



## BASIC ASSESSMENT REPORT IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT NO. 107 OF 1998) AND ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2014 (AS AMENDED)

October 2017

#### **PROJECT TITLE**

#### PROPOSED CONSTRUCTION OF A RESERVOIR ON ERF 1241, ROBERTSON

#### [September 2018]

REPORT TYPE CATEGORY	REPORT REFERENCE NUMBER	DATE OF REPORT
Pre-Application Basic Assessment Report (if applicable) <sup>1</sup>	NA	NA
Draft Basic Assessment Report <sup>2</sup>		
Final Basic Assessment Report <sup>3</sup> or, if applicable Revised Basic Assessment Report <sup>4</sup> (strikethrough what is not applicable)		

#### Notes:

- 1. In terms of Regulation 40(3) potential or registered interested and affected parties, including the Competent Authority, may be provided with an opportunity to comment on the Basic Assessment Report prior to submission of the application but must again be provided an opportunity to comment on such reports once an application has been submitted to the Competent Authority. The Basic Assessment Report released for comment prior to submission of the application is referred to as the "Pre-Application Basic Assessment Report". The Basic Assessment Report made available for comment after submission of the application is referred to as the "Draft Basic Assessment Report". The Basic Assessment Report together with all the comments received on the report which is submitted to the Competent Authority for decision-making is referred to as the "Final Basic Assessment Report".
- 2. In terms of Regulation 19(1)(b) if significant changes have been made or significant new information has been added to the Draft Basic Assessment Report, which changes or information was not contained in the Draft Basic Assessment Report consulted on during the initial public participation process, then a Final Basic Assessment Report will not be submitted, but rather a "Revised Basic Assessment Report", which must be subjected to another public participation process of at least 30 days, must be submitted to the Competent Authority together with all the comments received.

#### **DEPARTMENTAL REFERENCE NUMBER(S)**

Pre-application reference number:	NA
File reference number (EIA):	NA
NEAS reference number (EIA):	NA
File reference number (Waste):	NA
NEAS reference number (Waste):	NA
File reference number (Air Quality):	NA
NEAS reference number (Air Quality):	NA
File reference number (Other):	NA
NEAS reference number (Other):	NA

#### **CONTENT AND GENERAL REQUIREMENTS**

#### Note that:

- 1. The content of the Department's Circular EADP 0028/2014 (dated 9 December 2014) on the "One Environmental Management System" and the Environmental Impact Assessment ("EIA") Regulations, 2014 (as amended), any subsequent Circulars, and guidelines must be taken into account when completing this Basic Assessment Report Form.
- 2. This Basic Assessment Report is the standard report format which, in terms of Regulation 16(3) of the EIA Regulations, 2014 (as amended) must be used in all instances when preparing a Basic Assessment Report for Basic Assessment applications for an environmental authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA") and the EIA Regulations, 2014 (as amended) and/or a waste management licence in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) ("NEM:WA"), and/or an atmospheric emission licence in terms of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) ("NEM:AQA") when the Western Cape Government: Environmental Affairs and Development Planning ("DEA&DP") is the Competent Authority/Licensina Authority.
- 3. This report form is current as of October 2017. It is the responsibility of the Applicant/ Environmental Assessment Practitioner ("EAP") to ascertain whether subsequent versions of the report form have been released by the Department. Visit the Department's website at <a href="http://www.westerncape.gov.za/eadp">http://www.westerncape.gov.za/eadp</a> to check for the latest version of this checklist.
- 4. The required information must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The tables may be expanded where necessary.
- 5. The use of "not applicable" in the report must be done with circumspection. All applicable sections of this report form must be completed. Where "not applicable" is used, this may result in the refusal of the application.
- 6. While the different sections of the report form only provide space for provision of information related to one alternative, if more than one feasible and reasonable alternative is considered, the relevant section must be copied and completed for each alternative.
- 7. Unless protected by law, all information contained in, and attached to this report, will become public information on receipt by the competent authority. If information is not submitted with this report due to such information being protected by law, the applicant and/or EAP must declare such non-disclosure and provide the reasons for believing that the information is protected.
- 8. Unless otherwise indicated by the Department, one hard copy and one electronic copy of 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. Reasonable access to copies of this report must be provided to the relevant Organs of State for consultation purposes, which may, if so indicated by the Department, include providing a printed copy to a specific Organ of State.
- 9. This Report must be submitted to the Department and the contact details for doing so are provided below.
- Where this Department is also identified as the Licencing Authority to decide applications under NEM:WA or NEM:AQA, the submission of the Report must also be made as follows, for-
  - Waste management licence applications, this report must <u>also</u> (i.e., another hard copy and electronic copy) be submitted <u>for the attention</u> of the Department's Waste Management Directorate (tel: 021-483-2756 and fax: 021-483-4425) at the same postal address as the Cape Town Office.
  - Atmospheric emissions licence applications, this report must <u>also</u> be (i.e., another hard copy and electronic copy) submitted <u>for the attention</u> of the Licensing Authority or this Department's Air Quality Management Directorate (tel: 021 483 2798 and fax: 021 483 3254) at the same postal address as the Cape Town Office.

#### **DEPARTMENTAL DETAILS**

CAPE TO	GEORGE REGIONAL OFFICE	
REGION 1 (City of Cape Town & West Coast District)	REGION 2 (Cape Winelands District & Overberg District)	REGION 3 (Central Karoo District & Eden District)
Department of Environmental Affairs and Development Planning Attention: Directorate: Development Management (Region 1) Private Bag X 9086 Cape Town, 8000	Department of Environmental Affairs and Development Planning Attention: Directorate: Development Management (Region 2) Private Bag X 9086 Cape Town, 8000	Department of Environmental Affairs and Development Planning Attention: Directorate: Development Management (Region 3) Private Bag X 6509 George, 6530
Registry Office 1#-Floor Utilitas Building 1 Dorp Street, Cape Town	Registry Office 1st Floor Utilitas Building 1 Dorp Street, Cape Town	Registry Office  4 <sup>th</sup> Floor, York Park Building  93 York Street  George
Queries should be directed to the Directorate: Development Management (Region 1) at: Tel.: (021) 483-5829 Fax: (021) 483-4372	Queries should be directed to the Directorate: Development Management (Region 2) at: Tel.: (021) 483-5842 Fax: (021) 483-3633	Queries should be directed to the Directorate: Development Management (Region 3) at: Tel.: (044) 805-8600 Fax: (044) 805-8650

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#### ACRONYMS USED IN THIS BASIC ASSESSMENT REPORT AND APPENDICES:

BAR	Basic Assessment Report
CBA	Critical Biodiversity Area
DEA	National Department of Environmental Affairs
DEA&DP	Western Cape Government: Environmental Affairs and Development Planning
DWS	National Department of Water and Sanitation
EIA	Environmental Impact Assessment
EMPr	Environmental Management Programme
ESA	Ecological Support Area
HWC	Heritage Western Cape
I&APs	Interested and Affected Parties
NEMA	National Environmental Management Act, 1998 (Act No. 107 of 1998)
NEM:AQA	National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004)
NEM:ICMA	National Environmental Management: Integrated Coastal Management Act, 2008 (Act No. 24 of 2008)
NEM:WA	National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008)
NHRA	National Heritage Resources Act, 1999 (Act No. 25 of 1999)
PPP	Public Participation Process

#### **DETAILS OF THE APPLICANT**

Applicant / Organisation / Organ of State:	Langeberg Municipality		
Contact person:	Municipal Manager		
Postal address:	Private Bag, Ashton		
Telephone:	(023) 615 8001 Postal Code: 6715		
Cellular:	NA Fax: (023) 615 1563		
E-mail:	mm@langeberg.gov.za		

#### DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER ("EAP")

Name of the EAP organisation:	Eco Impact Legal Consulting (Pty) Ltd			
Person who compiled this Report:	Jessica Hansen			
EAP Reg. No.:	400192/16			
Contact Person (if not author):	NA			
Postal address:	PO Box 45070			
Telephone:	( 021 ) 671 1660	Postal Code:	7735	
Cellular:	· · ·			
E-mail:	admin@ecoimpact.co.za			
EAP Qualifications:	Jessica has a BSc (Honours) in Environmental and Geographical Science in 2011 from the University of Cape Town and subsequently obtained her MSc in Zoology in 2013. Jessica has worked as an Environmental Assessment Practitioner since August 2013 and has been			

Please provide details of the lead EAP, including details on the expertise of the lead EAP responsible for the Basic Assessment process. Also attach his/her Curriculum Vitae to this BAR.

Jessica Hansen has completed her professional registration in terms of section 20(3) (b) of the Natural Scientific Professions Act, 2003 (Act 27 of 2003) as a Professional Natural Scientist in the field of practice Environmental Science (Registration number 400192/16). She obtained her BSc (Honours) in Environmental and Geographical Science in 2011 from the University of Cape Town and subsequently obtained her MSc in Zoology (Applied Marine Science) in 2013. Jessica has trained as an Environmental Assessment Practitioner since August 2013 and has been involved in the compilation, coordination and management of Basic Assessment Reports, Environmental Impact Assessments, Environmental Management Programmes, Waste Licence Applications, Water Use Licence Applications and Baseline Biodiversity Surveys for numerous clients.

See appendix K.

#### **EXECUTIVE SUMMARY OF THE BASIC ASSESSMENT REPORT:**

The project proposes the construction of a 3.0 M $\ell$  reservoir and associated infrastructure to augment reservoir storage capacity at the Robertson no. 3 reservoir. Dimension: inside diameter = 30m; depth = approx. 4.5metres and the total height = approx. 5 metres.

The reservoir will be a round 30 diameter concrete structure with an estimated 50mx50m fenced off area for excavations and the fence itself. The pipeline will follow the same route as the existing pipeline route and will linked to existing services and infrastructure.

#### **Alternatives**

**Location alternatives** - No other property alternatives were assessed as no feasible or reasonable property alternative exists. The proposed reservoir is situated next to the existing reservoir 3 in Robertson. Due to the need for water storage capacity in the surrounding community and the existing access road to reservoir 3, this was the only reasonable option. The proposed location of the reservoir will be adjacent to the existing reservoir.

The following factors deemed the proposed alternative the only reasonable and feasible option:

- Proximity of the proposed reservoir sites in relation to the local communities of Robertson;
- Availability of and proximity to existing pipelines and reservoirs;
- Ability to connect to existing infrastructure;
- Existing access routes;
- Minimum impact on indigenous vegetation; and
- Height above mean sea level of the sites to allow for the use of gravity mains.

**Activity alternatives** – The establishment of a 3.0 Ml reservoir and associated infrastructure on Erf 1241 Robertson is the only activity alternative assessed to augment existing water storage capacity for local communities of Robertson and future housing developments. This activity is the preferred option because it meets the need and desirability as manifested by the Robertson community.

**Layout alternatives** - The layout takes into consideration the requirement for bulk services and the need for increase water storage capacity for the surrounding communities. The current capacity of the existing Robertson reservoir no. 3 is 2 000kll, which results in a current reservoir storage capacity of 82,5 hours of the annual average daily demand (AADD). With all vacant erven occupied the storage capacity however decreases to 42,6 hours of the AADD of the supply zone. Augmentation of the storage capacity at the Robertson reservoir no.3 is therefore required in order to accommodate for future housing developments.

**Technology alternatives -** No other technology alternatives were considered, as the proposed project is for the establishment of a 3.0 Ml reservoir with associated infrastructure.

**Operational alternatives -** Once operational, the only activities that will be undertaken are related to maintenance and upkeep of the reservoir and associated infrastructure.

#### Impacts Identified -

- Soil erosion and dust (low impact before mitigation and low impact with mitigation measures);
- Noise (low impact before mitigation and low impact with mitigation measures);
- Increase in temporary jobs positive;
- Habitat fragmentation and loss of ecological connectivity (medium impact before mitigation and medium impact with mitigation measures).

