APPENDIX 1 GENERIC ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr) FOR THE

DEVELOPMENT AND EXPANSION FOR OVERHEAD ELECTRICITY TRANSMISSION AND DISTRIBUTION INFRASTRUCTURE

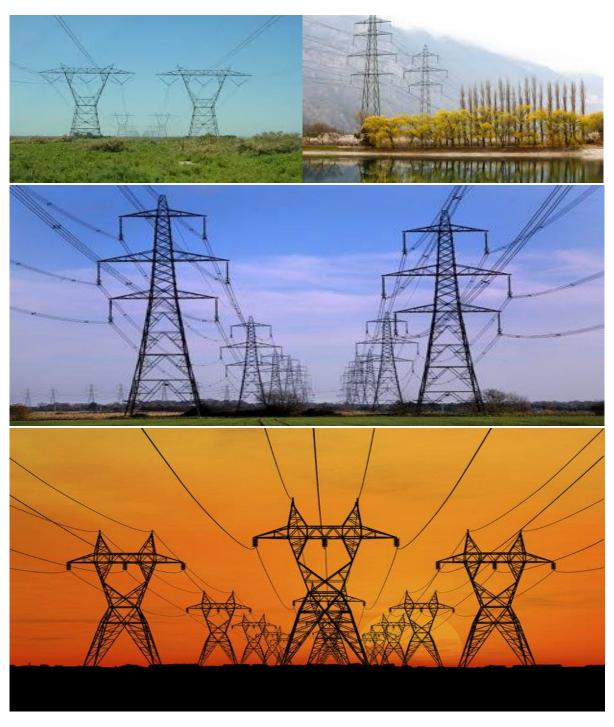




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INTRODUCTION

1. Background

The National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA) requires that an environmental management programme (EMPr) be submitted where an environmental impact assessment (EIA) has been identified as the environmental instrument to be utilised as the basis for a decision on an application for environmental authorisation (EA). The content of an EMPr must either contain the information set out in Appendix 4 of the Environmental Impact Assessment Regulations, 2014, as amended, (EIA Regulations) or must be a generic EMPr relevant to an application as identified and gazetted by the Minister in a government notice. Once the Minister has identified, through a government notice, that a generic EMPr is relevant to an application for EA, that generic EMPr must be applied by all parties involved in the EA process, including, but not limited to, the applicant and the competent authority (CA).

2. Purpose

This document constitutes a generic EMPr relevant to applications for the development or expansion of overhead electricity transmission and distribution infrastructure, and all listed and specified activities necessary for the realisation of such infrastructure.

3. Objective

The objective of this generic EMPr is to prescribe and pre-approve generally accepted impact management outcomes and impact management actions, which can commonly and repeatedly be used for the avoidance, management and mitigation of impacts and risks associated with the development or expansion of overhead electricity transmission and distribution infrastructure. The use of a generic EMPr is intended to reduce the need to prepare and review individual EMPrs for applications of a similar nature.

4. Scope

The scope of this generic EMPr applies to the development or expansion of overhead electricity transmission and distribution infrastructure requiring EA in terms of NEMA, i.e. with a capacity of 33 kilovolts or more. This generic EMPr applies to activities requiring EA, mainly activity 11 and 47 of the Environmental Impact Assessment Regulations Listing Notice 1 of 2014, as amended, and activity 9 of the Environmental Impact Assessment Regulations Listing Notice 2 of 2014, as amended, and all associated listed or specified activities necessary for the realisation of such infrastructure.

5. Structure of this document

This document is structured in three parts with an Appendix as indicated in the table below:

| Dawl | C - a !! | He and in an | Combons |
|------|----------|---|---|
| Part | Section | Heading | Content |
| A | | Provides general guidance and information and is not legally binding | Definitions, acronyms, roles & responsibilities and documentation and reporting. |
| В | 1 | Pre-approved generic EMPr template | Contains generally accepted impact management outcomes and impact management actions required for the avoidance, management and mitigation of impacts and risks associated with the development or expansion of overhead electricity transmission and distribution infrastructure, which are presented in the form of a template that has been pre-approved. The template in this section is to be completed by the contractor, with each completed page signed and dated by the holder of the EA prior to commencement of the activity. Where an impact management outcome is not relevant, the words "not applicable" can be inserted in the template under the "responsible persons" column. |
| | | | Once completed and signed, the template represents the EMPr for the activity approved by the CA and is legally binding. The template is not required to be submitted to the CA as once the generic EMPr is gazetted for implementation, it has been approved by the CA. To allow interested and affected parties access to the pre-approved EMPr template for |
| | | | consideration through the decision-making process, the EAP on behalf of the applicant /proponent must make the hard copy of this EMPr available at a public location and where the applicant has a website, the EMPr should also be made available on such publicly accessible website. |
| | 2 | Site specific information | Contains preliminary infrastructure layout and a declaration that the applicant/holder of the EA will comply with the pre-approved generic EMPr template contained in Part B: Section 1 , and understands that the impact management |

| Part | Section | Heading | Content |
|------|---------|--|--|
| | | | outcomes and impact management actions are legally binding . The preliminary infrastructure layout must be finalized to inform the final EMPr that is to be submitted with the basic assessment report (BAR) or environmental impact assessment report (EIAR), ensuring that all impact management outcomes and actions have been either pre-approved or approved in terms of <u>Part C.</u> |
| | | | This section must be submitted to the CA together with the final BAR or EIAR. The information submitted to the CA will be considered to be incomplete should a signed copy of <u>Part B: section 2</u> not be submitted. Once approved, this Section forms part of the EMPr for the development and is legally binding. |
| С | | Site specific sensitivities/ attributes | If any specific environmental sensitivities/ attributes are present on the site which require site specific impact management outcomes and impact management actions, not included in the pre-approved generic EMPr, to manage impacts, these specific impact management outcomes and impact management actions must be included in this section. These specific environmental attributes must be referenced spatially and impact management outcomes and impact management outcomes and impact management actions must be provided. These specific impact management outcomes and impact management actions must be presented in the format of the preapproved EMPr template (Part B: section 1) |
| | | | This section will not be required should the site contain no specific environmental sensitivities or attributes. However, if <u>Part C</u> is applicable to the site, it is required to be submitted together with the BAR or EIAR, for consideration of, and decision on, the application for EA. The information in this section must be prepared by an EAP, and must contain his/her name and expertise including a curriculum vitae. Once approved, Part C forms part of the EMPr for the site and is legally binding. |
| | | | site and is legally binding. This section applies only to additional important management outcomes and important |

| Part | Section | Heading | Content |
|------------|---------|---------|--|
| | | | management actions that are necessary for the avoidance, management and mitigation of impacts and risks associated with the specific development or expansion and which are not already included in <u>Part B: section 1</u> . |
| Appendix 1 | | | Contains the method statements to be prepared prior to commencement of the activity. The method statements are not required to be submitted to the competent authority. |

6. Completion of part B: section 1: the pre-approved generic EMPr template

The template is to be completed prior to commencement of the activity, by providing the following information for each environmental impact management action:

- For implementation
 - a 'responsible person',
 - a method for implementation,
 - a timeframe for implementation
- For monitoring
 - a responsible person
 - frequency
 - evidence of compliance.

The completed template must be signed and dated by the holder of the EA prior to commencement of the activity. The method statements prepared and agreed to by the holder of the EA must be appended to the template as <u>Appendix 1</u>. Each method statement must be signed and dated on each page by the holder of the EA. This template, once signed and dated, is legally binding. The holder of the EA will remain responsible for its implementation.

7. Amendments of the impact management outcomes and impact management actions

Once the activity has commenced, a holder of an EA may make amendments to the impact management outcomes and impact management actions in the following manner:

- Amendment of the impact management outcomes: in line with the process contemplated in regulation 37 of the EIA Regulations; and
- Amendment of the impact management actions: in line with the process contemplated in regulation 36 of the EIA Regulations.

8. Documents to be submitted as part of part B: section 2 site specific information and declaration

<u>Part B: Section 2</u> has three distinct sub-sections. The first and third sub-sections are in a template format. Sub-section two requires a map to be produced.

<u>Sub-section 1</u> contains the project name, the applicant's name and contact details, the site information, which includes coordinates of the corridor in which the proposed overhead electricity transmission and distribution infrastructure is proposed as well as the 21-digit Surveyor General code of each cadastral land parcel and, where available, the farm name.

<u>Sub-section 2</u> is to be prepared by an EAP and must contain his/her name and expertise including a curriculum vitae. This sub-section must include a map of the site sensitivity overlaid with the preliminary infrastructure layout using the national web based environmental screening tool, when available for compulsory use at: https://screening.environment.gov.za/screeningtool. The sensitivity map shall identify the nature of each sensitive feature e.g. raptor nest, threatened plant species, archaeological site, etc. Sensitivity maps must identify features both within the planned working area and any known sensitive features in the surrounding landscape within 50m from the development footprint. The overhead transmission and distribution profile must be illustrated at an appropriate resolution to enable fine scale interrogation. It is recommended that <20 km of overhead transmission and distribution length is illustrated per page in A3 landscape format. Where considered appropriate, photographs of sensitive features in the context of tower positions must be used.

<u>Sub-section 3</u> is the declaration that the applicant/proponent or holder of the EA in the case of a change of ownership must complete, which confirms that the applicant/EA holder will comply with the pre-approved generic EMPr template in <u>Section 1</u> and understands that the impact management outcomes and actions are legally binding.

(a) Amendments to Part B: Section 2 – site specific information and declaration

Should the EA be transferred, <u>Part B: Section 2</u> must be completed by the new applicant/proponent and submitted with the application for an amendment of the EA in terms of Regulations 29 or 31 of the EIA Regulations, whichever applies. The information submitted as part of such an application for an amendment to an EA will be considered to be incomplete should a signed copy of <u>Part B: Section 2</u> not be submitted. Once approved, <u>Part B: Section 2</u> forms part of the EMPr for the development and the EMPr becomes legally binding to the new EA holder.

PART A - GENERAL INFORMATION

1. **DEFINITIONS**

In this EMPr any word or expression to which a meaning has been assigned in the NEMA or EIA Regulations has that meaning, and unless the context requires otherwise –

"clearing" means the clearing and removal of vegetation, whether partially or in whole, including trees and shrubs, as specified;

"construction camp" is the area designated for key construction infrastructure and services, including but not limited to offices, overnight vehicle parking areas, stores, the workshop, stockpile and lay down areas, hazardous storage areas (including fuels), the batching plant (if one is located at the construction camp), designated access routes, equipment cleaning areas and the placement of staff accommodation, cooking and ablution facilities, waste and wastewater management;

"contractor" - The Contractor has overall responsibility for ensuring that all work, activities, and actions linked to the delivery of the contract, are in line with the Environmental Management Programme and that Method Statements are implemented as described.

"hazardous substance" is a substance governed by the Hazardous Substances Act, 1973 (Act No. 15 of 1973) as well as the Hazardous Chemical and Substances Regulations, 1995;

"method statement" means a written submission by the Contractor to the Project Manager in response to this EMPr or a request by the Project Manager and ECO. The method statement must set out the equipment, materials, labour and method(s) the Contractor proposes using to carry out an activity identified by the Project Manager when requesting the Method Statement. This must be done in such detail that the Project Manager and ECO is able to assess whether the Contractor's proposal is in accordance with this specification and/or will produce results in accordance with this specification;

The method statement must cover applicable details with regard to:

- (i) Construction procedures;
- (ii) Plant, materials and equipment to be used;
- (iii) Transporting the equipment to and from site;
- (iv) How the plant/ material/ equipment will be moved while on site;
- (v) How and where the plant/ material/ equipment will be stored;
- (vi) The containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur;
- (vii) Timing and location of activities;
- (viii) Compliance/ non-compliance; and
- (ix) Any other information deemed necessary by the Project Manager.

"slope" means the inclination of a surface expressed as one unit of rise or fall for so many horizontal units;

"solid waste" means all solid waste, including construction debris, hazardous waste, excess cement/concrete, wrapping materials, timber, cans, drums, wire, nails, food and domestic waste (e.g. plastic packets and wrappers);

"spoil" means excavated material which is unsuitable for use as material in the construction works or is material which is surplus to the requirements of the construction works;

"topsoil" means a varying depth (up to 300 mm) of the soil profile irrespective of the fertility, appearance, structure, agricultural potential, fertility and composition of the soil; and

"works" means the works to be executed in terms of the Contract

2. ACRONYMS and ABBREVIATIONS

| CA | Competent Authority |
|---------|---|
| cEO | Contractors Environmental Officer |
| dEO | Developer Environmental Officer |
| DPM | Developer Project Manager |
| DSS | Developer Site Supervisor |
| EAR | Environmental Audit Report |
| ECA | Environmental Conservation Act No. 73 of |
| | 1989 |
| ECO | Environmental Control Officer |
| EA | Environmental Authorisation |
| EIA | Environmental Impact Assessment |
| ERAP | Emergency Response Action Plan |
| EMPr | Environmental Management Programme |
| | Report |
| EAP | Environmental Assessment Practitioner |
| FPA | Fire Protection Agency |
| HCS | Hazardous chemical Substance |
| NEMA | National Environmental Management Act, |
| | 1998 (Act No. 107 of 1998) |
| NEMBA | National Environmental Management: |
| | Biodiversity Act ,2004 (Act No. 10 of 2004) |
| NEMWA | National Environmental Management: |
| | Waste Act, 2008 (Act No. 59 of 2008) |
| | |
| MSDS | Material Safety Data Sheet |
| RI&AP's | Registered interested and affected parties |
| | |

3. ROLES AND RESPONSIBILITIES FOR ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr) IMPLEMENTATION

The effective implementation of this generic EMPr is dependent on established and clear roles, responsibilities and reporting lines within an institutional framework. This section of the EMPr gives guidance to the various environmental roles and reporting lines, however, project specific requirements will ultimately determine the need for the appointment of specific person(s) to undertake specific roles and or responsibilities. As such, it must be noted that in the event that no specific person, for example, an environmental control officer (ECO) is appointed, the holder of the EA remains responsible for ensuring that the duties indicated in this document for action by the ECO are undertaken.

Table 1: Guide to roles and responsibilities for implementation of an EMPr

| Responsible Person (s) | Role and Responsibilities |
|--------------------------------------|---|
| Developer's Project Manager (DPM) | Role The Project Developer is accountable for ensuring compliance with the EMPr and any conditions of approval from the competent authority (CA). Where required, an environmental control officer (ECO) must be contracted by the Project Developer to objectively monitor the implementation of the EMPr according to relevant environmental legislation, and the conditions of the environmental authorisation (EA). The Project Developer is further responsible for providing and giving mandate to enable the ECO to perform responsibilities, and he must ensure that the ECO is integrated as part of the project team while remaining independent. |
| | Responsibilities Be fully conversant with the conditions of the EA; Ensure that all stipulations within the EMPr are communicated and adhered to by the Developer and its Contractor(s); Issuing of site instructions to the Contractor for corrective actions required; Monitor the implementation of the EMPr throughout the project by means of site inspections and meetings. Overall management of the project and EMPr implementation; and Ensure that periodic environmental performance audits are undertaken on the project implementation. |
| Developer Site Supervisor (DSS) | <u>Role</u> |

| Responsible Person (s) | Role and Responsibilities |
|-------------------------------------|---|
| | The DSS reports directly to the DPM, oversees site works, liaises with the contractor(s) and the ECO. The DSS is responsible for the day to day implementation of the EMPr and for ensuring the compliance of all contractors with the conditions and requirements stipulated in the EMPr. Responsibilities - Ensure that all contractors identify a contractor's Environmental Officer (cEO); - Must be fully conversant with the conditions of the EA. Oversees site works, liaison with Contractor, DPM and ECO; - Must ensure that all landowners have the relevant contact details of the site staff, ECO and cEO; - Issuing of site instructions to the Contractor for corrective actions required; - Will issue all non-compliances to contractors; and - Ratify the Monthly Environmental Report. |
| Environmental Control Officer (ECO) | Role The ECO should have appropriate training and experience in the implementation of environmental management specifications. The primary role of the ECO is to act as an independent quality controller and monitoring agent regarding all environmental concerns and associated environmental impacts. In this respect, the ECO is to conduct periodic site inspections, attend regular site meetings, pre-empt problems and suggest mitigation and be available to advise on incidental issues that arise. The ECO is also required to conduct compliance audits, verifying the monitoring reports submitted by the cEO. The ECO provides feedback to the DSS and Project Manager regarding all environmental matters. The Contractor, cEO and dEO are answerable to the Environmental Control Officer for non- compliance with the Performance Specifications as set out in the EA and EMPr. |
| | The ECO provides feedback to the DSS and Project Manager, who in turn reports back to the Contractor and potential and Registered Interested &Affected Parties' (RI&AP's), as required. Issues of non-compliance raised by the ECO must be taken up by the Project Manager, and resolved with the Contractor as per the conditions of his contract. Decisions regarding environmental procedures, specifications and requirements which have a cost implication (i.e. those that are deemed to be a variation, not allowed for in the Performance Specification) must be endorsed by the Project Manager. The ECO must also, as specified by the EA, report to the relevant CA as and when required. |

| Responsible Person (s) | Role and Responsibilities |
|------------------------|--|
| | Responsibilities Responsibilities |
| | The responsibilities of the ECO will include the following: |
| | - Be aware of the findings and conclusions of all EA related to the development; |
| | - Be familiar with the recommendations and mitigation measures of this EMPr; |
| | - Be conversant with relevant environmental legislation, policies and procedures, and ensure compliance with them; |
| | Undertake regular and comprehensive site inspections / audits of the construction site according to the generic EMPr and applicable licenses in order to monitor compliance as required; |
| | Educate the construction team about the management measures contained in the EMPr and environmental licenses; |
| | - Compilation and administration of an environmental monitoring plan to ensure that the environmental management measures are implemented and are effective; |
| | - Monitoring the performance of the Contractors and ensuring compliance with the EMPr and associated Method Statements; |
| | In consultation with the Developer Site Supervisor order the removal of person(s) and/or equipment which are in contravention of the specifications of the EMPr and/or environmental licenses; |
| | Liaison between the DPM, Contractors, authorities and other lead stakeholders on all environmental concerns; |
| | - Compile a regular environmental audit report highlighting any non-compliance issues as well as satisfactory or exceptional compliance with the EMPr; |
| | Validating the regular site inspection reports, which are to be prepared by the contractor Environmental Officer (cEO); |
| | - Checking the cEO's record of environmental incidents (spills, impacts, legal transgressions etc) as well as corrective and preventive actions taken; |
| | - Checking the cEO's public complaints register in which all complaints are recorded, as well as action taken; |
| | - Assisting in the resolution of conflicts; |
| | Facilitate training for all personnel on the site – this may range from carrying out the training, to reviewing the training programmes of the Contractor; |
| | - In case of non-compliances, the ECO must first communicate this to the Senior Site Supervisor, who |
| | has the power to ensure this matter is addressed. Should no action or insufficient action be taken, |
| | the ECO may report this matter to the authorities as non-compliance; |
| | - Maintenance, update and review of the EMPr; |
| | - Communication of all modifications to the EMPr to the relevant stakeholders. |

| Responsible Person (s) | Role and Responsibilities |
|--|--|
| developer Environmental Officer (dEO) | Role The dEOs will report to the Project Manager and are responsible for implementation of the EMPr, environmental monitoring and reporting, providing environmental input to the Project Manager and Contractor's Manager, liaising with contractors and the landowners as well as a range of environmental coordination responsibilities. |
| | Responsibilities Be fully conversant with the EMPr; Be familiar with the recommendations and mitigation measures of this EMPr, and implement these measures; Ensure that all stipulations within the EMPr are communicated and adhered to by the Employees, Contractor(s); Confine the development site to the demarcated area; Conduct environmental internal audits with regards to EMPr and authorisation compliance (on cEO); Assist the contractors in addressing environmental challenges on site; Assist in incident management: Reporting environmental incidents to developer and ensuring that corrective action is taken, and lessons learnt shared; Assist the contractor in investigating environmental incidents and compile investigation reports; Follow-up on pre-warnings, defects, non-conformance reports; Measure and communicate environmental performance to the Contractor; Conduct environmental awareness training on site together with ECO and cEO; Ensure that the necessary legal permits and / or licenses are in place and up to date; Acting as Developer's Environmental Representative on site and work together with the ECO and contractor; |
| Contractor | Role The Contractor appoints the cEO and has overall responsibility for ensuring that all work, activities, and actions linked to the delivery of the contract are in line with the EMPr and that Method Statements are implemented as described. External contractors must ensure compliance with this EMPr while performing the onsite activities as per their contract with the Project Developer. The contractors are required, where |

| Responsible Person (s) | Role and Responsibilities | | |
|--|---|--|--|
| | specified, to provide Method Statements setting out in detail how the impact management actions contained in the EMPr will be implemented during the development or expansion for overhead electricity transmission and distribution infrastructure activities. | | |
| | <u>Responsibilities</u> | | |
| | project delivery and quality control for the development services as per appointment; employ a suitably qualified person to monitor and report to the Project Developer's appointed person on the daily activities on-site during the construction period; ensure that safe, environmentally acceptable working methods and practices are implemented and that equipment is properly operated and maintained, to facilitate proper access and enable any operation to be carried out safely; attend on site meeting(s) prior to the commencement of activities to confirm the procedure and designated activity zones; ensure that contractors' staff repair, at their own cost, any environmental damage as a result of a contravention of the specifications contained in EMPr, to the satisfaction of the ECO. | | |
| contractor Environmental Officer (cEO) | Role Each Contractor affected by the EMPr should appoint a cEO, who is responsible for the on-site implementation of the EMPr (or relevant sections of the EMPr). The Contractor's representative can be the site agent; site engineer; a dedicated environmental officer; or an independent consultant. The Contractor must ensure that the Contractor's Representative is suitably qualified to perform the necessary tasks and is appointed at a level such that she/he can interact effectively with other site Contractors, labourers, the Environmental Control Officer and the public. As a minimum the cEO shall meet the following criteria: | | |
| | Responsibilities Be on site throughout the duration of the project and be dedicated to the project; Ensure all their staff are aware of the environmental requirements, conditions and constraints with respect to all of their activities on site; Implementing the environmental conditions, guidelines and requirements as stipulated within the EA, EMPr and Method Statements; Attend the Environmental Site Meeting; | | |

| Responsible Person (s) | Role and Responsibilities |
|------------------------|---|
| | |
| | - Undertaking corrective actions where non-compliances are registered within the stipulated timeframes; |
| | - Report back formally on the completion of corrective actions; |
| | - Assist the ECO in maintaining all the site documentation; |
| | - Prepare the site inspection reports and corrective action reports for submission to the ECO; |
| | - Assist the ECO with the preparing of the monthly report; and |
| | - Where more than one Contractor is undertaking work on site, each company appointed as a |
| | Contractor will appoint a cEO representing that company. |

4. ENVIRONMENTAL DOCUMENTATION REPORTING AND COMPLIANCE

To ensure accountable and demonstrated implementation of the EMPr, a number of reporting systems, documentation controls and compliance mechanisms must be in place for all overhead electricity transmission and distribution infrastructure projects as a minimum requirement.

4.1 Document control/Filing system

The holder of the EA is solely responsible for the upkeep and management of the EMPr file. At a minimum, all documentation detailed below will be stored in the EMPr file. A hard copy of all documentation shall be filed, while an electronic copy may be kept where relevant. A duplicate file will be maintained in the office of the DSS (where applicable). This duplicate file must remain current and up-to-date. The filing system must be updated and relevant documents added as required. The EMPr file must be made available at all times on request by the CA or other relevant authorities. The EMPr file will form part of any environmental audits undertaken as prescribed in the EIA Regulations.

4.2 Documentation to be available

At the outset of the project the following preliminary list of documents shall be placed in the filing system and be accessible at all times:

- Full copy of the signed EA from the CA in terms of NEMA, granting approval for the development or expansion;
- Copy of the generic and site specific EMPr as well as any amendments thereof;
- Copy of declaration of implementing generic EMPr and subsequent approval of site specific EMPr and amendments thereof;
- All method statements;
- Completed environmental checklists;
- Minutes and attendance register of environmental site meetings;
- An up-to-date environmental incident log;
- A copy of all instructions or directives issued;
- A copy of all corrective actions signed off. The corrective actions must be filed in such a way that a clear reference is made to the non-compliance record;
- Complaints register.

4.3 Weekly Environmental Checklist

The ECOs are required to complete a Weekly Environmental Checklist, the format of which is to be agreed prior to commencement of the activity. The ECOs are required to sign and date the checklist, retain a copy in the EMPr file and submit a copy of the completed checklist to the DSS on a weekly basis.

The checklists will form the basis for the Monthly Environmental Reports. Copies of all completed checklists will be attached as Annexures to the Environmental Audit Report as required in terms of the EIA Regulations.

4.4 Environmental site meetings

Minutes of the environmental site meetings shall be kept. The minutes must include an attendance register and will be attached to the Monthly Report that is distributed to attendees. Each set of minutes must clearly record "Matters for Attention" that will be reviewed at the next meeting.

4.5 Required Method Statements

The method statement will be done in such detail that the ECOs are enabled to assess whether the contractor's proposal is in accordance with the EMPr.

The method statement must cover applicable details with regard to:

- development procedures;
- materials and equipment to be used;
- getting the equipment to and from site;
- how the equipment/ material will be moved while on site;
- how and where material will be stored:
- the containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur;
- timing and location of activities;
- compliance/ non-compliance with the EMPr; and
- any other information deemed necessary by the ECOs.

Unless indicated otherwise by the Project Manager, the Contractor shall provide the following method statements to the Project Manager no less than 14 days prior to the commencement date of the activity:

- Site establishment Camps, Lay-down or storage areas, satellite camps, infrastructure;
- Batch plants;
- Workshop or plant servicing;
- Handling, transport and storage of Hazardous Chemical Substance's;
- Vegetation management Protected, clearing, aliens, felling;
- Access management Roads, gates, crossings etc.;
- Fire plan;
- Waste management transport, storage, segregation, classification, disposal (all waste streams);
- Social interaction complaints management, compensation claims, access to properties etc.;
- Water use (source, abstraction and disposal), access and all related information, crossings and mitigation;
- Emergency preparedness Spills, training, other environmental emergencies;
- Dust and noise management methodologies;
- Fauna interaction and risk management only if the risk was identified wildlife interaction especially on game farms; and
- Heritage and palaeontology management.

The ECOs shall monitor and ensure that the contractors perform in accordance with these method statements. Completed and agreed method statements between the holder of the EA and the contractor shall be captured in Appendix 1.

4.6 Environmental Incident Log (Diary)

The ECOs are required to maintain an up-to-date and current Environmental Incident Log (environmental diary). The Environmental Incident Log is a means to record all environmental incidents and/or all non-compliance notice would not be issued. An environmental incident is defined as:

- Any deviation from the listed impact management actions (listed in this EMPr) that
 may be addressed immediately by the ECOs. (For example a contractor's staff
 member littering or a drip tray that has not been emptied);
- Any environmental impact resulting from an action or activity by a contractor in contravention of the environmental stipulations and guidelines listed in the EMPr which as a single event would have a minor impact but which if cumulative and continuous would have a significant effect (for example no toilet paper available in the ablutions for an afternoon); and
- General environmental information such as road kills or injured wildlife.

The ECOs are to record all environmental incidents in the Environmental Incident Log. All incidents regardless of severity must be reported to the Developer. The Log is to be kept in the EMPr file and at a minimum the following will be recorded for each environmental incident:

- The date and time of the incident;
- Description of the incident;
- The name of the Contractor responsible;
- The incident must be listed as significant or minor;
- If the incident is listed as significant, a non-compliance notice must be issued, and recorded in the log;
- Remedial or corrective action taken to mitigate the incident; and
- Record of repeat minor offences by the same contractor or staff member.

The Environmental Incident Log will be captured in the EAR.

4.7 Non-compliance

A non-compliance notice will be issued to the responsible contractor by the ECOs via the DSS or Project Manager. The non-compliance notice will be issued in writing; a copy filed in the EMPr file and will at a minimum include the following:

- Time and date of the non-compliance;
- Name of the contractor responsible;
- Nature and description of the non-compliance;
- Recommended / required corrective action; and
- Date by which the corrective action to be completed.
- The contractors shall act immediately when a notice of non-compliance is received and correct whatever is the cause for the issuing of the notice. Complaints received regarding activities on the development site pertaining to the environment shall be

recorded in a dedicated register and the response noted with the date and action taken. The ECO should be made aware of any complaints. Any non-compliance with the agreed procedures of the EMPr is a transgression of the various statutes and laws that define the manner by which the environment is managed. Failure to redress the cause shall be reported to the relevant CA for them to deal with the transgression, as it deems fit. The contractor is deemed not to have complied with the EMPr if, inter alia, There is a deviation from the environmental conditions, impact management outcomes and impact management actions, as approved in generic and site specific EMPr as relevant as set out in the EMPr, which deviation has, or may cause, an environmental impact.

4.8 Corrective action records

For each non-compliance notice issued, a documented corrective action must be recorded. On receiving a non-compliance notice from the DSS, the contractor's cEO will ensure that the corrective actions required take place within the stipulated timeframe. On completion of the corrective action the cEO is to issue a Corrective Action Report in writing to the ECOs. If satisfied that the corrective action has been completed, the ECOs are to sign-off on the Corrective Action Report, and attach the report to the non-compliance notice in the EMPr file. A corrective action is considered complete once the report has signed off by the ECOs.

4.9 Photographic record

A digital photographic record will be kept. The photographic record will be used to show before, during and post rehabilitation evidence of the project as well used in cases of damages claims if they arise. Each image must be dated and a brief description note attached.

The Contractor shall:

1. Allow the ECOs access to take photographs of all areas, activities and actions.

The ECOs shall keep an electronic database of photographic records which will include:

- 1. Pictures of all areas designated as work areas, camp areas, development sites and storage areas taken before these areas are set up;
- 2. All bunding and fencing;
- 3. Road conditions and road verges;
- 4. Condition of all farm fences;
- 5. Topsoil storage areas;
- 6. All areas to be cordoned off during construction;
- 7. Waste management sites;
- 8. Ablution facilities (inside and out);
- 9. Any non-conformances deemed to be "significant";
- 10. All completed corrective actions for non-compliances;
- 11. All required signage;
- 12. Photographic recordings of incidents;
- 13. All areas before, during and post rehabilitation; and
- 14. Include relevant photographs in the Final Environmental Audit Report.

4.10 Complaints register

The ECOs shall keep a current and up-to-date complaints register. The complaints register is to be a record of all complaints received from communities, stakeholders and individuals. The Complaints Record shall:

- 1. Record the name and contact details of the complainant;
- 2. Record the time and date of the complaint;
- 3. Contain a detailed description of the complaint;
- 4. Where relevant and appropriate, contain photographic evidence of the complaint or damage (ECOs to take relevant photographs); and
- 5. Contain a copy of the ECOs written response to each complaint received and keep a record of any further correspondence with the complainant. The ECO's written response will include a description of any corrective action to be taken and must be signed by the Contractor, ECO and affected party. Where a damage claim is issued by the complainant, the ECOs shall respond as described in (section 4.11) below.

4.11 Claims for damages

In the event that a Claim for Damages is submitted by a community, landowner or individual, the ECOs shall:

- 1. Record the full detail of the complaint as described in (section 4.10) above;
- 2. The DPM will evaluate the claim and associated damage and submit the evaluation to the Senior Site Representative for approval;
- 3. Following consideration by the DPM, the claim is to be resolved and settled immediately, or the reason for not accepting the claim communicated in writing to the claimant. Should the claimant not accept this, the ECO shall, in writing report the incident to the Developer's negotiator and legal department; and
- 4. A formal record of the response by the ECOs to the claimant as well as the rectification of the method of making payments not amount will be recorded in the EMPr file.

4.12 Interactions with affected parties

Open, transparent and good relations with affected landowners, communities and regional staff are an essential aspect to the successful management and mitigation of environmental impacts.

The ECOs shall:

- 1. Ensure that all queries, complaints and claims are dealt within an agreed timeframe;
- 2. Ensure that any or all agreements are documented, signed by all parties and a record of the agreement kept in the EMPr file;
- 3. Ensure that a complaints telephone numbers are made available to all landowners and affected parties; and
- 4. Ensure that contact with affected parties is courteous at all times;

4.13 Environmental audits

Internal environmental audits of the activity and implementation of the EMPr must be undertaken. The findings and outcomes must be included in the EMPr file and be submitted to the CA at intervals as indicated in the EA.

An Environmental Audit Report must be prepared monthly. The report will be tabled as the key point on the agenda of the Environmental Site Meeting. The Report is submitted for acceptance at the meeting and the final report will be circulated to the Project Manager and filed in the EMPr file. At a frequency determined by the EA, the ECOs shall submit the monthly reports to the CA. At a minimum the monthly report is to cover the following:

- Weekly Environmental Checklists;
- Deviations and non-compliances with the checklists;
- Non-compliances issued;
- Completed and reported corrective actions;
- Environmental Monitoring;
- General environmental findings and actions; and
- Minutes of the Bi-monthly Environmental Site Meetings.

4.14 Final environmental audits

On final completion of the rehabilitation and/or requirements of the EA a final EAR is to be prepared and submitted to the CA. The EAR must comply with Appendix 7 of the EIA Regulations.

PART B: SECTION 1: Pre-approved generic EMPr template

5. IMPACT MANAGEMENT OUTCOMES AND IMPACT MANAGEMENT ACTIONS

This section provides a pre-approved generic EMPr template with aspects that are common to the development of overhead electricity transmission and distribution infrastructure. There is a list of aspects identified for the development or expansion of overhead electricity transmission and distribution infrastructure, and for each aspect a set of prescribed impact management outcomes and associated impact management actions have been identified. Holders of EAs are responsible to ensure the implementation of these outcomes and actions for all projects as a minimum requirement, in order to mitigate the impact of such aspects identified for the development or expansion of overhead electricity transmission and distribution infrastructure.

The template provided below is to be completed by providing the information under each heading for each environmental impact management action.

The completed template must be signed and dated on each page by both the contractor and the holder of the EA prior to commencement of the activity. The method statements prepared and agreed to by the holder of the EA must be appended to the template as Appendix 1. Each method statement must also be duly signed and dated on each page by the contactor and the holder of the EA. This template, once signed and dated, is legally binding. The holder of the EA will remain responsible for its implementation.

5.1 Environmental awareness training

Impact management outcome: All onsite staff are aware and understands the individual responsibilities in terms of this EMPr.

| Impact Management Actions | Implementation | n | | Monitoring | | |
|---|--|--|-------------------------------------|--------------------|---|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance |
| All staff must receive environmental awareness training prior to commencement of the activities; | ECO / cEO / dEO | Hold environmental awareness training workshops | Pre-construction Construction | ECO dEO | Monthly and as and when required | Attendance register and training minutes / notes for the record |
| The Contractor must allow for sufficient sessions to train all personnel with no more than 20 personnel attending each course; | Contractor | Scheduling of sufficient sessions through consultation with the ECO / cEO / dEO | Pre-construction Construction | ECO dEO | Monthly and as and when required | Attendance register and training minutes / notes for the record |
| Refresher environmental awareness training is available as and when required; | cEO / dEO in consultation with the ECO | Hold refresher environmental awareness training workshops | During the Construction phase | ECO dEO | Monthly and as and when required | Attendance register and training minutes / notes for the record |
| All staff are aware of the conditions and controls linked to the EA and within the EMPr and made aware of their individual roles and responsibilities in achieving compliance with the EA and EMPr; | cEO / dEO | Hold training Workshops and ensure that the EA and EMPr is readily available | During the Construction phase | ECO dEO | Monthly and as and when required | Attendance register and training minutes / notes for the record |

| The Contractor must erect and maintain information posters at key locations on site, and the posters must include the following information as a minimum: a)Safety notifications; and b) No littering. | Contractor | Develop and place appropriate posters at key locations | Pre-construction Construction | ECO dEO cEO | Monthly | Photographi c record |
|---|---|--|----------------------------------|-------------------|---|---|
| Environmental awareness training must include as a minimum the following: a) Description of significant environmental impacts, actual or potential, related to their work activities; b) Mitigation measures to be implemented when carrying out specific activities; c) Emergency preparedness and response procedures; d) Emergency procedures; e) Procedures to be followed when working near or within sensitive areas; f) Wastewater management procedures; g) Water usage and conservation; h) Solid waste management procedures; i) Sanitation procedures; j) Fire prevention; and k) Disease prevention. | cEO / dEO in consultation with the ECO | Develop environmental awareness training material which covers the minimum requirements | Pre-construction Construction | ECO dEO | Prior to the commence ment of the environmen tal awareness training | Environment al awareness training material requirements checklist |
| A record of all environmental awareness training courses undertaken as part of the EMPr must be available; | ECO / cEO / dEO | Filing system including all proof of training (i.e. attendance register and training minutes / notes for the record) | During the construction phase | ECO dEO | Monthly | Completed and up to date filing system with proof of training |
| Educate workers on the dangers of open and/or unattended fires; | cEO / dEO in consultation with the ECO | Develop environmental awareness training material | Pre-construction Construction | ECO dEO | Prior to the commence ment of the environmen tal | Environment al awareness training material |

| | | which covers the dangers of open and/or unattended fire | | | awareness training | requirements checklist |
|---|--------------------|--|-------------------------------|------------|-----------------------|--|
| A staff attendance register of all staff to have received environmental awareness training must be available. | ECO / cEO / dEO | Filing system including all proof of training (i.e. attendance register) | During the construction phase | ECO dEO | Monthly | Completed and up to date filing system inclusive of all attendance registers |
| Course material must be available and presented in appropriate languages that all staff can understand. | ECO / cEO / dEO | Develop environmental awareness training material in the required languages. Training material must be readily available to all staff. | During the construction phase | dEO | Monthly | Environment al awareness training material requirements checklist and the training register which must indicate the language of the training |

5.2 Site Establishment development

Impact management outcome: Impacts on the environment are minimised during site establishment and the development footprint are kept to demarcated development area.

| Impact Management Actions | Implementation | | | Monitoring | | |
|--|--------------------|---|----------------------------------|--------------------|-----------------------------------|---|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance |
| A method statement must be provided by the contractor prior to any onsite activity that includes the layout of the construction camp in the form of a plan showing the location of key infrastructure and services (where applicable), including but not limited to offices, overnight vehicle parking areas, stores, the workshop, stockpile and lay down areas, hazardous materials storage areas (including fuels), the batching plant (if one is located at the construction camp), designated access routes, equipment cleaning areas and the placement of staff accommodation, cooking and ablution facilities, waste and wastewater management; | Contractor | Development of an appropriate method statement | Pre-construction | ECO dEO | Once, prior to construction | Availability of the method statement which complies with the minimum requirement listed |
| Location of camps must be within approved area to ensure that the site does not impact on sensitive areas identified in the environmental assessment or site walk through; | DPM | Place construction camps outside of sensitive areas identified in the Basic Assessment Report | Pre-construction Construction | ECO dEO | Once, prior to construction | Availability of a layout and sensitivity map indicating avoidance of sensitive area. |
| Sites must be located where possible on previously disturbed areas; | DPM | Place site outside of the sensitive areas and within | Pre-construction | ECO dEO | Once, prior to construction | Availability of a layout and sensitivity map |

| | 1 | previously | | | | indicating |
|---|---------------------|---------------------|--------------------|-----|--------------|---------------------|
| | | disturbed areas | | | | avoidance of |
| | | | | | | |
| | | identified in the | | | | sensitive areas |
| | | BA Report | | | | and placement |
| | | | | | | within disturbed |
| | | | | | | areas. |
| - The camp must be fenced in accordance with | DPM | Design and | Pre-construction & | ECO | Once, prior | The camp is |
| Section 5.5: Fencing and gate installation; and | | implementation of | Construction | dEO | to | fenced in |
| | | fencing as per | | | construction | accordance with |
| | | requirements of | | | and once | Section 5.5 of this |
| | | Section 5.5 of this | | | during the | EMPr. |
| | | EMPr. | | | construction | |
| | | | | | of the | |
| | | | | | fencing. | |
| The use of existing accommodation for contractor | Not applicable – | | | | | |
| staff, where possible, is encouraged. | the development of | | | | | |
| 0.00.1, 111.2.2.2 2.2.3.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2 | new | | | | | |
| | accommodation is | | | | | |
| | not proposed. Staff | | | | | |
| | will be | | | | | |
| | accommodated in | | | | | |
| | | | | | | |
| | the town of | | | | | |
| | Viljoenskroon or | | | | | |
| | Orkney. | | | | | |
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5.3 Access restricted areas

Impact management outcome: Access to restricted areas prevented.

| Impact Management Actions | Implementation | | | Monitori | ing | |
|--|--|--|--|---------------------------|--|---|
| | Responsible person | Method of implementation | Timeframe for implementation | Respo nsible person | Frequency | Evidence of compliance |
| Identification of access restricted areas is to be informed by the environmental assessment, site walk through and any additional areas identified during development; | dEO/cEO in consultation with ECO | Spatially demarcate access restricted areas informed by the BA Report | Pre- construction | ECO | Once, prior to construction | Access restricted areas are identified and provided a spatial format. |
| Erect, demarcate and maintain a temporary barrier with clear signage around the perimeter of any access restricted area, colour coding could be used if appropriate; and | dEO/cEO in consultation with ECO | Erect appropriate temporary barriers around access restricted areas. | At the commencement and for the duration of the construction phase | ECO | Monthly | Access restricted areas are closed-off through temporary barriers and barriers are maintained to a sufficient standard. |
| Unauthorised access and development related activity inside access restricted areas is prohibited. | Contractor / dEO / cEO | Erect appropriate temporary barriers around access restricted areas and provide clear signage of restricted status | During the construction phase | ECO | Monthly and as and when required | Photographic evidence and notes of compliance that no unauthorised access or activities has taken place |

| | | | within the access |
|--|--|--|-------------------|
| | | | restricted areas. |

5.4 Access roads

Impact management outcome: Minimise impact to the environment through the planned and restricted movement of vehicles on site.

| Impact Management Actions | Implementatio | n | | Monitoring | | |
|---|-------------------|--|---|-------------|--|---|
| | Responsible | Method of | Timeframe for | Responsible | Frequency | Evidence of |
| Access to the servitude and tower positions must be negotiated with the relevant landowner and must fall within the assessed and authorised area; | DPM DPM | implementation Undertake negotiations for access to the servitude and tower positions with landowners affected by the grid connection corridor. | implementation Pre-construction Construction Operation | dEO dEO | Ongoing throughout construction and operation | Proof of negotiations with affected landowners and requirement of access to the servitude and tower positions in the form of written and signed agreements. |
| An access agreement must be formalised and signed by the DPM, Contractor and landowner before commencing with the activities; | DPM Contractor | Develop access agreements with the affected landowners. Ensure that agreements are approved and signed. | Pre-construction | dEO ECO | Once, prior to construction | Availability of approved and signed negotiations. |

| The access roads to tower positions must be signposted after access has been negotiated and before the commencement of the activities; | Contractor | Develop and install signs to indicate access for the project. | Pre-construction | cEO/ ECO | Once, prior to construction | Photographic record of signposted access roads and GPS coordinates of where these are placed. |
|---|------------|--|---------------------------------------|----------|------------------------------------|---|
| All private roads used for access to the servitude must be maintained and upon completion of the works, be left in at least the original condition | Contractor | Undertake maintenance activities on private roads used for construction as degradation takes place. | During the construction phase | cEO/ECO | Weekly | Photographic record of the pre-construction condition and degradation of roads, and records of the implementati on and effectiveness of maintenance activities. |
| All contractors must be made aware of all these access routes. | dEO / cEO | Develop a map illustrating all access routes associated with the project and present and provide the map to all contractors. | Pre-construction Construction | ECO | Once, prior to construction | Access routes map readily available. |
| Any access route deviation from that in the written agreement must be closed and re-vegetated immediately, at the contractor's expense; | Contractor | All access routes developed that are not in-line with the | Construction and Rehabilitation | ECO | Bi-weekly (every two weeks) | Photographic record of the closure of |

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|---|-------------|------------------------|------------------|-------------|------------------|---------------|
| | | access route | | | | access roads |
| | | agreements must be | | | | and |
| | | closed and | | | | revegetation. |
| | | rehabilitated to the | | | | |
| | | pre-disturbance state. | | | | |
| Maximum use of both existing servitudes and existing roads | Contractor | Existing access routes | Construction | cEO | Weekly | Implementati |
| must be made to minimize further disturbance through the | (and Eskom | to be used must be | and operation | Operation | | on of the |
| development of new roads; | maintenance | specified and the | | and | | approved |
| | staff where | development of new | | maintenance | | layout |
| | relevant to | roads must be avoided | | team | | |
| | operation) | as far as possible. | | | | |
| - In circumstances where private roads must be used, the | dEO / cEO | Record the conditions | During the | ECO | Prior to the use | Photographic |
| condition of the said roads must be recorded in accordance | | of private roads to be | construction | | of private | record and |
| with section 4.9: photographic record; prior to use and the | | used (prior to use) as | phase | | roads | proof of the |
| condition thereof agreed by the landowner, the DPM, and the | | per requirements of | | | | road |
| contractor; | | section 4.9 and agree | | | | conditions |
| | | on the required | | | | agreed upon |
| | | condition of the roads | | | | with the |
| | | with the landowner, | | | | relevant |
| | | DPM and contractor. | | | | parties. |
| Access roads in flattish areas must follow fence lines and tree | DPM and | Design access roads to | Pre-construction | ECO | Once during | Implementati |
| belts to avoid fragmentation of vegetated areas or croplands | Contractor | follow fence lines and | | | the design and | on of the |
| | | avoid vegetated | | | once prior to | approved |
| | | areas. | | | construction. | layout. |
| Access roads must only be developed on pre-planned and | Contractor | Construction of access | During the | ECO | Once during | Implementati |
| approved roads. | | roads only on pre- | construction | dEO | design and | on of |
| | | planned and | phase | | weekly during | approved |
| | | approved access | | | construction of | layout. |
| | | roads. | | | access roads | |
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5.5 Fencing and Gate installation

Impact management outcome: Minimise impact to the environment and ensure safe and controlled access to the site through the erection of fencing and gates where required.

| Impact Management Actions | Implementation | n | | Monitoring | | |
|---|----------------|-----------------------|--------------------|-------------|--------------|----------------|
| | Responsible | Method of | | Responsible | Frequency | Evidence of |
| | person | implementation | implementation | person | | compliance |
| Use existing gates provided to gain access to all parts of the area | Contractor | Identify and inform | Pre-construction & | dEO | Monthly | Existing gates |
| authorised for development, where possible; | | all relevant staff of | Construction | | | are utilized |
| | | the existing gates | | | | on a frequent |
| | | to be used | | | | basis and |
| | | | | | | only limited |
| | | | | | | new access |
| | | | | | | gates are |
| | | | | | | developed |
| - Existing and new gates to be recorded and documented in | ECO | Existing and new | During the | ECO | Once, | Photographic |
| accordance with section 4.9: photographic record; | | gates will be | construction | | when the | record of the |
| | | recorded and | phase | | constructio | existing and |
| | | documented as | | | n of all new | new gates as |
| | | per the | | | gates have | per |
| | | requirements of | | | been | requirement |
| | | section 4.9 | | | completed | of section 4.9 |
| All gates must be fitted with locks and be kept locked at all times | Contractor | Ensure all relevant | Construction and | ECO | Bi-weekly | All gates are |
| during the development phase, unless otherwise agreed with the | | gates are fitted | Operation | Operation | (every | locked and |
| landowner; | | with locks and are | | and | second | no |
| | | always locked | | maintenance | week) | complaints |
| | | | | team | · | from |
| | | | | | | landowners |

| | | | | | | | are received in this regard |
|---|--|------------|---|-------------------------------|-----|--|---|
| | At points where the line crosses a fence in which there is no suitable gate within the extent of the line servitude, on the instruction of the DPM, a gate must be installed at the approval of the landowner; | dEO | Install new gates where requires with the approval of the affected landowner. | During the construction phase | ECO | Once, prior to constructio n and during constructio n phase, as and when required | New gates installed as per requirement |
| | Care must be taken that the gates must be so erected that there is a gap of no more than 100 mm between the bottom of the gate and the ground; | Contractor | Install gates in a manner so that there is a gap of no more than 100, between the bottom of the gate and the ground | During the construction phase | cEO | Once, during the erection of the gates during the constructio n phase. | New gates installed as per requirement |
| | Where gates are installed in jackal proof fencing, a suitable reinforced concrete sill must be provided beneath the gate; | Contractor | Implement a reinforced concrete sill beneath gates installed for jackal proofing. | During the construction phase | cEO | Once, during the erection of the gates during the constructio n phase | No tension reduction on fence wires |
| _ | Original tension must be maintained in the fence wires; | Contractor | Maintain original tension of fences through required activities | During the construction phase | ECO | Monthly | Gates installed in electrified fencing is electrified |
| _ | All gates installed in electrified fencing must be re-electrified; | Contractor | Electrify gates installed in electrified fencing | During the construction phase | ECO | Once, during the erection of the gates | Photographic record of maintained |

| | | | | | during the construction phase | fences and barriers |
|---|-------------------------|---|-------------------------------|-----|--|---|
| All demarcation fencing and barriers must be maintained in good working order for the duration of overhead transmission and distribution electricity infrastructure development activities; | Contractor | Undertake maintenance activities on fences and barriers. | During the construction phase | ECO | Monthly | Photographic record of fences erected |
| Fencing must be erected around the camp, batching plants, hazardous storage areas, and all designated access restricted areas, where appropriate and would not cause harm to the sensitive flora; | Contractor | Fence construction camps, batching plants, hazardous storage areas and access restricted areas. Avoid sensitive flora. | During the construction phase | ECO | Once during the erection of fencing | Photographic record of fences erected |
| Any temporary fencing to restrict the movement of life-stock must only be erected with the permission of the land owner. | dEO / cEO Contractor | Obtain written approval from the relevant landowner where temporary fencing is required to restrict livestock movement. | During the construction phase | ECO | To be monitored as temporary fencing is required | Written approval to be provided by the dEO |
| All fencing must be developed of high quality material bearing the SABS mark; | Contractor | Make use of high quality materials approved by SABS. | During the construction phase | cEO | To be monitored as fencing is erected during the constructio n phase | Use of high quality materials for fencing approved by SABS |
| - The use of razor wire as fencing must be avoided; | Contractor | Razor wire must not be sources or used for the | During the construction phase | ECO | To be monitored as fencing is erected | Fences erected do not make use of razor wire |

| | | | | ı | | | 1 |
|---|--|------------|--------------------|-------------------|-----|-------------|--|
| | | | erection of | | | during the | |
| | | | fencing | | | constructio | |
| | | | | | | n phase | |
| _ | Fenced areas with gate access must remain locked after hours, | DSS and | Ensure fenced | During the | cEO | Weekly and | Fences are |
| | during weekends and on holidays if staff is away from site. Site | Contractor | areas are locked | construction | | as and | locked and |
| | security will be required at all times; | | as required | phase | | when | no |
| | | | through the | | | required | complaints |
| | | | implementation of | | | | from |
| | | | a formalized | | | | landowners |
| | | | process. Appoint a | | | | are received. |
| | | | security company | | | | A security |
| | | | | | | | company is |
| | | | | | | | appointed. |
| _ | On completion of the development phase all temporary fences are | Contractor | Removal of all | At the end of the | ECO | Once, | No |
| l | to be removed; | | temporary fences | construction | dEO | following | temporary |
| | | | | phase | | the | fences |
| | | | | | | completion | associated |
| | | | | | | of the | with the |
| | | | | | | constructio | project is |
| | | | | | | n phase | present |
| 1 | | | | | | | following the |
| | | | | | | | completion |
| | | | | | | | of the |
| | | | | | | | construction |
| | | | | | | | |
| | | | | | | | present following the completion of the |

| | | | | T | | • | 1 |
|---|---|------------|-----------------|-------------------|-----|-------------|---------------|
| _ | The contractor must ensure that all fence uprights are appropriately | Contractor | Appropriate | At the end of the | ECO | Once, | No fence |
| | removed, ensuring that no uprights are cut at ground level but rather | | removal of all | construction | dEO | following | uprights |
| | removed completely. | | fence uprights. | phase | | the | associated |
| | | | | | | completion | with the |
| | | | | | | of the | project is |
| | | | | | | constructio | present |
| | | | | | | n phase | following the |
| | | | | | | 11 pridac | completion |
| | | | | | | | of the |
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| | | | | | | | construction |
| | | | | | | | phase. |
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5.6 Water Supply Management

Impact management outcome: Undertake responsible water usage.

| Impact Management Actions | Implementation | n | | Monitoring | | |
|--|---|---|-------------------------------|--------------------|--|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance |
| All abstraction points or bore holes must be registered with the DWS and suitable water meters installed to ensure that the abstracted volumes are measured on a daily basis; | Not applicable | | | | | |
| The Contractor must ensure the following: a. The vehicle abstracting water from a river does not enter or cross it and does not operate from within the river; b. No damage occurs to the river bed or banks and that the abstraction of water does not entail stream diversion activities; and c. All reasonable measures to limit pollution or sedimentation of the downstream watercourse are implemented. | Not applicable | | | | | |
| Ensure water conservation is being practiced by: a. Minimising water use during cleaning of equipment; b. Undertaking regular audits of water systems; and c. Including a discussion on water usage and conservation during environmental awareness training. d. The use of grey water is encouraged. | Contractor / dEO / cEO in consultation with the ECO | Implement the required water conservation measures throughout onsite construction processes | During the construction phase | ECO | Monthly, and as and when required | Successful implementati on of water conservation |

5.7 Storm and waste water management

Impact management outcome: Impacts to the environment caused by storm water and wastewater discharges during construction are avoided.

| Impact Management Actions | Implementatio | n | Monitoring | | | |
|---------------------------|---------------|----------------|----------------|-------------|-----------|-------------|
| | Responsible | Method of | Timeframe for | Responsible | Frequency | Evidence of |
| | person | implementation | implementation | person | | compliance |

| Runoff from the cement/ concrete batching areas must be strictly controlled, and contaminated water must be collected, stored and either treated or disposed of off-site, at a location approved by the project manager; | Contractor | Implement measures for the control and management of runoff | During construction phase | the | ECO | Weekly | No mismanage ment of runoff or contaminate d water due to the temporary concrete batching plant |
|--|------------------------------|---|---------------------------------|-----|-----|--|---|
| , | Contractor and cEO | Obtain approved absorbent material and make use of licensed waste disposal facilities for disposal of oil | During construction phase | the | ECO | Monthly | Availability of approved absorbent material at the construction site and proof of disposal of oil at licensed disposal facilities |
| S I | DPM in consultation with ECO | Consultation between the DPM and the ECO to determine if water can be discharged directly into water bodies (where present). The necessary water quality testing must be undertaken prior | During construction phase | the | ECO | As and when the need arises to discharge natural stormwater runoff and clean water | Proof of consultation between the DPM and ECO and the outcomes thereof to be provided. Proof of water quality testing and |

| | | to discharge | | | | | the therec | results |
|--|--------------------------|--|---------------------------------|-----|-----|------------------------------|---|---|
| - Water that has been contaminated with suspended solids, such as soils and silt, may be released into watercourses or water bodies only once all suspended solids have been removed from the water by settling out these solids in settlement ponds. The release of settled water back into the environment must be subject to the Project Manager's approval and support by the ECO. | consultation with ECO | Consultation between the DPM and the ECO to determine if water can be discharged directly into water bodies (where present). The necessary water quality testing must be undertaken prior to discharge | During construction phase | the | ECO | As when need to discha water | Proof consubetwee DPM and Educate and the outco thereof water quality testing the | Itation een the CO ne mes of led. of gand results |

5.8 Solid and hazardous waste management

Impact management outcome: Waste is appropriately stored, handled and safely disposed of at a recognised waste facility.

| Impact Management Actions | Implementation M | | | | | Monitoring | | | |
|--|------------------|---------------|----|-------------------|-----|-------------|----------|---------------|--|
| | | | | | | | | | |
| | Responsible | Method | of | Timeframe | for | Responsible | Frequenc | Evidence o | |
| | person | implementatio | n | implementation | | person | У | compliance | |
| All measures regarding waste management must be undertaken | Contractor | Develop a | nd | During t | he | ECO | Monthly | Implementatio | |
| using an integrated waste management approach; | | implement | а | construction phas | Э | | | n | |
| | | waste | | · | | | | of the waste | |
| | | | | | | | | management | |

| | | management plan | | | | plan and proof of waste management through proof of responsible disposal |
|---|-----------------------|---|-------------------------------|-----|--|--|
| Sufficient, covered waste collection bins (scavenger and weatherproof) must be provided; | Contractor | Provision of appropriate waste collection bins strategically placed throughout the site | During the construction phase | ECO | Weekly | Appropriate waste collection bins are available throughout the site |
| A suitably positioned and clearly demarcated waste collection site must be identified and provided; | DPM and Contractor | Identify an appropriate location for the waste collection site which must be clearly demarcated through signage and temporary fencing. | During the construction phase | ECO | Once, prior to the commen cement of construction | A waste collection site is appropriately placed and demarcated |
| The waste collection site must be maintained in a clean and orderly manner; | Contractor | Regular collection of waste and maintenance of the area must be undertaken as per waste requirements for the project during construction. | During the construction phase | ECO | Weekly | The waste collection site is maintained and clean |

| Waste must be segregated into separate bins and clearly marked for each waste type for recycling and safe disposal; | Contractor | Provide separate and marked bins for the different waste types associated with the construction phase | During the construction phase | CEO | Weekly | Separate waste bins are available on site and waste generated is separated into the relevant bins |
|---|--|---|-------------------------------|-----|---|---|
| Staff must be trained in waste segregation; | cEO/dEO in consultation with the ECO | Include waste segregation as part of the environmental awareness training material. | Pre-construction Construction | ECO | Monthly and as and when required | Environmental awareness training material requirements checklist |
| Bins must be emptied regularly; | Contractor | Bins must be emptied before reaching total capacity and on a regular basis as required for the project | During the construction phase | ECO | Monthly | No mismanageme nt of bins. |
| General waste produced onsite must be disposed of at registered waste disposal sites/ recycling company; | Contractor | Disposal of general waste at licensed waste disposal facilities must be undertaken as per the waste management plan | During the construction phase | ECO | Monthly | Disposal certificates of disposal at licensed facilities to be provided |
| Hazardous waste must be disposed of at a registered waste disposal site; | Contractor | Disposal of hazardous waste at licensed waste disposal facilities must be undertaken as per the waste | During the construction phase | ECO | Monthly | Disposal certificates of disposal at licensed facilities to be provided |

| | | management plan | | | | |
|---|------------|---|-------------------------------|-----|---------|--|
| Certificates of safe disposal for general, hazardous and recycled waste must be maintained. | Contractor | Obtain certificates for safe disposal of waste | During the construction phase | ECO | Monthly | Disposal certificates of disposal at licensed facilities to be provided and filed as part of the filing system |

5.9 Protection of watercourses and estuaries

Impact management outcome: Pollution and contamination of the watercourse environment and or estuary erosion are prevented.

| Impact Management Actions | Implementatio | n | | | Monitoring | | |
|--|-------------------------------|--|--|------------|------------------------|------------------|--|
| All watercourses must be protected from direct or indirect spills of pollutants such as solid waste, sewage, cement, oils, fuels, chemicals, aggregate tailings, wash and contaminated water or organic material resulting from the Contractor's activities; | Responsible person Contractor | Method of implementation Contractor to undertake activities which can cause spills of pollutants outside of watercourses and riparian areas | Timeframe implementation During construction phase | for the | Responsible person ECO | Frequency Weekly | Evidence of compliance No incidents reported of spillage of pollutants into watercourses or riparian areas |
| In the event of a spill, prompt action must be taken to clear the polluted or affected areas; | Contractor and cEO | Develop a management plan or process for implementation should a spill | During construction phase | the | ECO | Weekly | Feedback must be provided by the contractor in |

| - Where possible, no development equipment must traverse any seasonal or permanent wetland | Contractor, cEO | Demarcate riparian and wetland areas to be avoided | During the construction phase | ECO | Weekly | terms of how the spill was handled and photographi c evidence of the feedback must be provided and kept on record Provide plans and evidence of fencing around riparian area. No reported |
|--|--------------------|--|-------------------------------|-----|--------|--|
| | | | | | | incidents of traversing the sensitive areas. |
| No return flow into the estuaries must be allowed and no disturbance | Not | | | | | |
| of the Estuarine Functional Zone should occur; | applicable | | | | | |
| Development of permanent watercourse or estuary crossing must only be undertaken where no alternative access to tower position is available; | cEO, Contractor | Ensure that permanent crossings (access roads) are provided for access to the grid connection corridor if no alternative crossing is | During the construction phase | ECO | Weekly | Ensure that permanent crossings are developed if there is no alternative. |

| | | available. | | | | |
|---|------------|---|---|----------|--|---|
| There must not be any impact on the long term morphological dynamics of watercourses or estuaries; | DPM, cEO | Develop a management plan or process for implementation should a spill take place within a the riparian or wetland area and ensure continually monitoring | During the construction and operation phase | ECO, dEO | For all phases of the project life cycle (i.e. constructio n, operation, decommissi oning) | No incidents reported of spillage of pollutants into sensitive water features |
| Existing crossing points must be favored over the creation of new crossings (including temporary access) | DPM, cEO | Develop a management plan or process for implementation should a spill take place within the riparian or wetland area and ensure continually monitoring | During the preconstruction and construction phase | ECO, dEO | During the construction phase of the project. | Existing crossing points utilised as opposed to new ones created and no incidents reported of spillage of pollutants into sensitive areas |
| When working in or near any watercourse or estuary, the following environmental controls and consideration must be taken: a) Water levels during the period of construction; No altering of the bed, banks, course or characteristics of a watercourse b) During the execution of the works, appropriate measures to prevent pollution and contamination of the riparian environment must be implemented e.g. including ensuring that construction equipment is well maintained; | Contractor | Activities undertaken near watercourses or sensitive riparian areas must be in-line with and consider the specified environmental controls | During the construction phase | ECO | Monthly, and as and when required | No degradation of the watercourses and riparian areas and no incidents of destruction reported |

| c) Where earthwork is being undertaken in close proximity to any watercourse, slopes must be stabilised using suitable materials, i.e. sandbags or geotextile fabric, to prevent sand and rock from entering the channel; and d) Appropriate rehabilitation and re-vegetation measures for the watercourse banks must be implemented timeously. In this regard, the banks should be appropriately and incrementally stabilised as soon as development allows. | e. n e l, | | |
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5.10 Vegetation clearing

Impact management outcome: Vegetation clearing is restricted to the authorised development footprint of the proposed infrastructure.

| Impact Management Actions | Implementatio | Implementation | | | Monitoring | | |
|---|-----------------------|---|--|------------------------------------|---|--|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance | |
| General: - Indigenous vegetation which does not interfere with the development must be left undisturbed; | cEO and contractor | Demarcate areas of indigenous vegetation to be avoided before clearance is undertaken | Construction and operation (i.e. for maintenance purposes) | ECO Operation and maintenance team | Weekly, and as and when required | No unnecessary clearance of indigenous vegetation is undertaken | |
| Protected or endangered species may occur on or near the development site. Special care should be taken not to damage such species; | Contractor | Demarcate areas containing protected or endangered species to be | During the Construction Phase | ECO | Weekly, and as and when required | No clearance of protected or endangered species other | |

| | | avoided by construction activities | | | | than those permitted to be removed |
|---|---|--|--|-------------------|--|---|
| Search, rescue and replanting of all protected and endangered species likely to be damaged during project development must be identified by the relevant specialist and completed prior to any development or clearing; | Relevant specialist in consultation with the Contractor | Develop and implement a Plant Search and Rescue Plan | Pre-construction & Construction | ECO | Weekly, and as and when required | Implementati on of the Plant Search and Rescue Plan and photographi c evidence and notes of the implementati on of the plan |
| Permits for removal must be obtained from the Department of Agriculture, Forestry and Fisheries prior to the cutting or clearing of the affected species, and they must be filed; | DPM | Undertake the permitting process in order to obtain the relevant permits for the removal of protected species. Permits must be kept on file | Pre-construction | ECO | Once, prior to the commence ment of the constructio n phase and removal of the protected species | DAFF permits on file |
| The Environmental Audit Report must confirm that all identified species have been rescued and replanted and that the location of replanting is compliant with conditions of approvals; | ECO | Ensure that the audit report indicates all species rescued and replanted and provides feedback in terms of compliance with the conditions of | During the Construction Phase and following the completion of the Construction Phase | Not Applicable | | |

| | | permits for replanting | | | | |
|---|-----------------------|--|--|-------------------|---|--|
| Trees felled due to construction must be documented and form part of the Environmental Audit Report; | ECO | Ensure that the audit report documents the details of trees felled | During the Construction Phase and following the completion of the Construction Phase | Not Applicable | | |
| Rivers and watercourses must be kept clear of felled trees, vegetation cuttings and debris; | Contractor | Felled trees, vegetation cuttings and debris must be disposed of at a licensed waste disposal facility | During the Construction Phase | ECO | Monthly | No felled trees, vegetation cuttings and debris are dumped in inappropriate locations and disposal certificates are available as proof of responsible disposal |
| Only a registered pest control operator may apply herbicides on a commercial basis and commercial application must be carried out under the supervision of a registered pest control operator, supervision of a registered pest control operator or is appropriately trained; | DPM and Contractor | A suitably qualified pest control operator must be appointed | Construction and Operation | ECO | As and when the use of herbicides is required | Only registered pest control operators must be appointed and proof of their registration must be provided |
| A daily register must be kept of all relevant details of herbicide usage; | Contractor | Develop a daily register for the documentation of the details of | During the construction phase | ECO | Monthly | Daily register provided by the |

| | | herbicide usage | | | | pest control operator |
|---|---|--|-------------------------------|--|--|---|
| No herbicides must be used in estuaries; | Not applicable | | | | | · |
| - All protected species and sensitive vegetation not removed must be clearly marked and such areas fenced off in accordance to Section 5.3: Access restricted areas. | Contractor in consultation with the cEO | Spatially demarcate protected species and sensitive vegetation and implement appropriate fencing where required as per section 5.3 | During the construction phase | ECO | Once, during the undertaking of the demarcatio n of the areas and the erection of the fencing | Demarcation and fencing is undertaken inline with the requirements of section 5.3 |
| Servitude: | | | • | | | |
| Vegetation that does not grow high enough to cause interference with overhead transmission and distribution infrastructures, or cause a fire hazard to any plantation, must not be cut or trimmed unless it is growing in the road access area, and then only at the discretion of the Project Manager; | Contractor in consultation with the DPM | Identify areas of vegetation not to be trimmed | Construction and Operation | ECO Operation and maintenance team | Monthly | An indication of the areas where vegetation has not been trimmed or where vegetation has been removed from access roads must be provided. |

| | | 1 | | • | | | |
|---|--|------------|--|-------------------------------|--|--|--|
| _ | Where clearing for access purposes is essential, the maximum width to be cleared within the servitude must be in accordance to distance as agreed between the land owner and the EA holder; | Contractor | Clearing for access must be undertaken as per the requirements provided by the landowner and the EA holder | During the construction phase | ECO | Monthly, and as and when required | Proof must be provided that only agreed upon areas have been cleared |
| | Alien invasive vegetation must be removed according to a plan (in line with relevant municipal and provincial procedures, guidelines and recommendations) and disposed of at a recognised waste disposal facility; | Contractor | Undertake removal of alien invasive vegetation in accordance with the relevant guideline relevant to the project area and ensure the vegetation is disposed of at a licensed waste disposal facility | Construction and Operation | ECO Operation and maintenance team | Monthly, and as and when required | Proof must be provided that alien invasive vegetation has been cleared in accordance to the relevant guideline and that the vegetation was disposed of at a licensed waste disposal facility |
| _ | Vegetation must be trimmed where it is likely to intrude on the minimum vegetation clearance distance (MVCD) or will intrude on this distance before the next scheduled clearance. MVCD is determined from SANS 10280; | Contractor | Develop a procedure for the trimming of vegetation in terms of the listed requirements | Construction and Operation | ECO Operation and maintenance team | Monthly, and as and when required | Proof must be provided that vegetation is trimmed in accordance with the listed |

| | | | | | | | requirements |
|---|---|------------|---|------------------------------------|--|---|--|
| _ | Debris resulting from clearing and pruning must be disposed of at a recognised waste disposal facility, unless the landowners wish to retain the cut vegetation; | Contractor | Dispose of the debris in accordance with the waste management plan | Construction and Operation | ECO Operation and maintenance team | Monthly, and as and when required | Proof must be provided that the debris has been disposed of at a licensed waste disposal facility |
| - | In the case of the development of new overhead transmission and distribution infrastructures, a one metre "trace-line" must be cut through the vegetation for stringing purposes only and no vehicle access must be cleared along the "trace-line". Alternative methods of stringing which limit impact to the environment must always be considered. | Contractor | Develop a procedure for the cutting of vegetation for stringing purposes | Pre-construction & Construction | ECO | Once, prior to the commence ment of constructio n | Proof of implementati on of the procedure for the cutting of vegetation for stringing purposes |

5.11 Protection of fauna

Impact management outcome: Minimise disturbance to fauna.

| Impact Management Actions | Implementation | n | | Monitoring | | |
|--|---|--|---|--|---|---|
| | | | | | | |
| | Responsible | Method of | Timeframe for | Responsible | Frequency | Evidence of |
| | person | implementation | implementation | person | | compliance |
| No interference with livestock must occur without the landowner's written consent and with the landowner or a person representing the landowner being present; | dEO / cEO Contractor | Develop a procedure for dealing with livestock within the affected properties | Pre-construction and during the construction phase | ECO | Once, prior to the commence ment of constructio n and as and when required during the constructio n phase | Written consent provided by the landowner and proof of representatio n of the landowner during interference |
| - The breeding sites of raptors and other wild birds species must be taken into consideration during the planning of the development programme; - The breeding sites of raptors and other wild birds species must be taken into consideration during the planning of the development programme; | dEO / cEO in consultation with the Contractor | Ensure that the planning and development programme considers breeding sites for wild bird species | Pre-construction & Construction | ECO | Once, prior to the commence ment of constructio n and as and when required | The planning and development programme includes the consideration of breeding sites for wild bird species |
| Breeding sites must be kept intact and disturbance to breeding birds must be avoided. Special care must be taken where nestlings or fledglings are present; | dEO / cEO in consultation with the Contractor | Avoid breeding sites and ensure that special care is taken in the presence of nestlings and fledglings | During the Construction Phase Operation Phase | ECO Operation and maintenance team | Weekly, and as an when required during the constructio n. Monthly, and as | Photographic record of intact breeding sites |

| - | Nesting sites on existing parallel lines must documented; | dEO / cEO in consultation with the Contractor | Walk-downs of the existing lines located parallel to the project must be undertaken and nests and the details thereof documented | During the Construction Phase Operation Phase | ECO Operation and maintenance team | and when required during operation Quarterly, and as and when required | Details of walkdowns undertaken must be noted and kept on file and photographi c records of nesting sites must be kept |
|---|--|---|---|--|--|---|--|
| - | Special recommendations of the avian specialist must be adhered to at all times to prevent unnecessary disturbance of birds; | dEO / cEO in consultation with the Contractor | All mitigation measures recommended by the avifauna specialist must be implemented | During the Construction Phase Operation Phase | ECO Operation and maintenance team | Weekly during constructio n and monthly during operation | Photographic record of compliance and successful implementati on of the recommend ed measures |
| - | Bird guards and diverters must be installed on the new line as per the recommendations of the specialist; | dEO / cEO in consultation with the Contractor | Recommendation s made by the specialist for the installation of bird guards and diverters must be adhered to and implemented as appropriate. Bird guards and diverters must be | During the Construction Phase Operation Phase | ECO Operation and maintenance team | Monthly, and as and when required | Photographic record of implementati on and maintenance of bird guards and diverters |

| | | maintained | | | | |
|--|---|--|---|--|---|--|
| No poaching must be tolerated under any circumstances. All animal dens in close proximity to the works areas must be marked as Access restricted areas; | dEO / cEO in consultation with the Contractor | All site staff must be informed of this requirement during the Environmental Awareness Training and the consequences of not adhering to the requirement. These areas must be demarcated as Access Restricted Areas | During the Construction Phase | ECO | Monthly, and as and when required | No instances of poaching is reported |
| No deliberate or intentional killing of fauna is allowed; | dEO / cEO in consultation with the Contractor | All site staff must be informed of this requirement during the Environmental Awareness Training and the consequences of not adhering to the requirement. These areas must be demarcated as Access Restricted Areas | During the Construction Phase | ECO | Monthly, and as and when required | No instances of deliberate or intentional killing is reported |
| In areas where snakes are abundant, snake deterrents to be deployed on the pylons to prevent snakes climbing up, being electrocuted and causing power outages; and | dEO / cEO in consultation with the Contractor | Implement and maintain snake deterrents on pylons in areas where snakes are abundant | During the Construction Phase and Operation Phase | ECO Operation and maintenance team | Once, during the constructio n of the pylons and | Photographic record of the implementati on and |

| | | | | | as and when required. Monthly during operation | maintenance of snake deterrents |
|---|---|---|------------------|-----|--|---|
| as listed according NEMBA (Act No. 10 of 2004) and relevant provincial ordinances may be removed and/or relocated without | DPM in consultation with the dEO | Undertake a permitting process to obtain the required permits | Pre-construction | ECO | Once, prior to the commence ment of constructio n and as and when required | Permits for removal and/relocati on must be kept on file and be readily available |

5.12 Protection of heritage resources

Impact management outcome: Minimise impact to heritage resources.

| Impact Management Actions | Implementatio | n | Monitoring | | | |
|---|---|---|------------------------------|--------------------|---|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance |
| Identify, demarcate and prevent impact to all known sensitive heritage features on site in accordance with the No-Go procedure in Section 5.3: Access restricted areas; | DPM and a suitably qualified specialist dEO / cEO in consultation with the Contractor and ECO | Undertake a Heritage Walkthrough Survey Spatially identify and demarcate areas of heritage significance as per the Heritage | Pre-construction | ECO | Once, prior to the commence ment of constructio n | Proof of avoidance of sensitive heritage features through details of avoidance and |

| | | | Impact Assessment and the Heritage Walk-through Report and as per the requirements of section 5.3 | | | | photographi c records |
|--|--|---|--|-------------------------------------|-----|---|---|
| · | I monitoring of excavations for potential fossils, erial of heritage importance; | Suitably qualified specialist in consultation with the ECO | Appoint a suitably qualified specialist to carry out the monitoring of excavations for fossils, artefacts and important heritage material | During the Construction Phase | ECO | During the undertaking of excavation s of fossils, artefacts and heritage material | Proof of appointment of a suitably qualified specialist and photographi c record of required monitoring by the specialist |
| archaeological, puncovered. Such nearest museum, a Police Services), so can be underto | e immediately, if any human remains and/or other paleontological and historical material are material, if exposed, must be reported to the archaeologist/paleontologist (or the South African or that a systematic and professional investigation aken. Sufficient time must be allowed to ch material before development recommences. | dEO / cEO in consultation with the Contractor and ECO | Develop and implement procedures for situations where human remains, archaeological, palaeontological or historical material are uncovered | During the Construction Phase | ECO | Weekly, during the constructio n phase and as and when required | Proof of work ceased and the required procedures followed in cases where material is discovered. |

5.13 Safety of the public

Impact management outcome: All precautions are taken to minimise the risk of injury, harm or complaints.

| Impact Management Actions | Implementation | n | | Monitoring | | | |
|--|---|--|----------------------------------|--------------------|---|---|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance | |
| Identify fire hazards, demarcate and restrict public access to these areas as well as notify the local authority of any potential threats e.g. large brush stockpiles, fuels etc.; | cEO in consultation with the Contractor | Develop an Emergency Preparedness, Response and Fire Management Plan specific to the project | Pre-construction Construction | ECO | Once, prior to the commence ment of constructio n and weekly during the constructio n phase | Compliance with the Emergency Preparedness , Response and Fire Managemen t Plan | |
| All unattended open excavations must be adequately fenced or demarcated; | Contractor | Ensure that all excavations undertaken is fenced and demarcated within a reasonable timeframe and in instances where excavations will be open for long-periods of time | During the construction phase | ECO | Weekly | Excavations are fenced where required and photographi c proof can be provided | |
| Adequate protective measures must be implemented to prevent unauthorised access to and climbing of partly constructed towers and protective scaffolding; | Contractor | All staff must be easily identifiable and the climbing of towers and scaffolding must be undertaken by authorised personnel as | During the construction phase | ECO | Monthly, and as and when required | No incidents of unauthorised climbing is reported | |

| | | managed by the Contractor | | | | |
|---|------------|--|-------------------------------|-----|--|---|
| Ensure structures vulnerable to high winds are secured; | Contractor | Ensure that sufficient stabilisation measures are implemented to secure structures vulnerable to high winds | During the construction phase | ECO | Weekly, and as and when required | No incidents of unstable structures due to high winds is reported |
| Maintain an incidents and complaints register in which all incidents or complaints involving the public are logged. | cEO | Compile and regularly update as incidents and complaints are submitted from the public and indicate the actions taken to resolve the complaint | During the construction phase | ECO | Monthly, and as and when required | The incidents and complaints register is complete and provides all the required details |

5.14 Sanitation

Impact management outcome: Clean and well maintained toilet facilities are available to all staff in an effort to minimise the risk of disease and impact to the environment.

| Impact Management Actions | Implementation | n | Monitoring | | | |
|---------------------------|----------------|----------------|----------------|-------------|-----------|-------------|
| | Responsible | Method of | Timeframe for | Responsible | Frequency | Evidence of |
| | person | implementation | implementation | person | | compliance |

| Mobile chemical toilets are installed onsite if no other ablution facilities are available; | Contractor | Mobile chemical toilets must be placed appropriately and in areas that avoid environmental sensitivities | During the Construction Phase | ECO | Weekly | Mobile toilets are installed and avoid environment al sensitivities |
|--|--|--|-------------------------------------|-----|--|---|
| The use of ablution facilities and or mobile toilets must be used at all times and no indiscriminate use of the veld for the purposes of ablutions must be permitted under any circumstances; | Contractor in consultation with the cEO | All site staff must be informed of this requirement during the Environmental Awareness Training and the consequences of not adhering to the requirement. | Pre-construction & Construction | ECO | Monthly, and as and when required | No evidence of non- compliance identified |
| Where mobile chemical toilets are required, the following must be ensured: a) Toilets are located no closer than 100 m to any watercourse or water body; b) Toilets are secured to the ground to prevent them from toppling due to wind or any other cause; c) No spillage occurs when the toilets are cleaned or emptied and the contents are managed in accordance with the EMPr; d) Toilets have an external closing mechanism and are closed and secured from the outside when not in use to prevent toilet paper from being blown out; e) Toilets are emptied before long weekends and workers holidays, and must be locked after working hours; f) Toilets are serviced regularly and the ECO must inspect toilets to ensure compliance to health standards; | Contractor in consultation with the cEO | The installation of the toilets by the Contractor must be as per the listed requirements | During the Construction Phase | ECO | Weekly | No evidence of non-compliance identified |
| A copy of the waste disposal certificates must be maintained. | Contractor | Certificates obtained from the licensed waste disposal | During the Construction Phase | ECO | Monthly, and as and when | Certificates for waste disposal |

| facility with the | required | from the |
|-------------------|----------|----------|
| emptying of the | | licensed |
| toilets must be | | waste |
| kept on file | | disposal |
| | | facility |

5.15 Prevention of disease

Impact Management outcome: All necessary precautions linked to the spread of disease are taken.

| Impact Management Actions | Implementation | | | Monitoring | | | |
|---|--|--|-------------------------------------|--------------------|--|--|--|
| | Responsible person | Method of implementation | f Timeframe for implementation | Responsible person | Frequency | Evidence of compliance | |
| Undertake environmentally-friendly pest control in the camp area; | Contractor | Only environmentally- friendly pest control must be used, when required | During the Construction Phase | ECO | As and when pest control is required for the project | Contractor to provide proof of pest control used being environment ally-friendly | |
| Ensure that the workforce is sensitised to the effects of sexually transmitted diseases, especially HIV AIDS; | cEO / Contractor in consultation with the ECO | The effects of sexually transmitted diseases and HIV/ AIDS must be covered in the Environmental Awareness Training | Pre-construction & Construction | ECO | Once, prior to the commenceme nt of construction and monthly during construction | Environment al awareness training material requirements checklist | |
| The Contractor must ensure that information posters on AIDS are displayed in the Contractor Camp area; | Contractor | Develop and place information posters on HIV/ | During the Construction Phase | ECO | Weekly | Photographic evidence of poster placement | |

| | | AIDS | | | | |
|--|--|--|-------------------------------------|-----|---|---|
| Information and education relating to sexually transmitted diseases to be made available to both construction workers and local community, where applicable; | cEO / Contractor in consultation with the ECO | Information and education of sexually transmitted diseases must be covered in the Environmental Awareness Training. | Pre-construction & Construction | ECO | Monthly | Environment al awareness training material requirements checklist |
| Free condoms must be made available to all staff on site at central points; | Contractor | Placement of free condoms in mobile toilets and at the construction camps | During the Construction Phase | ECO | Monthly | Proof of placement of free condoms by the contractor to be provided |
| Medical support must be made available; | dEO / cEO in consultation with the Contractor | Ensure that designated personnel with first aid training are available on site and that first aid kits to provide medical support is readily available | Construction and Operations | ECO | Monthly | Check the availability of first aid trained personnel and medical kits (including if these are complete in terms of supplies) |
| Provide access to Voluntary HIV Testing and Counselling Services. | Contractor | Compile a HIV testing schedule and provide counselling services where required | During the Construction Phase | ECO | Quarterly, and as and when required | Voluntary testing schedules and proof of counselling (where undertaken) |

5.16 Emergency procedures

Impact management outcome: Emergency procedures are in place to enable a rapid and effective response to all types of environmental emergencies.

| Impact Management Actions | Implementatio | n | | Monitoring | | |
|---|--------------------|--|------------------------------|--------------------|---|---|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance |
| Compile an Emergency Response Action Plan (ERAP) prior to the commencement of the proposed project; | Contractor | Develop an Emergency Preparedness, Response and Fire Management Plan specific to the project | Pre-construction | ECO | Once, prior to the commence ment of constructio n | Emergency Preparedness , Response and Fire Managemen t Plan compiled |
| The Emergency Plan must deal with accidents, potential spillages and fires in line with relevant legislation; | Contractor | Develop an Emergency Preparedness, Response and Fire Management Plan specific to the project which covers accidents, potential spillages and fires | Pre-construction | ECO | Once, prior to the commence ment of construction | Emergency Preparedness , Response and Fire Managemen t Plan includes required specifications |
| All staff must be made aware of emergency procedures as part of environmental awareness training; | Contractor in | Develop environmental | Pre-construction | ECO | Prior to the | Environment al |

| | consultation with the ECO | awareness training material which covers the relevant emergency procedures | | | commence ment of the environmen tal awareness training | awareness training material requirements checklist |
|---|---|---|-----------------------------|-----|---|---|
| - The relevant local authority must be made aware of a fire as soon as it starts; - The relevant local authority must be made aware of a fire as soon as it starts; | Contractor in consultation with the ECO | Develop and include a procedure in the Emergency Preparedness, Response and Fire Management Plan for the event of a fire and the procedure to be followed for informing the local authority | Construction | ECO | As and when a fire occurs | The local authority was informed as per the relevant procedure set out in the Emergency Preparedness , Response and Fire Managemen t Plan |
| In the event of emergency necessary mitigation measures to contain the spill or leak must be implemented (see Hazardous Substances section 5.17). | Contractor | Implement the required mitigation measures in the event of a spill or leak as per the requirements of Section 5.17. | Construction and Operations | ECO | As and when a spill or leak occurs | The mitigation measures included under Section 5.17 have been adhered to |

5.17 Hazardous substances

Impact management outcome: Safe storage, handling, use and disposal of hazardous substances.

| Impact Management Actions | Implementation | n | | Monitoring | | |
|--|---|--|-------------------------------------|---------------------------|--|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Respons ible person | Frequency | Evidence of compliance |
| The use and storage of hazardous substances to be minimised and non-hazardous and non-toxic alternatives substituted where possible; | cEO in consultation with the Contractor | Develop a strategy of how hazardous substances can be and should be minimised | Pre-construction & Construction | ECO | Once, prior to the commenceme nt of construction and monthly during the construction phase | Contractor to provide evidence of substances used for proof of compliance |
| All hazardous substances must be stored in suitable containers as defined in the Method Statement; | Contractor | Develop a Method Statement for the storage of hazardous substances in suitable containers | Pre-construction & Construction | ECO | Once, prior to the commenceme nt of construction and monthly during the construction phase | Photographic proof that hazardous substances are stored in suitable containers as per the requirements of the relevant Method Statements |
| Containers must be clearly marked to indicate contents, quantities and safety requirements; | Contractor | Where hazardous waste is stored these must be clearly marked indicating the required details of the contents | During the Construction Phase | ECO | Monthly | Photographic proof that containers are marked as per the requirements |

| _ | All storage areas must be bunded. The bunded area must be of sufficient capacity to contain a spill / leak from the stored containers; | Contractor | Ensure that storage areas are sufficiently bunded which are of sufficient capacity to contain a spill / leak from the stored containers | During the Construction Phase | ECO | Monthly during the Construction Phase | Photographic proof that storage areas are bunded and proof that the bund areas are of sufficient capacity to contain a spill / leak from the stored containers |
|---|--|---------------------|---|-------------------------------------|-----|--|--|
| _ | Bunded areas to be suitably lined with a SABS approved liner; | Contractor | Ensure that bunded storage areas are suitably lined | During the Construction Phase | ECO | Once, during the Construction Phase | Photographic proof that bunded storage areas are suitably lined |
| _ | An Alphabetical Hazardous Chemical Substance (HCS) control sheet must be drawn up and kept up to date on a continuous basis; | cEO / Contractor | Compile and update an Alphabetical Hazardous Chemical Substance (HCS) control sheet specific to the project | During the Construction Phase | ECO | Monthly, and as and when required | Complete and up to date control sheet provided by the Contractor |
| _ | All hazardous chemicals that will be used on site must have Material Safety Data Sheets (MSDS); | cEO / Contractor | Keep a record of all hazardous chemicals and the respective MSDS | During the Construction Phase | ECO | Monthly, and as and when required | Record of hazardous chemicals and the respective MSDS |

| All employees working with HCS must be trained in the safe use of the substance and according to the safety data sheet; | cEO / Contractor | Provide training for personnel working with HCS | Pre-construction | ECO | Once, prior to the commenceme nt of construction and as and when required | Record of training provided to personnel working with HCS |
|--|---------------------|--|-------------------------------------|-----|--|---|
| - Employees handling hazardous substances / materials must be aware of the potential impacts and follow appropriate safety measures. Appropriate personal protective equipment must be made available; - Employees handling hazardous substances / materials must be aware of the potential impacts and follow appropriate safety measures. Appropriate personal protective equipment must be made available; | cEO / Contractor | Develop environmental awareness training material which covers the relevant impacts and safety measures. Provide appropriate training and personal protective equipment for the relevant personnel handling hazardous substances and materials | Pre-construction & Construction | ECO | Prior to the commenceme nt of the environmental awareness training and monthly during the construction phase for personal protective equipment | Environment al awareness training material requirements checklist and all relevant personnel have undergone appropriate training and have access to personal protective equipment |
| The Contractor must ensure that diesel and other liquid fuel, oil and hydraulic fluid is stored in appropriate storage tanks or in bowsers; | Contractor | Appropriate storage facilities must be constructed or obtained for the storing of diesel, other liquid fuel, oil and hydraulic fluid | During the Construction Phase | ECO | Monthly, and as and when required | Storage tanks for the project are appropriate and no incidents are reported in this regard |

| _ | The tanks/ bowsers must be situated on a smooth impermeable surface (concrete) with a permanent bund. The impermeable lining must extend to the crest of the bund and the volume inside the bund must be 130% of the total capacity of all the storage tanks/ bowsers (110% statutory requirement plus an allowance for rainfall); | Contractor | Appropriate storage facilities must be constructed or obtained for tanks as per the requirements listed | During the Construction Phase | ECO | Monthly, and as and when required | Storage areas for the tanks/ bowsers for the project are appropriate and no incidents are reported in this regard |
|---|--|------------|--|-------------------------------------|------------|--|---|
| _ | The floor of the bund must be sloped, draining to an oil separator; | Contractor | Appropriate storage facilities must be constructed as per the requirements listed | During the Construction Phase | ECO | Once, during construction | Bunded storage areas are constructed according to the requirements |
| - | Provision must be made for refueling at the storage area by protecting the soil with an impermeable groundcover. Where dispensing equipment is used, a drip tray must be used to ensure small spills are contained; | Contractor | Appropriately constructed refuelling facility must be developed as per the requirements. Drip trays must be provided for use | During the Construction Phase | ECO | Monthly Weekly | Soils at the refuelling facility are protected as required and drip trays are provided and used |
| _ | All empty externally dirty drums must be stored on a drip tray or within a bunded area; | Contractor | Ensure that empty dirty drums are stored appropriately as per the requirements | During the Construction Phase | ECO cEO | Monthly Weekly | Drip trays or bunded areas are used for the storage of dirty drums |

| No unauthorised access into the hazardous substances storage areas must be permitted; | Contractor | Ensure through the implementation of procedures that no unauthorised access is undertaken into the storage areas | During the Construction Phase | ECO | Monthly | Proof of the implementati on of the relevant procedure must be provided by the contractor |
|---|------------|--|-------------------------------------|------------|--|---|
| No smoking must be allowed within the vicinity of the hazardous storage areas; | Contractor | Inform all employees of the requirement and develop and place relevant signage in the relevant areas | During the Construction Phase | ECO cEO | Monthly Weekly | Photographic record of the signage placed must be provided |
| Adequate fire-fighting equipment must be made available at all hazardous storage areas; | Contractor | Hazardous storage areas must be fitted with adequate fire-fighting equipment | During the Construction Phase | ECO | Monthly | Adequate firefighting equipment is available and has been serviced |
| Where refueling away from the dedicated refueling station is required, a mobile refueling unit must be used. Appropriate ground protection such as drip trays must be used; | Contractor | Provide a mobile refuelling unit as well as suitable ground protection, where required | During the Construction Phase | ECO | Monthly, and as and when required | A mobile refuelling unit and suitable ground protection is available for use |
| An appropriately sized spill kit kept onsite relevant to the scale of the activity/s involving the use of hazardous substance must be available at all times; | Contractor | Provide an appropriate spill kit for the project for the use of hazardous substances | During the Construction Phase | ECO | Monthly, and as and when required | Appropriate spill kits are available for use |

| _ | The responsible operator must have the required training to make use of the spill kit in emergency situations; | cEO and Contractor | Provide training on the use of spill kits to the relevant employees | Pre-construction | ECO | Once, prior to the commenceme nt of construction | Proof of training to be provided by the contractor |
|---|---|-----------------------|---|-------------------------------------|-----|--|--|
| _ | An appropriate number of spill kits must be available and must be located in all areas where activities are being undertaken; | cEO and Contractor | Provide an appropriate number of spill kits in relevant areas | During the Construction Phase | ECO | Monthly | Proof of appropriate number of spill kits in appropriate areas to be provided by the contractor |
| | In the event of a spill, contaminated soil must be collected in containers and stored in a central location and disposed of according to the National Environmental Management: Waste Act 59 of 2008. Refer to Section 5.7 for procedures concerning storm and waste water management and 5.8 for solid and hazardous waste management. | cEO and Contractor | Storage and disposal of contaminated soil must be in accordance with the National Environmental Management: Waste Act and sections 5.7 and 5.8 of this EMPr | During the Construction Phase | ECO | Monthly, and as and when required | Proof of storage and disposal in terms of the National Environment al Managemen t: Waste Act must be provided. Certificates of disposal at licensed waste disposal facilities must be provided |

5.18 Workshop, equipment maintenance and storage

Impact management outcome: Soil, surface water and groundwater contamination is minimised.

| Impact Management Actions | Implementation | | | Monitoring | | |
|--|--------------------|---|-------------------------------------|--------------------|-----------|---|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence o compliance |
| Where possible and practical all maintenance of vehicles and equipment must take place in the workshop area; | Contractor | Demarcate specific areas for the maintenance of vehicles and equipment | During the Construction Phase | ECO | Monthly | A dedicated area for the maintenance of vehicles and machinery is used. |
| During servicing of vehicles or equipment, especially where emergency repairs are effected outside the workshop area, a suitable drip tray must be used to prevent spills onto the soil. The relevant local authority must be made aware of a fire as soon as it starts; | Contractor | Ensure that a drip tray is available for an emergency repairs required | During the Construction Phase | ECO | Monthly | Contractor to provide evidence of drip tray use for emergency repairs |
| Leaking equipment must be repaired immediately or be removed from site to facilitate repair; | Contractor | Ensure that where leaking equipment is identified it is repaired immediately or removed from site for repairs | During the Construction Phase | ECO | Monthly | Contractor to provide details of equipmen repaired or removed from site |
| Workshop areas must be monitored for oil and fuel spills; | cEO | Undertake regular inspections of the workshop areas for oil and fuel spills and keep an | During the Construction Phase | ECO | Monthly | Register of inspection |

| | | updated register of inspection on site | | | | |
|--|------------|--|-------------------------------------|-----|--|---|
| Appropriately sized spill kit kept onsite relevant to the scale of the activity taking place must be available; | Contractor | Provide an appropriate spill kit for the project | During the Construction Phase | ECO | Monthly, and as and when required | Appropriate spill kits are available for use |
| - The workshop area must have a bunded concrete slab that is sloped to facilitate runoff into a collection sump or suitable oil / water separator where maintenance work on vehicles and equipment can be performed; | | Ensure that the workshop area is sufficiently bunded in accordance with the required specification | During the Construction Phase | ECO | Once, during the Constructio n Phase and as and when required | Workshop area is bunded in accordance with the required specification |
| Water drainage from the workshop must be contained and managed in accordance Section 5.7: storm and waste water management. | Contractor | Ensure that water drainage from workshop area is managed as per the requirements of section 5.7 | During the Construction Phase | ECO | Monthly | Workshop drainage is managed in accordance with the requirements |

5.19 Batching plants

Impact management outcome: Minimise spillages and contamination of soil, surface water and groundwater.

| Impact Management Actions | Implementatio | n | Monitoring | | | |
|--|--------------------|--|-------------------------------------|--------------------|-----------|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance |
| Concrete mixing must be carried out on an impermeable surface; | Contractor | Provide impermeable surface for the mixing of | During the Construction Phase | ECO | Weekly | No concrete mixing is undertaken on |

| | | concrete | | | | open ground |
|---|--|---|-------------------------------------|-----|--------|--|
| Batching plants areas must be fitted with a containment facility for the collection of cement laden water | Not Applicable - No batching plant required for the installation of the overhead power line. | | | | | |
| Dirty water from the batching plant must be contained to prevent soil and groundwater contamination | Not Applicable - No batching plant required for the installation of the overhead power line. | | | | | |
| Bagged cement must be stored in an appropriate facility and at least 10 m away from any water courses, gullies and drains | Contractor | Demarcate and provide a storage area for bagged cement in-line with the listed requirements | During the Construction Phase | ECO | Weekly | Photographic proof of bagged cement stored within the demarcated area |
| A washout facility must be provided for washing of concrete associated equipment. Water used for washing must be restricted | Contractor | Provide a washout facility for the washing of associated equipment. Enforce limitations on water use for washing of | During the Construction Phase | ECO | Weekly | No cement laden water is released into the environment. Only minimal water is used for |

| | | equipment | T | T | T | washing |
|--|------------|---|---|-----|---------------------------------------|--|
| Hardened concrete from the washout facility or concrete mixer can either be reused or disposed of at an appropriate licenced disposal facility | Contractor | Make use of hardened concrete where possible or dispose of concrete in a suitable manner | During the Construction Phase | ECO | Monthly | Certificates of disposal of concrete at licensed waste disposal facility |
| Empty cement bags must be secured with adequate binding material if these will be temporarily stored on site | | Bind empty cement bags and temporarily store it in an appropriate area on site | During the Construction Phase | ECO | Monthly | Proof of binding of empty cement bags and storage in an appropriate are on site to be provided by the Contractor |
| Sand and aggregates containing cement must be kept damp to prevent the generation of dust (Refer to Section 5.20: Dust emissions) | Contractor | Ensure that sand and aggregates are kept damp or otherwise protected from dust generation | During the Construction Phase | ECO | Monthly | Proof of damping (or alternative dust suppression) of sand and aggregates must be provided by the Contractor |
| Any excess sand, stone and cement must be removed or reused from site on completion of construction period and disposed at a registered disposal facility; | Contractor | Ensure that all excess sand, stone and cement is removed or | At the completion of the Construction Phase | ECO | Once, with the completion of | Certificates for the disposal of |

| | | reused | | constructio n | sand, stone and cement at |
|---|--|--------|--|------------------|---|
| | | | | | licensed waste disposal facilities or proof of reuse must be provided |
| Temporary fencing must be erected around batching plants in accordance with Section 5.5: Fencing and gate installation. | Not Applicable - No batching plant required for the installation of the overhead power line. | | | | |

5.20 Dust emissions

Impact management outcome: Dust prevention measures are applied to minimise the generation of dust.

| Impact Management Actions | Implementation / | | | Monitoring | | |
|--|------------------|------------------|----------------|-------------|-----------|---------------|
| | | | | | | |
| | Responsible | Method of | Timeframe for | Responsible | Frequency | Evidence of |
| | person | implementation | implementation | person | | compliance |
| Take all reasonable measures to minimise the generation of dust as | Contractor | Apply | During the | ECO | Weekly | Contractor to |
| a result of project development activities to the satisfaction of the | | appropriate dust | Construction | | | provide proof |
| ECO; | | suppressant | Phase | | | of |

| | T | T | T | 1 | 1 | |
|--|---|---|---|-------------------|---|--|
| | | | | | | use of appropriate dust suppressants |
| Removal of vegetation must be avoided until such time as soil stripping is required and similarly exposed surfaces must be re- vegetated or stabilised as soon as is practically possible | Contractor | Proper planning for vegetation removal must be undertaken as well as for the associated rehabilitation | During the Construction Phase and Rehabilitation | ECO | Weekly | Plan for implementati on must be provided by the Contractor |
| Excavation, handling and transport of erodible materials must be avoided under high wind conditions or when a visible dust plume is present | Contractor | Ensure that specific limitations are placed on the transport and handling of erodible materials during high wind conditions or when a visible dust plume is present | During the Construction Phase | ECO | Bi-weekly (every second week) | No complaints submitted in this regard |
| During high wind conditions, the ECO must evaluate the situation and make recommendations as to whether dust-damping measures are adequate, or whether working will cease altogether until the wind speed drops to an acceptable level | ECO | ECO to provide adequate recommendations | During the Construction Phase | Not applicable | | |
| Where possible, soil stockpiles must be located in sheltered areas where they are not exposed to the erosive effects of the wind | Contractor | Place soil stockpiles in areas less affected by wind | During the Construction Phase | ECO | Bi-weekly (every second week) | Soil stockpiles are not exposed to wind and have not been eroded |
| Where erosion of stockpiles becomes a problem, erosion control measures must be implemented at the discretion of the ECO; | Contractor in consultation with the ECO | Contractor to implement erosion control measures as | During the Construction Phase | ECO | Weekly, until erosion is no longer a | Recommend ations made by the |

| | | recommended and agreed with the ECO | | | problem | ECO have been implemented by the Contractor |
|---|---------------------------|---|--|--|---------|---|
| Vehicle speeds must not exceed 40 km/h along dust roads or 20 km/h when traversing unconsolidated and non-vegetated areas; | cEO / dEO / contractor | Inform all drivers of speed limits and place appropriate signage along the relevant roads | During the Construction Phase Operation Phase | ECO Operation and Maintenance team | Monthly | No complaints from community members are submitted |
| Straw stabilisation must be applied at a rate of one bale/10 m² and harrowed into the top 100 mm of top material, for all completed earthworks; | Contractor | Ensure that straw stabilisation is undertaken as per the listed requirements | During the Construction Phase | ECO | Monthly | Photographic record of all straw stabilisation undertaken |
| For significant areas of excavation or exposed ground, dust suppression measures must be used to minimise the spread of dust. | Contractor | Appropriate dust suppressant measures are implemented | During the Construction Phase | ECO | Weekly | Photographic record of measures being implemented and the results thereof |

5.21 Blasting

Impact management outcome: Impact to the environment is minimised through a safe blasting practice.

| Impact Management Actions | Implementation | n | Monitoring | | | |
|---------------------------|--------------------|--------------------------|------------------------------|--------------------|-----------|------------------------|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance |

| Any blasting | g activity must be conducted by a suitably licensed | Not | | | |
|----------------------------------|--|--------------|--|--|--|
| blasting cor | tractor; and | Applicable – | | | |
| | | no blasting | | | |
| | | proposed | | | |
| Notification | of surrounding landowners, emergency services site | Not | | | |
| personnel o | f blasting activity 24 hours prior to such activity taking | Applicable – | | | |
| place on Sit | | no blasting | | | |
| 1270.00 011 011 | | proposed | | | |

5.22 Noise

Impact Management outcome: Unnecessary noise is prevented by ensuring that noise from construction activities is mitigated.

| Impact Management Actions | Implementation | n | | Monitoring | | | |
|--|--------------------|---|-------------------------------------|--------------------|--|---|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance | |
| The Contractor must keep noise level within acceptable limits, Restrict the use of sound amplification equipment for communication and emergency only; | Contractor | Ensure that noise limits do not exceed acceptable limits and avoid the use of amplification communication | During the Construction Phase | ECO | Monthly, and as and when required | No complaints registered in this regard. No amplification equipment is used. | |
| All vehicles and machinery must be fitted with appropriate silencing technology and must be properly maintained; | Contractor | Provide and implement silencing technology | During the Construction Phase | ECO | Monthly, and as and when required | No complaints registered in this regard. Silencing technology is utilised. | |

| Any complaints received by the Contractor regarding noise must be recorded and communicated. Where possible or applicable, provide transport to and from the site on a daily basis for construction workers; | CEO | Update complaints register. Provide daily transport to and from site for employees | During the Construction Phase | ECO | Monthly, and as and when required | Complaints register provided by the cEO and proof of transportatio n services provided |
|---|-----|---|---|-----|---|--|
| Develop a Code of Conduct for the construction phase in terms of behaviour of construction staff. Operating hours as determined by the environmental authorisation are adhered to during the development phase. Where not defined, it must be ensured that development activities must still meet the impact management outcome related to noise management | | Compile a Code of Conduct for staff. Appropriate operating hours must be identified for the project | Pre-construction and Construction | ECO | Once, prior to the commence ment of constructio n | No complaints registered in this regard. |

5.23 Fire prevention

Impact management outcome: Prevention of uncontrollable fires.

| Impact Management Actions | Implementation | n | Monitoring | | | |
|---------------------------|----------------|----------------|----------------|-------------|-----------|-------------|
| | | | | | | |
| | Responsible | Method of | Timeframe for | Responsible | Frequency | Evidence of |
| | person | implementation | implementation | person | | compliance |

| Designate smoking areas where the fire hazard could be regarded as insignificant; | cEO / Contractor | Identify and demarcate through signage designated smoking areas | Pre-construction & Construction | ECO | Monthly | Photographic record of designated smoking area |
|--|---|--|------------------------------------|-----|--|--|
| Firefighting equipment must be available on all vehicles located on site; | cEO / dEO in consultation with the Contractor | Provide all vehicles with firefighting equipment | Construction | ECO | Monthly | All vehicles are fitted with firefighting equipment and the details thereof are provided by the cEO |
| The local Fire Protection Agency (FPA) must be informed of construction activities; | cEO in consultation with the ECO | Undertake formal consultation to inform the local FPA of the associated construction activities | Pre-construction | ECO | Once, during the commence ment of the Constructio n Phase | Proof of consultation with the FPA |
| Contact numbers for the FPA and emergency services must be communicated in environmental awareness training and displayed at a central location on site; | dEO / cEO / Contractor in consultation with the ECO | Develop environmental awareness training material which covers the contact numbers for the FPA and emergency services. Place the contact numbers for the FPA and emergency services at a | Pre-construction & Construction | ECO | Prior to the commence ment of the environmen tal awareness training and once during the construction phase | Environment al awareness training material requirements checklist and photographi c record of contact numbers on display |

| | | visible and central location | | | |
|--|-----|---|------------------|-------------------|--|
| – Two-way swop of contact details between ECO and FPA. | ECO | Consultation between the ECO and FPA in order to exchange contact details | Pre-construction | Not Applicable | |

5.24 Stockpiling and stockpile areas

Impact management outcome: Erosion and sedimentation as a result of stockpiling are reduced.

| Impact Management Actions | Implementatio | n | | Monitoring | | | |
|--|--------------------|---|-------------------------------------|--------------------|---|---|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance | |
| All material that is excavated during the project development phase (either during piling (if required) or earthworks) must be stored appropriately on site in order to minimise impacts to watercourses, watercourses and water bodies; | Contractor | Identify and demarcate an appropriate location for the storage of excavated materials | Pre-construction & Construction | ECO | Monthly | Excavated material is not stored within sensitive environment al areas | |
| All stockpiled material must be maintained and kept clear of weeds and alien vegetation growth by undertaking regular weeding and control methods; | Contractor | Implement appropriate and sufficient maintenance on stockpiled material regularly | During the Construction Phase | ECO | Bi-weekly (every second month) | Stockpiled material is maintained sufficiently and is clear of weeds and alien vegetation | |
| Topsoil stockpiles must not exceed 2 m in height; | Contractor | Enforce | During the Construction | ECO | Bi-weekly (every | Topsoil stockpiles | |

| | | limitations for the height of topsoil stockpiles | Phase | | second month) | do not exceed 2m in height |
|---|------------|---|-------------------------------------|-----|------------------|---|
| During periods of strong winds and heavy rain, the stockpiles must be covered with appropriate material (e.g. cloth, tarpaulin etc.); | Contractor | Appropriate material must be provided in order to cover stockpiles when required | During the Construction Phase | ECO | Monthly | Contractor to provide proof of availability of appropriate material to cover stockpiles when required |
| Where possible, sandbags (or similar) must be placed at the bases of the stockpiled material in order to prevent erosion of the material. | Contractor | Sandbags must be provided in order to prevent erosion of stockpiled materials | During the Construction Phase | ECO | Monthly | Contractor to provide proof of availability of sandbags to prevent erosion of stockpiled materials |

5.25 Finalising tower positions

Impact management outcome: No environmental degradation occurs as a result of the survey and pegging operations.

| Impact Management Actions | Implementation | | | Monitoring | | |
|---|----------------|---|------------------|-------------|-----------|-----------------------------------|
| | Responsible | Method of | Timeframe for | Responsible | Frequency | Evidence of |
| | person | implementation | implementation | person | | compliance |
| No vegetation clearing must occur during survey and pegging operations; | Contractor | Implement restrictions in terms of vegetation | Pre-construction | ECO | Weekly | Contractor to provide photographi |

| | | clearing during the survey and pegging operations | | | | proof that no vegetation has been cleared |
|--|---|--|------------------|-----|--|---|
| No new access roads must be developed to facilitate access for survey and pegging purposes; | Contractor | Restrict the development of new access roads for survey and pegging purposes | Pre-construction | ECO | Weekly | Contractor to provide photographi c proof that no new roads have been developed |
| Project manager, botanical specialist and contractor to agree on final tower positions based on survey within assessed and approved areas; | DPM, Suitably Qualified Specialist and Contractor | Undertake consultation between the relevant responsible people and finalise the tower positions for the power line | Pre-construction | ECO | Once the final tower positions have been finalised and agreed upon | Provision of final tower positions to the ECO |
| The surveyor is to demarcate (peg) access roads/tracks in consultation with ECO. No deviations will be allowed without the prior written consent from the ECO. | Surveyor in consultation with the ECO | Undertake consultation between the surveyor and the ECO | Pre-construction | ECO | Weekly | Consultation with the ECO regarding the distribution of pegs. |

5.26 Excavation and Installation of foundations

Impact management outcome: No environmental degradation occurs as a result of excavation or installation of foundations.

| Impact Management Actions | Implementation | Monitoring |
|---------------------------|----------------|------------|
| impact Management Actions | Implementation | Monitoring |
| | | |
| | | |

| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance |
|---|--------------------|--|---------------------------------------|--------------------|-----------|--|
| All excess spoil generated during foundation excavation must be disposed of in an appropriate manner and at a recognised disposal site, if not used for backfilling purposes; | Contractor | Use a licensed waste disposal facility for the disposal of excess spoil | During the Construction Phase | ECO | Monthly | Certificates obtained for the disposal of excess spoil at a licensed waste disposal facility |
| Spoil can however be used for landscaping purposes and must be covered with a layer of 150 mm topsoil for rehabilitation purposes; | Contractor | Spoil used for landscaping must be applied as per the listed requirements | Construction and Rehabilitation | ECO | Monthly | Photographic record of spoil used for landscaping purposes as well as feedback from the contractor |
| Management of equipment for excavation purposes must be undertaken in accordance with Section 5.18: Workshop equipment maintenance and storage; and | | Undertake the management of equipment for excavation as per the requirements of section 5.18 | During the Construction Phase | ECO | Monthly | Managemen t of equipment is undertaken in line with the requirements of section 5.18 |
| Hazardous substances spills from equipment must be managed in accordance with Section 5.17: Hazardous substances. | Contractor | Undertake the management of hazardous substances spills from equipment as per the requirements of section 5.17 | During the Construction Phase | ECO | Monthly | Managemen t of hazardous substances spills from equipment is |

| | | | | | | undertaken in line with the requirements of section 5.17 |
|---|---|--|-------------------------------------|-----|---------|---|
| Batching of cement to be undertaken in accordance with Section 5.19: Batching plants; | Not Applicable- No batching plant required for the installation of the overhead power line. | | | | | |
| Residual cement must be disposed of in accordance with Section 5.8: Solid and hazardous waste management. | Contractor | Undertake the disposal of residual cement as per the requirements of section 5.8 | During the Construction Phase | ECO | Monthly | The disposal of residual cement is undertaken in line with section 5.8. |

5.27 Assembly and erecting towers

Impact management outcome: No environmental degradation occurs as a result of assembly and erecting of towers.

| Impact Management Actions | Implementation | Monitoring |
|---------------------------|----------------|------------|
| impact Management Actions | Implementation | Monitoring |
| | | |
| | | |

| | | Responsible | Method of | Timeframe for | Responsible | Frequency | Evidence of |
|-------------------------|---|--|--|-------------------------------------|-------------|-----------|---|
| | | person | implementation | implementation | person | | compliance |
| stored c damage – | erection, assembled towers and tower sections must be on elevated surface (suggest wooden blocks) to minimise e to the underlying vegetation; | Contractor | Provide the necessary materials for the elevated surface, where towers are to be placed on indigenous vegetation | During the Construction Phase | ECO | Weekly | Implementati on of elevated surface and photographi c record thereof |
| | ive areas, tower assembly must take place off-site or away assitive positions; | Contractor in consultation with the cEO and the ECO | Identify sensitive areas to be avoided by tower assembly and ensure that the areas are not infringed upon | Pre-construction & Construction | ECO | Weekly | Tower assembly is undertaken outside of sensitive areas |
| | ne used for tower assembly must be operated in a manner ninimises impact to the environment; | Contractor in consultation with the cEO and the ECO | Ensure that no impact to the environment is imposed during the operation of the crane | Pre-construction & Construction | ECO | Weekly | No environment al damages incurred as a result of the crane. |
| | nber of crane trips to each site must be minimised; | Contractor in consultation with the cEO and the ECO | Ensure that the utilisation of the crane is maximised when on site. | Pre-construction & Construction | ECO | Weekly | Few crane trips to each site observed. |
| – Wheeled | d cranes must be utilised in preference to tracked cranes; | Contractor | Ensure wheeled cranes are utilised. | Pre-construction & Construction | ECO | Weekly | Wheeled cranes observed on site. |

| Consideration must be given to erecting towers by helicopter or by hand where it is warranted to limit the extent of environmental impact; | Contractor | Contractor to undertaken erecting of towers in an environmentally acceptable manner | During the Construction Phase | ECO | Monthly | No unacceptabl e environment al impacts occur with the erecting of the towers |
|--|---|--|-------------------------------------|-----|--|---|
| Access to tower positions to be undertaken in accordance with access requirements in specified in Section 8.4: Access Roads; | Contractor | Undertake access to tower positions as per the requirements of section 5.4 | During the Construction Phase | ECO | Monthly | Access to tower positions are undertaken as per the requirements of section 5.4 |
| Vegetation clearance to be undertaken in accordance with general vegetation clearance requirements specified in Section 8.10: Vegetation clearing; | Contractor | Undertake vegetation clearance as per the requirements of section 5.10 | During the Construction Phase | ECO | Weekly | Vegetation clearance is undertaken as per the requirements of section 5.10 |
| No levelling at tower sites must be permitted unless approved by the Development Project Manager or Developer Site Supervisor; | Contractor in consultation with the DPM and DSS | Written permission for levelling at tower sites, if required, must be obtained from the DPM and DSS prior to the undertaking of any levelling activities | During the Construction Phase | ECO | Monthly, and as and when required | Written permission from the DPM and DSS provided to the Contractor |

| Topsoil must be removed separately from subsoil material and sto for later use during rehabilitation of such tower sites; | ed Contractor | Implement appropriate measures to ensure that topsoil is removed from subsoil material | Construction and Rehabilitation | ECO | Weekly, and as and when required | Proof of appropriate measures implemented must be provided by the Contractor |
|---|---|--|---------------------------------------|-----|---|--|
| Topsoil must be stored in heaps not higher than 1m to previous destruction of the seed bank within the topsoil; | ent Contractor | Implement the listed requirements for the storage of topsoil | During the Construction Phase | ECO | Weekly | Topsoil is stored as per the listed requirements |
| Excavated slopes must be no greater that 1:3, but where this unavoidable, appropriate measures must be undertaken to stab the slopes; | | Implement the listed requirements for the excavation of slopes | During the Construction Phase | ECO | Weekly | Excavation of slopes is undertaken as per the listed requirements |
| Fly rock from blasting activity must be minimised and any pie- greater than 150 mm falling beyond the Working Area, must collected and removed; | | | | | | |
| Only existing disturbed areas are utilised as spoil areas; | Contractor in consultation with the ECO | Identify, demarcate and use existing disturbed areas for spoil areas | Pre-construction & Construction | ECO | Weekly | Only identified disturbed areas are used as spoil areas |
| Drainage is provided to control groundwater exit gradient with spill areas such that migration of fines is kept to a minimum; | he Not Applicable | | | | | |
| Surface water runoff is appropriately channeled through or arous spoil areas; | | Design and implement appropriate surface runoff measures for spoil areas | Pre-construction & Construction | ECO | Once, during the constructio n of the surface | Implementati on of surface runoff measures |

| | | | | | runoff measures | through and/or around spoil areas |
|---|------------|--|------------------------------------|-----|--------------------|--|
| During backfilling operations, care must be taken not to dump the topsoil at the bottom of the foundation and then put spoil on top of that; | Contractor | Develop and implement backfilling procedures which ensures that topsoil is not placed at the bottom of foundations. | Pre-construction & Construction | ECO | Weekly | Backfilling operations are undertaken as per the procedures developed |
| The surface of the spoil is appropriately rehabilitated in accordance with the requirements specified in Section 5.29: Landscaping and rehabilitation; | Contractor | Rehabilitation of the surface spoil must be undertaken in accordance with the requirements of section 5.29 | Rehabilitation | ECO | Weekly | Rehabilitation of the surface spoil is undertaken as per the requirements of section 5.29 |
| - The retained topsoil must be spread evenly over areas to be rehabilitated and suitably compacted to effect re-vegetation of such areas to prevent erosion as soon as construction activities on the site is complete. Spreading of topsoil must not be undertaken at the beginning of the dry season. | Contractor | Ensure that topsoil is spread evenly and compacted appropriately. This must be undertaken outside of the start of the dry season | Rehabilitation | ECO | Weekly | Proof that topsoil has been spread evenly and compacted correctly must be provided by the Contractor/ cEO. Proof that the activities were undertaken |

| | | outside e | of tho |
|--|--|--------------------------|--------|
| | | ouiside o | л ше |
| | | outside o start of th | 1e |
| | | dry | |
| | | season m | nust |
| | | be | |
| | | provided | l by |
| | | the | |
| | | Contract | or |

5.28 Stringing

Impact management outcome: No environmental degradation occurs as a result of stringing.

| Impact Management Actions | Implementatio | n | | Monitoring | | |
|---|--|---|------------------------------------|--------------------|-----------|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance |
| - Where possible, previously disturbed areas must be used for the siting of winch and tensioner stations. In all other instances, the siting of the winch and tensioner must avoid Access restricted areas and other sensitive areas; | Contractor in consultation with the ECO | Identify and demarcate areas appropriate for the siting of winch and tensioner stations which does not infringe on access restricted areas or environmentally sensitive areas | Pre-construction & Construction | ECO | Weekly | Winch and tensioner stations are located are located outside of identified sensitive areas |
| The winch and tensioner station must be equipped with drip trays in order to contain any fuel, hydraulic fuel or oil spills and leaks; | Contractor | Provide sufficient drip trays | During the Construction | ECO | Weekly | Sufficient drip trays are |

| | | | Phase | | | available for the winch and tensioner stations and no spills occur |
|--|------------|--|-------------------------------------|-----|---|--|
| Refueling of the winch and tensioner stations must be undertaken in accordance with Section 5.17: Hazardous substances; | Contractor | The refuelling of winch and tensioner stations must be undertaken as per the requirements of section 5.17 | During the Construction Phase | ECO | Monthly | The refuelling of winch and tensioner stations is undertaken as per the requirements of section 5.17 |
| In the case of the development of overhead transmission and distribution infrastructure, a one metre "trace-line" may be cut through the vegetation for stringing purposes only and no vehicle access must be cleared along "trace-lines". Vegetation clearing must be undertaken by hand, using chainsaws and hand held implements, with vegetation being cut off at ground level. No tracked or wheeled mechanised equipment must be used; | Contractor | Develop and implement procedures for implementation for vegetation clearing during stringing in line with the specification. | Pre-construction & Construction | ECO | Once, prior to the commence ment of constructio n and weekly during stringing | Implementati on of the procedures put in place and proof thereof from the Contractor |
| Alternative methods of stringing which limit impact to the environment must always be considered e.g. by hand or by using a helicopter; | Contractor | Identify and implement the stringing method with the least environmental impact | During the Construction Phase | ECO | Weekly | Implementati on of identified method of stringing with the least environment al impact |

| _ | Where the stringing operation crosses a public or private road or railway line, the necessary scaffolding/ protection measures must be installed to facilitate access. If, for any reason, such access has to be closed for any period(s) during development, the persons affected must be given reasonable notice, in writing; | Contractor | Identify prior to construction areas where protection measures will be required during stringing. Where access is to be restricted timeous written notice must be provided to the affected parties | Pre-construction & Construction | ECO | Monthly, and as and when required | Proof of implementati on of protection measures and proof of written notice to affected parties must be provided by the Contractor |
|---|---|---|--|-------------------------------------|-----|--|--|
| - | No services (electrical distribution lines, telephone lines, roads, railways lines, pipelines fences etc.) must be damaged because of stringing operations. Where disruption to services is unavoidable, persons affected must be given reasonable notice, in writing; | Contractor in consultation with the cEO | Avoid the damaging or disturbance of existing services. Where services will be disrupted timeous notice must be provided to the affected parties | During the Construction Phase | ECO | Monthly, and as and when required | No disruption of services occurs. Where disruption occurs proof of written notice to affected parties must be provided by the Contractor |
| _ | Where stringing operations cross cultivated land, damage to crops is restricted to the minimum required to conduct stringing operations, and reasonable notice (10 work days minimum), in writing, must be provided to the landowner; | Not Applicable | | | | | |
| _ | Necessary scaffolding protection measures must be installed to prevent damage to the structures supporting certain high value agricultural areas such as vineyards, orchards, nurseries. | Not Applicable | | | | | |

5.29 Socio-economic

Impact management outcome: Socio-economic development is enhanced.

| Impact Management Actions | Implementation | n | | Monitoring | | | |
|--|--------------------|---|------------------------------------|--------------------|--|---|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsible person | Frequency | Evidence of compliance | |
| Develop and implement communication strategies to facilitate public participation; | dEO / cEO | Identify and implement appropriate strategies for communication with the communities through consideration of the community needs | Pre-construction & Construction | ECO | Once, prior to the commence ment of constructio n and monthly during the constructio n | Communication is undertaken as per the identified strategies and no complaints are submitted regarding communication | |
| Develop and implement a collaborative and constructive approach to conflict resolution as part of the external stakeholder engagement process; | Contractor | Development and implement a Grievance Mechanism which considers the community needs and provides procedures for conflict resolution | Pre-construction & Construction | ECO | Once, prior to the commence ment of constructio n and monthly during the constructio n | Conflict resolution is undertaken in line with the requirements of the Grievance Mechanism. No complaints on conflict | |

| Sustain continuous communication and liaison with neighboring | Contractor | Development | Pre-construction | ECO | Once, prior | resolution is submitted by the community Communicati |
|--|------------|--|------------------------------------|-----|--|--|
| owners and residents | | and implement and Grievance Mechanism provides procedures for communication / liaison with neighbouring landowners and residents | & Construction | | to the commence ment of constructio n and monthly during the constructio n | on / liaison with neighbouring landowners and residents are undertaken in line with the requirements of the Grievance Mechanism. No complaints on communicati on with neighbouring landowners and residents is submitted |
| Create work and training opportunities for local stakeholders; and | Contractor | Develop and implement a "locals first" policy for the provision of employment opportunities | Pre-construction & Construction | ECO | Once, prior to the commence ment of constructio n and monthly during the | The "locals first" policy is considered in terms of the employment and training opportunities |

| | | | constructio | |
|--|---|--|-------------|--|
| | | | n | |
| - Where feasible, no workers, with the exception of security personnel, must be permitted to stay over-night on the site. This would reduce the risk to local farmers. | Not Applicable - no workers, other than security is proposed to stay on-site over night | | | |

5.30 Temporary closure of site

Impact management outcome: Minimise the risk of environmental impact during periods of site closure greater than five days.

| Impact Management Actions | Implementatio | n | | Monitoring | Monitoring | | |
|---|-------------------------------|--|---|------------------------|---|--|--|
| - Bunds must be emptied (where applicable) and need to be undertaken in accordance with the impact management actions included in sections 5.17: management of hazardous substances and 5.18 workshop, equipment maintenance and storage; | Responsible person Contractor | Method of implementation Regular emptying of the bunds must be undertaken. This must be undertaken as per the requirements listed in sections 5.17 and 5.18 | Timeframe for implementation During the Construction Phase | Responsible person ECO | Prior to site closure for more than 05 days | Evidence of compliance Bunds are emptied as per the requirements listed under sections 5.17 and 5.18 | |
| Hazardous storage areas must be well ventilated; | Contractor | Install appropriate ventilation in all hazardous | During the Construction Phase | ECO | Prior to site closure for more | Effective ventilation is installed in hazardous | |

| | | T | storage areas | | | than 05 | storage areas |
|---|---|--|--|-------------------------------------|-----|---|---|
| | | | 3.5.490 4.043 | | | days | 3.5.495 4.543 |
| _ | Fire extinguishers must be serviced and accessible. Service records to be filed and audited at last service; | Contractor / cEO | Ensure fire extinguishers are serviced, as required and are easily accessible with appropriate signage indicating location. Ensure service records and kept up to date and filed | During the Construction Phase | ECO | Prior to site closure for more than 05 days | Signage placed indicating location of fire extinguishers and service records |
| - | Emergency and contact details displayed must be displayed; | Contractor / cEO | Place emergency and contact details which are readily available and easily accessible | During the Construction Phase | ECO | Prior to site closure for more than 05 days | Photographic proof of contact details on display |
| _ | Security personnel must be briefed and have the facilities to contact or be contacted by relevant management and emergency personnel; | Contractor in consultation with the ECO | Hold a workshop with all security personnel to provide a brief of the project and security requirements. Provide facilities in order to contact management and emergency personnel | Pre-construction & construction | ECO | Prior to site closure for more than 05 days | Proof of the workshop held must be kept on file by the contractor. |
| _ | Night hazards such as reflectors, lighting, traffic signage etc. must have been checked; | Contractor | Regular checks of night hazards must be undertaken | During the Construction Phase | ECO | Prior to site closure for more than 05 days | Proof of checks of night hazards must be |

| | | | | | | provided by the |
|---|---|---|-------------------------------------|-----|---|---|
| - Fire hazards identified and the local authority must have been notified of any potential threats e.g. large brush stockpiles, fuels etc.; | Contractor in consultation with the ECO | Identify any potential fire hazards and notify the relevant local authority | During the Construction Phase | ECO | Prior to site closure for more than 05 days | Proof of notification of the fire hazards to the local authority must be provided by the Contractor |
| Structures vulnerable to high winds must be secured; | Contractor | Ensure structures vulnerable to wind are secure prior to site closure | During the Construction Phase | ECO | Prior to site closure for more than 05 days | Structures vulnerable to wind are secured prior to site closure |
| Wind and dust mitigation must be implemented; | Contractor | Implement wind and dust mitigation prior to site closure | During the Construction Phase | ECO | Prior to site closure for more than 05 days | Wind and dust mitigation is implemented prior to site closure |
| Cement and materials stores must have been secured; | Contractor | Ensure cement and material stores are secured prior to site closure | During the Construction Phase | ECO | Prior to site closure for more than 05 days | Cement and material stores are secured prior to site closure |
| Toilets must have been emptied and secured; | Contractor | Ensure toilets are emptied and secured prior to site closure | During the Construction Phase | ECO | Prior to site closure for more than 05 days | Toilets are emptied and secured prior to site closure |
| Refuse bins must have been emptied and secured; | Contractor | Ensure refuse bins are emptied | During the Construction | ECO | Prior to site | refuse bins are |

| | | and secured prior to site closure | Phase | | closure for more than 05 days | emptied and secured prior to site closure |
|--|------------|---|-------------------------------------|-----|---|--|
| Drip trays must have been emptied and secured. | Contractor | Ensure drip trays are emptied and secured prior to site closure | During the Construction Phase | ECO | Prior to site closure for more than 05 days | Drip trays are emptied and secured prior to site closure |

5.31 Landscaping and rehabilitation

Impact management outcome: Areas disturbed during the development phase are returned to a state that approximates the original condition.

| Impact Management Actions | Implementation | | | Monitoring | | | |
|---|--------------------|---|--------------------------------------|---------------------------|-----------|--|--|
| | Responsible person | Method of implementation | Timeframe for implementation | Responsib le person | Frequency | Evidence of compliance | |
| All areas disturbed by construction activities must be subject to landscaping and rehabilitation; All spoil and waste must be disposed to a registered waste site and certificates of disposal provided; Provided: | Contractor | Develop and implement a rehabilitation plan for the rehabilitation of all disturbed areas. Dispose of all spoil and waste at a licensed waste disposal facility | Pre-construction & Rehabilitation | ECO | Weekly | Rehabilitation of the disturbed areas is undertaken as per the rehabilitation plan. All certificates of waste disposal at licensed facilities are available. | |

| All slopes must be assessed for contourir the need is identified in accordance Agricultural Resources Act, No 43 of 198 | e with the Conservation of | Contractor in consultation with the ECO | Assess all slopes and determine whether contouring is required | Rehabilitation | ECO | Weekly | All slopes are assessed and contoured as required |
|---|------------------------------|--|---|----------------|-----|--------|--|
| All slopes must be assessed for terracin the need is identified in accordance Agricultural Resources Act, No 43 of 198 | e with the Conservation of | Contractor in consultation with the ECO | Assess all slopes and determine whether terracing is required | Rehabilitation | ECO | Weekly | All slopes are assessed and terraced as required |
| Berms that have been created must be replanted with indigenous species and the original condition; | d grasses that approximates | Contractor | Ensure all berms have a slope of 1:4 and is replanted with indigenous species and grasses | Rehabilitation | ECO | Weekly | All berms have a slope of 1:4 and is replanted with indigenous species and grasses |
| Where new access roads have crosse lands must be rehabilitated by ripping the holder of the EA and the landowne | which must be agreed to by | Not applicable | | | | | |
| Rehabilitation of tower sites and access | s roads outside of farmland; | Not applicable | | | | | |
| Indigenous species must be used for where it compliments or approximates | the original condition; | Contractor | Make use of indigenous species for rehabilitation | Rehabilitation | ECO | Weekly | Indigenous species are used for rehabilitation |
| Stockpiled topsoil must be used for re 5.24: Stockpiling and stockpiled areas); | ; | Contractor | Ensure stockpiled topsoil is used as per the requirements listed under section 5.24 | Rehabilitation | ECO | Weekly | Stockpiled topsoil is used as per the requirements listed under section 5.24 |
| Stockpiled topsoil must be evenly spread and minimise loss of soil due to erosion; | 9 | Contractor | Ensure that topsoil is spread | Rehabilitation | ECO | Weekly | Topsoil is spread |

| | | evenly | | | | evenly |
|---|------------|--|--------------------------------------|-----|---|--|
| Before placing topsoil, all visible weeds from the placement area and from the topsoil must be removed; | Contractor | Remove all visible weeds from placement area and topsoil before spreading the topsoil | Rehabilitation | ECO | Weekly | No weeds are visible in the placement area or the topsoil |
| Subsoil must be ripped before topsoil is placed; | Contractor | Undertake the ripping of subsoil prior to the spreading of topsoil | Rehabilitation | ECO | Weekly | Subsoil is ripped before topsoil is placed |
| The rehabilitation must be timed so that rehabilitation can take place at the optimal time for vegetation establishment; | Contractor | Plan the timeframe for rehabilitation in order to undertake vegetation planting during the optimal time for vegetation establishment | Rehabilitation | ECO | At the start of rehabilitation to confirm correct timeframe | Rehabilitation is undertaken during the optimal time |
| Where impacted through construction related activity, all sloped areas must be stabilised to ensure proper rehabilitation is effected and erosion is controlled; | Contractor | All disturbed slope areas must be stabilised | Rehabilitation | ECO | Weekly | Disturbed slopes are stabilised sufficiently |
| Sloped areas stabilised using design structures or vegetation as specified in the design to prevent erosion of embankments. The contract design specifications must be adhered to and implemented strictly; | Contractor | Stabilise slopes as per the design specifications | Pre-construction & Rehabilitation | ECO | Weekly | Slopes are stabilised as per the design specifications |
| Spoil can be used for backfilling or landscaping as long as it is covered by a minimum of 150 mm of topsoil. | Contractor | Spoil used for landscaping must be applied as per the listed requirements | Rehabilitation | ECO | Weekly | Photographic record of spoil used for landscaping purposes as well |

| | | | | | | as feedback from the contractor |
|---|---------------------------------------|---|----------------|-----|----------------------|--|
| Where required, re-vegetation including hydro-seeding can be enhanced using a vegetation seed mixture as described below. A mixture of seed can be used provided the mixture is carefully selected to ensure the following: a) Annual and perennial plants are chosen; b) Pioneer species are included; c) Species chosen must be indigenous to the area with the seeds used coming from the area; d) Root systems must have a binding effect on the soil; e) The final product must not cause an ecological imbalance in the area | a suitably qualified specialist | Make use of a suitable vegetation seed mixture should enhancement be required | Rehabilitation | ECO | As and when required | Use of a suitable vegetation seed mixture if required |

6 ACCESS TO THE GENERIC EMPr

Once completed and signed, to allow the public access to the generic EMPr, the holder of the EA must make the EMPr available to the public in accordance with the requirements of regulation 26(h) of the EIA Regulations.

PART B: SECTION 2

7 SITE SPECIFIC INFORMATION AND DECLARATION

7.1 Sub-section 1: contact details and description of the project

7.1.1 Details of the applicant:

Name of applicant: Oryx Solar Power Plant (RF) (Pty) Ltd.

Tel No: +46 76 941 8927 / +27 78 335 9550

Fax No: +27862 731 614

Postal Address: PO Box 785553, Sandton

Physical Address: 2nd Floor, West Tower, Maude Street, Nelson Mandela Square,

Sandton, 2196

7.1.2 Details and expertise of the EAP:

Name of applicant: Christia van Dyk

Tel No: 078 470 5252

Fax No: 086 762 8336

E-mail address: christia@environamics.co.za

And/or

Name of applicant: Lisa de Lange

Tel No: 084 920 3111

Fax No: 086 762 8336

E-mail address: lisa@environamics.co.za

Expertise of the EAP (Curriculum Vitae included): Refer to Appendix 2 of this EMpr.

7.1.3 Project name: The proposed Oryx Solar Power Plant near Virginia, Free State

Province.

7.1.4 Description of the project:

The activity entails the development of a photovoltaic solar facility and associated infrastructure on the Portion 2 (Beverley) of the Farm Kalkoenkrans No. 225, Registration Division Theunissen, Free State Province situated within the Matjhabeng Local Municipality area of jurisdiction. The proposed development is located in the Free State Province in the northern central interior of South-Africa. The town of Welkom is located approximately 20km to the north and Virginia is located approximately 11km to the northeast of the proposed development.

The project entails the generation of up to 150MW electrical power through the installation and operation of photovoltaic (PV) panels. An area of 311ha has been assessed as part of this EIA report and a smaller area for the placement of the infrastructure (including supporting infrastructure on site), known as the development footprint has been placed within the larger area assessed. The development footprint is proposed to be 256ha in extent.

The property on which the facility is to be constructed will be leased by Oryx Solar Power Plant (RF) (Pty) Ltd from the property owner, William Peter Du Plessis Familie Trust, for the life span of the project (minimum of 20 years).

It is expected that generation from the facility will tie in with an existing power line present within the affected property and development footprint. Three grid connection points are being considered for the development which includes the Oryx 2 - Theseus 132kV Overhead Power Line, the Oryx 1 - Theseus 132kV Overhead Power Line and the Beatrix - Theseus 132kV Overhead Power Line. A new 132kV power line will be constructed to connect the solar power plant to one of the three connection points. For the placement of the new power line three grid connection corridors are being assessed (each with a width of between 100m and 115m). These are as follows:

- Grid connection corridor option 1 will connect the facility to the existing Oryx 2-Theseus 132kV Overhead Power Line. This is considered to be the technically preferred option by the Applicant.
- Grid connection corridor option 2 will connect the facility to the existing Oryx 1 Theseus 132kV Overhead Power Line.
- Grid connection corridor option 3 will connect the facility to the existing Beatrix Theseus 132kV Overhead Power Line.

It must be noted that the grid connection corridor options 2 and 3 follow a similar route and therefore overlap. All three grid connection corridor options are located within the affected property and therefore no areas outside of the farm portion will be affected.

The minimum vertical clearance to buildings, poles and structures not forming part of the power line must be 3.8m, while the minimum vertical clearance between the conductors and the ground is 6.7m. The minimum distance between trees and shrubs and any bare phase conductor of a 132kV power line must be 4m, allowing for the possible sideways movement and swing of both the power line conductor and the tree or shrub. The structure to be utilised for the power line towers will be informed by the local geotechnical and topographical conditions as well as by specific requirements from Eskom.

Construction of the proposed power line will take approximately 12 - 15 months to complete and, on completion, will be handed over to Eskom Holdings Soc Ltd. to operate and maintain.

7.1.5 Project location:

| Power Line Coordinates | | | | | | |
|------------------------|---|---------------|---------------|--|--|--|
| 100m wide Power | 1 | 28°10'51.61"S | 26°44'17.19"E | | | |
| Line Corridor | 2 | 28°10'49.02"S | 26°44'19.68"E | | | |
| (Option 1) | 3 | 28°10'49.35"S | 26°44'20.15"E | | | |
| | 4 | 28°10'52.99"S | 26°44'21.68"E | | | |
| | 5 | 28°10'54.10"S | 26°44'18.23"E | | | |
| 100m wide Power | 1 | 28°10'58.63"S | 26°44'20.09"E | | | |
| Line Corridor | 2 | 28°10'57.50"S | 26°44'23.55"E | | | |
| (Option 2 and 3) | 3 | 28°10'59.86"S | 26°44'24.49"E | | | |
| | 4 | 28°11'1.53"S | 26°44'21.31"E | | | |

7.16 Preliminary technical specification of the overhead transmission and distribution:

Length:

- Grid connection corridor option 1 will connect the facility to the existing Oryx 2
 Theseus 132kV Overhead Power Line. The length of the corridor is 133m. This is considered to be the technically preferred option by the Applicant.
- Grid connection corridor option 2 will connect the facility to the existing Oryx 1
 Theseus 132kV Overhead Power Line. The length of the corridor is 95m.
- Grid connection corridor option 3 will connect the facility to the existing Beatrix
 Theseus 132kV Overhead Power Line. The length of the corridor is 95m.

Tower parameters:

- Number and types of towers: Information not available at this stage
- Tower spacing (mean and maximum): Power line towers (or pylons) are an average distance of 200m apart but can exceed 500m depending on the topography and terrain to be spanned.
- Tower height (lowest, mean and height): Up to 32m
- Conductor attachment height (mean): Information not available at this stage
- Minimum ground clearance: Information not available at this stage

7.2 Sub-section 2: Development footprint site map

This sub-section must include a map of the site sensitivity overlaid with the preliminary infrastructure layout. The sensitivity map must be prepared from the national web based environmental screening tool, when available for compulsory use https://screening.environment.gov.za/screeningtool. The sensitivity map shall identify the nature of each sensitive feature e.g. raptor nest, threatened plant species, archaeological site, etc. Sensitivity maps shall identify features both within the planned working area and any known sensitive features in the surrounding landscape. The overhead transmission and distribution profile shall be illustrated at an appropriate resolution to enable fine scale interrogation. It is recommended that <20 km of overhead transmission and distribution length is illustrated per page in A3 landscape format. Where considered appropriate, photographs of sensitive features in the context of tower positions shall be used.

It must be note that the maps provided below relate to the larger solar power plant which the power line is associated with.

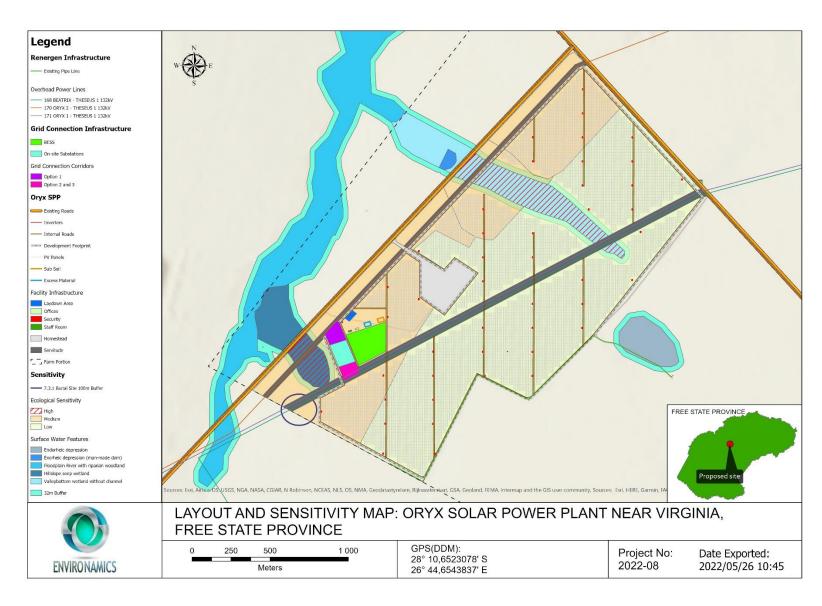


Figure 1: Environmental sensitivity map of the Oryx Solar Power Plant

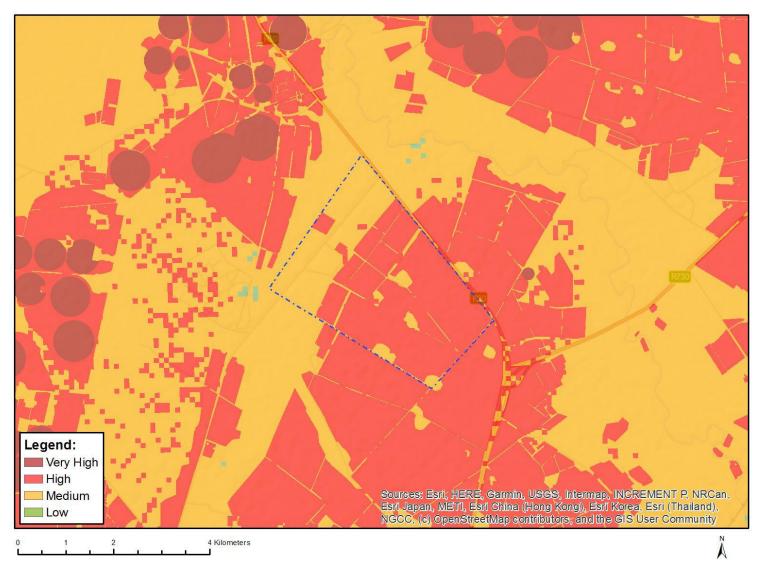


Figure 2: Map of the relative agricultural theme sensitivity

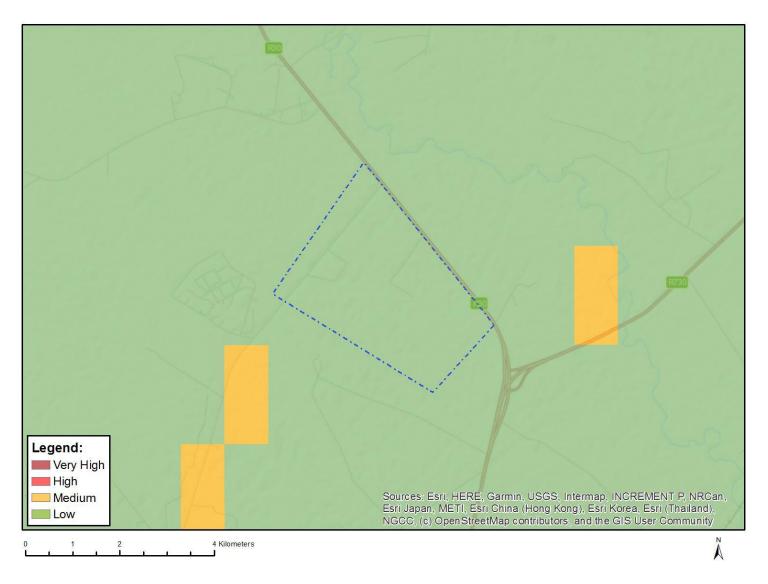


Figure 3: Map of the relative animal species theme sensitivity

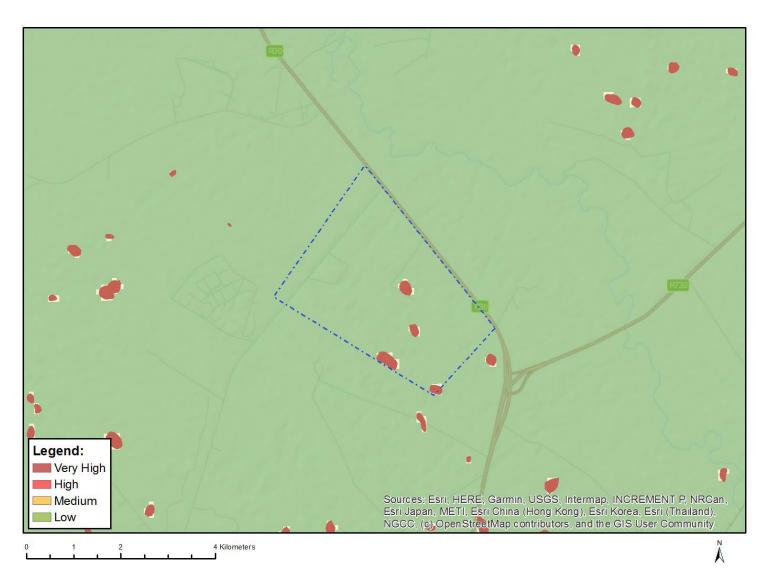


Figure 4: Map of the relative aquatic biodiversity theme sensitivity

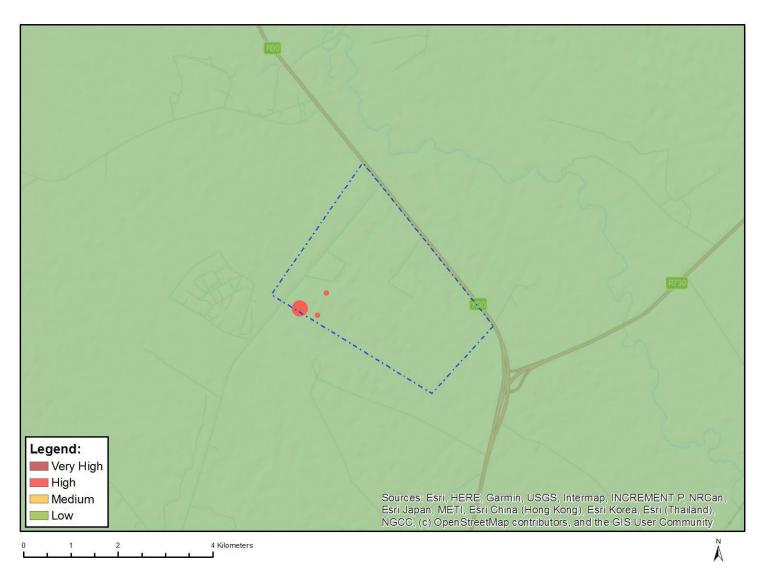


Figure 5: Map of the relative archaeological and cultural heritage sensitivity

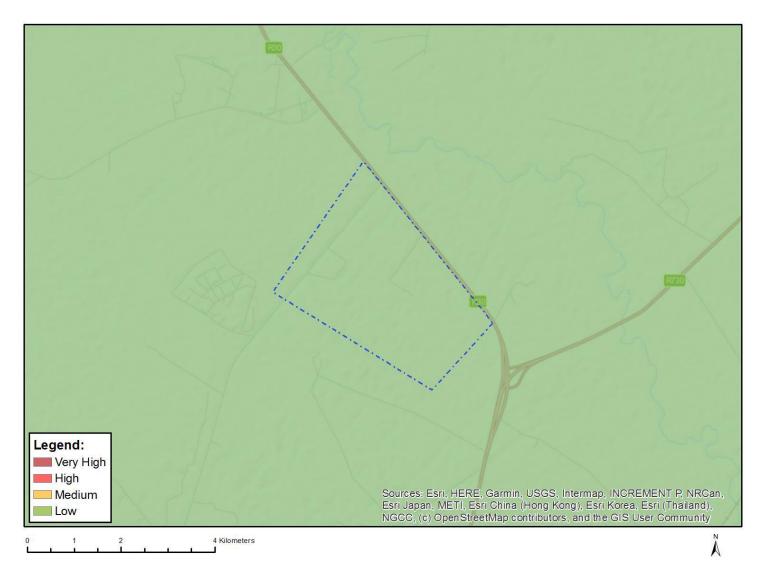


Figure 6: Map of the relative avian theme sensitivity

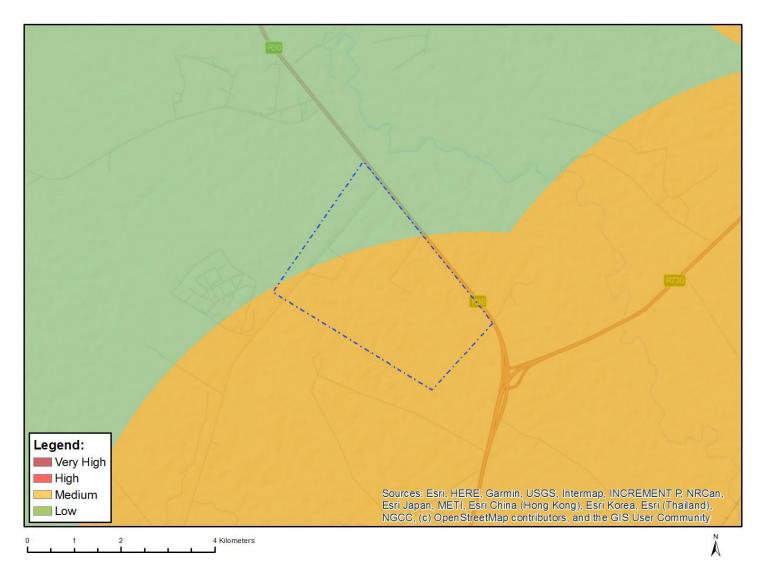


Figure 7: Map of the relative civil aviation (Solar PV) theme sensitivity

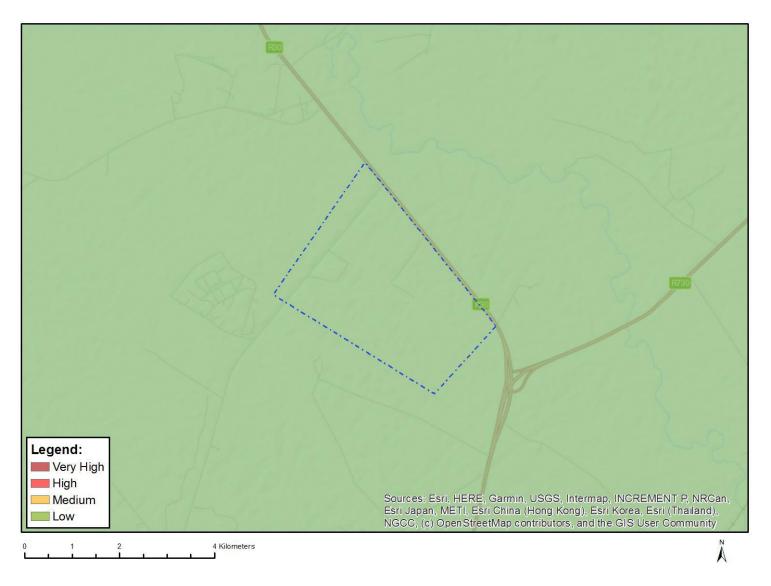


Figure 8: Map of the relative defence theme sensitivity

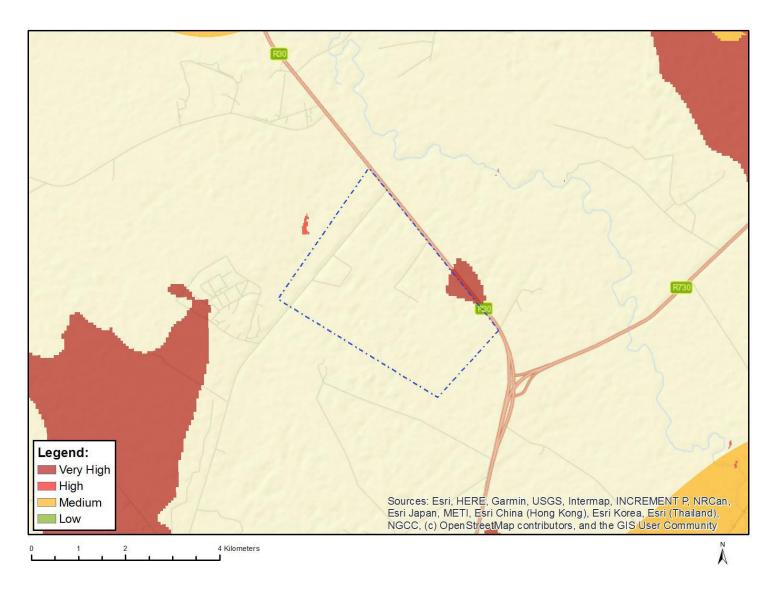


Figure 9: Map of the relative landscape (solar) theme sensitivity

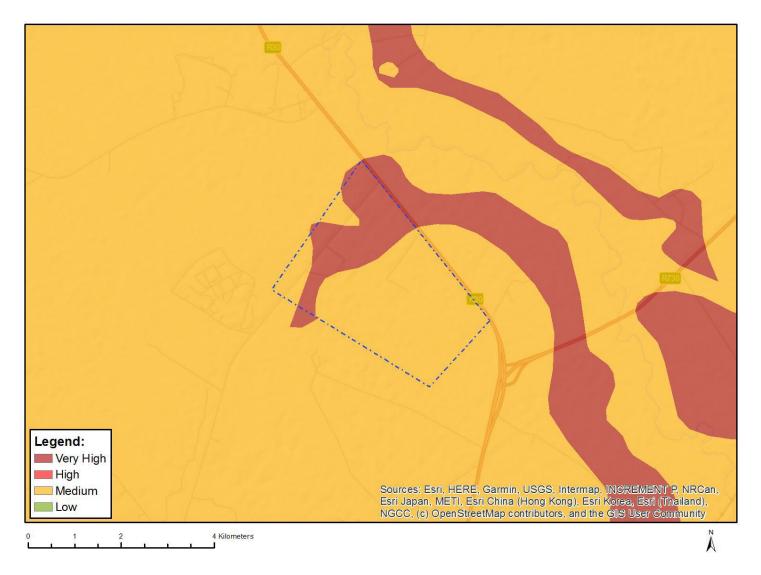


Figure 10: Map of the relative palaeontology theme sensitivity

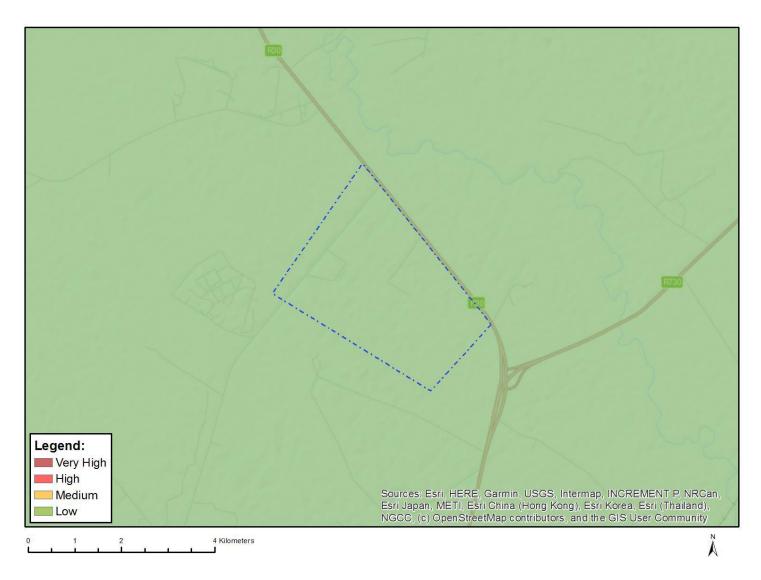


Figure 11: Map of the relative plant species theme sensitivity

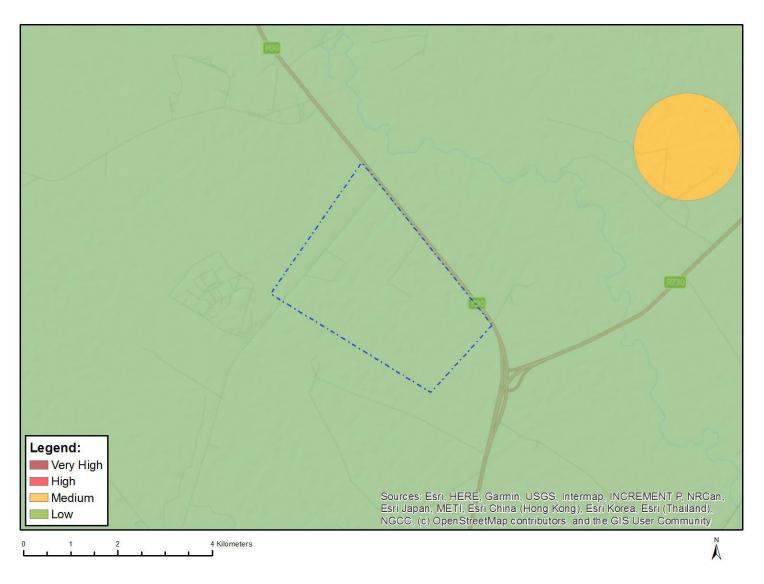


Figure 12: Map of the relative RFI theme sensitivity



Figure 13: Map of the relative terrestrial biodiversity theme sensitivity

7.3 Sub-section 3: Declaration

The proponent/applicant or holder of the EA affirms that he/she will abide and comply with the prescribed impact management outcomes and impact management actions as stipulated in <u>part B: section 1</u> of the generic EMPr and have the understanding that the impact management outcomes and impact management actions are legally binding. The proponent/applicant or holder of the EA affirms that he/she will provide written notice to the CA 14 days prior to the date on which the activity will commence of commencement of construction to facilitate compliance inspections.

| Signature Proponent/applicant/ holder of EA | Date: |
|---|-------|
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7.4 Sub-section 4: amendments to site specific information (Part B; section 2)

Should the EA be transferred to a new holder, <u>Part B: Section 2</u> must be completed by the new holder and submitted with the application for an amendment of the EA in terms of Regulations 29 or 31 of the EIA Regulations, whichever applies. The information submitted for an amendment to an environmental authorisation will be considered to be incomplete should a signed copy of <u>Part B: Section 2</u> not be submitted. Once approved, <u>Part B: Section 2</u> forms part of the EMPr for the development and the EMPr becomes legally binding to the new EA holder.

PART C

8 SITE SPECIFIC ENVIRONMENTAL ATTRIBUTES

If any specific environmental sensitivities/attributes are present on the site which require more specific impact management outcomes and impact management actions, not included in the pre-approved generic EMPr template, to manage impacts, those impact management outcomes and actions must be included in this section. These specific management controls must be referenced spatially, and must include impact management outcomes and impact management actions. The management controls including impact management outcomes and impact management actions must be presented in the format of the pre-approved generic EMPr template. This applies only to additional impact management outcomes and impact management actions that are necessary.

If <u>Part C</u> is applicable to the development as authorised in the EA, it is required to be submitted to the CA together with the BAR or EIAR, for consideration of, and decision on, the application for EA. The information in this section must be prepared by an EAP and the name and expertise of the EAP, including the curriculum vitae are to be included. Once approved, <u>Part C</u> forms part of the EMPr for the site and is legally binding.

This section will **not be required** should the site contain no specific environmental sensitivities or attributes.

| PPENDIX 1: METHOD STATEMENTS | |
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| To be prepared by the contractor prior to commencement of the activity. The method statements are not required to be submitted to the CA. | |
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