/or disposed of in a municipal system?	YES	NO
If Yes, has the municipality or relevant authority confirmed that sufficient <b>unallocated</b> capacity exist for treating / disposing of the sewage or any other effluent to be generated by this activity(ies)? Provide written confirmation from the Municipality or relevant authority		
The effluent that will be disposed of as a result of the construction phase chemical toilets is not considered to be substantial. Furthermore, the ablution facilities will be managed by an authorized		

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sub-contractor.

Will any effluent produced be treated and/or disposed of on site?	Yes	<b>NO</b>
If yes, briefly describe the nature of the effluent and how it will be disposed of:		
<b>Not Applicable</b>		
Will the activity produce effluent that will be treated and/or disposed of at another facility?	YES	<b>NO</b>
If yes, has this facility confirmed that sufficient capacity exist for treating / disposing of the liquid effluent to be generated by this activity(ies)? Provide written confirmation from the facility and provide the following particulars of the facility:	YES	NO
Does the facility have an operating license? (If yes, please attach a copy of the license.)	YES	NO
Facility name:		
Contact person:		
Postal address:		
	Postal code:	
Telephone:	Cell:	
E-mail:	Fax:	

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

Water to be used on site will as part of the construction phase as well as dust mitigation. It is not anticipated that any significant amount of waste water will be produced.

**(c) Emissions into the atmosphere**

Will the activity produce emissions that will be disposed of into the atmosphere?	<b>YES</b>	NO
If yes, does it require approval in terms of relevant legislation?	YES	<b>NO</b>
Describe the emissions in terms of type and concentration and how it will be treated/mitigated:		
Please note: Possible dust and emissions generated by the construction vehicles and bitumen application will be addressed by the contractor as per Construction Environmental Management Programme (EMP)		

**2. WATER USE**

Please indicate the source(s) of water for the activity by ticking (“✓”) the appropriate box(es)

<b>Municipal</b>	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 a groundwater source, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month: N/A m<sup>3</sup>

Please provide proof of assurance of water supply eg. letter of confirmation from municipality / water user associations, yield of borehole		
Does the activity require a water use permit / license from DWAF?	YES	<b>NO</b>

Water obtained from a municipal source will be for use on the construction site as part of the construction proves or for dust mitigation. The quantities of water required are not deemed significant. Efficient water management will be managed as part of the Construction EMP.

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

**3. POWER SUPPLY**

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

Power supply associated with the construction phase of the proposed project will be generated by mobile generators, if required.

Municipal power supply will be used for the street lamps. The existing street lamps will be replaced

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and spaced more efficiently. Street lamps will only be constructed along the urban area.

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

**4. ENERGY EFFICIENCY**

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:  
Not Applicable.

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:  
Not Applicable

**5. NOISE IMPACTS**

Will the activity result in any noise impacts during the construction phase?	<b>YES</b>	NO
If yes, please describe and indicate the measures proposed to mitigate and manage these impacts?		
<p>During the construction phase noise will be generated by the construction activities as heavy machinery will operate and construction vehicles and workers will move to and from the site.</p> <p>To manage the impact of noise, construction activities will be limit to normal working hours and will be addressed in the Construction EMP.</p>		
Will the activity result in any noise impacts during its operational phase?	<b>YES</b>	NO
If yes, please describe and indicate the measures proposed to mitigate and manage these impacts?		
<p>Noise as a result of traffic along the road will be continues, which will be the same as the current situation.</p>		

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

**6. VISUAL IMPACTS**

Will the activity result in any visual impacts?	<b>YES</b>	NO
If yes, please describe and indicate the measures proposed to mitigate and manage these impacts?		
<p>The visual impact will only be high during the construction phase of the project. The construction area will be clearly demarcated.</p> <p>During the operational phase the visual impact will be less than the current state of the road.</p>		
Will the activity result in potential lighting impacts at night?	YES	<b>NO</b>
If yes, please describe and indicate the measures proposed to mitigate and manage these impacts?		
Not Applicable		

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

**7. SOCIO-ECONOMIC IMPLICATIONS OF THE ACTIVITY**

What is the expected capital value of the activity on completion? R 32, 577,902.