#### **SECTION A: PROJECT INFORMATION**

#### 1. ACTIVITY LOCATION

Location of all proposed sites:	The site is situated on the hill on the eastern boundary of Robertson and located at the existing reservoir.
Farm / Erf name(s) and number(s) (including Portions thereof) for each proposed site:	Erf 1241
Property size(s) in m <sup>2</sup> for each proposed site:	775935.6
Development footprint size(s) in m <sup>2</sup> :	2500
Surveyor General (SG) 21- digit code for each proposed site:	C0650003000012400000

#### 2. PROJECT DESCRIPTION

(a) Is the project a new development? If "NO", explain:	YES	<del>O</del> 4
NA		

(b) Provide a detailed description of the scope of the proposed development (project).

The project proposes the construction of a 3.0 Ml reservoir and associated infrastructure to augment reservoir storage capacity at the Robertson no. 3 reservoir. Dimension: inside diameter = 30m; depth = approx. 4.5metres and the total height = approx. 5 metres.

The reservoir will be a round 30 diameter concrete structure with an estimated 50mx50m fenced off area for excavations and the fence itself. The pipeline will follow the same route as the existing pipeline route and will linked to existing services and infrastructure.

Please note: This description must relate to the listed and specified activities in paragraph (d) below.

(c) Please indicate the following periods that are recommended for inclusion in the environmental authorisation:

(i)	the period within which commencement must occur,	5 years from EA granted
(ii)	the period for which the environmental authorisation should be granted and the date by which the activity must have been concluded, where the environmental authorisation does not include operational aspects;	10 years
(iii)	the period that should be granted for the non-operational aspects of the environmental authorisation; and	10 years
(iv)	the period that should be granted for the operational aspects of the environmental authorisation.	No operational aspects of EA

**Please note**: The Department must specify the abovementioned periods, where applicable, in an environmental authorisation. In terms of the period within which commencement must occur, the period must not exceed 10 years and must not be extended beyond such 10-year period, unless the process to amend the environmental authorisation contemplated in regulation 32 is followed.

(d) List all the listed activities triggered and being applied for.

**Please note**: The onus is on the applicant to ensure that all the applicable listed activities are applied for and assessed as part of the EIA process. Please refer to paragraph (b) above.

EIA Regulations Listing Notices 1 and 3 of 2014 (as amended):

Listed Activity No(s):	Describe the relevant Basic Assessment Activity(ies) in writing as per Listing Notice 1 (GN No. R. 983)	Describe the portion of the development that relates to the applicable listed activity as per the project description.	Identify if the activity is development / development and operational / decommissioning / expansion / expansion and operational.
NA			
Listed Activity No(s):	Describe the relevant Basic Assessment Activity(ies) in writing as per Listing Notice 3 (GN No. R. 985)	Describe the portion of the development that relates to the applicable listed activity as per the project description.	Identify if the activity is development / development and operational / decommissioning / expansion / expansion and operational.
2	The development of reservoirs, excluding dams, with a capacity of more than 250 cubic metres i. Western Cape ii.In areas containing indigenous vegetation	Construction of a 3 mega litre reservoir	Development

Waste management activities in terms of the NEM: WA (GN No. 921):

Category A	Describe the relevant <u>Category A</u> waste	Describe the portion of the development that relates
Listed	management activity in writing as per GN No. 921	to the applicable listed activity as per the project
Activity		description
No(s):		
NA		

Note: If any waste management activities are applicable, the Listed Waste Management Activities Additional Information
Annexure must be completed and attached to this Basic Assessment Report as Appendix I.

Atmospheric emission activities in terms of the NEM: AQA (GN No. 893):

Listed	Describe the relevant atmospheric emission activity in	Describe the portion of the development that relates
Activity	writing as per GN No. 893	to the applicable listed activity as per the project
No(s):		description.
NA		

(e) Provide details of all components (including associated structures and infrastructure) of the proposed development and attach diagrams (e.g., architectural drawings or perspectives, engineering drawings, process flowcharts, etc.).

Buildings Provide brief description below:	YES	NO					
NA	I .						
Infrastructure (e.g., roads, power and water supply/ storage) Provide brief description below:	YES	ОИ					
Bulk supply: Dedicated bulk supply pipelines							
Item 2: 865m x 250 mm new dedicated bulk supply pipeline. Note – only 150m of the new pipeline is							
outside the built environment/urban edge.							
The Municipality intends to upgrade a number of pipelines etc. as detailed in Appendix K (GLS).							
However, these to not trigger any listed activities.							
Processing activities (e.g., manufacturing, storage, distribution)	YES	NO					
Provide brief description below:							
NA Storage facilities for raw materials and products (e.g., volume and substances to be stored)	I						
Provide brief description below:	YES	NO					
NA	I.						
Storage and treatment facilities for effluent, wastewater or sewage: Provide brief description below:	YES	NO					
NA							
Storage and treatment of solid waste	VEC	NO					
Provide brief description below:	¥E\$	NO					
NA							
Facilities associated with the release of emissions or pollution.	YES	NO					
Provide brief description below:							
NA  Other patrictics (a grounder platration applicities are planting patrictics)	1						
Other activities (e.g., water abstraction activities, crop planting activities) – Provide brief description below:	YES	NO					
NA	l.						

#### 3. PHYSICAL SIZE OF THE PROPOSED DEVELOPMENT

(a) Property size(s): Indicate the size of all the properties (cadastral units) on which the development proposal is to be undertaken	775935.6	m²
(b) Size of the facility: Indicate the size of the facility where the development proposal is to be undertaken	<u>+-</u> 2500	m²
(c) Development footprint: Indicate the area that will be physically altered as a result of undertaking any development proposal (i.e., the physical size of the development together with all its associated structures and infrastructure)	<u>+-</u> 2500	m²
(d) Size of the activity: Indicate the physical size (footprint) of the development proposal	<u>+-</u> 2500	m²
(e) For linear development proposals: Indicate the length (L) and width (W) of the development	<del>(L)</del>	m
proposal	<del>(W)</del>	m
(f) For storage facilities: Indicate the volume of the storage facility	3000	m³
(g) For sewage/effluent treatment facilities: Indicate the volume of the facility (Note: the maximum design capacity must be indicated	NA	m³

#### 4. SITE ACCESS

(a) Is there an existing access road?	YES	NO
(b) If no, what is the distance in (m) over which a new access road will be built?		NAm

(c) Describe the type of access road planned:

NA

Please note: The position of the proposed access road must be indicated on the site plan.

## 5. DESCRIPTION OF THE PROPERTY(IES) ON WHICH THE LISTED ACTIVITY(IES) ARE TO BE UNDERTAKEN AND THE LOCATION OF THE LISTED ACTIVITY(IES) ON THE PROPERTY

5.1 Provide a description of the property on which the listed activity(ies) is/are to be undertaken and the location of the listed activity(ies) on the property, as well as of all alternative properties and locations (duplicate section below as required).

The property on which the establishment of the 3.0 Ml reservoir with associated infrastructure is proposed has a moderate to steep slope and is situated on a plato area on the hill. The hill is located east of muller street, which is located on the eastern portion of the town of Robertson. The surrounding areas have steep slopes. The highest point of the site is ±277m and the lowest ±248m above mean sea level. There is currently one existing reservoir on the hill (reservoir 3) with a total capacity of 2000 kl, but due to additional housing proposed at Robertson water demands will increase and therefore additional water storage facilities with associated infrastructure is required. The pipeline route was previously disturbed during the construction of the current pipe. The natural vegetation remaining on site is in a moderate condition.

Coordinates of all the proposed activities on	Latitude (S): (deg.; min.; sec)			Longitude (E): (deg.; min.; sec.)		
the property or properties (sites):	33°	47'	3.1"	33°	53'	49.8"

**Note:** For land where the property has not been defined, the coordinates of the area within which the development is proposed must be provided in an addendum to this report.

5.2 Provide a description of the area where the aquatic or ocean-based activity(ies) is/are to be undertaken and the location of the activity(ies) and alternative sites (if applicable).

NA

	Latitude (S):	(deg.; min.;	sec)	Longitude (E	<b>):</b> (deg.; min.;	sec)
Coordinates of the boundary /perimeter of	٥	-	=	0	•	=
all proposed aquatic or ocean-based	0	•	"	0	•	"
activities (sites) (if applicable):	٥	•	"	0	'	"
	0	•	"	0	•	"

5.3 For a linear development proposal, please provide a description and coordinates of the corridor in which the proposed development will be undertaken (if applicable).

NA

For linear activities:	Latitude (\$): (deg.; min.; sec)			Longitude (E): (deg.; min.; sec)		
Starting point of the activity	0		"	0		"
Middle point of the activity	0		"	0		"
End point of the activity	0		"	0		"

**Note:** For linear development proposals longer than 1000m, please provide an addendum with co-ordinates taken every 250m along the route. All important waypoints must be indicated and the GIS shape file provided digitally.

Provide a location map (see below) as **Appendix A** to this report that shows the location of the proposed development and associated structures and infrastructure on the property; as well as a detailed site development plan / site map (see below) as **Appendix B** to this report; and if applicable, all alternative properties and locations. The GIS shape files (.shp) for maps / site development plans must be included in the electronic copy of the report submitted to the competent authority.

The scale of the locality map must be at least 1:50 000.

For linear development proposals of more than 25 kilometres, a smaller scale e.g., 1:250 000 can be used. The scale must be indicated on the map.

The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- road names or numbers of all the major roads as well as the roads that provide access to the site(s)
- a north arrow:
- a legend;
- Locality Map:
- a linear scale;
  the prevailing wind direction (during November to April and during May to October); and
- GPS co-ordinates (to indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have 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).

For an ocean-based or aquatic activity, the coordinates must be provided within which the activity is to be undertaken and a map at an appropriate scale clearly indicating the area within which the activity is to be undertaken.

Coordinates must be provided in degrees, minutes and seconds using the Hartebeesthoek94; WGS84 coordinate system.

Detailed site development plan(s) must be prepared for each alternative site or alternative activity. The site plans must contain or conform to the following:

- The detailed site plan must preferably be at a scale of 1:500 or at an appropriate scale. The scale must be indicated on the plan, preferably together with a linear scale.
- The property boundaries and numbers of all the properties within 50m of the site must be indicated on the site plan.
- The current land use (not zoning) as well as the land use zoning of each of the adjoining properties must be indicated on the site plan.
- The position of each element of the application as well as any other structures on the site must be indicated on the site plan.
- Services, including electricity supply cables (indicate aboveground or underground), water supply
  pipelines, boreholes, sewage pipelines, storm water infrastructure and access roads that will form part of
  the development must be indicated on the site plan.

• Servitudes and an indication of the purpose of each servitude must be indicated on the site plan.

- Sensitive environmental elements within 100m of the site must be included on the site plan, including (but not limited to):
  - Watercourses / Rivers / Wetlands including the 32-meter set back line from the edge of the bank of a river/stream/wetland;
  - o Flood lines (i.e., 1:100 year, 1:50 year and 1:10 year where applicable;
  - Ridges;
  - Cultural and historical features;
  - o Areas with indigenous vegetation (even if degraded or infested with alien species).
- Whenever the slope of the site exceeds 1:10, a contour map of the site must be submitted.
- North arrow

A map/site plan must also be provided at an appropriate scale, which superimposes the proposed development and its associated structures and infrastructure on the environmental sensitivities of the preferred and alternative sites indicating any areas that should be avoided, including buffer areas. The GIS shape file for the site development plan(s) must be submitted digitally.

#### 6. SITE PHOTOGRAPHS

Colour photographs of the site and its surroundings (taken on the site and taken from outside 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 as **Appendix C** to this report. The aerial photograph(s) 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.

#### SECTION B: DESCRIPTION OF THE RECEIVING ENVIRONMENT

#### Site/Area Description

For linear development proposals (pipelines, etc.) as well as development proposals 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 that is covered by each copy on the Site Plan.

#### 1. GRADIENT OF THE SITE

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

Hat Hatter than 1:10 1:10 - 1:4 Steeper than 1:4	<del>Flat</del>	Flatter than 1:10		Steeper than 1:4
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#### 2. LOCATION IN LANDSCAPE

(a) Indicate the landform(s) that best describes the site (highlight the appropriate box(es).

Pidaolino	Plateau	Side slope of	Closed	<del>Open</del>	Plain	<del>Undulating</del>	Dune	<del>Sea-front</del>
Ridgeline	FIGIECO	hill / mountain	<del>valley</del>	<del>valley</del>	Plain	<del>plain/low hills</del>	<del>- Боне</del>	<del>36u-110111</del>

(b) Provide a description of the location in the landscape.

The property on which the establishment of the 3.0  $M\ell$  reservoir with associated infrastructure is proposed has a moderate to steep slope and is situated on a plato area on the hill. The hill is located east of muller street, which is located on the eastern portion of the town of Robertson. The surrounding areas have steep slopes. The highest point of the site is  $\pm 277m$  and the lowest  $\pm 248m$  above mean sea level. There is currently one existing reservoir (reservoir no. 3) on the hill with a total capacity of 2000  $k\ell$ , but due to additional housing proposed at Robertson water demands will increase and therefore additional water storage facilities with associated infrastructure is required. The pipeline route was previously disturbed during the construction of the current pipe. The natural vegetation remaining on site is in a moderate condition.

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

(a) Is the site(s) located on or near any of the following (highlight the appropriate boxes)?

Shallow water table (less than 1.5m deep)	YES	NO	UNSURE
Seasonally wet soils (often close to water bodies)	<del>YES</del>	NO	UNSURE
Unstable rocky slopes or steep slopes with loose soil	<del>YES</del>	NO	UNSURE
Dispersive soils (soils that dissolve in water)	<del>YES</del>	NO	UNSURE
Soils with high clay content	<del>YES</del>	NO	UNSURE
Any other unstable soil or geological feature	<del>YES</del>	NO	UNSURE
An area sensitive to erosion	<del>YES</del>	NO	UNSURE
An area adjacent to or above an aquifer.	¥E\$	NO	UNSURE
An area within 100m of a source of surface water	¥E\$	NO	UNSURE
An area within 500m of a wetland	<del>YES</del>	NO	UNSURE
An area within the 1:50 year flood zone	<del>YES</del>	NO	UNSURE
A water source subject to tidal influence	YES	NO	UNSURE

<sup>(</sup>b) If any of the answers to the above is "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. The 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

(c) Indicate the type of geological formation underlying the site.

Granite	Shale	Sandstone	<del>Quartzite</del>	Dolomite	Dolorite	Other (describe)
Provide a description.						

#### Soil

The site is underlain by geological formations derived from shales (Ecological Impact Assessment-Appendix G). Prismacutanic and/or pedocutanic diagnostic horizons dominant, mainly red B horizons (Reference: Cape farm mapper, Soils and Geology resource layer 09/2018).

#### Geology

Mainly conglomerate with sandstone, siltstone and mudstone of the Enon Formation, Uitenhage Group. (Reference: Cape farm mapper, Soils and Geology resource layer 09/2018.

#### 4. SURFACE WATER

(a) Indicate the surface water present on and or adjacent to the site and alternative sites (highlight the appropriate boxes)?

Perennial River	YES	NO	UNSURE
Non-Perennial River	YES	NO	UNSURE
Permanent Wetland	YES	NO	UNSURE
Seasonal Wetland	YES	NO	UNSURE
Artificial Wetland	YES	NO	UNSURE
Estuarine / Lagoon	YES	NO	UNSURE

(b) Provide a description.

N/A

#### 5. THE SEAFRONT / SEA

(a) Is the site(s) located within any of the following areas? (highlight the appropriate boxes).

If the site or alternative site is closer than 100m to such an area, please provide the approximate distance in (m).

AREA	YES	NO	UNSURE	If "YES": Distance to nearest area (m)
An area within 100m of the high water mark of the sea	YES	NO	UNSURE	
An area within 100m of the high water mark of an estuary/lagoon	YES	NO	UNSURE	
An area within the littoral active zone	YES	NO	UNSURE	
An area in the coastal public property	YES	NO	UNSURE	
Major anthropogenic structures	YES	NO	UNSURE	
An area within a Coastal Protection Zone	YES	NO	UNSURE	
An area seaward of the coastal management line	YES	NO	UNSURE	
An area within the high risk zone (20 years)	YES	NO	UNSURE	
An area within the medium risk zone (50 years)	YES	NO	UNSURE	
An area within the low risk zone (100 years)	YES	NO	UNSURE	
An area below the 5m contour	YES	NO	UNSURE	
An area within 1km from the high water mark of the sea	YES	NO	UNSURE	
A rocky beach	YES	NO	UNSURE	
A sandy beach	YES	NO	UNSURE	

<sup>(</sup>b) If any of the answers to the above is "YES" or "UNSURE", specialist input may be requested by the Department. (The 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

#### 6. BIODIVERSITY

Note: The Department may request specialist input/studies depending on the nature of the biodiversity occurring on the site and potential impact(s) of the proposed development. To assist with the identification of the <u>biodiversity</u> occurring on site and the <u>ecosystem status</u>, consult <a href="http://bgis.sanbi.org">http://bgis.sanbi.org</a> or <a href="mailto:BGIShelp@sanbi.org">BGIShelp@sanbi.org</a>. Information is also available on compact disc ("cd") from the Biodiversity-GIS Unit, Tel.: (021) 799 8698. This information may be updated from time to time and it is the applicant/ EAP's responsibility to ensure that the latest version is used. A

map of the relevant biodiversity information (including an indication of the habitat conditions as per (b) below) must be provided as an overlay map on the property/site plan as **Appendix D** to this report.

(a) Highlight the applicable biodiversity planning categories of all areas on preferred and alternative sites and indicate the reason(s) provided in the biodiversity plan for the selection of the specific area as part of the specific category. Also describe the prevailing level of protection of the Critical Biodiversity Area ("CBA") and Ecological Support Area ("ESA") (how many hectares / what percentages are formally protected).

Systematic Biodiversity Planning Category	CBA	ESA	Other Natural Area ("ONA")	No Natural Area Remaining ("NNR")
If CBA or ESA, indicate the reason(s) for its selection in biodiversity plan and the conservation management objectives	ONA is areas not currently identified as a priority, but retain most of their natural character and perform a range of biodiversity and ecological infrastructure functions. Although not prioritised, they are still an important part of the natural ecosystem. The management objectives are to minimize habitat and species loss and ensure ecosystem functionality through strategic landscape planning.			
Describe the site's CBA/ESA quantitative values (hectares/percentage) in relation to the prevailing level of protection of CBA and ESA (how many hectares / what percentages are formally protected locally and in the province)	NA			

(b) Highlight and describe the habitat condition on site.

Habitat Condition	Percentage of habitat condition class (adding up to 100%) and area of each in square metre (m²)		Description and additional comments and observations (including additional insight into condition, e.g. poor land management practises, presence of quarries, grazing/harvesting regimes, etc.)
Natural	100%	2500m²	The 50 by 50m proposed fenced area consisits of natural vegetation in a moderate condition. No threatened or protected species were recorded on the site. The site is not classified as a Critically Biodiversity Area or Ecological Support area and not identified for conservation purposes.
Near Natural (includes areas with low to moderate level of alien invasive plants)	0%	m²	
Degraded (includes areas heavily invaded by alien plants)	0%	m²	
Transformed (includes cultivation, dams, urban, plantation, roads, etc.)	0%	m²	

- (c) Complete the table to indicate:
  - (i) the type of vegetation present on the site, including its ecosystem status; and
  - (ii) whether an aquatic ecosystem is present on/or adjacent to the site.

Terrestrial Ecosystems		Description of Ecosystem, Vegetation Type, Original Extent, Threshold (ha, %), Ecosystem Status
	<u>Critically</u>	
Ecosystem threat status as per the National Environmental	Endangered	
Management: Biodiversity Act, 2004 (Act No. 10 of 2004)	<del>Vulnerable</del>	
	Least Threatened	Breede Shale Renosterveld (Reference: Western Cape Biodiversity Spatial Plan 2017).

Aquatic Ecosys	stems					
channelled an	ding rivers, depr d unchannelled nd artificial wetla	l wetlands, flats,	Estu	Jary		Coastline
YES	NO	UNSURE	YES	NO	YES	NO

(d) Provide a description of the vegetation type and/or aquatic ecosystem present on the site, including any important biodiversity features/information identified on the site (e.g. threatened species and special habitats). Clearly describe the biodiversity targets and management objectives in this regard.

The site is not classified as a Critically Biodiversity Area or Ecological Support Area. The site is classified as an "other natural area" and had been impacted upon as a result of the existing reservoir no. 3. The site vegetation is characterised as Breede Shale Renosterveld (Least Threatened). The natural vegetation remaining on site is in a moderate condition. No threatened or protected species were recorded on the site.

#### **Biodiversity targets and management objectives (ONAs)**

Restrict development to impact area throughout construction phase, ensuring that no areas outside of the proposed development footprint area are further disturbed. Top soil of disturbed areas must be spread over exposed areas and vegetation (branches of surrounding shrubs) must be cut and spread over the exposed areas. Erosion must be monitored and the area rehabilitated and stabilized as soon as signs of erosions occur. (See Appendix G)

#### 7. LAND USE OF THE SITE

**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 development.

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 and Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical centre	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes and 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	Archaeological site
Other land uses (describe):				

(a) Provide a description.

Currently vacant unused municipal land that is zoned undertermined. Adjacent to existing reservoir.

#### 8. LAND USE CHARACTER OF THE SURROUNDING AREA

(a) Highlight 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.

**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 development.

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 and Hospitality facility
Open cast mine	Underground mine	Spoil heap or slimes dam	Quarry, sand or borrow pit	Dam or reservoir
Hospital/medical centre	School	Tertiary education facility	Church	Old age home
Sewage treatment plant	Train station or shunting yard	Railway line	Major road (4 lanes and 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	Archaeological site
Other land uses (describe):	The site is bordered by formal housing, high density residential area and a mountain / koppie. The Droë River, a tributary of the Bree River flows approximately 270m north of the proposed development area.			

(b) Provide a description, including the distance and direction to the nearest residential area, industrial area, agri-industrial area.

residential area – 150 m (south west) industrial area – 3km (south-south west) agri-industrial – 1km (south east)

#### 9. SOCIO-ECONOMIC ASPECTS

a) Describe the existing social and economic characteristics of the community in the vicinity of the proposed site, in order to provide baseline information (for example, population characteristics/demographics, level of education, the level of employment and unemployment in the area, available work force, seasonal migration patterns, major economic activities in the local municipality, gender aspects that might be of relevance to this project, etc.).

Langeberg is a Local Municipality within the Cape Winelands District Municipality (CWDM). The CWDM covers an approximate area of 22 309 km2. The Langeberg Municipality covers a total area of approximately 4 517.4 km2 (which includes 1184.54km² of former Cape Winelands District Municipal Area land. The former CWDMA area which now falls within the Langeberg Municipal Area consists mostly of extensive farming, natural veld and large game farms.

Langeberg includes the towns of Ashton (7727 people), Bonnievale (9092 people), McGregor (3125 people), Montagu (15176 people) and Robertson (21929 people) as well as the rural areas adjacent to and between these towns (29 292 people). 81% of the persons in the langeberg area are Afrikaans speaking and isiXhosa speaking.

The Langeberg Municipality, is committed to the social and economic development of the people in the area, unemployment and a lack of skills development continue to be one of the biggest problems faced in the Langeberg area. Under the increasing impact of climate change as reported in the Langeberg Municipality Annual report 2016-2017 "The limitations to water availability force the municipality to implement plans that will ensure that water resources are not depleted". The average unemployment rate in Robertson in 23.9%.

Robertson is the western gateway to the heart of Route 62, only 1 ½ hours leisurely drive from Cape Town. With 150 years of history, Robertson has grown into one of the most attractive Cape Winelands towns, with Victorian buildings, jacaranda-lined streets and beautiful gardens. Today, Robertson is one of the largest wine-producing regions in South Africa. The region may be best known for its wine but the variety of attractions and activities combined with spectacular scenery and the relaxed hospitality of the people ensures visitors an unforgettable stay.

References: Langeberg Annual Report 2016-2017 and Census 2011

#### 10. HISTORICAL AND CULTURAL ASPECTS

(a) Please be advised that if section 38 of the NHRA is applicable to your proposed development, you are requested to furnish this Department with <u>written comment from Heritage Western Cape</u> as part of your public participation process. Heritage Western Cape <u>must</u> be given an opportunity, together with the rest of the I&APs, to comment on any Pre-application BAR, a Draft BAR, and Revised BAR.

Section 38 of the NHRA states the following:

- "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 000m<sup>2</sup> 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 000m<sup>2</sup> 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".

- (b) The impact on any national estate referred to in section 3(2), excluding the national estate contemplated in section 3(2)(i)(vi) and (vii), of the NHRA, must also be investigated, assessed and evaluated. Section 3(2) states the following: "3(2) Without limiting the generality of subsection (1), the national estate may include—
  - (a) places, buildings, structures and equipment of cultural significance;
  - (b) places to which oral traditions are attached or which are associated with living heritage;

- (c) historical settlements and townscapes;
- (d) landscapes and natural features of cultural significance;
- (e) geological sites of scientific or cultural importance;
- (f) archaeological and palaeontological sites;
- (g) graves and burial grounds, including—
  - (i) ancestral graves;
  - (ii) royal graves and graves of traditional leaders;
  - (iii) graves of victims of conflict;
  - (iv) graves of individuals designated by the Minister by notice in the Gazette;
  - (v) historical graves and cemeteries; and
  - (vi) other human remains which are not covered in terms of the Human Tissue Act, 1983 (Act No. 65 of 1983);
- (h) sites of significance relating to the history of slavery in South Africa;
- (i) movable objects, including—
  - (i) objects recovered from the soil or waters of South Africa, including archaeological and paleontological objects and material, meteorites and rare geological specimens;
  - (ii) objects to which oral traditions are attached or which are associated with living heritage;
  - (iii) ethnographic art and objects;
  - (iv) military objects;
  - (v) objects of decorative or fine art;
  - (vi) objects of scientific or technological interest; and
  - (vii) books, records, documents, photographic positives and negatives, graphic, film or video material or sound recordings, excluding those that are public records as defined in section 1(xiv) of the National Archives of South Africa Act, 1996 (Act No. 43 of 1996)".

Is Section 38 of th	e NHRA applicable to the proposed development?	YES	NO	UNCERTAIN
If YES or UNCERTAIN, explain:	NA			
Will the developr the NHRA?	nent impact on any national estate referred to in Section 3(2) of	<del>YE\$</del>	NO	UNCERTAIN
If YES or UNCERTAIN, explain:	NA			
Will any building o	or structure older than 60 years be affected in any way?	¥E\$	NO	UNCERTAIN
If YES or UNCERTAIN, explain:	NA			
	ns of culturally or historically significant elements, as defined in IHRA, including Archaeological or paleontological sites, on or ) to the site?	YES	NO	UNCERTAIN
If YES or UNCERTAIN, explain:	NA			

Note: If uncertain, the Department may request that specialist input be provided and Heritage Western Cape must provide comment on this aspect of the proposal. (Please note that a copy of the comments obtained from the Heritage Resources Authority must be appended to this report as Appendix E1).

#### 11. APPLICABLE LEGISLATION, POLICIES, CIRCULARS AND/OR GUIDELINES

(a) Identify all legislation, policies, plans, guidelines, spatial tools, municipal development planning frameworks, and instruments that are applicable to the development proposal and associated listed activity(ies) being applied for and that have been considered in the preparation of the BAR.

		TYPE	
LEGISLATION, POLICIES, PLANS, GUIDELINES, SPATIAL TOOLS, MUNICIPAL DEVELOPMENT PLANNING FRAMEWORKS, AND INSTRUMENTS	ADMINISTERING AUTHORITY and how it is relevant to this application	Permit/license/authorisation/comment / relevant consideration (e.g. rezoning or consent use, building plan approval, Water Use License and/or General Authorisation, License in terms of the SAHRA and CARA, coastal discharge permit, etc.)	DATE (if already obtained):
National Environmental Management Act, 1998 (Act No. 107 of 1998) [NEMA] and relevant regulations	Western Cape Department of Environmental Affairs and Development Planning	Environmental Authorisation Application	In progress
National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) [NEMWA] and relevant regulations	Western Cape Department of Environmental Affairs and Development Planning	N/A	N/A
National Environmental Management: Biodiversity Act 10 of 2004 [NEMBA] and relevant regulations	Western Cape Department of Environmental Affairs and Development Planning	N/A	N/A
National Environmental Management: Air Quality Act, 39 Of 2004 [NEMAQA] and Relevant Regulations	Western Cape Department of Environmental Affairs and Development Planning	N/A	N/A
National Water Act, 1998 (Act No. 36 of 1998) [NWA] and relevant regulations	Department of Water and Sanitation	N/A	N/A
Conservation Of Agricultural Resources Act, 43 Of 1983 [CARA]	National Department of Agriculture, forestry and Fisheries Western Cape Department of Agriculture	N/A	N/A
National Health Act, 61 Of 2003		Littering and causing a nuisance	N/A
Constitution of the Republic of South Africa, 1996		General application to individual rights of all on and adjacent to the Sites	N/A
National Heritage Resources Act 25 of 1999 [NHRA]	Heritage Western Cape South African Heritage Resource Agency	N/A	N/A
National Veld and Forest Fire Act 101 of 1998 [NVFFA]		N/A	N/A
Fertilizers, Farm Feeds, Agricultural Remedies And Stock Remedies Act, 36 Of 1947 [FFFARSRA] and Relevant Regulations	National Department of Agriculture, forestry and Fisheries Western Cape Department of Agriculture	N/A	N/A
Environment Conservation Act, 73 Of 1989, Western Cape Noise Control	Western Cape Department of Environmental Affairs and	N/A	N/A

Regulations	Development Planning		
National Forests Act, 84 Of 1998	National Department of Agriculture, forestry and Fisheries Western Cape Department of Agriculture	N/A	N/A
Hazardous Substances Act, 15 Of 1973	Department of Labour	N/A	N/A
National Environmental Management: Protected Areas Act 57 Of 2003		N/A	N/A
Occupational Health And Safety Act 85 Of 1993	Department of Labour	N/A	N/A
Compensation For Occupational Injuries And Diseases Act 130 Of 1993	Department of Labour	N/A	N/A
Basic Conditions Of Employment Act 75 Of 1997	Department of Labour	N/A	N/A
Labour Relations Act 66 Of 1995	Department of Labour	N/A	N/A
Tobacco Products Control Act 83 Of 1993		N/A	N/A
Langeberg Local Municipality Water By-Law	Stellenbosch Local Municipality	N/A	N/A
Cape Winelands District Municipality Municipal Health By-Laws	Cape Winelands District Municipality	N/A	N/A

POLICY/ GUIDELINES	ADMINISTERING AUTHORITY
Cuidalina an Rublia Participation	Western Cape Department of Environmental
Guideline on Public Participation	Affairs and Development Planning
Guidelines on Alternatives	Western Cape Department of Environmental
Goldenies on Anemalives	Affairs and Development Planning
Cuidaling on Nood and desirability	Western Cape Department of Environmental
Guideline on Need and desirability	Affairs and Development Planning
Guideline for Environmental Management Plans	Western Cape Department of Environmental
(EMP's)	Affairs and Development Planning
Circular EADP 0028/2014: "One Environmental	Western Cape Department of Environmental
Management System".	Affairs and Development Planning

<sup>(</sup>b) Describe how the proposed development **complies with and responds** to the legislation and policy context, plans, guidelines, spatial tools, municipal development planning frameworks and instruments.

LEGISLATION, POLICIES, PLANS, GUIDELINES, SPATIAL TOOLS, MUNICIPAL DEVELOPMENT PLANNING FRAMEWORKS, AND INSTRUMENTS	Describe how the proposed development complies with and responds:
NEMA	Various general activities, including but not limited to, the control of emergency incidents and the care and remediation of environmental damage.
NEMWA	Listed waste management activities and the requirements for a license for usage of general waste.
NEMBA	The management and conservation of biological diversity and the sustainable use of indigenous biological resources.
NEMAQA	Activities that may affect the air quality on site and the environment surrounding it.

	Impacts and pollution to ground and surface water. Assessed if a
NWA	water use authorisation under section 21 is required.
CARA	Weeds and the tolerance thereof.
National Health Act	Littering and causing a nuisance.
Constitution of the RSA	General application to individual rights of all on and adjacent to the sites.
Fencing Act	The erection and maintenance of fences.
National Building Regulations and Building Standards Act	The erection of new buildings.
NHRA	Development of the site and dealing with graves and burial sites and any structures older than 60 years.
NVFFA	Any activities that could result in the start of veld fires.
FFFARSRA	Activities associated with pest control and the use of agricultural remedies.  Activities associated with providing / manufacturing fertiliser.
Guideline on Public Participation	The public participation guideline was used to determine the best way to define and inform all relevant I&APs of the project. The guideline was also used to determine the most effective communication strategies for public participation.
Guidelines on Alternatives	The guidelines for alternatives assessment was used to develop a methodology for alternatives assessment. This methodology was applied to determine and assess the most viable alternatives to the project. The assessment was undertaken against the base environment (i.e. the no-go option).
Guideline on Need and desirability	The guideline was taken into account to determine whether the project complied according to the concept of Best Practicable Environmental Option as well as environmental and social sustainability.
Guideline for EMP's	The guideline for EMP's was taken into account to determine the most effective minimize, mitigation and management measures to minimise or prevent the impacts identified in the report.
Circular EADP 0028/2014: "One Environmental Management System".	The circular was consulted to determine whether the report has been compiled in accordance with all the requirements in terms of the 2014 EIA Regulations.

**Note:** Copies of any comments, permit(s) or licences received from any other Organ of State must be attached to this report as **Appendix E**.

#### **Section C: PUBLIC PARTICIPATION**

The PPP must fulfil the requirements outlined in the NEMA, the EIA Regulations, 2014 (as amended) and if applicable, the NEM: WA and/or the NEM: AQA. This Department's Circular EADP 0028/2014 (dated 9 December 2014) on the "One Environmental Management System" and the EIA Regulations, any subsequent Circulars, and guidelines must also be taken into account.

1. Please highlight the appropriate box to indicate whether the specific requirement was undertaken or whether there was an exemption applied for.

(a) fixing a notice board at a place conspicuous to and accessible by the public at the bo	undan	on the f	anca or	alona
the corridor of -	oridary	, OIT IIIC I	orice or	along
(i) the site where the activity to which the application relates, is or is to be undertaken; and	YES	EXEMP	ION	
(ii) any alternative site	YES	EXEMP	HOF	N/A
(b) giving written notice, in any manner provided for in Section 47D of the NEMA, to –				
<ul><li>(i) the occupiers of the site and, if the applicant is not the owner or person in control of the site on which the activity is to be undertaken, the owner or person in control of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;</li></ul>	<del>YES</del>	EXEMP	TION	N/A
<ul><li>(ii) owners, persons in control of, and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;</li></ul>	YES	EXEMP	HOIT	
<ul><li>(iii) the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;</li></ul>	YES	EXEMP	TION	
(iv) the municipality (Local and District Municipality) which has jurisdiction in the area;	YES	EXEMP	HOIT	
(v) any organ of state having jurisdiction in respect of any aspect of the activity; and	YES	EXEMP	HOIT	
(vi) any other party as required by the Department;	YES	EXEMP	HOIT	N/A
(c) placing an advertisement in -				
(i) one local newspaper; or	YES	EXEMP	HOIT	
(ii) any official Gazette that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;	YES	EXEMP	TION	N/A
(d) placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the metropolitan or district municipality in which it is or will be undertaken	YES	EXEMP	HON	N/A
<ul> <li>(e) using reasonable alternative methods, as agreed to by the Department, in those instances where a person is desirous of but unable to participate in the process due to— <ol> <li>(i) illiteracy;</li> <li>(ii) disability; or</li> <li>(iii) any other disadvantage.</li> </ol> </li> </ul>	YES	EXEMP		N/A
If you have indicated that "EXEMPTION" is applicable to any of the above, proof of the exe	mption	decision	must be	÷
appended to this report.  Please note that for the NEM: WA and NEM: AQA, a notice must be placed in at least two represents the getting applied for is proposed.	newspo	pers circ	ulating i	n the
area where the activity applied for is proposed.  If applicable, has/will an advertisement be placed in at least two newspapers?	۷	<del>/ES</del>	1	<del>10</del>
ii applicable, mas, miii am davenisemeni be piacea in an east inve newspapersy		LU	- 1	10

2. Provide a list of all the State Departments and Organs of State that were consulted:

State Department / Organ of State	Date request was sent:	Date comment received:	Support / not in support
Cape Winelands District Municipality  Breede-Gouritz Catchment  Management Agency	A copy of this re	port will be circulated comment.	to key departments for
DEA&DP Waste Management DEA&DP: Pollution and Chemicals Management			
Langeberg Municipality CapeNature			
Department of Health DEA&DP: Development Management			

3. Provide a summary of the issues raised by I&APs and an indication of the manner in which the issues were incorporated, or the reasons for not including them.

