



**DYNAMITE COFFEE SHOP  
MODDERFONTEIN BIRD AND SCULPTURE  
PARK  
MODDERFONTEIN EXT 2  
DRAFT BASIC ASSESSMENT REPORT**

March 2019

Prepared by:

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Environmental Assessment Practitioner

**GENERAL INFORMATION**

<b>Report name:</b>	Draft Basic Assessment Report for the Dynamite Coffee Shop, Modderfontein Bird and Sculpture Park
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<b>Client:</b>	Nevada Group Lakeside (Pty) Ltd
<b>Report Compiled by:</b>	Yonanda Martin CV attached as Appendix I
<b>Date of Report:</b>	1 March 2019
<b>Ref No:</b>	

## DECLARATION OF INDEPENDENCE

I, Yonanda Martin, appointed environmental assessment practitioner responsible for compiling the Draft Basic Assessment Report declare that I: -

- act as an independent environmental consultant, my conclusions are formed independently and without influence from external parties;
- I will perform the work relating to this audit in an objective manner, even if the results and findings are not favourable to the applicant.
- have no financial interest in Nevada Group Lakeside (Pty) Ltd or any of its subsidiaries;
- do not have any financial interest in the undertaking of the activity, other than remuneration for the work performed;
- undertake to disclose, to the competent authority, any material information that has or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document. and
- based on information provided to me by the project proponent, and in addition to information obtained during the course of this study and the site visit, will present the results and conclusion within the associated document to the best of my professional judgment.

Signed:

Date: 2019/03/01

## ABBREVIATIONS AND ACCORNYMS

BAR	Basic Assessment Report
CBA	Critical Biodiversity Area
CoJ	City of Johannesburg Metropolitan Municipality
DWS	Department of Water and Sanitation
EA	Environmental Authorisation
EAP	Environmental Assessment Practitioner
ECO	Environmental Control Officer
EIA	Environmental Impact Assessment
EMI	Environmental Management Inspectorate
EMPr	Environmental Management Programme
ESA	Ecological Support Area
GA	General Authorisation
GDARD	Gauteng Department of Agriculture and Rural Development
GDARD C- Plan	Gauteng Department of Agriculture and Rural Development Conservation Plan (Version 3.3)
GIS	Geographical Information System
GPEMF	Gauteng Province Environmental Management Framework
GSDF	Gauteng Spatial Development Framework
NEMA	National Environmental Management Act, Act No. 107 of 1998
NEMAQA	National Environmental Management: Air Quality Act 39 of 2004
NEMBA	National Environmental Management Biodiversity Act 10 of 2004
NEMPA	National Environmental Management Protected Areas Act 57 of 2003
NEMWA	National Environmental Management: Waste Act 59 of 2008
NFEPA	National Freshwater Ecosystem Priority Areas
OH&S	Occupational Health & Safety
SANBI	South African National Biodiversity Institute
SAHRA	South African Heritage Resources Agency
SDF	Spatial Development Framework
WULA	Water Use License Application

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## INTRODUCTION

Green Tree Environmental Consulting was appointed by Nevada Group Lakeside (Pty) Ltd to conduct the Environmental Impact Assessment (EIA) Process for the reconstruction of the Dynamite Coffee Shop. The new Dynamite Coffee Shop will form part of the upgrades that are envisioned for the overall upgrade of the Modderfontein Bird and Sculpture Park.

The old Dynamite Coffee Shop was located next to Modderfontein Dam No. 1, Portion 1 of Erf 185, Modderfontein Extension 2. The coffee shop was demolished in 2018 and the new coffee shop will be constructed on the existing footprint but will also include an extension of the footprint.

As per the National Environmental Management Act 107 of 1998 (NEMA), Environmental Impact Assessment Regulations 2014, as amended on 7 April 2017, the proposed reconstruction will trigger activities listed in both Listing Notice 1 (GN R327) and Listing Notice 3 (GN R324).

Activity	Description	Project Activity
GN R327, 7 April 2017 Listing Notice 1 – Activity 19	<p>The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse;</p> <p>But excluding where such infilling, depositing, dredging, excavation, removal or moving –</p> <ul style="list-style-type: none"> <li>i. Will occur behind a development setback;</li> <li>ii. Is for maintenance purposes undertaken in accordance with a maintenance management plan;</li> <li>iii. Falls within the ambit of activity 21 in this Notice, in which case that activity applies;</li> <li>iv. Occurs within existing ports or harbors that will not increase the development footprint of the port or harbor; or</li> <li>v. Where such development is related to the development of a port or harbor, in which case activity 26 in Listing Notice 2 of 2014 applies.</li> </ul>	<p>Additional material will be deposited for the expansion of the original coffee shop foundations. The coffee shop is inside the 32m regulated buffer area and therefore Listing Notice 1 – Activity 19 will apply.</p>

<p>GN R324, 7 April 2017 Listing Notice 3 – Activity 14</p>	<p>The development of</p> <ol style="list-style-type: none"> <li>i. Dams or weirs, where the dam or weir, including</li> <li>ii. infrastructure and water surface area exceed 10 square</li> <li>iii. metres; or</li> <li>iv. <b>Infrastructure or structures with a physical footprint of 10 square metres or more;</b></li> </ol> <p>Where such development occurs –</p> <ol style="list-style-type: none"> <li>a. Within a watercourse;</li> <li>b. In front of a development setback; or</li> <li>c. If no development setback has been adopted, within 32 metres of a watercourse' measured from the edge of a watercourse;</li> </ol> <p>Excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour.</p> <p><u>Gauteng:</u></p> <ol style="list-style-type: none"> <li>i. A protected area identified in terms of NEMPAA, excluding conservancies;</li> <li>ii. National Protected Area Expansion Strategy Focus Areas;</li> <li>iii. Gauteng Protected Area Expansion Priority Areas;</li> <li>iv. <b>Sites identified as Critical Biodiversity Areas (CBAs) or Ecological Support Areas (ESAs) in the Gauteng Conservation Plan or in bioregional plans;</b></li> <li>v. Sites identified within threatened ecosystems listed in terms of the National Environmental Management Act: Biodiversity Act (Act No. 10 of 2004);</li> <li>vi. Sensitive areas identified in an environmental management framework adopted by the relevant environmental authority;</li> <li>vii. Sites or areas identified in terms of an international convention;</li> <li>viii. Sites managed as protected areas by provincial</li> </ol>	<p>The footprint of the re-constructed coffee shop will be more or less 396m<sup>2</sup>. The site falls within a CBA and ECA area and therefore Listing Notice 3 is applicable.</p>
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	<p>authorities, or declared as nature reserves in terms of the Nature Conservation Ordinance (Ordinance 12 of 1983) or the NEMPAA;</p> <p>ix. Sites designated as nature reserves in terms of municipal Spatial Development Frameworks; or</p> <p>x. Sites zoned for conservation use or public open space or equivalent zoning</p>	
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**Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2014 (Version 1)**

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**Kindly note that:**

1. This **Basic Assessment Report** is the standard report required by GDARD in terms of the EIA Regulations, 2014.
2. This application form is current as of 8 December 2014. It is the responsibility of the EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
3. **A draft Basic Assessment Report must be submitted, for purposes of comments within a period of thirty (30) days, to all State Departments administering a law relating to a matter likely to be affected by the activity to be undertaken.**
4. **A draft Basic Assessment Report (1 hard copy and two CD's) must be submitted, for purposes of comments within a period of thirty (30) days, to a Competent Authority empowered in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended to consider and decide on the application.**
5. Five (5) copies (3 hard copies and 2 CDs-PDF) of the final report and attachments must be handed in at offices of the relevant competent authority, as detailed below.
6. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
7. Selected boxes must be indicated by a cross and, when the form is completed electronically, must also be highlighted.
8. An incomplete report may lead to an application for environmental authorisation being refused.
9. **Any report that does not contain a titled and dated full colour large scale layout plan of the proposed activities including a coherent legend, overlain with the sensitivities found on site may lead to an application for environmental authorisation being refused.**
10. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the application for environmental authorisation being refused.
11. No faxed or e-mailed reports will be accepted. Only hand delivered or posted applications will be accepted.
12. Unless protected by law, and clearly indicated as such, all information filled in on this application will become public information on receipt by the competent authority. The applicant/EAP must provide any interested and affected party with the information contained in this application on request, during any stage of the application process.
13. Although pre-application meeting with the Competent Authority is optional, applicants are advised to have these meetings prior to submission of application to seek guidance from the Competent Authority.

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**DEPARTMENTAL DETAILS**

Gauteng Department of Agriculture and Rural Development  
Attention: Administrative Unit of the of the Environmental  
Affairs Branch  
P.O. Box 8769  
Johannesburg, 2000  
Department central telephone number: (011) 240 2500

Administrative Unit of the of the Environmental Affairs  
Branch  
Ground floor Diamond Building  
11 Diagonal Street, Johannesburg  
Administrative Unit telephone number: (011) 240 3377

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(For official use only)

NEAS Reference Number:						
File Reference Number:						
Application Number:						
Date Received:						

If this BAR has not been submitted within 90 days of receipt of the application by the competent authority and permission was not requested to submit within 140 days, please indicate the reasons for not submitting within time frame.

**N/A**

Is a closure plan applicable for this application and has it been included in this report?

**N/A**

if not, state reasons for not including the closure plan.

Has a draft report for this application been submitted to a competent authority and all State Departments administering a law relating to a matter likely to be affected as a result of this activity?

**Yes**

Is a list of the State Departments referred to above attached to this report including their full contact details and contact person?

**Yes**

If no, state reasons for not attaching the list.

Have State Departments including the competent authority commented?

**No**

If no, why?

The State Departments will have time till 15 April 2019 to comment on the draft report. The Draft report will be submitted to GDARD after it has been reviewed by the Interested and Affected Parties.

# SECTION A: ACTIVITY INFORMATION

## 1. PROPOSAL OR DEVELOPMENT DESCRIPTION

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

Reconstruction of the Dynamite Coffee Shop, Modderfontein Bird and Sculpture Park

### **Project Description:**

#### Description

The proposed project entails the reconstruction of the Dynamite Coffee Shop. The new Dynamite Coffee Shop will form part of the upgrades that are envisioned for the overall upgrade of the Modderfontein Bird and Sculpture Park.

The old Dynamite Coffee Shop was located next to Modderfontein Dam No. 1, Portion 1 of Erf 185, Modderfontein Extension 2, refer to Figure 1 and Figure 2: Locality Maps. The coffee shop was demolished in 2018 and the new coffee shop will be constructed on the existing footprint but will also include an extension of the footprint, refer to Annexure C for the Master Plan and the Design Concept.

The overall footprint of the coffee shop will be extended from 200m<sup>2</sup> to 396m<sup>2</sup>.

Select the appropriate box

The application is for an upgrade of an existing development

<b>X</b>
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The application is for a new development

--

Other, specify

--

Does the activity also require any authorisation other than NEMA EIA authorisation?

<b>YES</b>	
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If yes, describe the legislation and the Competent Authority administering such legislation

The project also requires a General Authorisation from the Department of Water and Sanitation (DWS). The online application was submitted to the DWS.

If yes, have you applied for the authorisation(s)?

<b>YES</b>	
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If yes, have you received approval(s)? (attach in appropriate appendix)

	<b>NO</b>
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## 2. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

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

<b>Title of legislation, policy or guideline:</b>	<b>Administering authority:</b>	<b>Promulgation Date:</b>
National Environmental Management Act 107 of 1998	DEA & GDARD	27 November 1998
NEMA: Environmental Impact Assessment Regulations 2014, as amended on 7 April 2017	DEA & GDARD	4 December 2014
Constitution of the Republic of South Africa, Act 108 of 1996	DEA & GDARD	18 December 1996
National Environmental Management Biodiversity Act 10 of 2004	DEA & GDARD	7 June 2004
National Environmental Management Protected Areas Act 57 of 2003	DEA & GDARD	18 February 2003
National Environmental Management: Air Quality Act 39 of 2004	DEA & GDARD	11 September 2004
City of Johannesburg Metropolitan Municipality: Air Pollution Control By-Laws	CoJ	2011
Gauteng Noise Control Regulations	CoJ	August 1999
National Water Act No. 36 of 1998	DWS	26 August 1998
National Environmental Management: Waste Act 59 of 2008	DEA & GDARD	10 March 2008
Conservation of Agricultural Resources Act 43 of 1983	DEA & GDARD	21 April 1983
Occupational Health and Safety Act No 85 of 1993	Department of Labour	23 June 1993
Hazardous Substances Act No 5 of 1973	Department of Health	1973
City of Johannesburg Metropolitan Municipality: By-Laws for the Protection of Wild Animals and Birds, 2006	CoJ	2006
City of Johannesburg Metropolitan Municipality: Wetland Layer	CoJ	
Gauteng Sustainability Development Guideline	GDARD	April 2017
Gauteng Conservation Plan – Version 3.3	GDARD	October 2011

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

<b>Legislation, policy or guideline</b>	<b>Description of compliance</b>
National Environmental Management Act 107 of 1998 (NEMA)	NEMA forms the overarching framework for Environmental Legislation. In terms of NEMA: EIA Regulations 2014, as amended on 7 April 2017, an Environmental Authorisation (EA) must be obtained for the reconstruction of the Dynamite Coffee Shop.
NEMA: Environmental Impact Assessment Regulations 2014, as amended on 7 April 2017	The Basic Assessment Report (BAR) and the Environmental Management Programme (EMPr) complies with the format as provided in the NEMA: EIA Regulations 2014, as amended on 7 April 2017, Appendix 1 and 4.  Activities as listed in GN R 327 and R 324 have been applied for.
Constitution of the Republic of South Africa, Act 108 of 1996	The reconstruction of the Dynamite Coffee Shop focus on the minimization of environmental impacts that might result

<b>Legislation, policy or guideline</b>	<b>Description of compliance</b>
	from the construction and the operation of the proposed project in order to comply with the requirements as per Section 24 of the Constitution.
National Environmental Management Biodiversity Act 10 of 2004 NEMBA	NEMBA provides for the management and conservation of the biodiversity of South Africa. The proposed project falls within the Critical Biodiversity Area (CBA) and Ecological Support Area (ESA), as per GDARD's C-Plan, and therefore the EMPr addresses additional management measures to protect these areas.
National Environmental Management Protected Areas Act 57 of 2003 NEMPA	NEMPA allows for the protection and conservation of ecological viable areas within South Africa. The proposed project is not located within a Protected Area as defined by NEMPA.
National Environmental Management: Air Quality Act 39 of 2004 NEMAQA	According to GNR 893, NEMAQA (Act 39 of 2004) the proposed project triggers none of the listed activities. The EMPr addresses the minimise of any emissions that could have an impact on the air quality of the area during the construction phase of the project.
City of Johannesburg Metropolitan Municipality: Air Pollution Control By-Laws	The bylaws are there to ensure that the proposed project avoids air pollution or minimise air pollution within the area of jurisdiction of CoJ. This is addressed as part of the EMPr.
Gauteng Noise Control Regulations	These Regulations are there to ensure that noise impact is avoided or kept to a minimum. The EMPr sets out management measures in order to minimise the impact of noise during the construction phase of the project.
National Water Act No. 36 of 1998 NWA	The NWA (Act 36 of 1998), regulates the use of/ and impacts on natural watercourses within South Africa. The proposed project is located next to the Modderfontein Dam No 1 and therefore a General Authorisation for Section 21-I Activities was submitted to DWA.
National Environmental Management: Waste Act 59 of 2008 NEMWA	NEMWA (Act 59 of 2008) provides for the management of waste. No waste management license will be required for the proposed project. The EMPr addresses the management of waste on site during construction and operational phases of the proposed project.
Occupational Health and Safety Act No 85 of 1993	The Act provides for health and safety of persons at work. The EMPr addresses management and mitigation measures that must be implemented during the construction phase to ensure that all persons working on site are safe.
Hazardous Substances Act No 5 of 1973	This Act addresses the handling and management of hazardous substances. The EMPr allows for the mitigation

Legislation, policy or guideline	Description of compliance
	and management of hazardous substances on site during the construction phase of the proposed project.
City of Johannesburg Metropolitan Municipality: By-Laws for the Protection of Wild Animals and Birds, 2006	Ensuring that the reconstruction of the Dynamite Coffee Shop meets the requirements as per the by-law, especially since the coffee shop is located along the Modderfontein Dam No. 1.
City of Johannesburg Metropolitan Municipality: Wetland Layer	Complying with the suggested wetland layers and appointing a wetland specialist to confirm the extent of the wetland.
Gauteng Sustainability Development Guideline	Ensuring that the proposed project complies with the sustainability guidelines as suggested by City of Joburg.
Gauteng Conservation Plan – Version 3.3	Complying with the suggested CBA and ESA and appointing a specialist to determine the extent of these areas and management/ mitigation measures.

### 3. ALTERNATIVES

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

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

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

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

#### Step 1: Alternative sites:

No site alternatives were considered for the proposed project since the Dynamite Coffee Shop will be reconstructed on the footprint of the old coffee shop. Instead of disturbing additional areas along Modderfontein Dam No. 1 it was decided to reconstruct on the old footprint. The footprint will be extended to include additional space for the coffee shop.

#### Step 2: Alternative Layouts:

The layout for Dynamite Coffee Shop was done to optimize the space but to stay clear of Modderfontein Dam No 1. Various designs were done and the optimal design was chosen for the coffee shop.

Provide a description of the alternatives considered

No.	Alternative type, either alternative: site on property, properties, activity, design, technology, energy, operational or other(provide details of "other")	Description
1	Layout Alternative 1: Proposed	The proposed layout alternative is Revision D. The alternatives are based on changes in the design of the coffee shop. The footprint is therefore the same for all the alternatives.
2	Layout Alternative 2: Alternative	The site alternatives can be seen in Revision A – C. The footprint remains the same but there are small architectural changes to the design.

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



#### 4. PHYSICAL SIZE OF THE ACTIVITY

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

Proposed activity: Layout 1

**Alternatives:**

Alternative 1: Layout 2

Alternative 2: (if any)

Alternative 3: (if any)

**Size of the activity:**

396m<sup>2</sup>

396m<sup>2</sup>



or, for linear activities:

Proposed activity:

**Alternatives:**

Alternative 1: (if any)

Alternative 2: (if any)

Alternative 3: (if any)

**Length of the activity:**



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

**Size of the site/servitude:**

Proposed activity: Layout 1

**Alternatives:**

Alternative 1: Layout 2

0.6641Ha

0.6641Ha



Alternative 2: (if any)  
Alternative 3: (if any)



## 5. SITE ACCESS

### Proposal:

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

YES

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

Describe the type of access road planned:

There is direct access from Queens Road

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

### Alternative 1:

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

YES

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

Describe the type of access road planned:

There is direct access from Queens Road

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

### Alternative 2:

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

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

Describe the type of access road planned:

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

### Alternative 3:

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

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

Describe the type of access road planned:

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

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

Section A 6-8 has been duplicated

N/A

Number of times

(only complete when applicable)

As different layouts on the same site are considered, duplication of this section is not necessary.

## **6. LAYOUT OR ROUTE PLAN**

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

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

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

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

## **7. SITE PHOTOGRAPHS**

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

## **8. FACILITY ILLUSTRATION**

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

# SECTION B: DESCRIPTION OF RECEIVING ENVIRONMENT

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

## Instructions for completion of Section B for linear activities

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

Section B has been duplicated for sections of the route

N/A

times

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

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

Section B has been duplicated for location/route alternatives (complete only when appropriate)

0

times

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

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

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

Section B - Section of Route

N/A

(complete only when appropriate for above)

Section B – Location/route Alternative No.

0

(complete only when appropriate for above)

## 1. PROPERTY DESCRIPTION

**Property description:**  
(Including Physical Address and Farm name, portion etc.)

Portion 1 of Erf 185, Modderfontein Extension 2

## 2. ACTIVITY POSITION

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

**Position:**

**Latitude (S):**

**Longitude (E):**

26° 5'59.85"S

28° 9'19.00"E

**In the case of linear activities:**

**Alternative:**

**Latitude (S):**

**Longitude (E):**

- ☐ Starting point of the activity  
☐ Middle point of the activity  
☐ End point of the activity

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

Addendum of route alternatives  
attached

The 21-digit Surveyor General code of each cadastral land parcel

Proposal	0	1	R	0	7	6	3	0	0	0	0	0	0	1	8	5	0	0	0	0	1
----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

## 3. GRADIENT OF THE SITE

Indicate the general gradient of the site.

1:50 –  
1:20

## 4. LOCATION IN LANDSCAPE

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

Plain

River front

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

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

- Shallow water table (less than 1.5m deep)  
Dolomite, sinkhole or doline areas  
Seasonally wet soils (often close to water bodies)  
Unstable rocky slopes or steep slopes with loose soil  
Dispersive soils (soils that dissolve in water)  
Soils with high clay content (clay fraction more than 40%)  
Any other unstable soil or geological feature  
An area sensitive to erosion

YES	
	NO
YES	
	NO
	NO
	NO
	NO
	NO

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

b) are any caves located on the site(s)

☐ **NO**

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

**Latitude (S):** **Longitude (E):**

c) are any caves located within a 300m radius of the site(s)

☐ **NO**

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

**Latitude (S):** **Longitude (E):**

d) are any sinkholes located within a 300m radius of the site(s)

☐ **NO**

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

**Latitude (S):** **Longitude (E):**

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

## 6. AGRICULTURE

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

☐ **NO**

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

## 7. GROUNDCOVER

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

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

Natural veld - good condition % = 0	Natural veld with scattered aliens % = 0	Natural veld with heavy alien infestation % = 0	<b>Veld dominated by alien species</b> % = 10	<b>Landscaped (vegetation)</b> % = 5
Sport field % = 0	Cultivated land % = 0	Paved surface (hard landscaping) % = 0	<b>Building or other structure</b> % = 30	<b>Bare soil</b> % = 55

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

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

NO

If YES, specify and explain:

Are there any rare or endangered flora or fauna species (including red list species) present within a 200m (if within urban area as defined in the Regulations) or within 600m (if outside the urban area as defined in the Regulations) radius of the site.

NO

If YES, specify and explain:

Are there any special or sensitive habitats or other natural features present on the site?

YES

If YES, specify and explain:

- The site falls within the CBA and ESA as identified by GDARD C-Plan (ver 3.3).
- The site is located within the 32m regulated buffer zone of the Modderfontein Dam No 1.
- According to the wetland delineation the site is not within the wetland boundary. The wetland is located to the east of the proposed site and forms part of Modderfontein Bird and Sculpture Park.

Refer to Figure 8 for the sensitive habitats or to Appendix G for the Wetland Assessment Report.

Was a specialist consulted to assist with completing this section

YES

If yes complete specialist details

Name of the specialist:

Johannes Maree

Qualification(s) of the specialist:

Aquatic Specialist  
SACNASP – 400077/91

Postal address:

Private Bag X5401, Silverton, Pretoria

Postal code:

0127

Telephone:

Cell: 082 564 1211

E-mail:

johannes@flori.co.za

Fax:

Are any further specialist studies recommended by the specialist?

NO

If YES, specify:

If YES, is such a report(s) attached?

If YES list the specialist reports attached below

Signature of specialist:

Date:


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

## 8. LAND USE CHARACTER OF SURROUNDING AREA

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

1. Vacant land <b>X</b>	2. River, stream, wetland <b>X</b>	3. Nature conservation area	4. Public open space	5. Koppie or ridge
6. Dam or reservoir <b>X</b>	7. Agriculture	8. Low density residential	9. Medium to high density residential <b>X</b>	10. Informal residential
11. Old age home <b>X</b>	12. Retail <b>X</b>	13. Offices	14. Commercial & warehousing	15. Light industrial
16. Heavy industrial <sup>AN</sup>	17. Hospitality facility	18. Church <b>X</b>	19. Education facilities	20. Sport facilities
21. Golf course/polo fields	22. Airport <sup>N</sup>	23. Train station or shunting yard <sup>N</sup>	24. Railway line <sup>N</sup>	25. Major road (4 lanes or more) <sup>N</sup>
26. Sewage treatment plant <sup>A</sup>	27. Landfill or waste treatment site <sup>A</sup>	28. Historical building <b>X</b>	29. Graveyard	30. Archeological site
31. Open cast mine	32. Underground mine	33. Spoil heap or slimes dam <sup>A</sup>	34. Small Holdings	
Other land uses (describe):	Private Open Space <b>X</b>			

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

	9	2, 6	2, 6	2, 6	1, 2, 6	
	9	2, 6	2, 6	2, 6	2, 6	
WEST	9	2, 6, 12		2, 6	2	EAST
	9	12, 18, 28, 11	1, 9, 11	1, 9	2, 9	
	9	9	9, 11	9	9	
			SOUTH			



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

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

Have specialist reports been attached  
If yes indicate the type of reports below

YES

Wetland Assessment

## 9. SOCIO-ECONOMIC CONTEXT

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

Modderfontein Bird and Sculpture Park is located in Modderfontein and falls within the Johannesburg Metropolitan Municipality. The area has a moderate population density due to the combination of residential estates, urban development (such as commercial/ business parks) and open space. Residents are from middle to high income areas and have access to all municipal services. The newly constructed Flamingo Shopping Centre is located to the south of the proposed project site, proposed activities for the area includes a new family restaurant, coffee shop and a library. The Modderfontein Conservancy is located to the north of the project site. The Modderfontein Conservation Society as well as other Home Owner Associations are very active in the community and provide a variety of social services to the community. Other recreational activities include the Modderfontein Golf Club. To area to the east and the south-east of the project site are mainly commercial, retail and warehouses and include area such as Longmeadow Business Park.

## 10. CULTURAL/HISTORICAL FEATURES

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

38. (1) *Subject to the provisions of subsections (7), (8) and (9), any person who intends to undertake a development categorised as-*
- (a) the construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;*
  - (b) the construction of a bridge or similar structure exceeding 50m in length;*
  - (c) any development or other activity which will change the character of a site-*
    - (i) exceeding 5 000 m<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 10 000 m<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.*

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

If YES, explain:

YES	
-----	--

The old coffee shop building is older than 60 years and it is unclear when the building was constructed but it is suggested that the building was constructed between 1945 and 1955.

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

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

The specialist findings are as follow:

- The building has no unique architectural features and shows a common design that has been used for the last 15 years.
- The original building served a very functional and common purpose and it has little value as an artefact reflecting the cultural heritage of South Africa.
- The building cannot be considered a landmark in the city, neither as architectural feature by scale and size, nor by its architectural vocabulary and outstanding architecture or design.
- Any changes to the building must be submitted for approval.

Refer to Appendix G for the Heritage Report and the Demolition Permit from CoJ.

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

**YES**

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

**YES**

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

# SECTION C: PUBLIC PARTICIPATION (SECTION 41)

## 1. THE ENVIRONMENTAL ASSESSMENT PRACTITIONER MUST CONDUCT PUBLIC PARTICIPATION PROCESS IN ACCORDANCE WITH THE REQUIREMENT OF THE EIA REGULATIONS, 2014.

### 2. LOCAL AUTHORITY PARTICIPATION

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

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

☒ YES

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

☐ NO

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

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

The Draft BAR was submitted to the local authority for comments which will be included in the Draft BAR submitted to GDARD together with the application. The commenting period will end on the 15<sup>th</sup> of April 2019.

### 3. CONSULTATION WITH OTHER STAKEHOLDERS

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

Has any comment been received from stakeholders?

☐ NO

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

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

The Draft BAR was submitted to the identified stakeholders for comments which will be included in the Draft BAR submitted to GDARD together with the application.

### 4. GENERAL PUBLIC PARTICIPATION REQUIREMENTS

The Environmental Assessment Practitioner must ensure that the public participation process is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention

should be given to the involvement of local community structures such as Ward Committees and ratepayers associations. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was flawed.

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

## **5. APPENDICES FOR PUBLIC PARTICIPATION**

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

Appendix 1 – Proof of site notice

Appendix 2 – Written notices issued as required in terms of the regulations

Appendix 3 – Proof of newspaper advertisements

Appendix 4 – Communications to and from interested and affected parties

Appendix 5 – Minutes of any public and/or stakeholder meetings

Appendix 6 - Comments and Responses Report

Appendix 7 – Comments from I&APs on Basic Assessment (BA) Report

Appendix 8 – Comments from I&APs on amendments to the BA Report

Appendix 9 – Copy of the register of I&APs

# SECTION D: RESOURCE USE AND PROCESS DETAILS

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

## Instructions for completion of Section D for alternatives

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

Section D has been duplicated for alternatives

0

times

(complete only when appropriate)

Section D Proposal:

(complete only when appropriate for above)

**The section below is applicable to both layout alternatives**

## 1. WASTE, EFFLUENT, AND EMISSION MANAGEMENT

### Solid waste management

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

YES

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

156m<sup>3</sup>

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

Rubble removal companies will be appointed to remove the construction rubble

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

The rubble will be disposed of by the contractor at a registered dumping site or will be recycled and used as foundation for other projects.

Will the activity produce solid waste during its operational phase?

YES

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

28m<sup>3</sup>

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

The solid waste management of Dynamite Coffee Shop will form part of the waste management at the Flamingo Shopping Centre. The waste is collected by the developer and taken to Flamingo Shopping Centre where it is separated into the different waste streams; organic waste, glass, tin, paper and plastic. The waste is compacted on site by a Bulkmatech Compactor and collected by a registered company. The photos below show the existing waste management that is implemented at the Flamingo Shopping Centre.



Photo 1: Separation of the waste on site.



Photo 2a & b: The Bulkmatech Compactor that compacts the waste for collection.

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

NO

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

It is collected by a registered company and disposed of on their property or recycled.

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

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

☐ YES ☒ NO

If yes, inform the competent authority and request a change to an application for scoping and EIA.

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

☐ YES ☒ NO

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

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

Rubble from the construction phase will be recycled and used as part of the foundations for other projects.

Recycling of waste during operation will be done as far as possible.

### Liquid effluent (other than domestic sewage)

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

☐ YES ☒ NO

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

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

☐ YES ☒ NO

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

☐ YES ☒ NO

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

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

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

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

☐ YES ☒ NO

If yes, provide the particulars of the facility:

Facility

name:

Contact

person:

Postal

address:

Postal code:

Telephone:

E-mail:

Cell:

Fax:

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

### Liquid effluent (domestic sewage)

Will the activity produce domestic effluent that will be disposed of in a municipal sewage system?

☒ YES ☐ NO



If yes, what estimated quantity will be produced per month?  
If yes, has the municipality confirmed that sufficient capacity exists for treating / disposing of the domestic effluent to be generated by this activity(ies)?

	8m <sup>3</sup>
YES	

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

	NO
--	----

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

### Emissions into the atmosphere

Will the activity release emissions into the atmosphere?  
If yes, is it controlled by any legislation of any sphere of government?  
If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.  
If no, describe the emissions in terms of type and concentration:

	NO
--	----

## 2. WATER USE

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

municipal

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

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

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

YES	
-----	--

If yes, list the permits required

A General Authorisation will be required for the following activities:

Section 21 i

altering the bed, banks, course or characteristics of a watercourse.

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

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

YES	
	NO

## 3. POWER SUPPLY

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

Municipality

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

#### **4. ENERGY EFFICIENCY**

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

The only alternative energy that has been taken into consideration is the use of solar lights. The details regarding the material used for the actual building or whether gas will be used for cooking is not yet available.

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

The only alternative energy that has been taken into consideration is the use of solar lights and possible use of a solar geyser.

# SECTION E: IMPACT ASSESSMENT

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

## 1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summarise the issues raised by interested and affected parties.

No issues have been received to date, the draft BAR was circulated to I&APs and they have until 5 April 2019 to comment. The comments will be included in the Comments & Responses Report.

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

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

No comments yet, the draft BAR was circulated to I&APs and they have until 5 April 2019 to comment. The detailed responses will be included in the Comments & Responses Report.

## 2. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION AND OPERATIONAL PHASE

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

In order to discuss the significance of the Project impacts the intensity, duration, extent and probability for each impact will be determined. The following criteria will be used:

Nature of Impact	Negative
	Positive
Extent of Impact	Site
	Local
	Regional
	National
	Global
Duration of Impact	Construction period only
	Short term
	Medium term
	Long term
	Permanent
Intensity / Severity (Negative or Positive)	High
	Moderate – High
	Moderate
	Low- Moderate

Probability	Low Improbable Unlikely Probable Highly Probable Definite
Significance	None Low Moderate High Fatally Flawed
Refer to the Appendix I for the detailed methodology.	

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

FLORA			
Damage or loss of habitat due to construction and operational activities			
Description	Before Mitigation	After Mitigation	Mitigation Measure
Weeds and alien species will be introduced and seeds will spread due to disturbance	Moderate	None	<ul style="list-style-type: none"> <li>Implementation of an Alien Invasive Species Eradication Plan</li> <li>Soil stockpiles must be located away from the watercourse</li> </ul>
Some of the vegetation within the watercourse and buffer area will be removed.	Moderate	None	<ul style="list-style-type: none"> <li>All sensitive environments must be fenced off before any construction on site can start in order to limit the area that will be cleared</li> </ul>
Construction workers might create new pathways.	Low	None	<ul style="list-style-type: none"> <li>All sensitive environments must be fenced off before any construction on site can start.</li> <li>No workers allowed within the sensitive areas.</li> <li>"No-Entry" signs must be placed on the fence so as to warn pedestrians not to enter the areas.</li> <li>Clear pathways for construction workers must be identified.</li> </ul>
Dumping of waste within the watercourse	Low	None	<ul style="list-style-type: none"> <li>All sensitive environments must be fenced off before any construction on site can start.</li> </ul>

			<ul style="list-style-type: none"> <li>• A designated area must be provided for dumping of waste, this area must be located far away from the sensitive environmental areas.</li> <li>• Waste must be collected on a regular basis to avoid it from spreading.</li> </ul>
Burning of vegetation on site.	None	None	<ul style="list-style-type: none"> <li>• No burning is allowed on site, except if it is a planned fire such as a braai.</li> </ul>
Construction vehicles encroaching onto the Modderfontein Dam No. 1	Moderate	None Low	<ul style="list-style-type: none"> <li>• The construction site must be fenced off before any construction on site can start.</li> <li>• No workers allowed within the sensitive areas.</li> <li>• No construction vehicles are allowed within the sensitive environments.</li> </ul>
Erosion and siltation will result in damage of the existing vegetation cover along the Modderfontein Dam No. 1	Moderate	Low	<ul style="list-style-type: none"> <li>• Erosion measures must be implemented at all times.</li> <li>• Grass bales can be used between the construction site and Modderfontein Dam No. 1</li> </ul>
<b>FAUNA AND BIRDS</b>			
Decrease in the biodiversity of fauna and avifauna			
Noise pollution might disturb the fauna and avifauna on site.	Low	None	<ul style="list-style-type: none"> <li>• Noise must be limited to the normal working hours and kept to a minimum.</li> </ul>
Dumping of waste and construction material within the sensitive habitats	Moderate	None	<ul style="list-style-type: none"> <li>• No dumping is allowed on site.</li> <li>• Designated areas must be identified for construction waste.</li> </ul>
Fires	Moderate	None	<ul style="list-style-type: none"> <li>• No fires are allowed on site.</li> </ul>
Movement of construction vehicles close to the watercourse	Low	None	<ul style="list-style-type: none"> <li>• Limit access to the watercourse and buffer areas by fencing of the construction site</li> </ul>
<b>SURFACE WATER</b>			
Pollution or loss of surface water			
Spillage of fuel / oil from construction vehicles or containers	High	Moderate	<ul style="list-style-type: none"> <li>• Keep vehicles in good working order.</li> <li>• Spills must be cleaned up immediately.</li> <li>• Spill kits must be provided on site.</li> </ul>
Spillage of chemicals	High	None	<ul style="list-style-type: none"> <li>• All chemicals must be stored in a locked container with an impervious surface.</li> <li>• Spills must be cleaned up immediately.</li> <li>• Spill kits must be provided.</li> </ul>

			<ul style="list-style-type: none"> <li>All empty chemical containers must be placed in a bin marked as hazardous waste and must be taken to a hazardous waste site.</li> </ul>
Spillage of cement	Moderate	Low	<ul style="list-style-type: none"> <li>Cement must be contained in a locked container with an impervious surface.</li> </ul>
Mixing of cement on soil surface	Moderate	None	<ul style="list-style-type: none"> <li>Mixing of cement must take place on impervious surfaces such as a drip tray or a wheelbarrow.</li> <li>Plastic must be provided underneath the drip tray and wheelbarrow so as to avoid runoff from infiltrating into the ground.</li> <li>Mixing of cement must take place outside the watercourse and buffer zones and must be done on a flat / level area.</li> <li>If the mixing of cement is done in the existing parking area it is recommended that plastic or another type of impervious material is used to cover the pavement.</li> </ul>
Maintenance or fixing of vehicles / machinery on site	Moderate	None	<ul style="list-style-type: none"> <li>Maintenance or the fixing of broken vehicles is not allowed on site.</li> <li>If there is not other alternative a drip tray and plastic must be used underneath the truck.</li> </ul>
Washing of vehicles / machinery on site	Moderate	Low	<ul style="list-style-type: none"> <li>Washing of machinery / vehicles is not allowed on site</li> </ul>
Siltation and Erosion	Moderate	None	<ul style="list-style-type: none"> <li>Erosion control measures, such as grass bales must be used. Especially along the Modderfontein Dam No. 1 boundary.</li> </ul>
Washing up (bathing, hand washing an washing of dishes / containers or clothes)	Moderate	None	<ul style="list-style-type: none"> <li>Provide a proper area where staff can wash up.</li> </ul>
Excessive water usage	Moderate	None	<ul style="list-style-type: none"> <li>No water can be extracted from the watercourse during the construction phase of the project.</li> </ul>
<b>GROUNDWATER</b> Pollution of groundwater			
Spillage of fuel / oil from construction vehicles or containers	Moderate	Low	<ul style="list-style-type: none"> <li>Keep vehicles in good working order.</li> <li>Spills must be cleaned up immediately.</li> <li>Spill kits must be provided on</li> </ul>

			site.
Spillage of chemicals	Moderate	Low	<ul style="list-style-type: none"> <li>• All chemicals must be stored in a locked container with an impervious surface.</li> <li>• Spills must be cleaned up immediately.</li> <li>• Spill kits must be provided.</li> <li>• All empty chemical containers must be placed in a bin marked as hazardous waste and must be taken to a hazardous waste site.</li> </ul>
Spillage of cement	Moderate	Low	<ul style="list-style-type: none"> <li>• Cement must be contained in a locked container with an impervious surface.</li> </ul>
Mixing of cement on soil surface	Moderate	Low	<ul style="list-style-type: none"> <li>• Mixing of cement must take place on impervious surfaces such as a drip tray or a wheelbarrow.</li> <li>• Plastic must be provided underneath the drip tray and wheelbarrow so as to avoid runoff from infiltrating into the ground.</li> <li>• Mixing of cement must take place outside the watercourse and buffer zones and must be done on a flat / level area.</li> <li>• If the mixing of cement is done in the existing parking area it is recommended that plastic or another type of impervious material is used to cover the pavement.</li> </ul>
Maintenance or fixing of vehicles / machinery on site	Moderate	Low	<ul style="list-style-type: none"> <li>• Maintenance or the fixing of broken vehicles is not allowed on site.</li> <li>• If there is not other alternative a drip tray and plastic must be used underneath the truck.</li> </ul>
Washing of vehicles / machinery on site	Moderate	Low	<ul style="list-style-type: none"> <li>• Washing of machinery / vehicles is not allowed on site</li> </ul>
Ablution facilities risk leakage	Moderate	Low	<ul style="list-style-type: none"> <li>• Ensure that the ablution facilities are secured and in good working order</li> </ul>
Washing up (bathing, hand washing and washing of dishes / containers)	Moderate	Low	<ul style="list-style-type: none"> <li>• Provide a proper area where staff can wash up or alternatively existing ablution facilities must be used.</li> </ul>
<b>SOIL</b> Pollution of the soil			
Removal of vegetation	Moderate	Low	<ul style="list-style-type: none"> <li>• The removal of vegetation will be limited to the project footprint.</li> </ul>
Spillage of fuel / oil from	Moderate	Low	<ul style="list-style-type: none"> <li>• Keep vehicles in good</li> </ul>

construction vehicles or containers			<p>working order.</p> <ul style="list-style-type: none"> <li>• Spills must be cleaned up immediately.</li> <li>• Spill kits must be provided on site.</li> </ul>
Spillage of chemicals	Moderate	Low	<ul style="list-style-type: none"> <li>• All chemicals must be stored in a locked container with an impervious surface.</li> <li>• Spills must be cleaned up immediately.</li> <li>• Spill kits must be provided.</li> <li>• All empty chemical containers must be placed in a bin marked as hazardous waste and must be taken to a hazardous waste site.</li> </ul>
Spillage of cement	Moderate	Low	<ul style="list-style-type: none"> <li>• Cement must be contained in a locked container with an impervious surface.</li> </ul>
Mixing of cement on soil surface	Moderate	Low	<ul style="list-style-type: none"> <li>• Mixing of cement must take place on impervious surfaces such as a drip tray or a wheelbarrow.</li> <li>• Plastic must be provided underneath the drip tray and wheelbarrow so as to avoid runoff from infiltrating into the ground.</li> <li>• Mixing of cement must take place outside the watercourse and buffer zones and must be done on a flat / level area.</li> <li>• If the mixing of cement is done in the existing parking area it is recommended that plastic or another type of impervious material is used to cover the pavement.</li> </ul>
Maintenance or fixing of vehicles / machinery on site	Moderate	Low	<ul style="list-style-type: none"> <li>• Maintenance or the fixing of broken vehicles is not allowed on site.</li> <li>• If there is no other alternative a drip tray and plastic must be used underneath the truck.</li> </ul>
Washing of vehicles / machinery on site	Moderate	Low	<ul style="list-style-type: none"> <li>• Washing of machinery / vehicles is not allowed on site</li> </ul>
Erosion of soil	Moderate	Low	<ul style="list-style-type: none"> <li>• Erosion must be prevented by implementing the storm water management plan such as the packing of grass bales.</li> <li>• Only remove the necessary vegetation on site.</li> </ul>
Unnecessary loss of soils due to site preparation	Moderate	Low	<ul style="list-style-type: none"> <li>• Care must be taken so as to save as much soil as possible as this will be used during the</li> </ul>



			rehabilitation and operation phases of the project.
Compaction of the soil due to construction activities and movement of vehicles / machinery	Moderate	Low	<ul style="list-style-type: none"> <li>• Compaction of soil can be mitigated by limiting the movement of the vehicles / machinery on site.</li> </ul>
Washing away of soil from stockpiles	Moderate	Low	<ul style="list-style-type: none"> <li>• Cover stock piles with shade nets or vegetate to prevent erosion</li> </ul>
<b>AIR QUALITY</b> Air pollution			
Fires on site	Moderate	None	<ul style="list-style-type: none"> <li>• No fires on site unless it is a controlled fire for braai/picnic purposes.</li> </ul>
Emissions from construction vehicles	Moderate	None	<ul style="list-style-type: none"> <li>• Maintain vehicles to minimise impact</li> </ul>
Waste flying through the air.	Moderate	None	<ul style="list-style-type: none"> <li>• Waste collection must be on a regular basis.</li> <li>• Enough waste bins must be provided and site clean ups must take place at least once a day.</li> <li>• Vehicles collecting waste must be covered.</li> </ul>
Cement bags / particles flying through the air	Moderate	None	<ul style="list-style-type: none"> <li>• Cement bags must be collected on a regular basis and must be placed in a bin with a lid.</li> </ul>
Particulate matter and dust flying off moving vehicles	Moderate	None	<ul style="list-style-type: none"> <li>• Cover loads on back of all construction vehicles</li> </ul>
Particulate matter may be lifted from the site and pose a health threat	Moderate	None	<ul style="list-style-type: none"> <li>• Dust suppression techniques must be implemented.</li> </ul>
<b>VISUAL IMPACTS</b> Decline in the sense of place and visual resource of the area			
Site clearance / removal of vegetation	Low	Low	<ul style="list-style-type: none"> <li>• Only areas that will be constructed must be cleared of vegetation.</li> </ul>
Dust created during the construction activities	Moderate	None	<ul style="list-style-type: none"> <li>• Dust suppression techniques must be implemented.</li> </ul>
Waste on site	Low	None	<ul style="list-style-type: none"> <li>• Waste must be collected on a regular basis.</li> <li>• A specific area within the construction office area must be demarcated for all waste stockpiles.</li> <li>• Regular clean-up of the site must take place.</li> </ul>
Nuisance / eyesore	Low	Low	<ul style="list-style-type: none"> <li>• The construction site must be kept neat and tidy.</li> <li>• Construction site must be fenced and shade net must be used to screen the site.</li> </ul>
<b>HEALTH</b> Spreading of diseases/ degradation of health			

Using the nature for ablution instead of toilets	Low	None	<ul style="list-style-type: none"> <li>Enough toilets must be provided on site.</li> <li>The toilets should be located where people are working so as to provide easy and quick access.</li> <li>Workers must be informed that it is inappropriate to use the feld when toilets are available.</li> </ul>
Dust created during construction	Moderate	Low	<ul style="list-style-type: none"> <li>Dust suppression techniques must be used.</li> </ul>
Dumping of waste on site	Moderate	Low	<ul style="list-style-type: none"> <li>A designated area must be identified for construction waste and must be cleaned on a regular basis.</li> </ul>
Workers not using / wearing PPE	High	None	<ul style="list-style-type: none"> <li>All workers must be provided with the correct PPE and they have to wear it when working on site.</li> </ul>
Burning of material / hazardous waste on site	Moderate	None	<ul style="list-style-type: none"> <li>No burning of any material, whether it is hazardous or not, are allowed to take place on site.</li> <li>The only fires aloud are fires for an organised braai or social event.</li> </ul>
Spreading of diseases	Moderate	None	<ul style="list-style-type: none"> <li>All workers must be informed of potential health risks on site as well as proper hygiene.</li> <li>Liquid soap, toilet paper and proper canteen / eating facilities must be provided.</li> </ul>
Dehydration due to a lack of drinking water	High	None	<ul style="list-style-type: none"> <li>It is essential that drinking water be provided on site.</li> <li>The drinking water must be in a shaded area.</li> </ul>
<b>NOISE</b> Nuisance to the Community			
Noise from construction related activities	Moderate	Low	<ul style="list-style-type: none"> <li>Where possible construction work should be undertaken during normal working hours (06H00 – 18H00) and not over a weekend and public holiday unless agreed with the community.</li> </ul>
<b>ODOUR</b> Nuisance to the Community			
Odour from burning material on site	Low	None	<ul style="list-style-type: none"> <li>No burning is allowed on site, except if it is a planned fire such as a braai.</li> </ul>
Odour from construction waste on site	Low	None	<ul style="list-style-type: none"> <li>Waste must be collected on a regular basis and the area where waste is stored must be cleaned.</li> </ul>

<b>TRAFFIC</b> Impact on the flow of traffic			
Increase in construction vehicles	Moderate	Low	<ul style="list-style-type: none"> <li>• Ensure that there are enough warning signs.</li> <li>• Construction vehicles to limit movement on local roads.</li> </ul>
Traffic congestions due to the construction activities	Moderate	None	<ul style="list-style-type: none"> <li>• Traffic warning signs and traffic control must take place to ensure that the traffic flows better.</li> </ul>
<b>SAFETY AND SECURITY</b>			
Theft of construction material and equipment	Moderate	None	<ul style="list-style-type: none"> <li>• The construction site must be fenced off</li> <li>• Security Company must be appointed to secure the area.</li> </ul>
The site is unsafe for locals, especially kids playing on construction site or residents passing through the site	High	Low	<ul style="list-style-type: none"> <li>• When construction of the soccer field and associated activities are taking place that section of the park must be fenced.</li> </ul>
Home owner security at risk due to influx of workers into area	Moderate	Moderate	<ul style="list-style-type: none"> <li>• No workers to be accommodated on site.</li> <li>• The Community Police Forum must be notified of the construction activities.</li> </ul>
Construction vehicles at risk of theft or vandalism	Moderate	None	<ul style="list-style-type: none"> <li>• If the construction vehicles are parked on site, the construction site must be fenced off and a Security Company must be appointed to secure the area.</li> </ul>
Unfair treatment of staff member can lead to dispute or strikes	Moderate	None	<ul style="list-style-type: none"> <li>• All workers must be treated fairly and a CLO must be appointed to assist with the communication between the workers and the contractor.</li> </ul>
Safety risk when crossing busy roads to get to work / construction site	High	Low	<ul style="list-style-type: none"> <li>• Staff members must be informed of road rules.</li> </ul>
Using inappropriate working methods or equipment	Moderate	None	<ul style="list-style-type: none"> <li>• All equipment must be serviced on a regular bases and workers must be corrected if using the equipment incorrectly</li> </ul>
Workers not wearing the correct PPE	High	Low	<ul style="list-style-type: none"> <li>• All workers / staff members must be provided with the correct PPE.</li> <li>• All PPE must be marked so as to avoid workers from using each other's PPE</li> </ul>

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

Wetland Assessment Report  
Heritage Report

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

The following assumptions were made:

- The detailed designs for the coffee shop was not yet available and will only be done at a later stage once the lease agreement is in place for the coffee shop. The maximum footprint for the coffee shop was therefore used in order to do the impact assessment and to describe the mitigation measures.
- Any recommendations, conditions and mitigation measures must be factored into the detail design once the Environmental Authorisation is issued.

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

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

There is currently no decommissioning and closure plans for the proposed project. Should the project however be decommissioned a BAR and EMPr must be submitted for the decommissioning.

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

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

#### 4. CUMULATIVE IMPACTS

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

There are currently no similar activities within Modderfontein Bird and Sculpture Park, there are however other similar activities such as the Flamingo Shopping Centre, the parking area and the activities associated with the park that could have a cumulative impact if the area is not properly managed:

- Pollution due to littering or waste within the park and surrounding areas;  
There will be an increase in people using the park and therefore also in increase in people using the coffee shop. This could lead to an increase in waste generated, especially waste associated with take-aways. If there are not enough dustbins located outside the coffee shop or inside the park, or if the bins are not cleaned on a regular basis this could lead to a negative cumulative impact on the environment and health.
- Encroachment into the watercourse;  
The use of the coffee shop together with the park could lead to the encroachment of people's footprint unto the watercourse. Balustrades must be erected along the boundary of the watercourse in order to prevent people from encroaching into this area. If at all possible, people visiting the coffee shop must be limited to the footprint of the coffee shop and not be allowed to encroach unto the watercourse.
- Erosion;  
Proper walkways must be provided to direct people on where to walk, especially when people visit the coffee shop and goes to the park. Cumulative impacts will result due to the compaction of the soil and improper management of storm water.
- Stormwater;  
The construction of the coffee shop will contribute to the percentage of land covered by impervious surfaces. Although there was a coffee shop previously this coffee shop will have a bigger footprint. Proper management must be implemented for storm water control to ensure that the storm water doesn't damage the watercourse or cause erosion.
- Noise;  
The coffee shop together with the park and the new shopping centre could have a cumulative negative impact on noise in the neighbourhood. Noise levels must be kept to a minimum or within the standards as given by the Municipality.
- Traffic;  
There are currently 3 new developments in the area, the Flamingo Shopping Centre was recently improved, the Modderfontein Bird and Sculpture Park is being improved

and more user friendly and the reconstruction of the Dynamite Coffee Shop. The developments will attract more people which can either be more pedestrians or more vehicles. This could result in a cumulative negative impact on traffic in the area, especially along Queens Road. Proper pedestrian crossings and warning signs must be erected to ensure that everybody is safe and traffic flows through the area.

## **5. ENVIRONMENTAL IMPACT STATEMENT**

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

### **Proposal**

The proposed reconstruction of the Dynamite Coffee Shop will have a low impact on the direct environment. The coffee shop could have a positive impact on the community by providing space for community interaction.

The environmental impacts during construction period will be low if properly managed. The impacts will be more of a nuisance during this period as it could cause traffic congestion, loud noises, dust and could be visually unpleasing.

During operation the impact will be low to none. The impacts during operation will be manageable and will rely on good maintenance. Typical impacts will be littering, noise, invasion of alien species, silt, erosion and storm water.

### **Alternative 1:**

The impacts for Alternative 1 will be the same as that of the Proposal. Alternative 1 is just a change in the layout but the footprint and the activities are the same and will therefore have the same impact. The section below is therefore a duplication of the summary above.

The proposed reconstruction of the Dynamite Coffee Shop will have a low impact on the direct environment. The coffee shop could have a positive impact on the community by providing space for community interaction.

The environmental impacts during construction period will be low if properly managed. The impacts will be more of a nuisance during this period as it could cause traffic congestion, loud noises, dust and could be visually unpleasing.

During operation the impact will be low to none. The impacts during operation will be manageable and will rely on good maintenance. Typical impacts will be littering, noise, invasion of alien species, silt, erosion and storm water.

### **Alternative 2:**



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**Alternative 3:****No-go (compulsory)**

The no-go option will mean that the coffee shop will not be reconstructed and there will therefore be no construction activities. The section will be vegetated but left as is. This area will have a positive contribution to the environment but will become an eyesore/nuisance if not properly maintained and managed. Specifically referring to the invasion of alien plant species and weeds, erosion, becoming an area used by taxi's or for dumping of waste. This could therefore result in a negative impact on the environment.

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

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

The proposal/preferred alternative was chosen based on the layout/ design. There was no alternative option for the site since the idea was to replace the old coffee shop with a new one. The main reason for this was due to bad structure of the old building.

The footprint of the alternatives is exactly the same and the impact therefore the same.

Although the reconstruction of the coffee shop will have a negative impact on the environment, the impacts will be low and easy to manage, both during construction and the operational phases.

The coffee shop could have a positive impact on the community as it will create a place where people can meet and will contribute to the overall sense of place of the area and the community.

**7. SPATIAL DEVELOPMENT TOOLS**

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

**Gauteng Conservation Plan: C-Plan ver 3.3**

Geographic Information Systems were used in determining the status quo of the receiving environment. The Gauteng Conservation Plan (C-Plan ver 3.3) was used to determine whether there are any sensitive surrounding environments. It was established that the proposed development falls within CBA and ESA areas.

**Gauteng Environmental Management Framework (2014)**

The Gauteng Environmental Management Framework (EMF) was used to determine in which zone the proposed project falls and if the project could be exempted.

## 8. RECOMMENDATION OF THE PRACTITIONER

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

YES

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

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

- Adhere to the Environment Management Programme (EMPr).
- The area should be kept clear of litter and construction rubble.
- Proper site management must be undertaken.
- Appointment of an Environmental Control Officer
- The Environmental Control Officer must be appointed to enforce the EMPr.
- Rehabilitation after construction must be done according to the Landscape Architect's specifications.
- Only indigenous vegetation should be utilised during rehabilitation.
- Disposal of waste at a registered waste disposal site.
- Proper traffic control must be implemented.
- Proper storm water management measures must be implemented to ensure that runoff from construction site doesn't go into the Modderfontein Dam No. 1

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

The coffee shop will be located across the street of the upgraded Flamingo Shopping Centre, which already have a restaurant/ coffee shop within the centre. This coffee shop/restaurant is however aimed at catering for people that visit the shopping centre and would like to eat or drinking something while they are there. The Dynamite Coffee Shop will be an easy access for people visiting the park or people that want a quick coffee and don't want to spend time in the shopping centre. Although there is two coffee shops within a close proximity to each other, and the need for the Dynamite Coffee Shop is not that high there is a desirability to reconstruct the old coffee shop and to re-create a place where people can meet and fellowship.

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

If the Environmental Authorisation is received it will take time to finalize the designs for the coffee shop and to get the lease approvals. Construction will therefore only start 6 to 12 months after the Environmental Authorisation. It is anticipated that the



construction will be 6 months and therefore the suggested time should be 5 years.

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

If the EAP answers “Yes” to Point 7 above then an EMPr is to be attached to this report as an Appendix

EMPr attached

Yes

# SECTION F: APPENDIXES

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

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

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

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Route position information

Appendix E: Public participation information

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

Appendix G: Specialist reports

Appendix H: EMPr

Appendix I: Other information

## CHECKLIST

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

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

## **Appendix A**

Locality Map

Site Plan

Environmental Sensitivity Map

## **Appendix B**

### Site Photographs

## **Appendix C**

### Facility Illustration

- Master Plan
- Preferred Layout  
Revision D
- Layout Alternative 1  
Revision A - C

## **Appendix D**

Route position information – Not applicable

## **Appendix E**

### Public Participation

## **Appendix 1**

Proof of site notice



## **Appendix 2**

Written notices issued as required in terms of the regulations

## **Appendix 3**

Proof of newspaper advertisements

## **Appendix 4**

Communications to and from interested and affected parties

None received

## **Appendix 5**

Minutes of any public and/or stakeholder meetings

This section is not applicable to the Draft BAR

## **Appendix 6**

### Comments and Responses Report

## **Appendix 7**

Comments from I&APs on Basic Assessment (BA) Report

No comments received

## **Appendix 8**

Comments from I&APs on amendments to the BA Report

This section not applicable to the Draft BAR

## **Appendix 9**

Copy of the register of I&APs



## **Appendix F**

Water Use License(s) Authorisation, SAHRA information, service letters from municipalities, water supply information

## **Appendix G**

Specialist Reports  
Wetland Assessment  
Heritage Report

## **Appendix H**

EMPr

## **Appendix I**

Other

## **Appendix 1**

Impact Assessment Criteria

Impact Assessment Matrix

## Appendix 2

CV