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What is the expected yearly income or contribution to the economy that will be generated by or as a result of the activity?	R	
Will the activity contribute to service infrastructure?	<b>YES</b>	NO
How many new employment opportunities will be created in the construction phase of the activity?	25	
What is the expected value of the employment opportunities during the construction phase?	R	
What percentage of this will accrue to previously disadvantaged individuals?	%	

How will this be ensured and monitored (please explain):

How many permanent new employment opportunities will be created during the operational phase of the activity?	0
What is the expected current value of the employment opportunities during the first 10 years?	R0.0
What percentage of this will accrue to previously disadvantaged individuals?	0 %

How will this be ensured and monitored (please explain):

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**8. IMPACTS THAT MAY RESULT FROM THE PLANNING, DESIGN AND CONSTRUCTION PHASE**

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

<b>Alternative S1 (preferred activity alternative)</b>			
<b>Potential impacts:</b>	<b>Significance rating of impacts (Low, Medium, Medium-High, High, Very High):</b>	<b>Proposed mitigation:</b>	<b>Significance rating of impacts after mitigation (Low, Medium, Medium-High, High, Very High):</b>
<b>Biophysical</b>			
- Impact of road surface widening on the local vegetation	Low (-)	<ul style="list-style-type: none"> <li>-Vegetation outside the existing road surface, where widening will take place shall be brush cut and topsoil to be removed from the area.</li> <li>-Vegetation and topsoil shall be stockpiled together within the road reserve.</li> <li>-Disturbed area shall be stabilized, topsoil redistributed and landscaped to blend into the surrounding area.</li> <li>-Rehabilitation shall be allowed to occur naturally from topsoil seedbank and surrounding vegetation.</li> <li>-Regular monitoring shall take place to limit erosions and alien vegetation growth.</li> </ul>	<b>Low (-)</b>
	Medium (-)	Bridge Crossing the Riebeek River: <ul style="list-style-type: none"> <li>-Vegetation and topsoil shall be stockpiled together within the road reserve.</li> <li>-Any vegetation within the river bank or bed shall be removed as best as possible and added to the topsoil stockpile.</li> <li>-Topsoil and organic matter shall be redistributed over the disturbed area.</li> <li>-Recommendation from the Freshwater Ecological Assessment shall be incorporated into the Construction EMP.</li> </ul>	<b>Low to Medium (-)</b>
- Impact of the road construction on local faunal communities	Very Low (-)	<ul style="list-style-type: none"> <li>-Impacts are mainly restricted to the construction phase.</li> <li>-Mobility of fauna shall ensure that they return once the area is rehabilitated or revegetated.</li> <li>-Movement of personnel and construction vehicles shall be restricted during the construction phase within the construction corridor.</li> </ul>	<b>Very Low to Neutral (-)</b>
- Impact of erosion as a result of realignment activities on the surrounding area	Low (-)	<ul style="list-style-type: none"> <li>-Ongoing monitoring of construction area shall take place, especially after a rain event.</li> <li>-Brush packing with indigenous vegetation (already brush-cut within the construction</li> </ul>	