(The detailed outcomes of this process, including copies of the supporting documents and inputs must be included in a Comments and Response Report to be attached to the BAR (see note below) as **Appendix F**).

#### None received.

4. Provide a summary of any conditional aspects identified / highlighted by any Organs of State, which have jurisdiction in respect of any aspect of the relevant activity.

None received. A copy of this report will be circulated to key departments

#### Note:

Even if pre-application public participation is undertaken as allowed for by Regulation 40(3), it must be undertaken in accordance with the requirements set out in Regulations 3(3), 3(4), 3(8), 7(2), 7(5), 19, 40, 41, 42, 43 and 44.

If the "exemption" option is selected above and no proof of the exemption decision is attached to this BAR, the application will be refused.

A list of all the potential I&APs, including the Organs of State, notified <u>and</u> a list of all the registered I&APs must be submitted with the BAR. The list of registered I&APs must be opened, maintained and made available to any person requesting access to the register in writing.

The BAR must be submitted to the Department when being made available to I&APs, including the relevant Organs of State and State Departments which have jurisdiction with regard to any aspect of the activity, for a commenting period of at least 30 days. Unless agreement to the contrary has been reached between the Competent Authority and the EAP, the EAP will be responsible for the consultation with the relevant State Departments in terms of Section 24O and Regulation 7(2) – which consultation must happen simultaneously with the consultation with the I&APs and other Organs of State.

All the comments received from I&APs on the BAR must be recorded, responded to and included in the Comments and Responses Report included as **Appendix F** of the BAR. <u>If necessary, any amendments made in response to comments received must be effected in the BAR itself.</u> The Comments and Responses Report must also include a description of the PPP followed.

The minutes of any meetings held by the EAP with I&APs and other role players wherein the views of the participants are recorded, must also be submitted as part of the public participation information to be attached to the final BAR as **Appendix F.** 

<u>Proof</u> of all the notices given as indicated, as well as notice to I&APs of the availability of the Pre-Application BAR (if applicable), Draft BAR, and Revised BAR (if applicable) must be submitted as part of the public participation information to be attached to the BAR as **Appendix F**. In terms of the required "proof" the following must be submitted to the Department:

- a site map showing where the site notice was displayed, a dated photographs showing the notice displayed on site and a copy of the text displayed on the notice;
- in terms of the written notices given, a copy of the written notice sent, as well as:
  - o if registered mail was sent, a list of the registered mail sent (showing the registered mail number, the name of the person the mail was sent to, the address of the person and the date the registered mail was sent):
  - o if normal mail was sent, a list of the mail sent (showing the name of the person the mail was sent to, the address of the person, the date the mail was sent, and the signature of the post office worker or the post office stamp indicating that the letter was sent);
  - o if a facsimile was sent, a copy of the facsimile report;
  - o if an electronic mail was sent, a copy of the electronic mail sent; and
  - o if a "mail drop" was done, a signed register of "mail drops" received (showing the name of the person the notice was handed to, the address of the person, the date, and the signature of the person); and
- a copy of the newspaper advertisement ("newspaper clipping") that was placed, indicating the name of the newspaper and date of publication (of such quality that the wording in the advertisement is legible).

#### SECTION D: NEED AND DESIRABILITY

**Note:** Before completing this section, first consult this Department's Circular EADP 0028/2014 (dated 9 December 2014) on the "One Environmental Management System" and the EIA Regulations, 2014 (as amended), any subsequent Circulars, and guidelines available on the Department's website: <a href="http://www.westerncape.gov.za/eadp">http://www.westerncape.gov.za/eadp</a>). In this regard, it must be noted that the Guideline on Need and Desirability in terms of the Environmental Impact Assessment (EIA) Regulations, 2010 published by the national Department of Environmental Affairs on 20 October 2014 (GN No. 891 on Government Gazette No. 38108 refers) (available at: <a href="http://www.gov.za/sites/www.gov.za/files/38108\_891.pdf">http://www.gov.za/sites/www.gov.za/sites/www.gov.za/files/38108\_891.pdf</a>) also applied to EIAs in terms of the EIA Regulations, 2014 (as amended).

1. Is the development permitted in terms of the property's existing land use rights?	YES	OH	Please explain
The activity will not change the existing land use. Augmentation of w form part of the existing reservoirs and associated infrastructure on site		rage cap	pacity and will
Will the development be in line with the following?	<u>•</u>		
(a) Provincial Spatial Development Framework (" <b>PSDF</b> ").	YES	OH	Please explain
Augment existing water storage capacity for local communities of Rol	_		
developments.			
(b) Urban edge / edge of <b>built environment</b> for the area.	YES	NO	Please explain
Reservoir and 150m pipeline outside urben edge. Provision of water to	the loca	al comm	unities of
Robertson. Augmentation of existing storage capacity at existing reser	voir 3.		
(c) Integrated Development Plan and Spatial Development Framework of the Local Municipality (e.g., would the approval of this application compromise the integrity of the existing approved and credible municipal <b>IDP and SDF</b> ?).	YES	NO	Please explain
Augment existing water storage capacity for local communities of Rol	pertson c	and futur	e housing
developments.			
(d) An Environmental Management Framework (" <b>EMF</b> ") adopted by this Department. (e.g., Would the approval of this application compromise the integrity of the existing environmental management priorities for the area and if so, can it be justified in terms of sustainability considerations?)	YES	<del>NO</del>	Please explain
Provision of water to the local communities of Robertson. Augmentation	on of exis	sting stor	age capacity
at existing reservoir 3.			
(e) Any <b>other</b> Plans (e.g., Integrated Waste Management Plan (for waste management activities), etc.)).	YES	NO	Please explain
NA "	•		
3. Is the land use (associated with the project being applied for) considered within the timeframe intended by the existing approved SDF agreed to by the relevant environmental authority (in other words, is the proposed development in line with the projects and programmes identified as priorities within the credible IDP)?	YES	NO	Please explain
The activity will not change the existing land use. It will form part	of the		
	or the	existing	reservoirs and
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the</li> </ul>	YES	existing NO	Please explain
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> </ul>	YES	NO	Please explain
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> <li>Augment existing water storage capacity for local communities of</li> </ul>	YES	NO	Please explain
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> </ul>	YES	NO	Please explain
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>5. Does the community/area need the project and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g., development is a National Priority, but within a specific local context it could</li> </ul>	YES Robertsc YES	NO on and t	Please explain future housing Please explain
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>5. Does the community/area need the project and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g., development is a National Priority, but within a specific local context it could be inappropriate.)</li> </ul>	YES Robertsc YES	NO on and t	Please explain future housing Please explain
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>5. Does the community/area need the project and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g., development is a National Priority, but within a specific local context it could be inappropriate.)</li> <li>Augment existing water storage capacity for local communities of</li> </ul>	YES Robertsc YES	NO on and t	Please explain future housing Please explain
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>5. Does the community/area need the project and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g., development is a National Priority, but within a specific local context it could be inappropriate.)</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>6. Are the necessary services available together with adequate unallocated municipal capacity (at the time of application), or must additional capacity be created to cater for the project? (Confirmation by the relevant municipality in this</li> </ul>	YES  Robertso  YES  YES	NO NO NO on and	Please explain  future housing  Please explain  future housing
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>5. Does the community/area need the project and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g., development is a National Priority, but within a specific local context it could be inappropriate.)</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>6. Are the necessary services available together with adequate unallocated municipal capacity (at the time of application), or must additional capacity be created to cater for the project? (Confirmation by the relevant municipality in this regard must be attached to the BAR as Appendix E.)</li> </ul>	YES  Robertso  YES  YES	NO NO NO on and	Please explain  future housing  Please explain  future housing
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>5. Does the community/area need the project and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g., development is a National Priority, but within a specific local context it could be inappropriate.)</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>6. Are the necessary services available together with adequate unallocated municipal capacity (at the time of application), or must additional capacity be created to cater for the project? (Confirmation by the relevant municipality in this regard must be attached to the BAR as Appendix E.)</li> <li>No additional capacity in terms of municipal service provision will be refered to the implication be on the infrastructure planning of the municipality (priority and placement of services and opportunity costs)? (Comment by the relevant municipality in this regard must be attached to the BAR as Appendix E.)</li> <li>The project will not impact on the planned infrastructure of the municipal</li> </ul>	YES  Robertso  YES  Robertso  YES  equired.  YES  pality. It	NO NO NO NO WIll also	Please explain  future housing  Please explain  future housing  Please explain  Please explain
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>5. Does the community/area need the project and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g., development is a National Priority, but within a specific local context it could be inappropriate.)</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>6. Are the necessary services available together with adequate unallocated municipal capacity (at the time of application), or must additional capacity be created to cater for the project? (Confirmation by the relevant municipality in this regard must be attached to the BAR as Appendix E.)</li> <li>No additional capacity in terms of municipal service provision will be really the implication be on the infrastructure planning of the municipality (priority and placement of services and opportunity costs)? (Comment by the relevant municipality in this regard must be attached to the BAR as Appendix E.)</li> <li>The project will not impact on the planned infrastructure of the municipal and use. No additional services will be required for the implementation.</li> <li>8. Is this project part of a national programme to address an issue of national concern.</li> </ul>	YES  Robertso  YES  Robertso  YES  equired.  YES  pality. It	NO NO NO NO WIll also	Please explain  future housing  Please explain  future housing  Please explain  Please explain
<ul> <li>associated infrastructure on site.</li> <li>4. Should development, or if applicable, expansion of the town/area concerned in terms of this land use (associated with the activity being applied for) occur on the proposed site at this point in time?</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>5. Does the community/area need the project and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g., development is a National Priority, but within a specific local context it could be inappropriate.)</li> <li>Augment existing water storage capacity for local communities of developments.</li> <li>6. Are the necessary services available together with adequate unallocated municipal capacity (at the time of application), or must additional capacity be created to cater for the project? (Confirmation by the relevant municipality in this regard must be attached to the BAR as Appendix E.)</li> <li>No additional capacity in terms of municipal service provision will be reflevant municipality and if not, what will the implication be on the infrastructure planning of the municipality (priority and placement of services and opportunity costs)? (Comment by the relevant municipality in this regard must be attached to the BAR as Appendix E.)</li> <li>The project will not impact on the planned infrastructure of the municipal and use. No additional services will be required for the implementation.</li> </ul>	YES  Robertso  YES  Robertso  YES  equired.  YES  pality. It on of this  YES	NO N	Please explain  future housing  Please explain  future housing  Please explain  Please explain  not affect the  Please explain

9. Do location factors favour this land use (associated with the development proposal and associated listed activity(ies) applied for) at this place? (This relates to the contextualisation of the proposed land use on the proposed site within its broader context.)	YES	NO	Please explain
The sites have been chosen for their proximity to the Robertson are associated infrastructure.	as, the	existing	reservoirs with
10. Will the development proposal or the land use associated with the development proposal applied for, impact on sensitive natural and cultural areas (built and rural/natural environment)?	YES	NO	Please explain
The activity will not occur in an area of either natural or cultural sensitiv	ity.	-	
11. Will the development impact on people's health and well-being (e.g., in terms of noise, odours, visual character and 'sense of place', etc.)?	¥E\$	NO	Please explain
The project will have a positive effect on water provision to the local c	ommuni	ities.	
The visual character / sense of place will not be affected as the infrast the existing reservoir as to blend in with surrounding landscape.	ructure	will be e	rected next to
12. Will the proposed development or the land use associated with the proposed development applied for, result in unacceptable opportunity costs?	¥E\$	NO	Please explain
Augment existing water storage capacity for local communities of Rob developments.	ertson (	and futur	e housing
13. What will the <b>cumulative impacts</b> (positive and negative) of the proposed land proposal and associated listed activity(ies) applied for, be?	use associ	iated with	the developmen
<ul> <li>Positive impacts include the provision of bulk water supply to the I</li> <li>During the construction phase the project will also contribute to Ic</li> <li>Habitat fragmentation and loss of ecological connectivity.</li> <li>Soil erosion and Dust.</li> </ul>			
14. Is the development the <b>best practicable environmental option</b> for this land/site?	YES	ОИ	Please explain
Augment existing water storage capacity for local communities of Rob developments. The site is classified as other natural area and loss of ve			e housing
15. What will the benefits be to society in general and to the local communities?			Please explain
Augment existing water storage capacity for local communities of Rob developments.	ertson (	and futui	e housing
16. Any other need and desirability considerations related to the proposed development	nt?		Please explain
NA			
17. Describe how the <b>general objectives of Integrated Environmental Management</b> as s been taken into account:	et out in S	ection 23 (	of the NEMA have
All decisions during the planning and assessment by all involved	for the	activity	promote the
integration of the principles of environmental management set out	in sect	ion 2 to	minimize and
mitigate any significant effect on the environment. All these mitigation	ns and m	nanager	nent measure
			ng and desigr
identify, predict and evaluate the actual and potential impact on the			
conditions and cultural horitage. The ricks and consequences and			

All decisions duting the planning and assessment by all involved for the activity promote the integration of the principles of environmental management set out in section 2 to minimize and mitigate any significant effect on the environment. All these mitigations and management measures must be included as EA conditions and into the EMP. All involved in the planning and design identify, predict and evaluate the actual and potential impact on the environment, socio-economic conditions and cultural heritage. The risks and consequences and alternatives and options for mitigation of activities, with a view to minimising negative impacts, maximising benefits, and promoting compliance with the principles of environmental management set out in section 2 were taken in consideration and used in the assessments, mitigations and recommendations throughout this report. All specialists involved in the planning and design of the activity are independent and ensured that the effects of the activities on the environment receive adequate consideration before recommendations and actions taken in connection with them are proposed to be included in the EA conditions and EMP. Adequate and appropriate opportunity for public participation is provided and included in Appendix F as per the guidelines and regulations in decisions that may affect the environment. The consideration of environmental attributes in management and decision making which may have a significant effect on the environment was ensured. The modes of environmental management best suited to ensure that a particular activity is pursued in accordance with the principles of environmental management set out in section 2, was identified and employed. Refer to section below.

18 Describe how the **principles of environmental management** as set out in Section 2 of the NEMA have been taken into account:

A public participation process as described in the legislation and guidelines is followed. Refer to Appendix F.

The proposed development will not have an impact on an endangered vegetation type, and should not lead to the loss of any conservation worthy species or habitat and ecological functioning. The opinion of the EAP concludes that this development should not result in the loss of any species.

The proposed development will not disturb the sites that constitute the nation's cultural heritage. The proposed development will not exceed or exploit renewable resources to an extent that they reach a level beyond which their integrity is jeopardised. A risk-averse and caution first approach is being applied.

All impacts and aspects were assessed and identified. An environmental management programme and maintenance management plan is included. This will guide the responsibilities in execution as stipulated above. The social, economic and environmental impacts of activities, including disadvantages and benefits, were considered, assessed and evaluated, and decisions are appropriate in the light of such consideration and assessment.

#### SECTION E: DETAILS OF ALL THE ALTERNATIVES CONSIDERED

**Note:** Before completing this section, first consult this Department's Circular EADP 0028/2014 (dated 9 December 2014) on the "One Environmental Management System" and the EIA Regulations, 2014 (as amended), any subsequent Circulars, and guidelines available on the Department's website <a href="http://www.westerncape.gov.za/eadp">http://www.westerncape.gov.za/eadp</a>.

The EIA Regulations, 2014 (as amended) defines "alternatives" as " in relation to a proposed activity, means different means of fulfilling the general purpose and requirements of the activity, which may include alternatives to the—

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

The NEMA (section 24(4)(a) and (b) of the NEMA, refers) prescribes that the procedures for the investigation, assessment and communication of the potential consequences or impacts of activities on the environment must, inter alia, with respect to every application for environmental authorisation –

- ensure that the general objectives of integrated environmental management laid down in the NEMA and the National Environmental Management Principles set out in the NEMA are taken into account; and
- include an investigation of the potential consequences or impacts of the alternatives to the activity on the environment and assessment of the significance of those potential consequences or impacts, including the option of not implementing the activity.

The general objective of integrated environmental management (section 23 of NEMA, refers) is, inter alia, to "identify, predict and evaluate the actual and potential impact on the environment, socio-economic conditions and cultural heritage, the risks and consequences and alternatives and options for mitigation of activities, with a view to minimising negative impacts, maximising benefits, and promoting compliance with the principles of environmental management" set out in the NEMA.

The identification, evaluation, consideration and comparative assessment of alternatives directly relate to the management of impacts. Related to every identified impact, alternatives, modifications or changes to the activity must be identified, evaluated, considered and comparatively considered to:

- in terms of negative impacts, firstly avoid a negative impact altogether, or if avoidance is not possible alternatives to better mitigate, manage and remediate a negative impact and to compensate for/offset any impacts that remain after mitigation and remediation; and
- in terms of positive impacts, maximise impacts.

### 1. DETAILS OF THE IDENTIFIED AND CONSIDERED ALTERNATIVES AND INDICATE THOSE ALTERNATIVES THAT WERE FOUND TO BE FEASIBLE AND REASONABLE

Note: A full description of the investigation of alternatives must be provided and motivation if no reasonable or feasible alternatives exists.

(a) Property and **location/site** alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist:

No other property alternatives were assessed as no feasible or reasonable property alternative exists. The proposed reservoir is situated next to the existing reservoir 3 in Robertson. Due to the need for water storage capacity in the surrounding community and the existing access road to reservoir 3, this was the only reasonable option. The proposed location of the reservoir will be adjacent to the existing reservoir.

The following factors deemed the proposed alternative the only reasonable and feasible option:

- Proximity of the proposed reservoir sites in relation to the local communities of Robertson;
- Availability of and proximity to existing pipelines and reservoirs;
- Ability to connect to existing infrastructure;
- Existing access routes;
- Minimum impact on indigenous vegetation; and
- Height above mean sea level of the sites to allow for the use of gravity mains.
- (b) **Activity** alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist:

The establishment of a 3.0 Ml reservoir and associated infrastructure on Erf 1241 Robertson is the only activity alternative assessed to augment existing water storage capacity for local communities of Robertson and future housing developments. This activity is the preferred option because it meets the need and desirability as manifested by the Robertson community.

(c) **Design or layout** alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist:

The layout takes into consideration the requirement for bulk services and the need for increase water storage capacity for the surrounding communities. The current capacity of the existing Robertson reservoir no. 3 is 2 000kll, which results in a current reservoir storage capacity of 82,5 hours of the annual average daily demand (AADD). With all vacant erven occupied the storage capacity however decreases to 42,6 hours of the AADD of the supply zone. Augmentation of the storage capacity at the Robertson reservoir no.3 is therefore required in order to accommodate for future housing developments.

(d) **Technology** alternatives (e.g., to reduce resource demand and increase resource use efficiency) to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist:

No other technology alternatives were considered, as the proposed project is for the establishment of a 3.0 Ml reservoir with associated infrastructure.

(e) **Operational** alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist:

Once operational, the only activities that will be undertaken are related to maintenance and upkeep of the development and associated infrastructure.

(f) The option of **not implementing** the activity (the 'No-Go' Option):

The No-Go option will result in the site remaining as it is presently, with inadequate storage capacity of water to ensure adequate water provision to the local communities of Robertson and for future housing developments. A look at the Need and Desirability input will both indicate popular local support for both the concept and place as manifested in IDP etc. The site is ideally situated for reservoir development in terms availability of existing infrastructure etc.

(g) **Other** alternatives to avoid negative impacts, mitigate unavoidable negative impacts and maximise positive impacts, or detailed motivation if no reasonable or feasible alternatives exist:

No additional alternatives were assessed - see summary below

(h) Provide a **summary** of all alternatives investigated and the outcome of each investigation:

**Location alternatives** - No other property alternatives were assessed as no feasible or reasonable property alternative exists. The proposed reservoir is situated next to the existing reservoir 3 in Robertson. Due to the need for water storage capacity in the surrounding community and the existing access road to reservoir 3, this was the only reasonable option. The proposed location of the reservoir will be adjacent to the existing reservoir.

The following factors deemed the proposed alternative the only reasonable and feasible option:

- Proximity of the proposed reservoir sites in relation to the local communities of Robertson;
- Availability of and proximity to existing pipelines and reservoirs;
- Ability to connect to existing infrastructure;
- Existing access routes;
- Minimum impact on indigenous vegetation; and
- Height above mean sea level of the sites to allow for the use of gravity mains.

**Activity alternatives –** The establishment of a 3.0 Ml reservoir and associated infrastructure on Erf 1241 Robertson is the only activity alternative assessed to augment existing water storage capacity for local communities of Robertson and future housing developments. This activity is the preferred option because it meets the need and desirability as manifested by the Robertson community.

**Layout alternatives** - The layout takes into consideration the requirement for bulk services and the need for increase water storage capacity for the surrounding communities. The current capacity of the existing Robertson reservoir no. 3 is 2 000kll, which results in a current reservoir storage capacity of 82,5 hours of the annual average daily demand (AADD). With all vacant erven occupied the storage capacity however decreases to 42,6 hours of the AADD of the supply zone. Augmentation of the storage capacity at the Robertson reservoir no.3 is therefore required in order to accommodate for future housing developments.

**Technology alternatives -** No other technology alternatives were considered, as the proposed project is for the establishment of a 3.0 Ml reservoir with associated infrastructure.

**Operational alternatives -** Once operational, the only activities that will be undertaken are related to maintenance and upkeep of the reservoir and associated infrastructure.

(i) Provide a detailed **motivation for not further considering** the alternatives that were found not feasible and reasonable, including a description and proof of the investigation of those alternatives:

NA

#### 2. PREFERRED ALTERNATIVE

(a) Provide a **concluding statement** indicating the preferred alternative(s), including preferred location, site, activity and technology for the development.

No other alternatives were assessed as no feasible or reasonable alternatives exists. The proposed reservoir is situated next to the existing reservoir 3 in Robertson. Due to the need for water storage capacity in the surrounding community and the existing access road to reservoir 3, this was the only reasonable option. The proposed location of the reservoir will be adjacent to the existing reservoir. The following factors deemed the proposed alternative the only reasonable and feasible option:

- Proximity of the proposed reservoir sites in relation to the local communities of Robertson;
- Availability of and proximity to existing pipelines and reservoirs;
- Ability to connect to existing infrastructure;
- Existing access routes;
- Minimum impact on indigenous vegetation; and
- Height above mean sea level of the sites to allow for the use of gravity mains.

#### SECTION F: ENVIRONMENTAL ASPECTS ASSOCIATED WITH THE ALTERNATIVES

Note: The information in this section must be DUPLICATED for all the feasible and reasonable ALTERNATIVES.

## 1. DESCRIBE THE ENVIRONMENTAL ASPECTS ASSOCIATED WITH THE PROPOSED DEVELOPMENT AND ITS ALTERNATIVES, FOCUSING ON THE FOLLOWING:

(a) Geographical, geological and physical aspects:

The proposed activity will not have a significant adverse cumulative effect on topography, slopes, soils and groundwater resources, if operational and construction mitigation measures are implemented.

The sensitive natural and cultural land uses were assessed during the EIA process and the development layout is designed according to such parameters.

The only sensitive physical aspects identified on site are the slope of the terrain on which pipeline and reservoir is proposed. Mitigation measures to prevent and manage habitat fragmentation; loss of ecological connectivity and erosion, noise and soil erosion and dust has been addressed in the environmental management plan.

#### (b) Ecological aspects:

Will the proposed development and its alternatives have an impact on CBAs or ESAs?  If yes, please explain:  Also include a description of how the proposed development will influence the quantitative values (hectares/percentage) of the categories on the CBA/ESA map.	YES	NO
NA		
Will the proposed development and its alternatives have an impact on terrestrial vegetation, or aquatic ecosystems (wetlands, estuaries or the coastline)? If yes, please explain:	YES	Ю
There will be no impact on any aquatic ecosystems.		
The proposed reservoir is planned on a site that contains natural vegetation in a moderate to good condition. Indigenous vegetation will be removed and impacted upon during the proposed development, but the amount of indigenous vegetation that will be removed will not be significant.		
Will the proposed development and its alternatives have an impact on any populations of threatened plant or animal species, and/or on any habitat that may contain a unique signature of plant or animal species? If yes, please explain:	YES	NO

According to Ecological Impact Assessment (2018) no threatened species (fauna and flora) were recorded on site.

Describe the manner in which any other biological aspects will be impacted:

The vegetation that will be impacted is classified as Other Natural Area (ONA). No threatened or protected species were recorded on the site. The site is not classified as a Critically Biodiversity Area or Ecological Support area and not identified for conservation purposes.

No rare mammal species as listed were observed during the site survey. 207 Avifauna species are known to occur in the bigger area (Hockey et al 2006). No sensitive breeding or roosting sites were observed on site during the survey. It is expected that the proposed development will not impact on any listed bird species. Other bird species known to occur on the property will be impacted upon by the proposed development, but they could simply fly away and move back after construction.

Also see Ecological Impact Assessment under Appendix G.

If yes, describe the following:

- (i) the extent to which the applicant has in the past complied with similar authorisations;
- (ii) whether coastal public property, the coastal protection zone or coastal access land will be affected, and if so, the extent to which the proposed development proposal or listed activity is consistent with the purpose for establishing and protecting those areas:
- (iii) the estuarine management plans, coastal management programmes, coastal management lines and coastal management objectives applicable in the area;
- (iv) the likely socio-economic impact if the listed activity is authorised or is not authorised;
- (v) the likely impact of coastal environmental processes on the proposed development;
- (vi) whether the development proposal or listed activity—
- (a) is situated within coastal public property and is inconsistent with the objective of conserving and enhancing coastal public property for the benefit of current and future generations;
- (b) is situated within the coastal protection zone and is inconsistent with the purpose for which a coastal protection zone is established as set out in section 17 of NEM: ICMA;
- (c) is situated within coastal access land and is inconsistent with the purpose for which
- coastal access land is designated as set out in section 18 of NEM: ICMA;
- (d) is likely to cause irreversible or long-lasting adverse effects to any aspect of the coastal environment that cannot satisfactorily be mitigated;
- (e) is likely to be significantly damaged or prejudiced by dynamic coastal processes;
- (f) would substantially prejudice the achievement of any coastal management objective; or
- (g) would be contrary to the interests of the whole community;
- (vii) whether the very nature of the proposed activity or development requires it to be located within

coastal public property, the coastal protection zone or coastal access land;

- (viii) whether the proposed development will provide important services to the public when using coastal public property, the coastal protection zone, coastal access land or a coastal protected area; and
- (ix) the objects of NEM: ICMA, where applicable.

NA

#### (c) Social and Economic aspects:

What is the expected capital value of the project on completion?	R Unkn	own
What is the expected yearly income or contribution to the economy that will be generated by or as a result of the project?	r NA	
Will the project contribute to service infrastructure?	YES	ОИ
Is the project a public amenity?	YES	NO
How many new employment opportunities will be created during the development phase?	Unkno	wn
What is the expected value of the employment opportunities during the development phase?	r Unkn	own
What percentage of this will accrue to previously disadvantaged individuals?	NA%	
How will this be ensured and monitored (please explain):		
Will make use of local and respected contractors as far as possible. For specialised e installations, outside specialist resources will be used. Preference will be giving to e	mploym	ent of
installations, outside specialist resources will be used. Preference will be giving to e local Robertson residents. Langeberg Municipality always apply BEE policy and leg tender process.  How many permanent new employment opportunities will be created during the operational phase of the	mploym	ent of n their
installations, outside specialist resources will be used. Preference will be giving to e local Robertson residents. Langeberg Municipality always apply BEE policy and leg tender process.	mploym islation i	ent of n their
installations, outside specialist resources will be used. Preference will be giving to e local Robertson residents. Langeberg Municipality always apply BEE policy and leg tender process.  How many permanent new employment opportunities will be created during the operational phase of the project?	mploym islation i	ent of n their
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cts:

NA			

#### 2. WASTE AND EMISSIONS

#### (a) Waste (including effluent) management

Will the development proposal produce waste (including rubble) during the development phase?	YES	NO
If yes, indicate the types of waste (actual type of waste, e.g. oil, and whether hazardous or not) and estimated quantity per type?		ox. 4m³
Rubble and standard construction waste		

Will the development proposal produce waste during its operational phase?	YES	NO
If yes, indicate the types of waste (actual type of waste, e.g. oil, and whether hazardous or not) and estimated quantity per type?		NAm³

Will the development proposal require waste	to be treated / disposed of on site?	YES	NO
If yes, indicate the types of waste (actual type of waste, e.g. oil, and whether hazardous or not) and estimated quantity per type per phase of the proposed development to be treated/disposed of?			NAm³
If no, where and how will the waste be treated / disposed of? Please explain. Indicate the types of waste (actual type of waste, e.g. oil, and whether hazardous or not) and estimated quantity per type per phase of the proposed development to be treated/disposed of?  At the municipal landfill site.			ox. 4m³
	• •	YES	NO
Will the development proposal produce waste that will be treated and/or disposed of at another facility other than into a municipal waste stream?		<del>YE\$</del>	NO
If yes, has this facility confirmed that sufficient capacity exists for treating / disposing of the waste to be generated by the development proposal? Provide written confirmation from the facility.		¥E\$	Ю
Does the facility have an operating license? (If yes, please attach a copy of the licence.)		YES	ОИ
Facility name:	-		
Contact person:			
Cell:	Postal address:		
Telephone:	Postal code:		
Fax:	E-mail:		•

Describe the measures that will be taken to reduce, reuse or recycle waste:
NA

#### (b) Emissions into the atmosphere

Will the development proposal produce emissions that will be released into the atmosphere?	YES	NO
If yes, does this require approval in terms of relevant legislation?		NO
If yes, what is the approximate volume(s) of emissions released into the atmosphere?		m³
Describe the emissions in terms of type and concentration and how these will be avoided/managed/treated/mitigated:		
NA		

#### 3. WATER USE

(a) Indicate the source(s) of water for the development proposal by highlighting the appropriate box(es).

Municipal	Water board	Groundwater	<del>River, Stream,</del> <del>Dam or Lake</del>	Other	The project will not use water
-----------	-------------	-------------	---	-------	-----------------------------------

**Note**: Provide proof of assurance of water supply (e.g. Letter of confirmation from the municipality / water user associations, yield of borehole)

1	(h)	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:	NA	m <sup>3</sup>

(c) Does the development proposal require a water use permit / license from DWS?		YES	NO
If yes, please submit the necessary application to the DWS and attach proof thereof to this application	ion as an App	endix.	
The proposed development would not require any Water Use Registration	from Breed	de G	ouritz

Catchment Management agency as the activities will not be within the regulated zone (100m from water course or 500m from wetland).

(d) Describe the measures that will be taken to reduce water demand, and measures to reuse or recycle water:

NA

#### 4. POWER SUPPLY

(a) Describe the source of power e.g. municipality / Eskom / renewable energy source.

No energy supply will be needed for this project.

(b) If power supply is not available, where will power be sourced?

NA

#### 5. ENERGY EFFICIENCY

(a) Describe the design measures, if any, that have been taken to ensure that the development proposal will be energy efficient:

NA

(b) Describe how alternative energy sources have been taken into account or been built into the design of the project, if any:

NA

#### 6. TRANSPORT, TRAFFIC AND ACCESS

Describe the impacts in terms of transport, traffic and access.

NA

#### 7. NUISANCE FACTOR (NOISE, ODOUR, etc.)

Describe the potential nuisance factor or impacts in terms of noise and odours.

Due to construction machinery during the construction/development phase. Construction machinery may cause noise disturbance to the directly adjacent land users/ owners. It is not anticipated that the noise will be considerable and will only be temporary. Noise due to construction activities is unlikely to cause a nuisance to adjacent residential areas.

Note: Include impacts that the surrounding environment will have on the proposed development.

#### 8. OTHER

NA

## SECTION G: IMPACT ASSESSMENT, IMPACT AVOIDANCE, MANAGEMENT, MITIGATION AND MONITORING MEASURES

## 1. METHODOLOGY USED IN DETERMINING AND RANKING ENVIRONMENTAL IMPACTS AND RISKS ASSOCIATED WITH THE ALTERNATIVES

(a) Describe the **methodology** used in determining and ranking the nature, significance consequences, extent, duration and probability of potential environmental impacts and risks associated with the proposed development and alternatives.

Based on the EAP's assessment, issues raised by IAPs and the project team, specialist studies were undertaken to provide information to address the concerns and assess the impacts of the proposed development on the environment.

The various specialists have provided baseline information. This information has been used by the planning team to inform the current development proposals. The specialists are provided with set criteria for undertaking their assessments, to allow for comparative assessment of all issues. These criteria are detailed in the Terms of Reference to each specialist. These criteria are based on the EIA Regulations.

(b) Please describe any gaps in knowledge.

EAP is only knowledgeable with regards to the environmental and ecosystems aspects. Limited knowledge with regard to the emissions and odours that will be generated from road upgrade construction activities.

(c) Please describe the underlying assumptions.

In undertaking the investigation and compiling this report, the following has been assumed:

- The information provided by the client and all specialists is accurate and unbiased;
- The scope of this investigation is to assess the direct and cumulative environmental impacts associated with the development; and
- Should the proposed project be authorised, the applicant will incorporate the recommendations and mitigation measures outlined in this BAR, the EMP and the EA into the detailed design and construction contract specifications and operational management system for the proposed project.
- (d) Please describe the uncertainties.

#### None at this stage

(e) Describe adequacy of the assessment methods used.

Based on the EAP's assessment information was provided to address the concerns and assess the impacts of the proposed development on the environment. Information as provided by the applicant and as collected by the EAP during site surveys etc. has been used to inform the current development proposals.

## 2. IDENTIFICATION, ASSESSMENT AND RANKING OF IMPACTS TO REACH THE PROPOSED ALTERNATIVES INCLUDING THE PREFERRED ALTERNATIVE WITHIN THE SITE

**Note:** In this section the focus is on the identified issues, impacts and risks that influenced the identification of the alternatives. This includes how aspects of the receiving environment have influenced the selection.

(a) List the identified impacts and risks for each alternative.

# DEVELOPMENT PHASE Soil erosion and dust (low impact before mitigation and low impact with mitigation measures); Habitat fragmentation and loss of ecological connectivity (medium impact before mitigation and medium impact with mitigation measures). Noise (low impact before mitigation and low impact with mitigation measures);

	Increase in temporary jobs – positive.
	OPERATIONAL PHASE  None.
	DECOMMISSIONING AND CLOSURE PHASE  The impacts caused during the decommissioning phase are mostly similar to those of the Construction Phase.
Alternative 2:	NA
Alternative x:	NA
No-go Alternative:	The No-Go option will result in the site remaining as is presently.

(b) Describe the impacts and risks identified for each alternative, including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts can be reversed; may cause irreplaceable loss of resources; and can be avoided, managed or mitigated.

The following table serves as a guide for summarising each alternative. The table should be repeated for each alternative to ensure a comparative assessment. (The EAP has to select the relevant impacts identified in blue in the table below for each alternative and repeat the table for each impact and risk).

Note: The EAP may decide to include this section as Appendix J to the BAR.

#### PLEASE SEE APPENDIX J

(c) Provide a summary of the site selection matrix.

The property was the only alternative considered. Construction of a reservoir was assessed against the no go or no development option.

(d) Outcome of the site selection matrix.

The property was the only alternative considered. Construction of a reservoir was assessed against the no go or no development option.

#### 3. SPECIALIST INPUTS/STUDIES, FINDINGS AND RECOMMENDATIONS

Note: Specialist inputs/studies must be attached to this report as Appendix G and must comply with the content requirements set out in Appendix 6 of the EIA Regulations, 2014 (as amended). Also take into account the Department's Circular EADP 0028/2014 (dated 9 December 2014) on the "One Environmental Management System" and the EIA Regulations, 2014, any subsequent Circulars, and guidelines available on the Department's website (http://www.westerncape.gov.za/eadp).

Provide a summary of the findings and impact management measures identified in any specialist report and an indication of how these findings and recommendations have been included in the BAR.

"The site is underlain by geological formations derived from shales. The site vegetation is characterised as Breede Shale Renosterveld (Least Threatened).

The pipeline route was previously disturbed during the construction of the current pipe. The natural vegetation remaining on site is in a moderate condition. No threatened or protected species were recorded on the site. The site is not classified as a Critically Biodiversity Area or Ecological Support area and not identified for conservation purposes. The vegetation that will be impacted is classified as Other Natural Area (ONA). ONA is areas not currently identified as a priority, but retain most of their natural character and perform a range of biodiversity and ecological infrastructure functions. Although not prioritised, they are still an important part of the natural ecosystem. The management objectives are to minimize habitat and species loss and ensure ecosystem functionality through strategic landscape planning. Offers flexibility in permissible land-uses, but some authorisation may still be required for high-impact land-uses.

No sensitive breeding or roosting sites were observed on site during the survey. It is expected that the proposed development will not impact on any listed bird species. Other bird species known to occur on the property will be impacted upon by the proposed development, but they could simply fly

away and move back after construction

#### Construction phase impacts

**Nature of impact:** Loss of Botanical Sensitivity terrestrial indigenous vegetation areas

Cumulative impact: Habitat fragmentation; loss of ecological connectivity and erosion.

**Impact mitigation:** Restrict development to impact area throughout construction phase, ensuring that no areas outside of the proposed development footprint area are further disturbed. Top soil of disturbed areas must be spread over exposed areas and vegetation (branches of surrounding shrubs) must be cut and spread over the exposed areas.

Erosion must be monitored and the area rehabilitated and stabilized as soon as signs of erosions occur."

See APPENDIX G- Ecological Impact Assessment.

#### 4. ENVIRONMENTAL IMPACT STATEMENT

Provide an environmental impact statement of the following:

(i) A summary of the key findings of the EIA.

#### **DEVELOPMENT PHASE**

- Soil erosion and dust (low impact before mitigation and low impact with mitigation measures);
- Noise (low impact before mitigation and low impact with mitigation measures);
- Increase in temporary jobs positive;
- Habitat fragmentation and loss of ecological connectivity (medium impact before mitigation and medium impact with mitigation measures).

#### **OPERATIONAL PHASE**

• None.

#### **DECOMMISSIONING AND CLOSURE PHASE**

The impacts caused during the decommissioning phase are mostly similar to those of the Construction Phase.

- (ii) Has a map of appropriate scale been provided, which superimposes the proposed development and its associated structures and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that should be avoided, including buffers?
- (iii) A summary of the positive and negative impacts that the proposed development and alternatives will cause in the environment and community.

#### **DEVELOPMENT PHASE**

- Soil erosion and dust (low impact before mitigation and low impact with mitigation measures);
- Noise (low impact before mitigation and low impact with mitigation measures);
- Increase in temporary jobs positive.;
- Habitat fragmentation and loss of ecological connectivity (medium impact before mitigation and medium impact with mitigation measures).

#### **OPERATIONAL PHASE**

• None.

#### **DECOMMISSIONING AND CLOSURE PHASE**

The impacts caused during the decommissioning phase are mostly similar to those of the Construction Phase.

#### 5. IMPACT MANAGEMENT, MITIGATION AND MONITORING MEASURES

(a) Based on the assessment, describe the impact management, mitigation and monitoring measures as well as the impact management objectives and impact management outcomes included in the EMPr. The EMPr must be attached to this report as Appendix H.

The key mitigation measure is impact avoidance. Where adverse impacts cannot reasonably be prevented, construction should be managed through the effective implementation of the EMP. Please refer to the EMP for more details on the mitigation and management measures.

(b) Describe any provisions for the adherence to requirements that are prescribed in a Specific Environmental Management Act relevant to the listed activity or specified activity in question.

#### NA

(c) Describe the ability of the applicant to implement the management, mitigation and monitoring measures.

The applicant is ultimately responsible for the implementation of the EMP and the financial cost of all environmental control measures. In accordance with the requirements of the EMP, the applicant must ensure that any person acting on their behalf complies with the conditions / specifications contained in this EMP. In addition, an Environmental Control Officer would be appointed as the onsite implementing agent and would have the responsibility to ensure that their responsibilities are executed in compliance with the EMP. Thus, the applicant has the ability to implement the recommended management, mitigation, and monitoring measures, as appropriate.

(d) Provide the details of any financial provisions for the management of negative environmental impacts, rehabilitation and closure of the proposed development.

#### Not applicable

(e) Provide the details of any financial provisions for the management of negative environmental impacts, rehabilitation and closure of the proposed development.

#### Not applicable

(f) Describe any assumptions, uncertainties, and gaps in knowledge which relate to the impact management, mitigation and monitoring measures proposed.

EAP is only knowledgeable with regards to the environmental impacts, biodiversity and ecosystems aspects. In undertaking the investigation and compiling this report, the following has been assumed:

- •The information provided by the client is accurate and unbiased;
- •The scope of this investigation is to assess the direct and cumulative environmental impacts associated with the development; and
- •Should the proposed project be authorised, the applicant will incorporate the recommendations and mitigation measures outlined in this BAR, the EMP and the EA into the detailed design and construction contract specifications and operational management system for the proposed project.

#### SECTION H: RECOMMENDATIONS OF THE EAP AND SPECIALISTS

	y view as the appointed EAP, the information contain- ched hereto is sufficient to make a decision in respect		YES	ОИ
	·			
	documentation attached hereto is sufficient to make sted activity(ies) should or should not be authorised:	e a decision, please indicate below whether, in	your opir	nion,
	tivity(ies) should be authorised:		YES	OH
Provide re	easons for your opinion			
All poss	ible impacts on the environment have bee	en assessed and can be mitigated an	d mana	aged.
The ass	essment did not lead to any fatal flaws if	the development is approved, provide	ded tha	at the
facility i	s operated in terms of all relevant applical	ole legislation and the EMP managem	ient ac	tivities
implem				
	de a description of any aspects that were condition h are to be included as conditions of authorisation.	al to the findings of the assessment by the EAP	' and Spe	ecialists
The app	olicant must comply with the EMP.			
	u are of the opinion that the activity should be au sures that should in your view be considered for inclus		Jding mit	tigation
	mended that the EA prescribe that:			
	project implementation process should be	subject to standard Environmental N	/anaae	ement
-	nme prescripts and conditions under super		_	
_	ction and decommissioning phases.	,		Ü
	MPr be strictly followed.			
(e) Pleas	se indicate the recommended periods in terms of the	following periods that should be specified in the	e environ	menta
i.	orisation: the period within which commencement must	5		
1.	occur;	3		
ii.	the period for which the environmental	10		
	authorisation is granted and the date on which			
	the development proposal will have been			
	concluded, where the environmental			
	authorisation does not include operational			
	aspects;			
iii.	the period for which the portion of the	10		
	environmental authorisation that deals with			
	non-operational aspects is granted; and			
iv.	the period for which the portion of the	No operational aspects		
	environmental authorisation that deals with operational aspects is granted.	, , , ,		

#### **SECTION I: APPENDICES**

The following appendices must be attached to this report:

APPENDIX			Confirm that Appendix is attached
Appendix A:	Locality map		Υ
	Site development plan(s)		Υ
Appendix B:	A map of appropriate scale, which superimposes the proposed development and its associated structures and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that should be avoided, including buffer areas;		Υ
Appendix C:	Photographs		Υ
Appendix D:	Biodiversity overlay map		Υ
Annondiy E	Permit(s) / license(s) from any other Organ of State, including service letters from the municipality.		N
Appendix E:	Appendix E1:	Copy of comment from HWC.	N
Appendix F:	Public participation information: including a copy of the register of I&APs, the comments and responses report, proof of notices, advertisements and any other public participation information as is required in Section C above.		Y
Appendix G:	Specialist Report(s)		Y
Appendix H :	EMPr		Υ
Appendix I:	Additional information related to listed waste management activities (if applicable)		Ν
Appendix J:	If applicable, description of the impact assessment process followed to reach the proposed preferred alternative within the site.		Υ
Appendix K:	Any Other (if applicable).		Υ

#### Signed copies to be included in the FINAL BAR

#### **SECTION J: DECLARATIONS**

#### THE APPLICANT

Date:

<b>Note:</b> Duplicate this section where there is more than one applicant.
I, in my personal capacity or duly authorised thereto, hereby declare/affirm all the information submitted as part of this Report is true and correct, and that I –
<ul> <li>am aware of and understand the content of this report;</li> <li>am fully aware of my responsibilities in terms of the NEMA, the EIA Regulations in terms of the NEMA (Government Notice No. R. 982, refers) (as amended) and any relevant specific environmental management Act and that failure to fulfil these requirements may constitute an offence in terms of relevant environmental legislation;</li> </ul>
<ul> <li>have provided the EAP and Specialist, Review EAP (if applicable), and Review Specialist (if applicable), and the Competent Authority with access to all information at my disposal that is relevant to the application;</li> <li>will be responsible for complying with conditions that may be attached to any decision(s)</li> </ul>
<ul> <li>issued by the Competent Authority;</li> <li>will be responsible for the costs incurred in complying with the conditions that may be attached to any decision(s) issued by the Competent Authority;</li> </ul>
<b>Note:</b> If acting in a representative capacity, a certified copy of the resolution or power of attorney must be attached.
Signature of the Applicant:
Name of Organisation:

#### THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

I ....., as the appointed EAP hereby declare/affirm:

- the correctness of the information provided as part of this Report;
- that all the comments and inputs from stakeholders and I&APs have been included in this Report;
- that all the inputs and recommendations from the specialist reports, if specialist reports were produced, have been included in this Report;
- any information provided by me to I&APs and any responses by me to the comments or inputs made by I&APs;
- that I have maintained my independence throughout this EIA process, or if not independent, that the review EAP has reviewed my work (Note: a declaration by the review EAP must be submitted);
- that I have throughout this EIA process met all of the general requirements of EAPs as set out in Regulation 13;
- I have throughout this EIA process disclosed to the applicant, the specialist (if any), the Department and I&APs, all material information that has or may have the potential to influence the decision of the Department or the objectivity of any report, plan or document prepared as part of the application;
- have ensured that information containing all relevant facts in respect of the application was distributed or was made available to I&APs and that participation by I&APs was facilitated in such a manner that all I&APs were provided with a reasonable opportunity to participate and to provide comments;
- have ensured that the comments of all I&APs were considered, recorded and submitted to the Department in respect of the application;
- have ensured the inclusion of inputs and recommendations from the specialist reports in respect of the application, if specialist inputs and recommendations were produced;
- have kept a register of all I&APs that participated during the PPP; and
- am aware that a false declaration is an offence in terms of Regulation 48 of the EIA Regulations, 2014 (as amended).

Signature of the EAP:	
Name of Company:	
Date:	
Date:	

#### THE SPECIALIST

Date:

Note: Duplicate this section where there is more than one specialist.
I, as the appointed Specialist hereby declare/affirm the correctness of the information provided or to be provided as part of the application, and that I:
<ul> <li>in terms of the general requirement to be independent:</li> <li>other than fair remuneration for work performed in terms of this application, have no business, financial, personal or other interest in the development proposal or application and that there are no circumstances that may compromise my objectivity; or</li> <li>am not independent, but another specialist (the "Review Specialist") that meets the general requirements set out in Regulation 13 has been appointed to review my work (Note: a declaration by the review specialist must be submitted);</li> <li>in terms of the remainder of the general requirements for a specialist, have throughout this EIA process met all of the requirements;</li> <li>have disclosed to the applicant, the EAP, the Review EAP (if applicable), the Department and I&amp;APs all material information that has or may have the potential to influence the decision of the Department or the objectivity of any report, plan or document prepared or to be prepared as part of the application; and</li> <li>am aware that a false declaration is an offence in terms of Regulation 48 of the EIA Regulations, 2014 (as amended).</li> </ul>
Signature of the Specialist:
Name of Company: