



**MODDERFONTEIN BIRD AND SCULPTURE  
PARK  
SOCCER FIELD AND ASSOCIATED  
INFRASTRUCTURE  
MODDERFONTEIN EXT 2  
FINAL BASIC ASSESSMENT REPORT**

June 2019

Prepared by:

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Environmental Assessment Practitioner

## GENERAL INFORMATION

<b>Report name:</b>	Draft Basic Assessment Report for the Modderfontein Bird and Sculpture Park soccer field and associated infrastructure
<b>Environmental Auditor:</b>	Green Tree Environmental Consulting  7 Dublin Street Rangeview Ext 2 Krugersdorp Gauteng  082 409 0405  <a href="mailto:yonanda@gtec.net.za">yonanda@gtec.net.za</a>
<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 June 2019
<b>Ref No:</b>	002/18-19/E0245

## 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: 2019/06/01

## 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 construction of the soccer fields and associated infrastructure at Modderfontein Bird and Sculpture Park. The project will entail the construction of:

- 2 mini soccer fields (5-a-side);
- Grassed parking area;
- Gravel access road;
- Ablution Facility;
- Boardwalk;

The soccer fields will be mini soccer fields, also referred to as 5-a-side soccer fields, that will specifically cater for children. The Modderfontein Bird and Sculpture Park is a privately-owned park and currently managed by Nevada Group, the mini soccer fields will form part of the park and will therefore be managed by Nevada Group. The idea is to lease the soccer fields to a soccer training school or club which will introduce young children to the sport, trained by skilled coaches, for 5 or 6 days a week, and children would enrol in the academy / club for a monthly fee. For the remaining days of the week which are not booked by the soccer academy, the soccer fields would be open to the public, and rented out on an hourly basis for events or for team building.

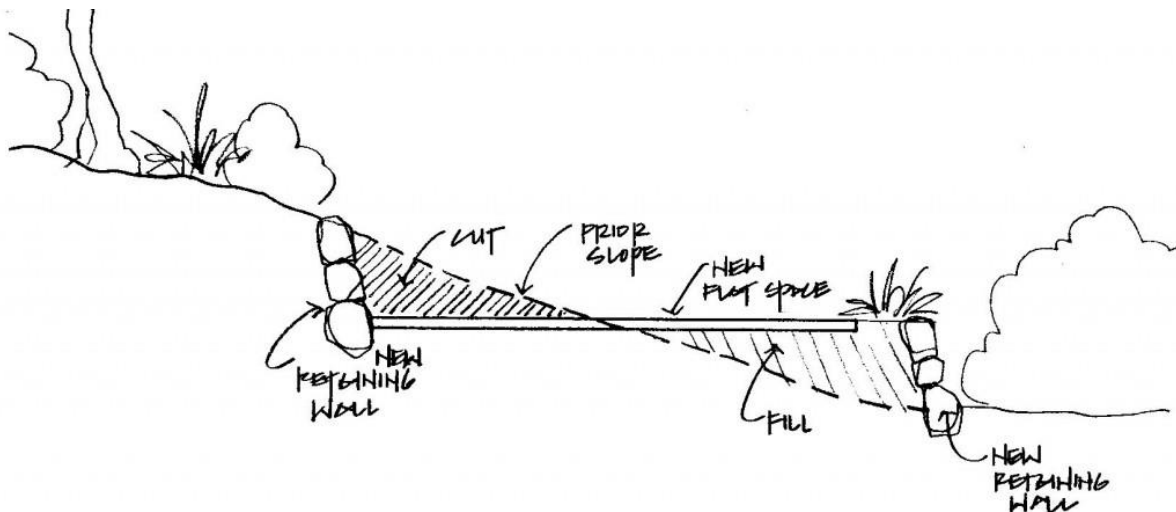
The maintenance of the mini soccer fields and the ablution facilities will form part of Nevada Group's responsibility. The fields will be kept clean by providing dustbins that will be emptied on a regular basis, cleaning staff that will keep the ablution facilities clean and neat and the overall maintenance of the area surrounding the soccer field such as mowing of the lawn.

The two mini soccer fields will vary in size and will cater for two different age groups, refer to Image 1 below. The one soccer field will be 15m by 30m and will only cater for children 3 – 6 years, the second soccer field will be 18m by 36m and will cater for children 7 years and older.



**Image 1: Illustration of the soccer field sizes**

The soccer fields will be constructed using a “cut and fill” method. This method is used to level the playing area and basically entails the cutting out of higher levelled areas to fill the lower lying areas, as per the example below (Image 2). The soccer fields will be artificial grass but there will be no concrete base. The sub base will comprise a laser levelled and bomag compacted G5 aggregate (or equivalent aggregate), and the base a hand levelled crusher dust bomag compacted aggregate.



**Image 2: Illustration of a typical “cut and fill” method.** <http://lazarlandscape.com/tag/cut-and-fill/>



The retaining walls, as per the illustration above (Image 1), will be gabion structures that will not only support the structure but will also be used as additional seating area for spectators. The embankment that will be created by the “cut and fill” process will be planted with indigenous vegetation that will prevent soil erosion. Storm water will be directed around or underneath the soccer fields and will be released slowly and in a fan pattern to prevent erosion or a sudden spurt of storm water into the natural watercourse. Refer to Appendix C for the Concept Plan. A lane of trees (*Senegalia galpinii* and *Olea europaea subsp. Africana*) will be planted along the fence (Valley Road), these trees will not only form a shady area for spectators but will also form a visual and noise screen.

The parking area will be a grassed area and parking bays will be marked with one row of paving block, example of parking area illustrated in Image 2 below. The access road will be a gravel road and the stream crossing will be a culvert crossing. A concrete pipe is currently used to channel the stream and allow pedestrian to cross the stream, this concrete pipe will be replaced by culverts and will be big enough to allow one vehicle to cross.



**Image 2: Illustration of a typical grassed parking area.**

The ablution facility will be located next to the existing parking bay and entrance to the park and will be pre-fabricated container that will connect to the municipal sewer system. Refer to Appendix C for the Concept Plan or to Image 3 below for an example of what the ablution facility could look like.



**Image 3 Illustration of a typical pre-fabricated ablution facilities.**

The soccer fields and associated infrastructure will be located next to Modderfontein Dam No. 1, Remainder of Erf 185, Modderfontein Extension 2. The soccer fields and associated infrastructure will be outside the delineated wetland area but falls within the 32m Regulated Buffer Area.

As per the National Environmental Management Act 107 of 1998 (NEMA), Environmental Impact Assessment Regulations 2014, as amended on 7 April 2017, the proposed soccer fields and associated infrastructure will trigger activities listed in both Listing Notice 1 (GN R327) and Listing Notice 3 (GN R324). The process that will be followed in order to receive an Environmental Authorisation is a Basic Assessment Process.

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; 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> </ul>	<p>Additional material will be deposited in order to level the area for the soccer fields. Cut and fill method will be used but there is a possibility that additional material will be required for this construction process.</p> <p>The soccer fields are inside the 32m regulated buffer area and therefore Listing Notice 1 – Activity 19 will</p>

	<ul style="list-style-type: none"> <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>	apply.
GN R324, 7 April 2017 Listing Notice 3 – Activity 12	<p>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan</p> <p><u>Gauteng:</u></p> <ul style="list-style-type: none"> <li>i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004;</li> <li>ii. <b>Within Critical Biodiversity Area (CBA) or Ecological Support Areas (ESA) identified in the Gauteng Conservation Plan or bioregional plans; or</b></li> <li>iii. On land, where, at the time of the coming into effect of this Notice or thereafter such land was zoned open space, conservation or had an equivalent zoning.</li> </ul>	The footprint of the soccer fields and associated infrastructure will be more or less 3 000m <sup>2</sup> . The site falls within a CBA and ECA area and therefore Listing Notice 3 is applicable.
GN R324, 7 April 2017 Listing Notice 3 – Activity 14	<p>The development of</p> <ul 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> </ul> <p>Where such development occurs –</p> <ul 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,</li> </ul>	The footprint of the soccer fields and associated infrastructure will be more or less 3 000m <sup>2</sup> . The site falls within a CBA and ECA area and therefore Listing Notice 3 is applicable.

	<p>within 32 metres of a watercourse' measured from the edge of a watercourse;</p> <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> <ul 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 authorities, or declared as nature reserves in terms of the Nature Conservation Ordinance (Ordinance 12 of 1983) or the NEMPAA;</li> <li>ix. Sites designated as nature reserves in terms of municipal Spatial Development Frameworks; or</li> <li>x. Sites zoned for conservation use or public open space or equivalent zoning</li> </ul>	
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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?

**Yes**

If no, why?

# SECTION A: ACTIVITY INFORMATION

## 1. PROPOSAL OR DEVELOPMENT DESCRIPTION

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

Modderfontein Bird and Sculpture Park soccer fields and associated infrastructure

### **Project Description:**

#### Description

The Modderfontein Bird and Sculpture Park Project includes the upgrade and improvement of the park and surrounding facilities for optimum use by the community while improving the habitat and indigenous biodiversity of the area.

The upgrade of the Modderfontein Bird and Sculpture Park was undertaken in two phases; Phase 1 of the park upgrade included activities with a very small footprint and which does not require an Environmental Authorisation (EA). These activities included the replacement of the old kids play area, implementation of outdoor art, implementation of benches, planting of indigenous vegetation, removal of alien invasive plant species, removal of damaged trees (*Salix babelonica*), the dog park, maintenance of the storm water outlets and safety signs were erected.

Phase 2 of the park are activities with a bigger footprint and are activities that trigger Listing Notice 1 and Listing Notice 3 Activities and will therefore require Environmental Authorisation. These activities will include the construction of two mini soccer fields, a parking area, access road and the boardwalk. Refer to Appendix C for the Master Plan of the Modderfontein Bird and Sculpture Park.

#### Location

Modderfontein Bird and Sculpture Park is located on the Remainder of Erf 185, Modderfontein Extension 2. The park is located along the Modderfontein Dam No 1, which flows into the Modderfonteinspruit. The project site forms part of the Acacia Mine properties. Refer to Figures 1 and 2: Locality Maps for the exact location of the proposed project or to Appendix A.

Select the appropriate box

The application is for an upgrade of an existing development

☐

The application is for a new development

☒

Other, specify

☐

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

YES

☐

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)?

YES

☐

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

NO

☐

## 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:

Title of legislation, policy or guideline:	Administering authority:	Promulgation Date:
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 construction of the proposed Modderfontein Bird and Sculpture Park soccer fields and associated infrastructure.
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 983 and R 985 have been applied for.
Constitution of the Republic of South Africa, Act 108 of 1996	The Modderfontein Bird and Sculpture Park soccer fields project focus on the minimization of environmental impacts that might result 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

Legislation, policy or guideline	Description of compliance
	proposed project is located next to the Modderfontein Dam No 1 and therefore a General Authorisation for Section 21-c and Section 21-l 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 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 construction of the proposed soccer fields and associated infrastructure meets the requirements as per the by-law, especially since the soccer fields will be 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 current site has been used as a park for the last few years. The site is therefore considered to be well located and forms part of the upgrade of the entire area which includes the new Flamingo Shopping Centre and associated infrastructure.

**Step 2: Alternative Layouts:**

Two alternative layouts were considered for the soccer fields, refer to Appendix C for the A3 illustrations of the proposed layout alternatives.

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	<p>Layout Alternative 1 (Appendix C: Masterplan Rev E) is the proposed layout for the Modderfontein Bird and Sculpture Park soccer fields, refer to the snapshot below of the soccer fields.</p> <p>The soccer fields will be perpendicular to each other and will provide space between the fields for the fans.</p> <p>This layout will be less intrusive to the wetland area since it will be located further away and will not encroach onto the wetland area.</p> 

No.	Alternative type,	Description
		Snapshot of Layout Alternative 1 – refer to Master Plan Rev E
2	Layout Alternative 2: Alternative	<p>Layout Alternative 2 (Appendix C: Masterplan Rev E-Alternative) is the alternative layout for the Modderfontein Bird and Sculpture Park soccer fields, refer to the snapshot below of the soccer fields.</p> <p>Although this layout also provides enough space for the fans it encroaches into the wetland area and will have a bigger impact on the wetland area.</p>  <p>Snapshot of Layout Alternative 2 – refer to Master Plan Rev E: Alternative</p>

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:

3005m <sup>2</sup>
--------------------

3005m <sup>2</sup>
--------------------



m<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:**

m/km

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

Alternative 2: (if any)

Alternative 3: (if any)

9Ha

9Ha

Ha

## 5. SITE ACCESS

**Proposal:**

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

NO

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

80m

Describe the type of access road planned:

The access road from the main road (Valley Road) to the soccer field parking area will be a gravel access 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?

NO

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

80m

Describe the type of access road planned:

The access road from the main road (Valley Road) to the soccer field parking area will be a gravel access 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.)

Remainder 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
----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

## 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.

Valley

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> % = 80
Sport field % = 0	Cultivated land % = 0	Paved surface (hard landscaping) % = 0	Building or other structure % = 0	<b>Bare soil</b> % = 10

**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.  
The watercourse includes the Modderfontein Dam No 1 and associated streams.

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):				

**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**

WEST	9	2, 6	2, 6	2, 6	1, 2, 6	EAST
	9	2, 6	2, 6	2, 6	2, 6	
	9	2, 6, 12		2, 6	2	
	9	12, 18, 28	1, 9	1, 9	2, 9	
	9	9, 11	9	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 the east and the south-east of the project site are mainly commercial, retail and warehouses and include areas 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:

	<b>NO</b>
--	-----------

[REDACTED]

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:

[REDACTED]

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

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

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

[REDACTED]	<b>NO</b>
[REDACTED]	<b>NO</b>

# 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?

YES

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

CoJ requested that the following information be submitted as part of the Final BAR:

- Zoning Certificate;
- The wetland Delineation Report must clearly indicate the outer edge of the delineated wetland as well as the associated 30m buffer;
- Clearly mapped and certified 1:50 and 1:100 year floodlines;
- A detailed legible proposed layout plan overlaid with bullet 2 and 3 above;
- A legible layout plan indicating all activities undertaken as part of Phase 1;
- Comments from Johannesburg City Parks.

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

### 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?

YES

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

Most of the I&APs are objecting to the soccer fields due to the following reasons:

- There will be additional traffic;
- Noise from the soccer field activities;
- Pollution;
- Loss of fauna & flora;
- Loss of the sense of place;
- Visual impact;
- Crime will increase.

Please refer to Annexure E for all the comments received.

If “NO” briefly explain why no comments have been received

#### **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?

6m<sup>3</sup>

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

Rubble removal companies will be appointed to remove the rubble

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

The rubble will be disposed off 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?

2m<sup>3</sup>

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

The maintenance crew, they form part of the Flamingo Shopping Centre, will clean the waste bins on a daily basis. The waste is taken to the Flamingo Shopping Centre and will be dealt with as part of their current waste management system.

The waste is collected and 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?

**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?

**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.

### 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?

**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)?

**NO**

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

**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?

**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**

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

6m<sup>3</sup>

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

YES	
-----	--

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

	NO
--	----

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

### Emissions into the atmosphere

Will the activity release emissions into the atmosphere?

	NO
--	----

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:

## 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 c

impeding or diverting the flow of water in a watercourse;

Section 21 i

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

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

YES	
-----	--

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

	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:

Some of the park lights will be solar lights but unfortunately not all the lights will be solar lights.

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

Some of the park lights will be solar lights but unfortunately not all the lights will be solar lights.

# 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.

The following are concerns from the public:

- There will be traffic;
- Noise from the soccer field activities;
- Pollution;
- Loss of fauna & flora;
- Loss of the sense of place

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):

The soccer fields will cater for the younger residents in the area. We believe that a fair balance should be maintained between older residents wanting a very quiet, still, serene environment, and younger families who want to enjoy not only strolls in the park, but also picnics and recreational sports activities to maintain and improve their physical health.

We want to promote the outdoor lifestyle that Modderfontein's clean environment offers, and to encourage people to leave behind their computers and mobile phones for a short period in the day, to rather explore the outdoors.

There are staff members that clean the park 7 days a week in order to keep the park clean and create a pleasant atmosphere for everyone visiting the park. In order to assist with the sounds from the soccer fields additional trees will be planted around the soccer fields, this will also create shaded areas for the spectators. The vegetation cover that is currently on site is mostly grass (kikuyu), the soccer fields will replace this but will be grassed soccer fields and not astro (artificial grass).

## 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

Duration of Impact	Local
	Regional
	National
	Global
	Construction period only
	Short term
	Medium term
	Long term
Intensity / Severity (Negative or Positive)	Permanent
	High
	Moderate – High
	Moderate
	Low- Moderate
Probability	Low
	Improbable
	Unlikely
	Probable
	Highly Probable
Significance	Definite
	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> </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.</li> </ul>

Pedestrians/ people visiting the park might create new pathways across the watercourse areas and buffer zones.	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> </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> <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 driving through the watercourse and damaging vegetation.	Moderate	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 construction vehicles are allowed within the sensitive environments unless it is for the construction of the road / bridge.</li> </ul>
Dumping of construction material within the vegetated areas	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>A designated area must be provided for the dumping of construction material.</li> </ul>
Erosion and siltation will result in destruction of the remaining vegetation	Moderate	Low	<ul style="list-style-type: none"> <li>Erosion measures must be implemented at all times.</li> </ul>
<b>FAUNA AND BIRDS</b> Decrease in the biodiversity of fauna and avifauna			
Removal of the Alien Invasive plant species - specifically referring to the reeds in the watercourse	Moderate	None	<ul style="list-style-type: none"> <li>The removal of the reeds must be managed since the reeds are currently providing breeding space and shelter for the avifauna on site.</li> </ul>
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 in the watercourse area.	Low	None	<ul style="list-style-type: none"> <li>The sensitive habitats must be fenced off</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> <li>All empty chemical containers must be placed in a bin marked as hazardous waste and must be taken to 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> </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 must take place on a drip tray.</li> </ul>
Washing of vehicles / machinery on site	Moderate	None	<ul style="list-style-type: none"> <li>Washing of machinery / vehicles must be in a designated area with a proper storm water / drainage system.</li> </ul>
Compaction of the soil due	Moderate	Low	<ul style="list-style-type: none"> <li>Compaction of soil can be</li> </ul>

to construction activities and movement of vehicles / machinery will increase the runoff			mitigated by limiting the movement of the vehicles / machinery on site.
Siltation and Erosion	Moderate	None	<ul style="list-style-type: none"> <li>Erosion control measures, such as grass bales must be used.</li> </ul>
Washing up (bathing, hand washing and 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 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> </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 must take place on a drip tray.</li> </ul>

Washing of vehicles / machinery on site	Moderate	Low	<ul style="list-style-type: none"> <li>Washing of machinery / vehicles must be in a designated area with a proper storm water / drainage system.</li> </ul>
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>
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.</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 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 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> </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 must take place on a drip tray.</li> </ul>
Washing of vehicles / machinery on site	Moderate	Low	<ul style="list-style-type: none"> <li>Washing of machinery / vehicles must be in a designated area with a proper storm water / drainage system.</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, only removing 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 rehabilitation and operation phases of the project.</li> </ul>
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> </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> <li>Vegetation clearance must take place in phases so as to avoid open spaces / bare soil that will result in dust creation</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>
<b>HEALTH</b> Spreading of diseases/ degradation of health			
Using the feld 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	Very Low	<ul style="list-style-type: none"> <li>Dust suppression techniques must be used.</li> </ul>
Dumping of waste on site	Moderate	Very 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 and a 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</li> </ul>

			workers and the contractor.
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 Delineation Report (Appendix G)

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 soccer field, parking area and road will only be done at a later stage. The current designs are concepts that will be used for the detail design. 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 phase for the proposed project.

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 the project area, the proposed soccer fields and associated infrastructure does however form part of the new Modderfontein Bird and Sculpture Park. Cumulative impacts that could result due to the activities are:

- Pollution due to littering or waste within the park;  
There will be an increase in people using the park and therefore an increase in waste generated. If there are not enough dustbins or if the bins are not cleaned on a regular basis this could lead to a negative cumulative impact on the environment and health.
- Increase of alien invasive species in the park and watercourse area;  
As more people uses the park there will be an increase (cumulative negative impact) in alien invasive plant species. This is mainly due to the foot traffic (dogs and people) through the park. People must be made aware of the alien invasive species and a proper maintenance plan must be implemented.
- Encroachment into the watercourse;  
As more people uses the park the more is the likelihood that there will be an encroachment unto the watercourse. Balustrades must be erected along the boundary of the watercourse in order to prevent people from encroaching into this area.
- Erosion;  
Proper walkways must be provided to direct people on where to walk. Cumulative impacts will result due to the compaction of the soil and improper management of storm water.

Activities surrounding the park includes a shopping centre, recreational activities and residential areas. With the construction of the soccer fields and associated infrastructure there will be an increase in traffic congestions, especially when the soccer field is used by the community.

#### 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

After the successful implementation of mitigation measures the impact of the soccer fields and associated infrastructure will be low to moderate. During construction the impacts will include general activities associated with constructions such as spillages, erosion, weeds and invasive plant species, litter and construction waste, dust noise and traffic congestions. These impacts are however for a short term and can be mitigated and managed in order to keep the community safe, happy and protect the



environment.

During the operational phase the typical impacts will include the following:

- Invasion of alien species and weeds
- Littering – especially during sport events
- Noise during the sport events
- Nuisance caused by lights in the evening
- Traffic congestions during the sport events
- Encroachment unto the wetland area
- Silt and Erosion due to improper storm water management

Although these impacts can easily be mitigated it is not always that easy as people are dynamic. Proper management of the park is therefore essential, especially during the sport events.

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**Alternative 1:**

This section will be a duplication of the summary above. Although the layout of the soccer fields is slightly different the activities will be exactly the same and will therefore have the same impact. The footprint of Alternative 1 is a bit bigger and the impacts will therefore be spread over a bigger area but the significance will be the same.

After the successful implementation of mitigation measures the impact of the soccer fields and associated infrastructure will be low to moderate. During construction the impacts will include general activities associated with constructions such as spillages, erosion, weeds and invasive plant species, litter and construction waste, dust noise and traffic congestions. These impacts are however for a short term and can be mitigated and managed in order to keep the community safe, happy and protect the environment.

During the operational phase the typical impacts will include the following:

- Invasion of alien species and weeds
- Littering – especially during sport events
- Noise during the sport events
- Nuisance caused by lights in the evening
- Traffic congestions during the sport events
- Encroachment unto the wetland area
- Silt and Erosion due to improper storm water management

Although these impacts can easily be mitigated it is not always that easy as people are dynamic. Proper management of the park is therefore essential, especially during the sport events.

#### **Alternative 2:**



#### **Alternative 3:**



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

The no-go alternative will mean that no activity will take place. The section of the park will be left as is and will be maintained as part of the rest of the park. This section is however ideal for sport activities and could possibly be used by the community for sport activities. If not maintained or managed properly it could result in destruction of the vegetation cover, compaction erosion and encroachment unto the wetland area.

## 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 was selected due to the practicality of the layout. Creating a space that will allow for better fellowship between people but also a smaller footprint which will have a smaller impact on the environment.

As stated above the construction of the soccer fields will have an impact on the environment during construction. These impacts can however be mitigated successfully which will result in a low impact.

During the operational phase the mitigation measures might be more difficult to implement and access to the environmental sensitive areas must be restricted.

## 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.
- An alien invasive plant species eradication plan must be implemented to protect the indigenous plant species but also to protect the avifauna habitat.
- Rehabilitation after construction must be done according to the Landscape Architect's specifications.
- Construction camp to be erected where it will have the least environmental impact.
- Only indigenous vegetation should be utilised during rehabilitation.
- Disposal of waste at a registered waste disposal site.

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

The park currently provides activities for most of the age groups, there are walkways that can be used by joggers or people going for a stroll. There is a dog walking section that is specifically aimed at the dog lovers. There are enough benches, trees and open areas that can be used for picnic. There is art for the art lovers and there is a play area for smaller kids. Although the park caters for all age groups there is no interactive sport area that can be used by teens or sport enthusiast. There is therefore a need for an activity that can be used by teens as well as other sport lovers.

The soccer fields will create a space for interaction between community members but also for good competition between different communities. It will therefore contribute to the health and fitness of the community and establishing good relationships.

**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 soccer field. Construction will therefore only start 6 months after the Environmental Authorisation. It is anticipated that the construction will be 3 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

- Layout Alternative 1
- Layout Alternative 2



## **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 Report – Wetland Delineation

## **Appendix H**

EMPr

## **Appendix I**

Other

## **Appendix 1**

Impact Assessment Criteria

Impact Assessment Matrix



## **Appendix 2**

CV