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		<p>corridor) in areas of erosion and/or potential erosion shall take place.</p> <ul style="list-style-type: none"> <li>- Adequate stormwater drainage will form part of the proposed upgrade.</li> <li>- The possibility of gabions shall be investigated, especially due to construction activities taking place within the river bed, and at cross-drainage pipe outlets to disperse the water channeled through the pipes.</li> </ul>	
<b>Social</b>			
<ul style="list-style-type: none"> <li>- Impact on local heritage / cultural features</li> </ul>	Low (-)	<ul style="list-style-type: none"> <li>- Construction activities in the vicinity of the listed cultural and historical building must be closely monitored to avoid any damage to the building or surrounding structures.</li> <li>- Precaution shall be taken to prevent the removal of fossils, coins, human remains, articles of value or antiques and other items of archaeological or paleontological significance.</li> <li>- The appointed Environmental Control Officer and local heritage authority must be contacted should any artifacts be uncovered.</li> </ul>	Low to Neutral
<ul style="list-style-type: none"> <li>- Impact of noise generated by the construction of the road</li> </ul>	Low to Medium (-)	<p>Equipment shall be fitted with requisite silencers and directorial settings.</p> <p>Noise generated by the construction activities will be regulated and managed via the CEMP and Occupation Health and Safety Regulations.</p> <p>Construction activities shall be restricted to normal working hours (07h00 to 17h00 during weekdays) and if required every second Saturday.</p> <p>Forum for complaints to be raised shall be provided.</p>	Low (-)
<ul style="list-style-type: none"> <li>- Impact of dust generated by the construction of the road</li> </ul>	Low – Medium (-)	<ul style="list-style-type: none"> <li>- Standard dust control measures addressed in the CEMP has be implemented.</li> <li>- Forum for complaints to be raised shall be provided.</li> </ul>	
<ul style="list-style-type: none"> <li>- Impact of construction activity on the views of local residents, tourists and passers-by</li> </ul>	Low (-)	<ul style="list-style-type: none"> <li>- As described in the impact on vegetation above, the disturbed areas shall be stabilized, landscaped and allowed to revegetate naturally.</li> </ul>	Very Low (-)
<ul style="list-style-type: none"> <li>- Impact of the construction activity on local traffic</li> </ul>	Medium (-)	<ul style="list-style-type: none"> <li>- Construction vehicles will only make use of existing gravel road.</li> <li>- Relevant regulations relating to traffic management shall be observed.</li> <li>- Signal personnel (with appropriate signage) shall be placed to manage traffic along construction corridor.</li> <li>- The recommendations of the Traffic Impact Assessment will be incorporated into the CEMP.</li> </ul>	Low (-)
<ul style="list-style-type: none"> <li>- Impact of the road</li> </ul>	Medium (-)	<ul style="list-style-type: none"> <li>- Fence shall be relocated to the edge of the</li> </ul>	Low (-)

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construction on surrounding land use		<p>road reserve before construction along the new section begins.</p> <ul style="list-style-type: none"> <li>-Workers shall be prevented from entering adjacent properties.</li> <li>-Surrounding property shall be secured so that livestock are not able to escape.</li> <li>-The access road for adjacent farmers will be discussed and managed.</li> </ul>	
<ul style="list-style-type: none"> <li>- Impact of littering / pollution generated by the construction activities on the surrounding environment.</li> </ul>	Low (-)	<ul style="list-style-type: none"> <li>-Suitable refuse disposal facilities shall be provided. This includes weather and scavenger proof bins, designated eating areas and a programme for regular collection and removal of waste to an approved facility.</li> <li>-The appointed ECO shall be appointed to monitor the construction phase.</li> </ul>	Very Low (-)

Alternative S2 No Go Option			
Potential impacts:	Significance rating of impacts(Low, Medium, Medium-High, High, Very High):	Proposed mitigation:	Significance rating of impacts after mitigation(Low, Medium, Medium-High, High, Very High):
<p>Note: As the No-Go Options does not per se have a construction phase associated with it, this assessment has been done in terms of the future use of and maintenance required for the existing road.</p>			

<b>Biophysical</b>
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<ul style="list-style-type: none"> <li>- Impact of the road construction on local faunal communities</li> </ul>	Very Low (-)	<ul style="list-style-type: none"> <li>-Impacts are mainly restricted to the construction phase.</li> <li>-Mobility of fauna shall ensure that they return once the area is rehabilitated or revegetated.</li> <li>-Movement of personnel and construction vehicles shall be restricted during the construction phase within the construction corridor.</li> </ul>	Very Low to Neutral (-)
<ul style="list-style-type: none"> <li>- Impact of road surface widening on the local vegetation</li> </ul>	Neutral	<ul style="list-style-type: none"> <li>-As there is no road widening and construction associated with this alternative and maintenance is generally confined to the road surface itself, no impact on vegetation is anticipated..</li> </ul>	N/A
<ul style="list-style-type: none"> <li>- Impact of erosion as a result of construction activities on the surrounding area</li> </ul>	Low (-)	<ul style="list-style-type: none"> <li>-As erosion damage continues, the road shall become less cohesive and form more potholes that will damage cars / cause accidents more frequently.</li> </ul>	Low (-)

<b>Social</b>
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<ul style="list-style-type: none"> <li>- Impact on local heritage / cultural features</li> </ul>	Neutral	<ul style="list-style-type: none"> <li>-As there will be no construction associated with this option there shall be no impact on heritage resources</li> </ul>	N/A
<ul style="list-style-type: none"> <li>- Impact of noise generated by the construction of the road</li> </ul>	Very Low	<ul style="list-style-type: none"> <li>No noise will be caused by construction activity.</li> <li>Frequent maintenance of the road surface</li> </ul>	Low (-)

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		will take place within normal working hours.	
- Impact of dust generated by the construction of the road	Neutral	- No dust will be generated as no construction will take place.	N/A
- Impact of construction activity on the views of local residents, tourists and passers-by	Low (-)	- As there will be no construction the visual impact of the pothole covered and uneven road surface will remain the same.	Low (-)
- Impact of the construction activity on local traffic flows and safety	Medium (-)	- Traffic flow will remain restricted as heavy and slow moving trucks will decrease the flow of motorists. - Traffic pressure will remain during harvesting periods. - Relevant regulations relating to traffic management shall be observed. - Signal personnel (with appropriate signage) shall be placed to manage traffic along construction corridor during any maintenance on the road.	Medium (-)
- Impact of the road construction on surrounding land use	Medium (-)	- Safety will remain an issue for all surrounding land owners and farmers using the road.	Medium (-)
- Impact of littering / pollution generated by the construction activities on the surrounding environment.	Neutral	- No change in current littering or pollution is anticipated as a result of ongoing road maintenance	N/A

<b>Alternative S3 Not Applicable</b>			
<b>Potential impacts:</b>	<b>Significance rating of impacts(Low, Medium, Medium-High, High, Very High):</b>	<b>Proposed mitigation:</b>	<b>Significance rating of impacts after mitigation(Low, Medium, Medium-High, High, Very High):</b>

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**9. IMPACTS THAT MAY RESULT FROM THE OPERATIONAL PHASE**

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

**Alternative S1 (preferred activity alternative)**

Potential impacts:	Significance rating of impacts(Low, Medium, Medium-High, High, Very High):	Proposed mitigation:	Significance rating of impacts after mitigation(Low, Medium, Medium-High, High, Very High):
- Impact of the proposed upgrade on access to the region	Medium (+)	- Access to the region for residents, farmers, PPC and tourists shall be improved as the upgrade will facilitate movement by more vehicles that are currently able to access the area. - No mitigation measures shall be required.	Medium (+)
- Impact of the proposed upgrade on the safety of motorists	Medium (+)	- Motorist safety shall be improved as dangers associated with the passing of slow moving vehicles will be made easier and safer.	Medium (+)
- Impact of the proposed upgrade on traffic volumes / flows	Medium (+)	- As the road conditions/safety and access to the area improve, motorists, surrounding farmers and PPC regular road users will be safer and easier. - Volumes will not change much, but the flow will be faster preventing traffic congestion as the climbing lane for slow moving vehicles will provide faster moving vehicles to pass.	Medium (+)
- Impact of the proposed upgrade on the surrounding environment and stormwater run-off	Low to Medium(+)	- The upgrading of the stormwater management system is associated with the upgrading of the road, mitigating possible erosion. - Stormwater channels shall be monitored and maintained to ensure efficient flow and disposal. -	Low (+)
- Impact of the proposed upgrade on the road maintenance requirements	Low (+)	- The upgrade of the road shall result in reduced maintenance along the alignment. - No mitigation required	Low (+)

**Alternative S2 No-Go Option**

Potential impacts:	Significance rating of impacts(Low, Medium, Medium-High, High, Very High):	Proposed mitigation:	Significance rating of impacts after mitigation(Low, Medium, Medium-High, High, Very High):
- Impact of the proposed upgrade on access to the region	Medium (+)	- Access to the region for residents, farmers, PPC and tourists shall be improved as the upgrade will facilitate movement by more vehicles that are currently able to access the area. - No mitigation measures shall be required.	Medium (+)
- Impact of the proposed upgrade on the safety	Medium (+)	- Motorist safety shall be improved as dangers associated with the passing of	Medium (+)

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of motorists		slow moving vehicles will be made easier and safer.	
- Impact of the proposed upgrade on traffic volumes / flows	Medium (+)	- As the road conditions/safety and access to the area improve, motorists, surrounding farmers and PPC regular road users will be safer and easier. - Volumes will not change much, but the flow will be faster preventing traffic congestion as the climbing lane for slow moving vehicles will provide faster moving vehicles to pass.	Medium (+)
- Impact of the proposed upgrade on the surrounding environment and stormwater run-off	Low to Medium(+)	- The upgrading of the stormwater management system is associated with the upgrading of the road, mitigating possible erosion. - Stormwater channels shall be monitored and maintained to ensure efficient flow and disposal. -	Low (+)
- Impact of the proposed upgrade on the road maintenance requirements	Low (+)	- The upgrade of the road shall result in reduced maintenance along the alignment. - No mitigation required	Low (+)

<b>Alternative S3 Not Applicable</b>			
<b>Potential impacts:</b>	<b>Significance rating of impacts(Low, Medium, Medium-High, High, Very High):</b>	<b>Proposed mitigation:</b>	<b>Significance rating of impacts after mitigation(Low, Medium, Medium-High, High, Very High):</b>

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**10. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING AND CLOSURE PHASE**

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

**Please note:** The Trunk Road 25/Main Road 25 will not be decommissioned. If the need arise to decommission the road, a decision would need to be made as to whether the infrastructure would be removed or left in situ.

Alternative S1 (preferred activity alternative)			
Potential impacts:	Significance rating of impacts(Low, Medium, Medium-High, High, Very High):	Proposed mitigation:	Significance rating of impacts after mitigation(Low, Medium, Medium-High, High, Very High):

Alternative S2			
Potential impacts:	Significance rating of impacts(Low, Medium, Medium-High, High, Very High):	Proposed mitigation:	Significance rating of impacts after mitigation(Low, Medium, Medium-High, High, Very High):

Alternative S3			
Potential impacts:	Significance rating of impacts(Low, Medium, Medium-High, High, Very High):	Proposed mitigation:	Significance rating of impacts after mitigation(Low, Medium, Medium-High, High, Very High):

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**11. CUMULATIVE IMPACTS**

Describe potential impacts that, on their own may not be significant, but will be significant when added to the impact of other activities or existing impacts in the environment and substantiate response (The information in this section must be provided for all the alternatives as well):

The upgrade of the Trunk Road 25/Main Road 25 may result in an increase of traffic flow from the ease of using the road. The addition of climbing lanes along the alignment will allow motorist to pass slow and heavy loaded vehicles safely and more efficiently. Access routes along the alignment used by adjacent farmers and residents will also be upgraded and made safer. Stormwater management will become more efficient as it forms part of the upgrade and in return will mitigate erosion. All the material of the existing road will be demolished and reused in the construction process.

In addition to the above cumulative impact, the proposed upgrade is likely to positively impact local residents/farmers/PPC as their transport and travel costs will be reduced due to, for example, reduced wear and tear on their vehicles. This is likely to furthermore assist in contributing to the economic profitability of farming in the region. Financial expenditure for frequent maintenance will be less as the maintenance of the constantly deteriorating road surface will not be required.

**12. IMPACT SUMMARY OF PREFERRED ALTERNATIVE**

Having assessed the significance of impacts of the various alternatives, please provide an overall summary and reasons for selecting the preferred alternative.

The upgrade of the TR 25/MR 25 is, in general, supported by the residents and surrounding farmers. The upgrade itself is likely to result in limited construction related impacts which can be mitigated by the implementation of the construction EMP. The most significant impact on the environment of the preferred route will be the widening of the bridge crossing the Riebeek River and the construction of the additional climbing lane on vegetation along the alignment. Adjacent heritage buildings will not be negatively impacted on.

Despite the negative impacts of the construction phase on the environment associated with the construction phase there are significant positive impacts to residents, farmers and PPC as well as visitors to the region. A1 is considered to provide significant safety improvements over the "no-go option" while providing both social and economic benefits to the region.

**13. RECOMMENDATION OF ENVIRONMENTAL ASSESSMENT PRACTITIONER**

In my view (EAP), the information contained in this application form and the documentation attached hereto is sufficient to make a decision in respect of the activity applied for.	<b>YES</b>	NO
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If "NO", list the aspects that should be further assessed through additional specialist input/assessment or whether this application must be subjected to a Scoping process before a decision can be made:

Not Applicable

If "YES", please list recommended conditions, including mitigation measures, that should in your view be considered for inclusion in an authorisation if the activity is authorised by the competent authority:

- Mitigation measures, in the form of the EMP, must be implemented during the construction phase.
- The EMP and RoD must be implemented by the Contractor and or any Sub-contractors.
- Due care and responsibility must be applied by the Contractor when conducting works in alignment with the EMP by the Contractor.
- An Environmental Control Officer (ECO) must be appointed by the client to monitor the implementation of the RoD and EMP.
- All waste must be disposed of at a registered waste disposal site.
- Construction must take place during normal working hours. No construction activities will be permitted over weekday evenings, weekends and public holidays.

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- If work is to be undertaken outside normal working hours, permission must be obtained from the Legal Authorities.
- Overall compliance with legislation requirements must be monitored.
- Rehabilitation must be done to specified requirements, or to the initial state.
- A forum for communication with local residents can be established.
- A complaints form to be established for the construction phase to enable residents to obtain rapid response to the construction phase problems and nuisance.

## APPENDICES

The following appendices must be attached where appropriate:

Appendix	Tick ("✓") box if Appendix is attached
Appendix A: Location map	✓
Appendix B: Site plan(s)	✓
Appendix C: <del>Owner(s) consent(s)</del> Landowner notifications	✓
Appendix D: Photographs	✓
Appendix E: Public participation information: including a copy of the register of interested and affected parties, the comments and responses report, proof of notices, advertisements and any other public participation information as required in Section C above.	✓
Appendix F: Permit(s) / license(s) from any other organ of state including service letters from the municipality	In progress
Appendix G: Specialist Report(s)	In progress
Appendix H: Environmental Management Programme (Generic and Project Specific)	✓
Appendix I: Draft Engineer Drawings	✓

Please note:

The following specialist studies and supporting documentation will be included in the final Basic Assessment Report (BAR) for the proposed upgrade of the TR25/MR25, Malmesbury:

- Water use license application submitted to the Department of Water Affairs (DWA);
- Freshwater Ecological Assessment (supporting report for the water use license application for the bridge widening crossing the Riebeek River);
- Traffic Impact Assessment;
- Geotechnical Study;
- Hydrological Assessment;
- Empowerment Impact Assessment; and
- Notice on Intent to Develop submitted to the South African Heritage Resources Agency (SAHRA) and Heritage Western Cape (HWC).

All comments received from Interested and Affected Parties on this report will be updated in the Comment and Response Report.

## DECLARATIONS

### The Applicant

I....., in my personal capacity or duly authorized thereto hereby declare that:

- The information contained in this application form is true and correct, and
- I am fully aware of my responsibilities in terms of the National Environmental Management Act of 1989 (“NEMA”) (Act No. 107 of 1998) and the Environmental Impact Assessment Regulations (“EIA Regulations”) in terms of NEMA (Government Notice No. R. 385, R. 386, and R. 387 in the Government Gazette of 21 April 2006 refer), and that failure to comply with these requirements may constitute an offence in terms of NEMA and the EIA Regulations.

**Note:** If acting in a representative capacity, a certified copy of the resolution or power of attorney must be attached.

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Signature of the applicant:

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Name of company:

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Date:

### The independent Environmental Assessment Practitioner

I ....., as the appointed independent environmental practitioner hereby declare that:

- The information contained in this application form is true and correct, and
- I am fully aware of my responsibilities in terms of the National Environmental Management Act of 1989 (“NEMA”) (Act No. 107 of 1998) and the Environmental Impact Assessment Regulations (“EIA Regulations”) in terms of NEMA (Government Notice No. R. 385, R. 386, and R. 387 in the Government Gazette of 21 April 2006 refer), and that failure to comply with these requirements may constitute an offence in terms of NEMA and the EIA Regulations.

**Note:** The terms of reference must be attached.

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Signature of the environmental practitioner:

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Name of company:

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Date: