

# ***THE GROEIPUNT (LINK) SUBSTATION AND GRIDLINE ON FARM AREB (FARM NO. 75), NAMA-KHOI MUNICIPALITY, NORTHERN CAPE***

*DEA Reference Numbers:*

*14/12/16/3/3/2/447*

*14/12/16/3/3/2/447/AM1*

*14/12/16/3/3/2/447/AM2*



**29 MARCH  
2021**

**REGULATION 34 and 54(A)  
COMPLIANCE AUDIT REPORT**

**Prepared by: In Clover Environmental Consulting (Pty) Ltd**



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## ACRONYMS

For the purposes of this document the following acronyms shall apply:

ABBREVIATION	FULL DESCRIPTION
DEA now DEFF	Department of Environmental Affairs Now: Department of Environment, Forestry and Fisheries
EA	Environmental Authorisation
ECO	Environmental Control Officer
EMPr	Environmental Management Programme

# 1. INTRODUCTION

## 1.1 BACKGROUND TO THE REPORT

The Department of Environmental Affairs (DEA, now DEFF) granted Environmental Authorisation (EA) to South Africa Mainstream Renewable Power Kangnas (Pty) Ltd for the Groeipunt Link Substation and Gridline in the Nama-Khoi municipal area, Northern Cape (EA Reference Number: 14/12/16/3/3/2/447 of 12 June 2014).

The 2014 EIA Regulations, as amended, prescribe that:

**34 (1)** *The holder of an environmental authorisation must, for the period during which the environmental authorisation and EMPr, and where applicable the closure plan, remain valid—*

*(a) ensure that the compliance with the conditions of the environmental authorisation and the EMPr, and where applicable the closure plan, is audited; and*

*(b) submit an environmental audit report to the relevant competent authority.*

**54A(3)** *Transitional provisions*

*Where an environmental authorisation issued in terms of the ECA regulations or the previous NEMA regulations is still in effect by 8 December 2014, the EMPr associated with such environmental authorisation is subject to the requirements contained in Part 3 of Chapter 5 of these Regulations and the first environmental audit report must be submitted to the competent authority no later than 7 December 2019 and at least every 5 years thereafter for the period during which such environmental authorisation is still in effect. Note that the date for first compliance was subsequently extended to a date yet to be published.*

The holder of the EA appointed In Clover Environmental Consulting (Pty) Ltd to conduct the required compliance audit and to document the findings in an audit report.

## 1.2 SCOPE, PURPOSE AND OBJECTIVES OF THE AUDIT

### 1.2.1 External Compliance Audit

The main objective of the audit was to respond to the need for the compliance audit, as per the regulatory requirement detailed above. In addition, this audit sets out to report whether the objectives and outcomes of the EMPr are being achieved, whether any new impacts or risks were identified in relation to the project and whether the EMPr adequately responds to known impacts.

The audit and this report relate only to the conditions of approval and related Environmental Management Programme (EMPr) for the following approval:

Document Title	Document Number	Reference	Date of Issue
Environmental Authorisation in terms of Regulation 36 of the Environmental Impact Assessment Regulations, 2010 for the Groeipunt Substation and Gridline (Farm Areb No 75), near Springbok, within the Nama-Khoi Local Municipality	Reference	Number:	12/06/2014
	14/12/16/3/3/2/447, as amended by	14/12/16/3/3/2/447/AM1	12/12/2014
	and	14/12/16/3/3/2/447/AM2	04/03/2017

### 1.2.2 Reporting requirements in terms of the Environmental Authorisation

The institutional arrangements and minimum content requirements for this audit is prescribed in Regulations 34 and 54(A) and Appendix 7 of the 2014 NEMA EIA Regulations, as amended. The specific requirements are detailed in the table below, together with a cross reference of where this aspect is responded to in this audit report.

Regulatory Ref # of Appendix 7	Details of requirement	Report Section Reference
1	The environmental audit report must provide for recommendations regarding the need to amend the EMPr, and where applicable, the closure plan.	Section 4
2 (a) (i)	Report on level of compliance with the conditions of the environmental authorisation and the EMPr, and where applicable, the closure plan.	Section 2
2 (a) (ii)	Report on the extent to which the avoidance, management and mitigation measures provided for in the EMPr, and where applicable, the closure plan achieves the objectives and outcomes of the EMPr, and closure plan.	Section 4
2 (b)	Identify and assess any new impacts and risks as a result of undertaking the activity.	Section 4
2 (c)	Evaluate the effectiveness of the EMPr, and where applicable, the closure plan.	Section 2.2, 4
2 (d)	Identify shortcomings in the EMPr, and where applicable, the closure plan.	Section 2.2, 4
2 (e)	Identify the need for any changes to the avoidance, management and mitigation measures provided for in the EMPr, and where applicable, the closure plan.	Section 4
3 (1) a	An environmental audit report prepared in terms of these Regulations must contain details of the— (i) independent person who prepared the environmental audit report; and (ii) expertise of the independent person that compiled the environmental audit report	Section 1.5 and Appendix A
3 (1) b	a declaration that the independent auditor is independent in a form as may be specified by the competent authority;	Section 1.6
3 (1) c	an indication of the scope of, and the purpose for which, the environmental audit report was prepared;	Section 1.2.1
3 (1) d	a description of the methodology adopted in preparing the environmental audit report;	Section 1.4
3 (1) e	an indication of the ability of the EMPr, and where applicable, the closure plan to— (i) sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity on an ongoing basis; (ii) sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the closure of the facility; and (iii) ensure compliance with the provisions of environmental authorisation, EMPr, and where applicable, the closure plan;	Section 4
3 (1) f	a description of any assumptions made, and any uncertainties or gaps in knowledge;	Section 1.3
3 (1) g	a description of any public consultation process that was undertaken during the course of carrying out the environmental audit report;	Section 1.3
3 (1) h	a summary and copies of any comments that were received during any public consultation process; and	N/a
3 (1) i	any other information requested by the competent authority.	No additional requirements known at this point.

### 1.3 ASSUMPTIONS, LIMITATIONS AND GAPS IN KNOWLEDGE

- The assumption is made that all information received from South Africa Mainstream Renewable Power Kangnas (Pty) Ltd, their representatives and the independent ECO (Barry Wiesner of Amathemba Environmental), on which this audit report is based, is accurate and correct.
- No public consultation was undertaken as part of this external audit. In the opinion of the auditor, this was not required / warranted for the purposes of conducting the audit.
- The holder of the EA will distribute this report to the DEFF, in line with the obligation of Regulation 34.
- The auditor had access to all the information necessary to compile this audit report. There are no gaps in knowledge that would suggest any level of uncertainty in the findings of the auditor.

Note that In Clover Environmental Consulting (Pty) Ltd and Ingrid Eggert are indemnified against any claim for damages that may result from this report and its recommendations.

### 1.4 AUDIT METHODOLOGY

The following methodology was employed for this external compliance audit:

#### 1.4.1 Pre-audit tasks

Review of the approvals / documents relevant to the proposed development, namely:

- EA (12 June 2014) and amendments, issued by the DEA;
- Environmental Management Programme (EMPr) approved by the authority;
- Independent ECO audit reports prepared to date;
- Preparation to inform the auditor's enquiries during the on-site inspection.

#### 1.4.2 On-site audit

The site was visited on 4 February 2021 by Ingrid Eggert of In Clover Environmental Consulting (Pty) Ltd. The site walkabout served to give the auditor an understanding of the environmental setting and the specific aspects of the proposed development, especially as it relates to the relevant approvals. All key components of the facility and site were inspected, and interviews were held with key parties in relation to compliance aspects.

#### 1.4.3 Reporting

Compilation of the audit report based on the information obtained during the audit inspection and any subsequent follow up liaison with the representative of the holder of the EAs as well as the appointed ECO. The final report will be issued to the client (electronically). The client remains responsible for submission of the report to the authorities, as prescribed in Regulation 34 of the EIA Regulations.

### 1.5 DETAILS AND EXPERTISE OF THE AUDITOR

#### INGRID EGGERT

Ingrid Eggert is a certified Environmental Assessment Practitioner with the Environmental Assessment Practitioner Association of South Africa (Pr. EAP. 2019/805), a member of the International Association of Impact Assessors of South Africa (#2874) as well as a committee member of the Society of Architects Planners Engineers Surveyors which includes other disciplines of the built environment. She holds a BA Environmental Management degree and has 12+ years' experience in applying legal requirements and international environmental best practice for projects in the design, construction and operational phases. She has extensive experience in EIA processes and associated submissions to authorities for

consideration as well as environmental compliance monitoring and auditing for the construction and operational phases of various developments. Ingrid has also been involved in the development and implementation of many Environmental Management Systems for organisations across diverse industries. Her CV is included as **Appendix A**.

## 1.6 STATEMENT OF INDEPENDENCE

In Clover Environmental Consulting (Pty) Ltd was appointed to carry out the external compliance audit and compile this resultant Audit Report. Neither Ingrid Eggert in her private capacity, nor In Clover Environmental Consulting (Pty) Ltd have any material present or contingent interest in the outcome of this report, nor do they have any pecuniary or other interest that could be reasonably regarded as being capable of affecting their independence. In Clover Environmental Consulting (Pty) Ltd has no beneficial interest in the outcome of this compliance audit, other than reasonable remuneration for work performed in undertaking the audit inspection and compiling this report.



**Ingrid Eggert**

**29 March 2021**

## 2. RECORD OF COMPLIANCE AND AUDIT FINDINGS

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Please refer to the tables overleaf for the detailed audit findings.

### Shading Key

Compliance	<b>C</b>
Partial compliance	<b>PC</b>
Non-compliance	<b>NC</b>
Not Applicable / Auditable	<b>N/A</b>

## 2.1 COMPLIANCE WITH CONDITIONS OF APPROVAL OF EA

1	The preferred solar substation site and associated infrastructure as per the abovementioned geographic coordinates is approved. <b>Amended to the preferred Kangnas and/or Koeris Wind Farm substation site and associated infrastructure as per the geographic coordinates as approved.</b>	C	There has been no deviation from the approved site.
2	Authorisation of the activity is subject to the conditions contained in this authorisation, which form part of the environmental authorisation and are binding on the holder of the authorisation.	C	There has been no deviation from the authorised project description or the approved site.
3	The holder of the authorisation is responsible for ensuring compliance with the conditions contained in this environmental authorisation. This includes any person acting on the holder's behalf including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.	C	Contract documentation between the Holder of the EA and the contractors included the need for compliance with the environmental authorisation.
4	The activities authorised may only be carried out at the property as described above.	C	As indicated above, there has been no deviations from the approved site.
5	Any changes to, or deviations from, the project description set out in this authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further authorisation in terms of the regulations.	N/A	No deviations from the project description to date.
6	This activity must commence within a period of three (3) years from the date of issue of this authorisation. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for environmental authorisation must be made in order for the activity to be undertaken. <b>Extended by a further 2 years in terms of the second amendment of the EA.</b>	C	The 3-year validity period of the EA was extended by a further 2 years in terms of the 2 <sup>nd</sup> Amendment to the EA. Works commenced on site during May 2018, within the extended validity period of the EA.
7	Commencement with one activity listed in terms of this authorisation constitutes commencement of all authorised activities.	C	Noted by the holder of the EA.
8	The holder of an environmental authorisation must notify the competent authority of any alienation, transfer and change of ownership rights in the property on which the activity is to take place.	N/A	There has been no change to the ownership of the site in question.
9	The holder of the authorisation must notify every registered interested and affected party, in writing and within 12 (twelve) calendar days of the date of this environmental authorisation, of the decision to authorise the activity.	C	The original EA was issued on 12 June 2014 and the notification and advertisements were distributed and published on 18 June 2014 ( <b>Appendix B1 and B2</b> ). Notifications were also distributed in respect of the Amended EAs ( <b>Appendix C</b> ).
10	The notification referred to must - 10.1. specify the date on which the authorisation was issued; 10.2. inform the interested and affected party of the appeal procedure provided for in Chapter 7 of the Environmental Impact Assessment Regulations, 2010;	C	The notices met the content requirements as specified.



	10.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and 10.4. give the reasons of the competent authority for the decision.		
11	The holder of the authorisation must publish a notice – 11.1. informing interested and affected parties of the decision; 11.2. informing interested and affected parties where the decision can be accessed; and 11.3. drawing the attention of interested and affected parties to the fact that an appeal may be lodged against this decision in the newspaper(s) contemplated and used in terms of regulation 54(2)(c) and (d) and which newspaper was used for the placing of advertisements as part of the public participation process.	C	This requirement relates only to the original EA. The advertisement was placed in 'Die Plattelander' newspaper on the 20 June 2014 ( <b>Appendix B2</b> ).
12	The Environmental Management Programme (EMPr) submitted as part of Application for EA must be amended and submitted to the Department for written approval prior to commencement of the activity. The recommendations and mitigation measures recorded in the EIAR February 2013 must be incorporated as part of the EMPr. Once approved, the EMPr must be implemented and adhered to.	C	An Amended EMPr which met the content requirements as stipulated was submitted to the Department on 14 January 2016. Departmental approval was issued on 5 February 2016. Adherence to the EMPr is discussed in Section 2.2 of this report.
13	Furthermore, a shapefile of the approved development layout/footprint must be submitted to this Department within two months from the date of this decision. The shapefile must be created using the Hartebeesthoek 94 Datum and the data should be in Decimal Degree Format using the 'WGS 84 Spheroid'. The shapefile must include at a minimum the following extensions i.e. .shp; .shx; .dbf; .prj; and, .xml (Metadata file). If specific symbology was assigned to the file, then the .avl and/or the .lyr file must also be included. Data must be mapped at a scale of 1:10 000 (please specify if any alternative scale was used). The metadata must include a description of the base data used for digitizing. The shapefile must be submitted in a zip file using the EIA application reference number as the title. The shape file must be submitted to:  Postal Address: Department of Environmental Affairs Private Bag X447 Pretoria 0001  Physical address: Department of Environmental Affairs Fedure Forum Building (corner of Pretorius and Lillian Ngoyi Streets) 4th Floor South Tower 315 Pretorius Street Pretoria 0002  For Attention: Mr Muhammad Essop Integrated Environmental Authorisations	C	The shapefile was submitted to the authorities on 16 June 2016.

	Strategic Infrastructure Developments Telephone Number: (012) 395 1734 Fax Number: (012) 395 7539 Email Address: MEssopenvironment.gov.za		
14	The holder of this authorisation must appoint an independent Environmental Control Officer (ECO) with experience or expertise in the field for the construction phase of the development. The ECO will have the responsibility to ensure that the conditions referred to in this authorisation are implemented and to ensure compliance with the provisions of the EMPr.	C	Barry Wiesner was appointed as the independent ECO for the duration of the construction contract period.
15	The ECO must be appointed before commencement of any authorised activity.	C	The appointment was made prior to the commencement of construction and the ECO remained involved until construction and rehabilitation concluded on 4 February 2021.
16	Once appointed, the name and contact details of the ECO must be submitted to the Director: Compliance Monitoring of this Department.	C	Barry Wiesner's details were submitted to the Department on the 8 <sup>th</sup> May 2018 ( <b>Appendix D</b> ).
17	The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.	C	The ECO's final audit for the construction phase was conducted on 4 February 2021 and a final ECO audit report was subsequently issued and made available to the external auditor.
18	The ECO must: 18.1. Keep record of all activities on site, problems identified, transgressions noted and a schedule of tasks undertaken by the ECO. 18.2. Keep and maintain a detailed incident (including spillage of bitumen, fuels, chemicals, or any other material) and complaint register on site indicating how these issues were addressed, what rehabilitation measures were taken and what preventative measures were implemented to avoid re-occurrence of incidents/complaints. 18.3. Keep and maintain a daily site diary. 18.4. Keep copies of all reports submitted to the Department. 18.5. Keep and maintain a schedule of current site activities including the monitoring of such activities. 18.6. Obtain and keep record of all documentation, permits, licences and authorisations such as waste disposal certificates, hazardous waste landfill site licences etc. required by this facility. 18.7. Compile a monthly monitoring report.	C	The ECO appointment extended to the Kangnas WEF, the Kangnas Substation and Gridline and the Groeipunt Substation and Gridline. Monthly ECO audit reports were generated and combined for all these development components. All required documentation was maintained and made available to the auditor for verification.
19	The holder of this authorisation must keep all records relating to monitoring and auditing on site and make it available for inspection to any relevant and competent authority in respect of this development.	C	The Sharepoint system is available to all relevant parties on site and housed all the environmental documentation. This was made available to authorities and auditors, as required.
20	All documentation e.g., audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this authorisation, must be submitted to the Director: Compliance Monitoring at this Department.	C	All required reporting (including the month ECO reports) were submitted to the Department as and when requested.

21	The holder of the authorisation must submit an environmental audit report to the Department within 30 days of completion of the construction phase (i.e., within 30 days of site handover) and within 30 days of completion of rehabilitation activities.	C	The Post-Construction and Rehabilitation report was submitted to the Director: Compliance Management on 05 March 2021.
22	The environmental audit report must: 22.1. Be compiled by an independent environmental auditor; 22.2. Indicate the date of the audit, the name of the auditor and the outcome of the audit; 22.3. Evaluate compliance with the requirements of the approved EMPr and this environmental authorisation; 22.4. Include measures to be implemented to attend to any non-compliances or degradation noted; 22.5. Include copies of any approvals granted by other authorities relevant to the development for the reporting period; 22.6. Highlight any outstanding environmental issues that must be addressed, along with recommendations for ensuring these issues are appropriately addressed; 22.7. Include a copy of this authorisation and the approved EMPr; 22.8. Include all documentation such as waste disposal certificates, hazardous waste landfill site licences etc. pertaining to this authorisation; and 22.9. Include evidence of adherence to the conditions of this authorisation and the EMPr where relevant such as training records and attendance records.	C	The report met the content requirements stipulated.
23	The authorised activity shall not commence within twenty (20) days of the date of signature of the authorisation.	C	The activity was not commenced within the 20-day appeals period. The EA was issued in June 2014 and the letter notifying the competent authority of commencement of the activity was issued in May 2018.
24	An appeal under section 43 of the National Environmental Management Act (NEMA), Act 107 of 1998 (as amended), does not suspend an environmental authorisation or exemption, or any provisions or conditions attached thereto, or any directive, unless the Minister, MEC or delegated organ of state directs otherwise.	N/A	Not applicable.
25	Should you be notified by the Minister of a suspension of the authorisation pending appeal procedures, you may not commence with the activity until such time that the Minister allows you to commence with such an activity in writing.	N/A	Not applicable.
26	The holder of this authorisation must obtain a Water Use Licence from the Department of Water Affairs (DWA) prior to the commencement of the project should the holder impact on any wetland or water resource. A copy of the license must be kept by the ECO.	C	One Water Use Licence was issued in respect of consumptive and non-consumptive water uses associated with the Kangnas WEF, the Kangnas Substation and Gridline and the Groeipunt Substation and Gridline ( <b>Appendix E</b> ).
27	Fourteen (14) days written notice must be given to the Department that the activity will commence. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number. This notification period may coincide with the notice of intent to appeal period.	C	The letter of intention to commence construction was sent to the Department on 8 May 2018.
28	Fourteen (14) days written notice must be given to the Department that the activity operational phase will commence.	NC	The Holder of the EA was not able to produce proof that this notification was submitted to the Department. This presents

			an administrative non-compliance. Note that this non-compliance did not result in any environmental impacts, and was purely administrative in nature.
29	The holder of this authorisation must compile an operational EMPr for the operational phase of the activity or alternatively, if the holder has an existing operational environmental management system, it must be amended to include the operation of the authorised activity.	C	The approved EMPr includes operational phase activities.
30	The EMPr must form part of the contract with the EPC Contractor appointed to construct the proposed facility, and must be used to ensure compliance with environmental applications and management measures.	C	The EMPr is included in all contractual documentation.
31	Should the activity ever cease or become redundant, the applicant shall undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and competent authority at that time.	N/A	The activity is ongoing.
32	A botanist specialist must be commissioned to perform a final walkthrough of the site once the final route alignment and tower positions have been identified. The specialist must cover buffer identification, no-go areas within the approved corridor. This specialist report must be submitted to the department for approval prior to comment of construction.	C	The final walkthrough was undertaken by an Ecological Specialist in March 2016
33	Activities which require a water use authorisation must not be allowed to encroach into a water resource without a water use authorisation being in place from the Department of Water Affairs.	C	The Water Use Licence is in place for non-consumptive water use activities.
34	Anti-collision devices such as bird flappers must be installed where power lines cross avifaunal corridors (e.g. grasslands, rivers, wetlands, and dams). The input of an avifaunal specialist must be obtained for the fitting of the anti-collision devices onto specific sections of the line once the exact positions of the towers have been surveyed and pegged.	C	Bird diverters were installed on the overhead lines, as specified by the avifaunal specialist.
35	A botanist must be appointed to perform a final walkthrough of the alignment to identify sensitive plant species, and assist in identifying the areas that require protection.	C	The final walkthrough was undertaken by an Ecological Specialist in March 2016
36	No exotic plants may be used for rehabilitation purposes. Only indigenous plants of the area (within a 10km radius of the site footprint) may be utilised.	C	No alien species used in the rehabilitation.
37	The applicant is required to inform the Department of Environmental Affairs and Nature Conservation (DENC) and this Department should the removal of protected species, medicinal plants and "data deficient" plant species be required.	C	No protected species were removed, as per the botanist.
38	Vegetation clearing must be kept to an absolute minimum. Mitigation measures must be implemented to reduce the risk of erosion and the invasion of alien species.	C	Vegetation clearance was limited to the footprints of structures, infrastructure, and the site camps.
39	Construction must include appropriate design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.	C	This was taken into account in the design and implemented on site.
40	An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling, re-use and disposal where appropriate. Any solid waste shall be disposed of at a landfill licensed in terms of section 20 (b) of the National Environment Management Waste Act, 2008 (Act 59 of 2008).	C	As per the ECO reports.

41	A copy of this authorisation and the approved EMPr must be kept at the property where the activity will be undertaken. The authorisation and approved EMPr must be produced to any authorised official of the Department who requests to see it and must be made available for inspection by any employee or agent of the holder of the authorisation who works or undertakes work at the property.	C	The EA and amended EMPr was available on site and on the Sharepoint system.
42	The holder of the authorisation must notify both the Director: Integrated Environmental Authorisations and the Director: Compliance Monitoring at the Department, in writing and within (forty eight) hours, if any condition of this authorisation cannot be or is not adhered to. Any notification in terms of this condition must be accompanied by reasons for the non-compliance.	C	No reportable incidents / non-conformances occurred on site to date.
43	National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held response for any damages or losses suffered by the applicant or his successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the applicant with the conditions of authorization as set out in this document or any other subsequent document emanating from these conditions of authorisation.	N/A	Noted by the Holder of the EA.

## 2.2 COMPLIANCE WITH EMPr

### 2.2.1 Construction phase:

As previously indicated, it should be noted that the construction of the Groeipunt Substation and Gridline was combined with the construction activities on the Kangnas WEF. As such, there is a large overlap in the audit findings of these project components.

Construction and rehabilitation activities were concluded on 4 February 2021. This coincided with the date of the audit inspection. Compliance of the construction activities with the specifications of the EMPr could therefore not be evaluated on site. The ECO audit reports were therefore used to assess compliance in this regard. Key impact management measures identified during the EIA phase of the project were captured as conditions of approval of the EA. Compliance with these items were discussed in Section 2.1 of this report and will not be repeated here, although these specifications are also contained in the EMPr.

The monthly ECO audit reports prepared by Barry Wiesner of Amathemba Environmental for the period June 2018 – February 2021, were carefully scrutinised and the following findings are made in relation to compliance with the EMPr during the construction phase of the Groeipunt Substation and Gridline:

- Method Statements were produced and approved as required.
- Site access and establishment of contractor camps were in accordance with approved plans and the ECO's recommendations.
- The site camps, access road and development footprint were demarcated prior to works commencing to avoid extension beyond the approved footprint.
- All areas outside the site camps, roads and works areas were treated as no-go areas.
- An off-site borehole provided the water required for construction. Records of water usage was kept and made available to the auditor.
- The dedicated Groeipunt site camp was established, adjacent to the substation. By and large, the camp was kept neat and well maintained throughout the construction phase, however from time to time the ECO noted a requirement to tidy up the laydown areas.
- A formalised bund area was installed for fuel, hazardous / flammable substances and hazardous waste storage areas. These were successful to prevent impacts on soil and groundwater associated with the storage of such substances on site.
- Toilet facilities at this contractors camp drained to a conservancy tank that was installed for this purpose. The conservancy tank was cleared, sealed and covered over at the end of construction.
- The landowner requested that the braai facility, bund wall and conservancy tank remain in place when he takes over the area. This was formalised into an agreement with the landowner, a copy of which was submitted to the DEFF as part of the post-construction and rehabilitation audit report.
- As with all construction sites, litter management was required on an ongoing basis. The presence of litter around the Groeipunt Substation were mentioned from time to time. Litter management was never reported to be out of control.
- DENC conducted a site visit, however no significant concerns were raised.
- The site responded well to COVID-19 restrictions upon recommencement of works following the mandatory lockdown period. Measures were implemented on site to support prevention of the spread of the virus.
- Rehabilitation requirements were limited for the Groeipunt Substation and Gridline components. Where this was necessary, actions entailed grading the area in accordance with the surrounding contours and ripping the top surface layer that was subject to disturbance prior to spreading of topsoil, where available. No active planting has taken place, however the natural grass and shrub species present in the topsoil will re-establish effectively. This was already observed in some rehabilitated areas on site. The efficacy of rehabilitation and rate of re-establishment of vegetation in the rehabilitated areas must be monitored by the operational phase ECO.

In general, it is noted from the ECO audit reports that the environment and the environmental obligations received due care by the holder of the EA and their appointed Contractors during the construction phase. While incidents did occur, it was not as a result of deficiencies of the EMPr, and the necessary protocols were in place to ensure that prompt and effective rectification action was taken to prevent significant environmental impact. Environmental management on site was of a high standard and commendable.

While construction has concluded, it is worth noting that the specifications of the EMPr was adequate to avoid, limit or address environmental impacts for this particular development.

### **2.2.2 Operational phase:**

Operational aspects associated with the Groeipunt Substation and Gridline are limited to avifaunal monitoring and environmental administration. In this regard, compliance can be summarised as follows:

- Barry Wiesner was appointed as an independent external ECO for the operational phase of the development. This goes beyond the EMPr requirement to appoint an in-house or external Environmental Auditor to monitor compliance. The ECO will visit the site monthly during the construction phase to report on compliance matters with the Groeipunt Substation and Gridline components, which exceeds the EMPr stipulated monitoring frequency.
- This report also constitutes an external compliance audit report, as undertaken in terms of Regulation 34 and 54 of the 2014 EIA Regulations, as amended.
- Chris van Rooyen (Chris van Rooyen Consulting) and Stephanie Dippenaar (EkoVler Environmental Management) were appointed to conduct respective bird and bat monitoring during the operational phase of the development. This is yet to commence but Bird and Bat Monitoring Programmes are available to guide the monitoring.

The operational specifications of the EMPr are sufficient to manage impacts of the substation and gridline. No non-conformances have occurred to date.



### 3. PHOTOGRAPHIC RECORD

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The photographs below are indicative of the site conditions on the day of the audit inspection.



**General view of substation**



**A braai area that was constructed as part of the construction contract will remain in place as per the request from the landowner**



**Formalised open stormwater channel adjacent to the substation**



**The concrete bund where fuel was stored must be removed and the area rehabilitated**



## 4. CONCLUSION AND RECOMMENDATIONS

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This external audit was undertaken in accordance with the requirements of Regulations 34 and 54A of the amended 2014 EIA Regulations. This audit report meets the regulatory content requirements.

The following conclusions are drawn subsequent to the audit inspection and consideration of compliance with conditions of approval and the EMPr:

- The overall impression was one of a very well-run site, with a strong commitment to environmental compliance and best practice.
- Only one non-compliance was found. This related to the oversight by the Holder of the EA to submit a notification to the Department 14 days prior to the operational phase commencing. This presents an administrative non-compliance. Note that this non-compliance did not result in any environmental impact and was purely administrative in nature. The auditor is therefore not concerned about this oversight and neither does it point to the need for changes to the operational phase EMPr.
- Levels of compliance with the EA and EMPr were high for the duration of the construction phase and the construction EMPr was adequate to prevent or limit detrimental impacts on the environment.
- Rehabilitation actions were carefully executed with no further rehabilitation actions being recommended at this time. Natural vegetation should be allowed to re-establish.
- The audit did not identify any impacts or risks associated with the facility that were not considered in the EIA.
- At this point, the operational specifications of the EMPr are found to be adequate. No amendments to the operational phase EMPr are proposed at this time, however this must be reassessed on an ongoing basis by the operational ECO to ensure that the objectives and outcomes of the EMPr are continuously upheld.
- Given that the frequency of external audits in the operational phase is not detailed in the EA, the auditor submits that the monthly operational ECO monitoring is sufficient to meet further requirements in terms of Regulations 34 and 54(A) of the 2014 EIA Regulations, as amended.

In light of the observations and findings of this post-construction and rehabilitation audit, the following recommendations are made:

- The efficacy of rehabilitation and rate of re-establishment of vegetation in the rehabilitated areas must be monitored by the operational phase ECO.
- The operational phase ECO should continuously assess the operational phase specifications of the EMPr to ensure continued adequacy of this plan to prevent or limit detrimental impact on the environment.
- The Holder of the EA must submit this audit report to the Director: Compliance Monitoring at the Department of Environment, Forestry and Fisheries within 14 days of receipt of this report.
- In line with Regulation 34(6) of the 2014 EIA Regulations, the Holder of the EA must, within 7 days of the date of submission of the external audit report to the licensing authorities, notify all potential and registered interested and affected parties of the submission of the report, and make the report available immediately to anyone on request, and on a publicly accessible website, where the holder has such a website.

## **APPENDICES**

Appendix A: Curriculum Vitae of the Auditor

Appendix B1: Proof of email notification of Original Environmental Authorisation

Appendix B2: Proof of advertisement of Original Environmental Authorisation

Appendix C: Proof of email notification of Amended Environmental Authorisation

Appendix D: Notification to DEA of commencement of activities and ECO appointment

Appendix E: Water Use Licence

## **Appendix A:**

Curriculum Vitae of the Auditor

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# Curriculum Vitae: INGRID EGGERT



## ABOUT INGRID

<i>Profession/Specialisation</i>	Environmental Assessment Practitioner
<i>Years' Experience in Environmental Management</i>	12
<i>Date and place of birth</i>	1979/11/30 – Stellenbosch, Western Cape
<i>Tertiary Education</i>	Bachelor's degree specialising in Environmental Management (University of South Africa) – obtained in 2008 BSc Honours Geography - (University of South Africa) – ongoing
<i>Professional Registration</i>	Pr. EAP. 2019/805 (EAPASA)
<i>Professional Associations</i>	International Association for Impact Assessments (SA Affiliation)- Membership ID number: 2874 APES+ (Committee Member)
<i>Career enhancing courses</i>	GCX Certified Carbon Footprint Analyst Green Building Council of South Africa – Greening Existing Buildings
<i>Employer and position</i>	Director at In Clover Environmental Consulting (Pty) Ltd
<i>Postgraduate employment record</i>	<b>August 2015 – Present:</b> Director and Principle Consultant at In Clover Environmental Consulting (Pty) Ltd  <b>February 2009 - July 2015:</b> Senior Environmental Consultant at Chand Environmental - Specialist Environmental and Sustainability Consultants

## CAPABILITY STATEMENT

Ingrid's capabilities include (inter alia):

- Environmental Impact Assessment processes (Scoping and Environmental Impact Assessments, Basic Assessments, Section 24G NEMA rectification processes, Waste Management/Air Emission Licence applications). Ingrid is proficient in handling all components of these applications, including impact assessment, regulatory process management, compilation of reporting and plans, appointment and management of specialists, engagement with competent authorities, stakeholder and public engagement and engagement with multi-disciplinary professional teams;
- Specific environmental permit / licence applications (e.g. in relation to protected tree species, CARA ploughing permits etc.);
- Compilation of Environmental Management Programmes for the construction, operational, decommissioning and closure phases of projects;
- Facilitation of stakeholder engagement and public participation processes (in or out of the EIA ambit);
- Due diligence auditing;
- Compliance auditing (construction and operational phases);
- Environmental training/education;
- Development and implementation of Environmental Management Systems (including ISO 14001);
- Strategic environmental inputs and sustainability strategies; and
- Peer reviews.

The track record overleaf demonstrates Ingrid's expertise in the industry and contains selected projects undertaken in her career.

## SUMMARY OF PROFESSIONAL EXPERIENCE – ENVIRONMENTAL IMPACT ASSESSMENT

The below track record demonstrates Ingrid's diversity in dealing with various aspects of the environmental discipline.

- **Leather Crusting (Secondary Tanning) Facility in Atlantis, Cape Town** – Scoping and Environmental Impact Assessment process and Air Emission Licence Application
- **Waste-to-Biogas Facility, Saldanha** – Basic Assessment process and Waste Management Licence Application
- **Atlantis Crematorium, Atlantis** – Scoping and Environmental Impact Assessment process and Air Emission Licence Application
- **Weltevreden Fuel Station** – Basic Assessment Process
- **Kromvlei Dam Expansion, Piketberg** - Basic Assessment process
- **Infilling of a Wetland in Wetton, Cape Town** – Basic Assessment
- **Expansion of Agricultural Developments, Farm Welvaart, Ceres** – Basic Assessment and Part 2 amendment application process
- **Redevelopment of Fuel Service Station in the V&A Waterfront** – Basic Assessment Process
- **Kuyasa Station Precinct, Khayelitsha, Cape Town** - Basic Assessment process
- **The Boardwalk Hotel and Conference Centre, Port Elizabeth, Eastern Cape** – Basic Assessment process
- **Lord Charles Hotel and Conference Centre Re-Alignment of a Stream, Somerset West, Cape Town** – Basic Assessment process
- **Leeukoppie Residential Estate, Hout Bay** – Basic Assessment process
- **The Development of the Kleinbron Industrial Estate, Brackenfell** – Basic Assessment process
- **Enkanini Informal Settlement Upgrading, Khayelitsha, Cape Town** – Basic Assessment Process
- **Greenpoint Phase 3 Low Cost Housing Development, Khayelitsha, Cape Town** – Basic Assessment Process
- **Pelican Park Subsidised Housing Development, Cape Town** - Basic Assessment Process as well as the extended design engagement process with the public and beneficiaries
- **The Residential and/or Mixed Use Development on four (4) Erven in Central Kommetjie** - 4 x parallel Basic Assessment processes for:
  - ❖ Village Centre (Kommetjie Central) mixed-use development
  - ❖ Lighthouse residential development
  - ❖ Wireless 1 residential development
  - ❖ Wireless 2 residential development
- **Pelts Tannery Waste Drying Beds, Port Elizabeth** – Section 24G rectification process
- **Development 3 (three) Cannabis Growing and Production Facilities, Maseru, Lesotho** – Three EIA processes in terms of the Lesotho environmental legislation
- **Edelweiss Pharmaceuticals Waste Burial, Cape Town** - Environmental Impact Report on alleged illegal waste burial with related liaison with the law enforcement branch of the DEA&DP
- **Composting Operation on Farm 782, Somerset West** - Section 24G rectification process
- **Waste dumping on Farm Hygo, Philippi** - Section 24G rectification process
- **Demolition and Redevelopment of a House on Erf 253, Bloubergstrand** - Section 24G rectification process
- **Conversion of Existing Structures to Tourism Accommodation, Theewaterskloof** - Section 24G rectification process
- **Education and Community Facilities, Greyton** – Combination Basic Assessment Process
- **'Mile 16 Beach Estate', Yzerfontein** – Part 2 Amendment Application process
- **Schulz Vlei South Mixed-Use Development, Philippi** – Basic Assessment process

**In addition** Ingrid has conducted in excess of 15 ad-hoc setback line adoption applications for several developments located along the Western Cape Coast as well as 25+ Environmental Screening exercises for

various development proposals in and around the Western and Northern Cape to determine the applicability of environmental regulatory requirements.

#### **OTHER ENVIRONMENTAL MANAGEMENT EXPERIENCE: POLICY / AUDITS / MANAGEMENT PLANS / STAKEHOLDER ENGAGEMENTS / REVIEWS /**

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- Development of an Environmental Management Plan for a new integrated waste management facility for the V&A Waterfront, Cape Town
- Due Diligence Audits for a large agricultural corporation in Zambia (responsible for the environmental component as part of a multi-disciplinary team to support an application for international financing)
- City of Cape Town Waste Disposal and Handling Facilities – External Compliance Audits as part of a team of auditors.
- Cape Town Film Studios – Construction Auditing for ongoing development on the property (2010 – 2013)
- Sun International – Joint responsibility for a Gap Analyses at all the facilities in Southern Africa
- Afrifresh Farms - Joint responsibility for a Due Diligence Audits on behalf of Standard Chartered Bank
- Development of an Environmental Management Plan for a new South Operations facility for the V&A Waterfront, Cape Town
- Fusion Leather - Due Diligence Audits on a new property in Atlantis (on behalf of a financial institution)
- Wild Coast Sun – Compilation of Management Plan and Construction Auditing for a Water Park and Fuel Storage Facilities
- The Boardwalk Hotel, Port Elizabeth – Construction Auditing
- NCP Chlorchem Atlantis Depot, Atlantis – Compilation of Management Plan and Construction Auditing
- Nyungwe Forest Lodge, Rwanda – On-site and remote Construction Auditing
- Bungalow Residence in Bakoven, Cape Town - Compilation of Management Plan and Construction Auditing
- Groot Moddergat Project, Hout Bay - Compilation of an Environmental Management Plan
- Sonnenhof Retirement Village, Cape Town – Construction Auditing
- The Upgrade of Strandfontein Road (M17), Phase 1 and 2 – Construction Auditing
- Kolkies en Karee Wind Energy Facility – responsible for the Afrikaans stakeholder engagement components
- Joint development of a Limited Environmental Management Framework for the Mosselbay Municipality
- Overberg District Integrated Transport Plan – environmental inputs and public participation as part of the development of the plan
- Cape Winelands Integrated Public Transport Network Framework - environmental inputs and public participation as part of the development of the plan
- Joint development of the Western Cape Provincial Coastal Access Strategy and Plan
- Joint undertaking of the Coastal Access Audit and Pilot Study for the Overberg District Municipality with Errol Cerff and Erik Botha
- Facilitation of Estuarine Management Plan workshops, Western Cape – joint facilitation
- Wasteman South Africa - Joint responsibility for a Gap Analyses and Compliance Audits at all the facilities in South Africa
- De Oude Opstel and Sieraad, Robertson – Maintenance Management Plan
- Buhrein Fuel Service Station, Buhrein - Applicability Checklist
- Delft Fuel Service Station, Delft – Applicability Checklist
- Sitari Fuel Service Station, Sitari – Applicability Checklist
- Vangate Fuel Service Station, Vangate – Applicability Checklist
- Eerste River Fuel Service Station, Eerste River – Applicability Checklist

## **Appendix B1:**

Proof of email notification of Original Environmental Authorisation

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W [www.aurecongroup.com](http://www.aurecongroup.com)



17 June 2014

Dear Sir/Madam

**PROPOSED WIND ENERGY FACILITY AND ASSOCIATED WIND AND SOLAR (PHOTOVOLTAIC) INFRASTRUCTURE ON KANGNAS FARM NEAR SPRINGBOK, NORTHERN CAPE**

WEF DEA REF. NO.: 14/12/16/3/3/2/346  
WEF SUBSTATION & GRIDLINE DEA REF. NO.: 14/12/16/3/3/2/386  
SOLAR SUBSTATION & GRIDLINE DEA REF. NO.: 14/12/16/3/3/2/447

**AND**

**PROPOSED WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE ON KOERIS FARM, NEAR SPRINGBOK IN THE NORTHERN CAPE**

WEF DEA REF. NO.: 14/12/16/3/3/2/346/1  
WEF SUBSTATION & GRIDLINE DEA REF. NO.: 11/12/16/3/3/2/386/1

**NOTIFICATION OF THE RECEIPT OF THE ENVIRONMENTAL AUTHORISATIONS**

Our previous correspondence of 28 February 2013 noting the submission of the Final Environmental Impact Assessment Report (FEIR) for the proposed wind and solar (photovoltaic) energy facilities near Springbok (DEA Ref. Nos.: 14/12/16/3/3/2/346 (wind), 14/12/16/3/3/2/342 (solar), 14/12/16/3/3/2/386 (wind substation), 14/12/16/3/3/2/447 (solar substation)) for decision-making has reference.

Since the submission of the FEIR the solar facility application was withdrawn in response to comment received from the Department of Environmental Affairs and Nature Conservation. Furthermore, the proposed phased Wind Energy Facility (WEF) application was divided into two unphased projects and the layout slightly revised. In order to allow separate bidding of the proposed WEFs in the Renewable Energy Independent Power Producer process the substations associated with these proposed facilities were also split into separate applications. As such the existing applications were revised, two new applications were submitted and the solar facility application form was withdrawn. Note that the solar substation application was not withdrawn as Eskom may require the developer to connect the proposed WEFs into the grid at this point.

We wish to inform you that the Department of Environmental Affairs (DEA) has issued Environmental Authorisations (EAs) approving the aforementioned projects in terms of the 2010 Environmental Impact Assessment (EIA Regulations) (Government Notice (GN) No. R543, R544 and R546 of 18 June 2010) of the National Environmental Management Act (Act No. 107 of 1998) (NEMA). Please note that the EAs are dated **12 June 2014**.

The attached EA outlines the conditions of authorisation, reasons for the authorisation, recommendations, and the appeal process. A copy of the EA is also available on Aurecon's website ([www.aurecongroup.com](http://www.aurecongroup.com)) – change "Current Location" to South Africa and click on the "Public Participation" link. Please register with the following reference number (14/12/16/3/3/2/346) to access the documents.

**Should you wish to appeal DEA's decisions you must comply with Chapter 7 of the EIA Regulations published in GN No. R543 and you must lodge a Notice of Intention to Appeal with the minister within 20 days of the date of the Department's decision. The appeal procedure is summarised in the attached document. Should you need assistance with an appeal please contact Mr Z Hassam of DEA at 012 310 3271 (tel) or [AppealsDirectorate@environment.gov.za](mailto:AppealsDirectorate@environment.gov.za).**

We trust the above is in order and should you have any queries please do not hesitate to contact the undersigned.

Yours sincerely  
AURECON

**SIMON CLARK**  
Practitioner  
Environment & Advisory Services

**LOUISE CORBETT** (Pri. Sci. Nat.)  
Associate  
Environment & Advisory Services



17 Junie 2014

Geagte Heer/Dame

**BEOOGDE WIND-ENERGIE AANLEG EN VERWANTE WIND EN SONENERGIE (FOTOVOLTAÏSE) INFRASTRUKTUUR OP KANGNAS PLAAS NABY SPRINGBOK, NOORD-KAAP.**

WEA DOS VERW. NR.: 14/12/16/3/3/2/346  
WEA-SUBSTASIE & NETWERKLYN DOS VERW. NR.: 14/12/16/3/3/2/386  
SON-SUBSTASIE & NETWERKLYN DOS VERW. NR.: 14/12/16/3/3/2/447

**EN**

**BEOOGDE WIND-ENERGIE AANLEG EN VERWANTE INFRASTRUKTUUR OP KOERIS PLAAS, NABY SPRINGBOK IN DIE NOORD-KAAP**

WEA DOS VERW. NR.: 14/12/16/3/3/2/346/1  
WEA-SUBSTASIE & NETWERKLYN DOS VERW. NR.: 11/12/16/3/3/2/386/1

**KENNISGEWING VAN ONTVANGS VAN OMGEWINGSMAGTIGINGS**

Ons vorige korrespondensie, gedateer 28 Februarie 2013, rakende die indiening van die Finale Omgewingsinvloedbepalingsverslag (OIBV) vir die voorgenome wind- en sonkrag (fotovoltaïese) energie aanlegte naby Springbok (DOS Verw. Nrs.: 14/12/16/3/3/2/346 (wind), 14/12/16/3/3/2/342 (sonkrag), 14/12/16/3/3/2/386 (wind substasie), 14/12/16/3/3/2/447 (sonkrag substasie)) vir besluitneming, het betrekking.

Sedert die indiening van die Finale OIBV is die sonkragaanleg aansoek onttrek in reaksie op kommentaar ontvang vanaf die Departement van Omgewingsake en Natuurbewaring. Verder is die voorgenome gefaseerde Windenergie Fasiliteit (WEF) aansoek verdeel in twee ongefaseerde projekte en die uitleg effens aangepas. Ten einde afsonderlike biebry van die voorgenome WEF in die Hernubare Energie Onafhanklike Energie Produsent proses is die substasies, geassosieer met die voorgenome fasiliteite, ook verdeel in onafhanklike aansoeke. Sodanig is die bestaande aansoeke hersien, twee nuwe aansoeke is ingedien en die sonkragaanleg aansoek is onttrek. Let daarop dat die sonkrag substasie aansoek nie onttrek is nie aangesien Eskom moontlik van die ontwikkelaar kan vereis om die voorgenome WEF by die netwerk aan te sluit by hierdie punt.

Hiermee wil ons u graag in kennis stel dat die Departement van Omgewingsake (DOS) die Omgewingsmagtigings (OMs) vir die bogenoemde projek in terme van die 2010 Omgewingsinvloedbepalings (OIB-Regulasies) (Goewement Kennisgewing (GK) Nr. R543, R544 en R546 van 18 Junie 2010) van die Wet op Nasionale Omgewingsbestuur (Wet Nr. 107 van 1998) (WNOB) uitgereik het. Die OMs is uitgereik op **12 Junie 2014**.

Die aangehegde OMs beskryf die kondisies van goedkeuring, redes vir die besluit, aanbevelings, en die appèl prosedure. 'n Afskrif van die OMs is ook beskikbaar vanaf Aurecon se webtuiste ([www.aurecongroup.com](http://www.aurecongroup.com)) – verander "Current Location" na Suid-Afrika en kies "Public Participation". Registreer asb deur gebruik te maak van die volgende verwysingsnommer (14/12/16/3/3/2/346) om toegang tot die dokumente te kry.

Sou u graag wil appelleer teen die DOS se besluite moet u aan Hoofstuk 7 van die OIB-Regulasies, soos gepubliseer in GK Nr. R543, voldoen en moet u 'n Kennisgewing van Voorneme om te Appelleer indien by die minister binne 20 dae vanaf die datum van die Departement se besluit. Die appèl prosedure is opgesom in die aangehegte dokument. Sou u bystand nodig met die appèl prosedure kontak Mr Z Hassam van die DOS by 012 310 3271 (tel) of [AppealsDirectorate@environment.gov.za](mailto:AppealsDirectorate@environment.gov.za).

Ons vertrou dat u die bogenoemde in orde vind en indien u enige vrae het, moet asseblief nie huiwer om die ondergetekendes te kontak nie.

Die uwe  
AURECON



**SIMON CLARK**  
Omgewingspraktisyn  
Omgewings- en Raadgewende Dienste



**LOUISE CORBETT** (Pri. Sci. Nat.)  
Assosiaat  
Omgewings- en Raadgewende Dienste

## Simon Clark

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**From:** Simon Clark  
**Sent:** Wednesday, June 18, 2014 5:11 PM  
**Subject:** NOTIFICATION OF RECEIPT OF ENVIRONMENTAL AUTHORISATIONS FOR PROPOSED WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE ON KANGNAS & KOERIS FARMS NEAR SPRINGBOK, NORTHERN CAPE  
**Attachments:** I&AP EA notification Letter (Eng&Afr).pdf

Tracking:	Recipient	Delivery	Read
	'kennedys@kingsleymail.co.za'		
	'hendrikv@namakwa-dm.gov.za'		
	'pims@namakwa-dm.gov.za'		
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	'thokob@nda.agric.za'		
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	'cfortune@agri.ncape.gov.za'		
	'nngoveni@environment.gov.za'		
	'tmaswime@environnment.gov.za'		
	'abco@kingsley.co.za'		

Recipient	Delivery	Read
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'ssithole@wwf.org.za'		
'annalisa.boock@namakhoi.gov.za'		
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'MauduB@eskom.co.za'		
'vGeemsB@eskom.co.za'		
'HumanLo@eskom.co.za'		
'wessanc@yahoo.com'		
'jkamies@pancmil.ncape.gov.za'		
'Dekockr@nra.co.za'		
'kennedys@kingsleyemail.co.za'		
Zoë Palmer	Delivered: 6/18/2014 5:11 PM	Read: 6/19/2014 8:43 AM
Simon Clark	Delivered: 6/18/2014 5:11 PM	Read: 6/18/2014 5:11 PM

Dear Sir/madam

**PROPOSED WIND ENERGY FACILITY (WEF) AND ASSOCIATED WIND AND SOLAR (PHOTOVOLTAIC) INFRASTRUCTURE ON KANGNAS FARM NEAR SPRINGBOK, NORTHERN CAPE**

WEF DEA REF. NO.: 14/12/16/3/3/2/346

WEF SUBSTATION & GRIDLINE DEA REF.NO.: 14/12/16/3/3/2/386

SOLAR SUBSTATION & GRIDLINE DEA REF. NO.: 14/12/16/3/3/2/447

**AND**

**PROPOSED WEF AND ASSOCIATED INFRASTRUCTURE ON KOERIS FARM, NEAR SPRINGBOK IN THE NORTHERN CAPE**

WEF DEA REF. NO.: 14/12/16/3/3/2/346/1

WEF SUBSTATION & GRIDLINE DEA REF. NO.: 11/12/16/3/3/2/386/1

**NOTIFICATION OF RECEIPT OF ENVIRONMENTAL AUTHORISATIONS**

The abovementioned projects have reference. The Department of Environmental Affairs (DEA) has issued Environmental Authorisations (EAs), approving the aforementioned projects in terms of the 2010 Environmental Impact Assessment (EIA) Regulations (GN No. R543, R.544 and R546 of 18 June 2010) of the National Environmental Management Act (Act No. 107 of 1998) (NEMA). Please note that the EAs for all five projects were issued on **Thursday, 12 June 2014**. Please see the attached EA notification letter (English and Afrikaans) for further details.

The EAs are available for download on Aurecon's website ([www.aurecongroup.com](http://www.aurecongroup.com)) - change "Current Location" to South Africa and click on "Public Participation". Please note that you will need to register using the following reference number: 14/12/16/3/3/2/346).

Should you require any further information or clarification, please contact the undersigned

Yours sincerely

**Simon Clark** BA Environmental Management  
Environmental Consultant, Aurecon  
T +27 21 526 6034 C +27 84 614 7800

E [Simon.Clark@aurecongroup.com](mailto:Simon.Clark@aurecongroup.com)

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Aurecon South Africa (Pty) Ltd is a Level 2 Contributor to BBBEE

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 Please consider your environment before printing this e-mail

## **Appendix B2:**

Proof of advertisement of Original Environmental Authorisation

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## **Appendix C:**

Proof of email notification of Amended Environmental Authorisation

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5 January 2015

Dear Sir/Madam

**PROPOSED WIND ENERGY FACILITY AND ASSOCIATED WIND AND SOLAR (PHOTOVOLTAIC) INFRASTRUCTURE ON KANGNAS FARM NEAR SPRINGBOK, NORTHERN CAPE**

WEF DEA REF. NO.: 14/12/16/3/3/2/346  
WEF SUBSTATION & GRIDLINE DEA REF. NO.: 14/12/16/3/3/2/386  
SOLAR SUBSTATION & GRIDLINE DEA REF. NO.: 14/12/16/3/3/2/447

**AND**

**PROPOSED WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE ON KOERIS FARM, NEAR SPRINGBOK IN THE NORTHERN CAPE**

WEF DEA REF. NO.: 14/12/16/3/3/2/346/1  
WEF SUBSTATION & GRIDLINE DEA REF. NO.: 11/12/16/3/3/2/386/1

**NOTIFICATION OF AMENDED ENVIRONMENTAL AUTHORISATIONS**

Our previous correspondence of 17 June 2014 noting the receipt of the Environmental Authorisations (EAs) for the proposed wind and solar (photovoltaic) energy facilities near Springbok (DEA Ref. Nos.: 14/12/16/3/3/2/346 (wind), 14/12/16/3/3/2/342 (solar), 14/12/16/3/3/2/386 (wind substation), 14/12/16/3/3/2/447 (solar substation)) has reference.

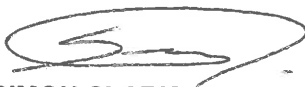
Application was made to amend the EA's to correct administrative errors and obtain clarity where conditions were contradictory. We wish to inform you that the Department of Environmental Affairs (DEA) has amended the Environmental Authorisations (EAs) in terms of Regulation 42 of the 2010 Environmental Impact Assessment (EIA) Regulations (GN No. R543 of 18 June 2010) of the National Environmental Management Act (Act No. 107 of 1998) (NEMA). Please note that the amended EAs for all five projects were signed on **Friday, 12 December 2014**.

A copy of the amended EAs is attached and also available on Aurecon's website ([www.aurecongroup.com](http://www.aurecongroup.com)) – change "Current Location" to South Africa and click on the "Public Participation" link. Please register with the following reference number (14/12/16/3/3/2/346) to access the documents).

We would like to draw your attention to your right to appeal against the decision of the Minister of Environmental Affairs in terms of the National Appeal Regulations (GN No. 993 of 8 December 2014). An appeal must be submitted within 20 days from the date that the notification of the decision (i.e. from 6 January 2015). Should you need assistance with an appeal please contact Mr Z Hassam of DEA at 012 310 3271 (tel) or [AppealsDirectorate@environment.gov.za](mailto:AppealsDirectorate@environment.gov.za).

We trust the above is in order and should you have any queries please do not hesitate to contact the undersigned.

Yours sincerely  
AURECON



**SIMON CLARK**  
Environmental Consultant  
Environment & Advisory Services



5 Januarie 2015

Geagte Heer/Dame

**BEOOGDE WIND-ENERGIE AANLEG EN VERWANTE WIND EN SONENERGIE (FOTOVOLTAÏSE) INFRASTRUKTUUR OP KANGNAS PLAAS NABY SPRINGBOK, NOORD-KAAP.**

WEA DOS VERW. NR.: 14/12/16/3/3/2/346  
WEA-SUBSTASIE & NETWERKLYN DOS VERW. NR.: 14/12/16/3/3/2/386  
SON-SUBSTASIE & NETWERKLYN DOS VERW. NR.: 14/12/16/3/3/2/447

**EN**

**BEOOGDE WIND-ENERGIE AANLEG EN VERWANTE INFRASTRUKTUUR OP KOERIS PLAAS, NABY SPRINGBOK IN DIE NOORD-KAAP**

WEA DOS VERW. NR.: 14/12/16/3/3/2/346/1  
WEA-SUBSTASIE & NETWERKLYN DOS VERW. NR.: 11/12/16/3/3/2/386/1

**KENNISGEWING VAN GEWYSIGDE OMGEWINGSMAGTIGINGS**

Ons vorige korrespondensie, gedateer 17 Junie 2014 rakende die ontvangs van die Omgewingsmagtigings (OMs) vir die voorgename wind- en sonkrag (fotovoltaïse) energie aanlegte naby Springbok (DOS Verw. Nrs.: 14/12/16/3/3/2/346 (wind), 14/12/16/3/3/2/342 (sonkrag), 14/12/16/3/3/2/386 (wind substasie), 14/12/16/3/3/2/447 (sonkrag substasie)) vir besluitneming, het betrekking.

Aansoeke was ingedien om die administratiewe foute op die OMs te wysig en duidelikheid te kry waar kondisies teenstrydig is. Ons wil u graag inlig dat die Departement van Omgewingsake (DOS) die OMs gewysig het in terme van Regulasie 42 van die 2010 Omgewingsinvloedbepaling (OIB) Regulasies (GK No. R543 van 18 Junie 2010) van die Wet op Nasionale Omgewingsbestuur (Wet No. 107 van 1998) (WNOB). Neem asb kennis dat die gewysigde OMs vir al vyf projekte op **Vrydag, 12 Desember 2014** onderteken is.

'n Afskrif van die gewysigde OMs is hierby aangeheg en is ook beskikbaar op Aurecon se webtuiste ([www.aurecongroup.com](http://www.aurecongroup.com)) – verander "Current Location" na Suid-Afrika en kies "Public Participation". Registreer asb deur gebruik te maak van die volgende verwysingsnommer (14/12/16/3/3/2/346) om toegang tot die dokumente te kry).

Ons wil graag u aandag daarop vestig dat u die reg het om te appelleer teen die besluit van die Minister van Omgewingsake in terme van die Nasionale Appèl Regulasies (GK No. 993 van 8 Desember 2014). 'n Appèl moet binne 20 dae vanaf die datum waarop die kennisgewing van die besluit uitgereik is (d.w.s. vanaf 6 Januarie 2015), ingedien word. Sou u bystand benodig met die appèl prosedure kontak Mr Z Hassam van die DOS by 012 310 3271 (tel) of [AppealsDirectorate@environment.gov.za](mailto:AppealsDirectorate@environment.gov.za).

Ons vertrou dat u die bogenoemde in orde vind en indien u enige vrae het, moet asseblief nie huiwer om die ondergetekendes te kontak nie.

Die uwe  
AURECON



**SIMON CLARK**  
Omgewingspraktisyn  
Omgewings- en Raadgewende Dienste

## Patrick Killick

---

**From:** Zoë Palmer  
**Sent:** 06 January, 2015 9:52 AM  
**To:** Simon Clark  
**Subject:** 108495 Kangnas & Koeris WEF and PV, Springbok: Notification of Amended EA  
**Attachments:** 20150105\_IAP Letter\_Amended EA.pdf; Kangnas Koeris amended EAs.pdf

### Tracking:

#### Recipient

Simon Clark  
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'janniel@namakwa-dm.gov.za'  
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'energy@birdlife.org.za'  
'gyrosa@corpdial.co.za'  
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'MashuduMa@daff.gov.za'  
'cfortune@agri.ncape.gov.za'  
'nngoveni@environment.gov.za'  
'tmaswime@environrntent.gov.za'  
'abco@kingsley.co.za'  
'karstenl.denc@gmail.com'  
'silverfontein@telkomsa.net'  
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'ssithole@wwf.org.za'

#### Delivery

Delivered: 2015-01-06 9:52 AM

**Recipient****Delivery**

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'Dekockr@nra.co.za'  
'kennedys@kingsleyemail.co.za'

Dear Sir/Madam,

**PROPOSED WIND ENERGY FACILITY AND ASSOCIATED WIND AND SOLAR (PHOTOVOLTAIC)  
INFRASTRUCTURE ON KANGNAS FARM NEAR SPRINGBOK, NORTHERN CAPE**

WEF DEA REF. NO.: 14/12/16/3/3/2/346

WEF SUBSTATION & GRIDLINE DEA REF. NO.: 14/12/16/3/3/2/386

SOLAR SUBSTATION & GRIDLINE DEA REF. NO.: 14/12/16/3/3/2/447

AND

**PROPOSED WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE ON KOERIS FARM, NEAR  
SPRINGBOK IN THE NORTHERN CAPE**

WEF DEA REF. NO.: 14/12/16/3/3/2/346/1

WEF SUBSTATION & GRIDLINE DEA REF. NO.: 11/12/16/3/3/2/386/1

We would like to inform you that the Department of Environmental Affairs (DEA) has issued amended Environmental Authorisations (EAs) for the abovementioned projects.

Kindly refer to the attached letter of notification and combined amended EAs for more information on the conditions of authorisation as well as the appeal process.

Should you have any queries, please do not hesitate to contact Mr Simon Clark of Aurecon at:

Tel: 021 526 6034

Email: [Simon.Clark@aurecongroup.com](mailto:Simon.Clark@aurecongroup.com)

Kind regards,

**Zoë Palmer**

Environmental Scientist, Aurecon

T +27 21 526 6069 F +27 21 526 9500 C +27 79 092 9717

E [Zoe.Palmer@aurecongroup.com](mailto:Zoe.Palmer@aurecongroup.com)

Aurecon Centre 1 Century City Drive Waterford Precinct Century City South Africa

[aurecongroup.com](http://aurecongroup.com)

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**DISCLAIMER**



# Kleurryke feestelikhed in die Kaap

M. Mostert

**KAAPSTAD** - Kaapstad se strate gaan uiteindelik Saterdag, 17 Januarie, in 'n kleurryke fees omskep word wanneer die jaarlikse Kaapse Klopse gaan plaasvind. Die karnaval wat gewoonlik op 2 of 3 Januarie plaasvind, is twee keer uitgestel. Dit is van 3 na 5 Januarie verskuif weens godsdienstige redes. Die komitee wat die geleentheid reël, het ingestem om dit uit te stel, uit respek vir die geboorte van die profeet Mohammad wat deur die Islamiete

herdenk word. Daarna is dit weer weens logistieke redes na 10 Januarie verskuif. Die datum het egter gebots met die 103de herdenking van die ANC se bestaan wat by die Kaapstad Stadion gehou is. Nou gaan dit uiteindelik môre gebeur. Die stad Kaapstad het meer as R2 miljoen aan die komitee van die karnaval oorhandig.

Die Kaapse Klopse dateer terug na die negentiende eeu. Die viering het sy oorsprong in die Kaapstadse slawe-gemeenskap gekry. Die slawe het

destyds 'n vakansiedag op Nuwejaarsdag georganiseer waar hulle dan groot fees gevier het. Volgens tradisie het die slawe 'n vakansiedag van hul eienaars gekry om die begin van 'n nuwe jaar te vier. Slawerny is nou iets van die verlede, maar die tradisie van die kleurryke Kaapse Klopse leef vandag steeds voort.

Voorbereidings vir die karnaval begin lank voor die tyd, so vroeg soos Julie reeds, wanneer die troebadoer-troepe reeds hul liedere, dansroetines en

parades begin beplan en oefen. Die kostuums word reeds onder groot geheimhouding in Augustus beplan en gemaak. Die kostuums word hoofsaaklik gekenmerk deur helderkleurige satynpakke, strikdasse, sambrele en hoede en natuurlik die troepe se vrolik geverfde gesigte. Oor die jare heen het die minnesangers of troebadoere in groepe, beter bekend as “klopse” of klubs, verdeel. Die groepe het die tradisie begin om deur die strate na 'n stadion te beweeg waar hulle dan 'n kompetisie gehou het om die beste klub aan te wys.

Vandag neem tot 10 000 troebadoere met hul snaarinstrumente en energieke danse aan die karnaval deel. Hulle beweeg gewoonlik deur die strate van Distrik 6, die sentrale besigheidsarea in Kaapstad na Groenpunt Stadion vir hul vertoning. Party jare moet hulle alternatiewe roetes en stadions gebruik. Die karnaval duur gewoonlik die hele middag; van 12:00 tot laat. Die roete is verskuif na die oorspronklike een deur die Bo-Kaap.

## Bybel

in gebaretaal beplan

M. Mostert

Die Gereformeerde Kerke in Suid-Afrika (GKSA) werk aan 'n Bybel in gebaretaal. Die moontlikheid van so 'n Bybel is reeds in 2012 by die Universiteit van die Vrystaat bespreek. Die projek is die eerste van sy soort in die land en die universiteit speel 'n aktiewe rol hierin. Verteenwoordigers van verskeie kerkverbande en plaaslike, sowel as internasionale organisasies wat die dowe gemeenskap goedgesind is, het op die Bloemfontein-kampus vergader toe die beplanning bespreek is.

Ananda van der Walt, 'n deeltydse terugvertaler in Hands with Words se projek om die Bybel in gebaretaal om te sit, het gesê daar is 'n groot behoefte vir so 'n Bybel in die dowe gemeenskap. Sy het ook gesê dit is die eerste keer wat daar gepoog word om die Bybel in Suid-Afrikaanse gebaretaal te vertaal. Sy het bygevoeg dat dit vir 'n dowe moeilik is om die Bybel in 'n ander taal as gebaretaal te probeer lees. Sy reken dit is soos om 'n teks in 'n derde of vierde taal te lees.

Lisa Craye, die uitvoerende direkteur van Hands with Words, het gesê hul doelwit is om 32 van die Bybel se evangeliese verhale teen die einde van die jaar klaar vertaal te hê. Hands with Words, 'n nie-winsgewende organisasie, het sedert 2013 toe die projek begin is, reeds 16 verhale voltooi.

## SAPD vernietig drank en skerp voorwerp

M. Mostert

**KIMBERLEY** – Die SAPD Galeshewe Polisiëringskluster, waarby vyf polisiestasies betrokke was, het tydens die feestyd in Desember suksesvolle Duty Call Feesseisoen Misdaadvoor-komingsoperasies geloods. Die operasies was 'n poging om gemeenskappe gedurende die feestyd te beveilig sodat hulle 'n rustige tyd kon geniet. Op Dinsdag, 13 Januarie, het die SAPD die items wat tydens die feestyd gekonfiskeer is, vernietig. Meer as 500

liter alkohol en 3000 messe en ander skerp voorwerpe is vernietig. Die alkohol is in die feesgety by sjebeens gekonfiskeer.

Die polisie het talle padblokkades gehou waarin meer as 17 000 voertuie deursoek is. Hulle het ook hoofsaaklik op sjebeens toegeslaan. Met die Duty Call-operasies het die polisie dit duidelik gemaak dat hulle selfs in die feesgety hard werk om gemeenskappe veilig te laat voel.

## Moeitevrye eerste skooldag

M. Mostert

**SPRINGBOK** – Die eerste skooldag is 'n groot dag vir 'n graad 1'tjie en sy ouers. Hier is 'n klompie wenke wat die dag vir jou en jou kind makliker kan maak. Volg dit en die eerste dag sal moeitevry verloop. Staan lekker vroeg op sodat julle rustig saam kan ontbyt eet en heeltemal betyds by die skool kan wees. Moenie die eerste dag gejaagd maak nie; dit skep onnodige spanning vir julle albei.

Maak seker jou kind verstaan en onthou naskoolse reëlings, soos waar jy hom gaan oplaai en wie hom gaan oplaai. Gee aandag aan die ontspanningsaspekte op die skoolterrein. Gaan kyk saam met jou kind na die speelterrein. Kyk ook saam met hom na sy nuwe klaskamer en konsentreer op die dinge wat jy weet hy van hou, soos die leeshoekie, ens. Help jou kind sy tas die aand voor die tyd inpak. Doen dit saam met jou kind. Maak seker alles gaan saam skool toe wat hy sal nodig kry. Vertrou die onderwyser en vra hulp as jy iets wil weet. Die onderwyser het meer ervaring met 'n eerste skooldag en kan help ingeval jou kind jou nie wil laat gaan nie. Moenie te lank rondhang as dit tyd is om te groet nie. Hou die onderwyser dop vir tekens dat dit tyd is om te gaan. Moenie huil voordat jy in jou motor is en op pad huis toe of werk toe is nie. Jou trane sal jou kind ook hartseer maak.

Die aand voor die tyd moet alles gereed wees. Neem jou kind self skool toe, al was hy dalk reeds in Graad R in dieselfde skool. Neem 'n foto op die eerste skooldag; dit is die eerste van baie groot mylpale in sy lewe. Moenie reëlings met jou kind in die eerste week verander nie. Maak vaste reëlings om onsekerheid by jou kind uit te skakel. Leer solank in die vakansietyd jou kind om sy naam en van te skryf. Leer hom ook om Pappa en Mamma se kontaknommers te onthou. Plak 'n doenlysie vir die eerste dag teen jou yskas vas. Vra al die lysies van skryfbehoeftes, skoolklere en so meer wat jou kind gaan nodig kry. Vra ook 'n afskrif van die skoolreëls. Maak voor die tyd 'n draai by jou kind se onderwyser en stel jouself voor. Stel ook vas watter buitemuurse aktiwiteite op watter dae aangebied word en maak saam met jou kind 'n keuse van sy aktiwiteite.

**Jou kind se skoolklere en ander behoeftes:** Jou kind het 'n minimum van twee uitrustings nodig, maar drie is beter: een in die kas, een in die was en een aan sy bas. Baie skole het die opsies van duurder en goedkoper uniforms. Vind voor die tyd uit en vra ervare skoolma's waar hulle winskopies kry. Moenie nou al wintersklere koop nie; dit gaan tien teen een te klein wees teen die tyd dat jou kind dit nodig gaan kry. Koop vroegtydig skoolskoene sodat jou kind genoeg tyd het om dit uit te trap en dit gemaklik pas. Die beste tyd om skryfbehoeftes aan te koop, is tussen Kersfees en vroeg Januarie, omdat al die spesiale aanbiedinge dit moontlik maak om skryfbehoeftes goedkoper te kry en die winkels dan stiller is. Koop gehalte skryfbehoeftes; dit hou langer. Koop laastens 'n kosblik wat jou kind maklik oop en toe kan maak en 'n koeldrankhouer wat dig sluit.

### PROPOSED WIND ENERGY FACILITY (WEF) AND ASSOCIATED WIND AND SOLAR (PHOTOVOLTAIC) INFRASTRUCTURE ON KANGNAS FARM NEAR SPRINGBOK, NORTHERN CAPE

WEF DEA REF. NO.: 14/12/16/3/3/2/346

WEF SUBSTATION & GRIDLINE DEA REF.NO.: 14/12/16/3/3/2/386

SOLAR SUBSTATION & GRIDLINE DEA REF. NO.: 14/12/16/3/3/2/447

#### AND

### PROPOSED WEF AND ASSOCIATED INFRASTRUCTURE ON KOERIS FARM, NEAR SPRINGBOK IN THE NORTHERN CAPE

WEF DEA REF. NO.: 14/12/16/3/3/2/346/1

WEF SUBSTATION & GRIDLINE DEA REF. NO.: 11/12/16/3/3/2/386/1

### NOTIFICATION OF AMENDED ENVIRONMENTAL AUTHORISATIONS

The Department of Environmental Affairs (DEA) has amended the Environmental Authorisations (EAs) issued on 12 June 2014 for the aforementioned projects in terms of Regulation 42 of the 2010 Environmental Impact Assessment (EIA) Regulations (Government Notice (GN) No. R543 of 18 June 2010) of the National Environmental Management Act (Act No. 107 of 1998) (NEMA). Please note that the amended EAs for all five projects were issued on Friday, 12 December 2014 and received on 17 December 2014.

We would like to draw your attention to your right to appeal against the decision of the Minister of Environmental Affairs. For assistance regarding the appeal process contact Mr Z Hassam (the Appeals Director) at Tel: (012) 310 3271 or by email: [AppealsDirectorate@environment.gov.za](mailto:AppealsDirectorate@environment.gov.za)

The EA amendments are available for download on Aurecon's website ([www.aurecongroup.com](http://www.aurecongroup.com) - change “Current Location” to South Africa and click on “Public Participation”. Please note that you will need to register using the following reference number: 14/12/16/3/3/2/346). Alternatively please contact Aurecon at:

	Simon Clark	Louise Corbett
<i>Tel</i>	(021) 526 6034	(021) 526 6027
<i>Fax</i>	(021) 526 9500	(021) 526 9500
<i>Email</i>	<a href="mailto:simon.clark@aurecongroup.com">simon.clark@aurecongroup.com</a>	<a href="mailto:louise.corbett@aurecongroup.com">louise.corbett@aurecongroup.com</a>
<i>Postal address</i>	PO Box 494, Cape Town, 8000	PO Box 494, Cape Town, 8000

Date of advert: 16 January 2015

**aurecon**

### BEOOGDE WIND-ENERGIE AANLEG (WEA) EN VERWANTE WIND EN SONENERGIE (FOTOVOLTAÏSE) INFRASTRUKTUUR OP KANGNAS PLAAS NABY SPRINGBOK, NOORD-KAAP.

WEA DOS VERW. NR.: 14/12/16/3/3/2/346

WEA-SUBSTASIE & NETWERKLYN DOS VERW. NR.: 14/12/16/3/3/2/386

SON-SUBSTASIE & NETWERKLYN DOS VERW.NR.: 14/12/16/3/3/2/447

#### EN

### BEOOGDE WEA EN VERWANTE INFRASTRUKTUUR OP KOERIS PLAAS, NABY SPRINGBOK IN DIE NOORD-KAAP

WEA DOS VERW. NR.: 14/12/16/3/3/2/346/1

WEA-SUBSTASIE & NETWERKLYN DOS VERW. NR.: 11/12/16/3/3/2/386/1

### KENNISGEWING VAN GEWYSIGDE OMGEWINGSMAGTIGINGS

Ons wil u graag inlig dat die Departement van Omgewingsake (DOS) die OMs gewysig het in terme van Regulasie 42 van die 2010 Omgewingsinvloedbepaling (OIB) Regulasies (GK No. R543 van 18 Junie 2010) van die Wet op Nasionale Omgewingsbestuur (Wet No. 107 van 1998) (WNOB). Neem asb kennis dat die gewysigde OMs vir al vyf projekte op Vrydag, 12 Desember 2014 onderteken is, en op 17 Desember 2014 ontvang is.

Ons wil graag u aandag daarop vestig dat u die reg het om te appelleer teen die besluit van die Minister van Omgewingsake. Sou u bystand benodig met die appèl prosedure kontak Mr Z Hassam van die DOS by Tel: (012) 310 3271 of by epos: [AppealsDirectorate@environment.gov.za](mailto:AppealsDirectorate@environment.gov.za).

Die gewysigde OMs is beskikbaar op Aurecon se webtuiste ([www.aurecongroup.com](http://www.aurecongroup.com) – verander “Current Location” na Suid-Afrika en kies “Public Participation”. Registreer asb deur gebruik te maak van die volgende verwysingsnommer (14/12/16/3/3/2/346) om toegang tot die dokumente te kry). As alternatief kan u Aurecon kontak by:

	Simon Clark	Louise Corbett
<i>Tel</i>	(021) 526 6034	(021) 526 6027
<i>Faks</i>	(021) 526 9500	(021) 526 9500
<i>E-pos</i>	<a href="mailto:simon.clark@aurecongroup.com">simon.clark@aurecongroup.com</a>	<a href="mailto:louise.corbett@aurecongroup.com">louise.corbett@aurecongroup.com</a>
<i>Posadres</i>	Posbus 494, Kaapstad, 8000	Posbus 494, Kaapstad, 8000

Datum van advertensie: 16 Januarie 2015

**aurecon**

## **Appendix D:**

Notification to DEA of commencement of activities and ECO appointment

---



4th Floor Mariendahl House  
Newlands on Main  
Corner Main and Campground Roads  
Claremont  
7708

T: +27 (0) 21 657 4040

**BY E-MAIL**

[ElAdmin@environment.gov.za](mailto:ElAdmin@environment.gov.za)

[Sdlomo@environment.gov.za](mailto:Sdlomo@environment.gov.za)

[VCauke@environment.gov.za](mailto:VCauke@environment.gov.za)

[MEssop@environment.gov.za](mailto:MEssop@environment.gov.za)

**AND BY POSTAL DELIVERY**

Chief Director: Integrated Environmental Authorisations  
Department of Environmental Affairs  
Environment House  
473 Steve Biko Road  
Arcadia

8 May 2018

Private Bag X447 Pretoria 0001

DEA Reference numbers:

14/12/16/3/3/2/346 as amended

14/12/16/3/3/2/386 as amended

14/12/16/3/3/2/477 as amended

**NOTIFICATION OF COMMENCEMENT OF ACTIVITIES: ENVIRONMENTAL AUTHORISATION  
NUMBER 14/12/16/3/3/2/346, 14/12/16/3/3/2/386 & 14/12/16/3/3/2/477 (AS AMENDED)**

Dear Sir/Madam

This letter serves as formal notification of the intention to commence with activities authorised in terms of the above-mentioned Environmental Authorisations. It is anticipated that full mobilisation and commencement of construction will occur from 1 June 2018 onward.

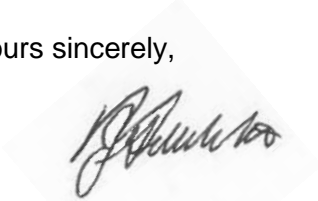
Please also be advised that in accordance with the relevant conditions of the above-mentioned Environmental Authorisations, Barry Wiesner of AMATHEMBA Environmental Management Consulting has been appointed as the project ECO. Mr. Wiesner's contact details are as follows:

Barry Wiesner  
AMATHEMBA Environmental Management Consulting  
Cell no.: 082 463 6221  
Email: [barrywiesner@mweb.co.za](mailto:barrywiesner@mweb.co.za)

Kindly confirm receipt of this notification.

Please do not hesitate to contact the undersigned should you have any further queries.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Mark Templeton', is positioned above a horizontal line. The signature is written in a cursive, flowing style.

---

**Mark Templeton**

**Commercial Associate**

On behalf of South Africa Mainstream Renewable Power Kangnas (PTY) Ltd



## **Appendix E:**

Water Use Licence

---



# water & sanitation

Department:  
Water and Sanitation  
**REPUBLIC OF SOUTH AFRICA**

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## LICENCE IN TERMS OF CHAPTER 4 OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

I, **Margaret-Ann Diedricks**, in my capacity as Director-General in the Department of Water and Sanitation and acting under authority of the powers delegated to me by the Minister of Water and Sanitation hereby authorise the following water uses in respect of this licence.

SIGNED: \_\_\_\_\_

DATE: 29<sup>th</sup> MAR 2016

**LICENCE NO: 14/D82C/ACI/4555**  
**FILE NO: 27/2/2/D382/1/3/5**

1. **Licensee:** **South Africa Mainstream Renewable Power Kangnas (Pty) Ltd**

**Postal Address** P.O.Box 45063  
Claremont  
45063

### 2. **Water Uses**

- 2.1 Section 21(a) of the Act: Taking water from a water resource; subject to the conditions set out in Appendices I and II.
- 2.2 Section 21(c) of the Act: Impeding or diverting the flow of water in a watercourse; subject to the conditions set out in Appendices I and IV
- 2.3 Section 21(i) of the Act: Altering the bed, banks, course or characteristics of a watercourse; subject to the conditions set out in Appendices I and IV.

### 3. **Properties in respect of which the licence is issued**

Farm names	Portion	Title deed number
Kangnas. No 77	Portion 3	T71042/2003
Areb no.75	Remaining Extent	T54873/1988
S'morgen Schaduwe	Remaining Extent	T36048/2000

**B 07217**

**4. Registered owner of the Properties**

Farm names	Portion	Registered Owner
Kangnas. No 77	Portion 3	Kangnas Trust
Areb no.75	Remaining Extent	Agenbag Frank John
S'morgen Schaduwe	Remaining Extent	Smorgenskadu Boedery CC

**5. Licence and Review Period.**

- 5.1 This licence is valid for a period of twenty (20) years from the date of issuance and may be reviewed after at an interval not more than five (5) years.

**6. Definitions**

Any terms, words and expressions as defined in the National Water Act, 1998 (Act 36 of 1998) shall bear the same meaning when used in this licence.

"The Provincial Head"- means the Head of Provincial Operations: Northern Cape, Department of Water and Sanitation, Private Bag X6101, Kimberley, 8300.

"The Department" means the Department of Water and Sanitation.

"Responsible Authority" means the Department of Water and Sanitation or Catchment Management Agency.

"Extent of the watercourse" means the outer edge of the 1:100 year floodline or the delineated riparian habitat, whichever is the greatest.

"The characteristics of a watercourse/s" mean the flow regime, water quality, habitat (including the physical structure of the watercourse/s and associated vegetation) and biota found within the extent of the watercourse/s.

"Report" refers to the reports entitled:

- Site Layout Maps & Maste; Layout Plan compiled by Mainstream Renewable Power date November 2015
- Geohydrological Assessment compiled by GEO-LOGIC Hydrogeological Consultants cc dated November 2015;
- Geohydrological Study compiled by BLUE SCIENCES dated June 2014;
- Final Environmental Impact Assessment Report compiled by AURECON dated February 2013;
- Final Life Cycle Environmental Management Programme compiled by AURECON dated November 2015;
- Kangnas Substation and Tx Line EMPR compiled by AURECON dated November 2015;
- Kangnas Linking Substation EMPr compiled by AURECON dated November 2015;
- Storm Water Management Plan compiled by AURECON dated September 2015; and
- Design Drawings for Access Road compiled by BVI Engineering dated November 2015 as well as all other related documentations and communication (emails, letters, verbal, etc) related thereto.



**6. Description of the activity**

The licence authorises South African Mainstream Renewable Power Kangnas (Pty) Ltd to abstract water from the boreholes, alter the non-perennial drainage lines to establish a 140 MW Wind energy facility and associated infrastructure. The water uses activities fall within D82C Quaternary Catchment of Lower Orange Water Management Area.

## APPENDIX I

### GENERAL CONDITIONS

1. This licence is subject to all provisions of the National Water Act, 1998 (Act 36 of 1998).
2. The responsibility for complying with the provisions of the licence is vested in the Licensee and not any other person or body.
3. The Licensee shall immediately inform the Responsible Authority of any change of name, address, premises and/or legal status.
4. If the properties mentioned in respect of which this licence is issued is subdivided or consolidated, the Licensee must provide full details of all changes in respect of the properties to the Responsible Authority within sixty (60) days of the said change taking place.
5. If a water user association is established in the area to manage the resources, membership of the Licensee to this association is compulsory.
6. When compulsory licensing is implemented for the water resource in respect of which this licence was issued, the water use authorised in this licence could be subject to appropriate reduction.
7. While effect must be given to the Reserve as determined in terms of the Act, where a desktop determination of the Reserve has been used in issuance of a licence, when a comprehensive determination of the Reserve has finally been made; it shall be given effect to.
8. The licence shall not be construed as exempting the Licensee from compliance with the provisions of any other applicable Act, Ordinance, Regulation or By-law.
9. The licence and amendment of this licence are also subject to all the applicable procedural requirements and other applicable provisions of the Act, as amended from time to time.
10. The Licensee shall appoint an independent external auditor to conduct an annual audit on compliance with the conditions of this licence, the audit report must be submitted to the Responsible Authority for review on an annual basis.
11. Flow metering, recording and integrating devices shall be maintained in a sound state of repair and calibrated by a competent person at intervals of not more than two (2) years. Calibration certificates shall be available for inspection by the Responsible Authority or his/her representative upon request.
12. Any incident that causes or may cause water pollution must be reported to the Responsible Authority or his/her designated representative within twenty four (24) hours.
13. The water use authorised by this licence may only be exercised by South Africa Mainstream Renewable Power Kangnas (Pty) Ltd on the properties stipulated in this licence and may not be transferred or leased temporarily or permanently without prior permission of the Responsible Authority.
14. Notices prohibiting unauthorised persons from entering the certain areas, as well as internationally acceptable signs indicating the risks involved in case of an unauthorised entry must be displayed along the boundary fence of these areas.

15. The Department accepts no liability for any damage, loss or inconvenience, of whatever nature, suffered as a result of / amongst other things:

18.1 inundation or flood;

18.2 any force majeure event;

18.3 Siltation of the river or dam basin.

## APPENDIX II

### Section 21 (a) of the Act: Taking water from a water resource

1. The Licensee is authorised to take maximum of eighty thousand cubic meters of water per annum (80 000 m<sup>3</sup>/a) from the boreholes indicated on Table 1.

**Table 1:** Authorised water use

Water use(s)	Purpose	Volume (m <sup>3</sup> /annum)	Property Description	Co-ordinates
Section 21(a)				
Taking of water from ground water resource BH 2	For the construction of a 140 MW Wind Energy Facility	4 628 m <sup>3</sup>	Portion 3 of the Farm Kangnas no.77	S 29°36' 53.7" E 18°23' 28.3"
Taking of water from ground water resource BH 12	For the construction of a 140 MW Wind Energy Facility	69 197 m <sup>3</sup>	Remaining Extent of the Farm Areb no.75	S 29°32' 53.5" E 18°12' 56.9"
Taking of water from ground water resource BH 16	For the construction of a 140 MW Wind Energy Facility	6 175 m <sup>3</sup>	Portion 3 of the Farm Kangnas no.77	S 29°34' 00.2" E 18°21' 11.2"

2. This licence does not imply any guarantee that the said quantities and qualities of water will be available at present or at any time in the future.
3. The above-mentioned volume may be reduced when the licence is reviewed.
4. The Licensee must continually investigate new and emerging technologies and put into practice water efficient devices or apply technique for the re-use of water containing waste, in an endeavour to conserve water at all times.
5. All water taken from the resource must be measured as follows:
  - 5.1. the daily quantity of water taken must be metered or gauged and the total recorded at the last day of each month; and
  - 5.2. the licence must keep record of all water taken and a copy of the records must be forwarded to the Provincial Head on or before 25 January and 25 July of each year.
6. No water taken may be pumped, stored, diverted, or alienated for purposes other than intended in this licence, without written approval by the Responsible Authority.
7. The Licensee must install and monitor appropriate water measuring devices to measure the amount of water abstracted, received and/or consumed, as applicable to the infrastructure.
8. The Licensee will be responsible for any water use charges or levies, which may be imposed from time to time by the Department in terms of the Department's Raw Water Pricing Strategy.
9. The Licensee must establish a programme of formal Information Management System, which maintains a database on water supply, distribution and delivery infrastructure.

10. The Licensee must establish and implement a continual process of raising awareness amongst itself, its workers and stakeholders with respect to water conservation/water demand management initiatives.
11. The Licensee must consider the principles of integrated resource planning (IRP) in development of all new infrastructure, with water, waste and energy demand management being central considerations.
12. The Licensee must optimize water use and design new infrastructure to ensure optimal layout of building and equipment to support reduced water consumption.
13. Water levels of all boreholes must be measured weekly during construction. There after water levels can be measured monthly.
14. The maximum drawdown for the production boreholes are BH2 63 m, BH12 42mbgl and BH16 42mbgl. If these depths are reached water abstraction shall be stopped immediately.
15. Electric Conductivity and PH readings must be taken weekly at all three production boreholes during construction. There after it can be done monthly.
16. Water Samples must be taken bi-annually and submitted to a SANS accredited laboratory for the analysis of the micro chemistry.
17. Abstraction shall be monitored on a weekly basis. The installation of a water meter shall be at the expenses of the licensee and must comply with the specifications of the owner and should be SABS approved. The meter must reached 999 999 m<sup>3</sup> before being reset to zero.
18. These data shall be evaluated on a quarterly basis during construction, there after it must be done annually. The reports must be submitted to the Provincial Head.



**APPENDIX III****Section 21(c) of the Act: Impeding or diverting the flow of water in a watercourse  
and****Section 21(i) of the Act: Altering the bed, banks, course or characteristics of a  
watercourse****1. GENERAL**

- 1.1 This licence authorises for Section 21(c) and (i) water use activities for the mining within the 1:100 year floodline of the non-perennial tributaries as indicated in Table 2.

**Table 2: Water Uses Authorised**

<b>Water use(s)</b>	<b>Purpose</b>	<b>Dimensions</b>	<b>Property Description</b>	<b>Co-ordinates</b>
<b>Section 21 c &amp; i</b>				
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 31' 19.68" S 18° 16' 16.20" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 31' 22.44" S 18° 16' 18.97" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 31' 34.07" S 18° 16' 30.65" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 31' 37.21" S 18° 16' 33.81" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 31' 53.56" S 18° 16' 54.05" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 31' 56.59" S 18° 16' 58.02" E
Construction of Main Access Road over a	For the construction and operation	Width- Up to 10m Length- ±5m to	Remaining Extent of the Farm Areb	29° 32' 1.17" S 18° 17' 4.02" E

Water use(s)	Purpose	Dimensions	Property Description	Co-ordinates
non-perennial drainage line	of a 140 MW Wind Energy Facility	±10m Depth- ±1m	no.75	
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 32' 3.23" S 18° 17' 6.72" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 32' 5.40" S 18° 17' 9.56" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 32' 7.00" S 18° 17' 11.66" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 32' 58.34" S 18° 18' 18.92" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 33' 1.98" S 18° 18' 23.69" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 33' 21.45" S 18° 18' 49.21" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 33' 23.15" S 18° 18' 51.44" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 33' 25.87" S 18° 18' 55.01" E
Construction of Main Access Road over a	For the construction and operation	Width- Up to 10m Length- ±5m to	Remaining Extent of the Farm Areb	29° 33' 27.27" S 18° 18' 56.85" E

Water use(s)	Purpose	Dimensions	Property Description	Co-ordinates
non-perennial drainage line	of a 140 MW Wind Energy Facility	±10m Depth- ±1m	no.75	
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 33' 28.46" S 18° 18' 58.40" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 33' 35.31" S 18° 19' 7.39" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 33' 42.08" S 18° 19' 14.02" E
Construction of Main Access Road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm Areb no.75	29° 33' 44.14" S 18° 19' 14.41" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 36' 51.55" S 18° 18' 37.29" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 36' 55.22" S 18° 18' 40.36" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 37' 25.13" S 18° 19' 5.60" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 37' 26.86" S 18° 19' 7.09" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S	29° 36' 37.68" S 18° 19' 20.54" E

Water use(s)	Purpose	Dimensions	Property Description	Co-ordinates
non-perennial drainage line	of a 140 MW Wind Energy Facility	±10m Depth- ±1m	Morgen Schaduwe no.127	
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 36' 40.68" S 18° 19' 23.68" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Portion 3 of the Farm Kangnas no.77	29° 36' 50.26" S 18° 20' 48.25" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Portion 3 of the Farm Kangnas no.77	29° 36' 51.38" S 18° 20' 50.31" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Portion 3 of the Farm Kangnas no.77	29° 36' 33.36" S 18° 21' 46.44" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Portion 3 of the Farm Kangnas no.77	29° 36' 33.78" S 18° 21' 48.86" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Portion 3 of the Farm Kangnas no.77	29° 36' 44.90" S 18° 22' 42.12" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Portion 3 of the Farm Kangnas no.77	29° 36' 45.75" S 18° 22' 44.31" E
Wind turbine Interconnecting road over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Portion 3 of the Farm Kangnas no.77	29° 36' 45.10" S 18° 20' 47.87" E
Wind turbine Interconnecting road over a	For the construction and operation	Width- Up to 10m Length- ±5m to	Portion 3 of the Farm Kangnas no.77	29° 36' 43.83" S 18° 20' 50.05" E

Water use(s)	Purpose	Dimensions	Property Description	Co-ordinates
non-perennial drainage line	of a 140 MW Wind Energy Facility	±10m Depth- ±1m		
Minor gridline service track over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 32' 31.51" S 18° 16' 38.74" E
Minor gridline service track over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 32' 33.16" S 18° 16' 40.23" E
Minor gridline service track over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 32' 33.73" S 18° 16' 40.75" E
Minor gridline service track over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 32' 35.96" S 18° 16' 42.77" E
Minor gridline service track over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 32' 43.01" S 18° 16' 49.14" E
Minor gridline service track over a non-perennial drainage line	For the construction and operation of a 140 MW Wind Energy Facility	Width- Up to 10m Length- ±5m to ±10m Depth- ±1m	Remaining Extent of the Farm S Morgen Schaduwe no.127	29° 32' 47.93" S 18° 16' 53.58" E

1.2 The Licensee must carry out and complete all the activities listed under condition 1.1 according to the following:

- 1.2.1. Reports submitted to the Provincial Head or Responsible Authority
- 1.2.2. Conditions of this licence; and
- 1.2.3. Any other written direction issued by the Provincial Head or Responsible Authority in relation to this licence.

1.3 No activity must take place within extent of the watercourse unless authorised by this licence.

1.4 The conditions of this licence must be brought to the attention of all persons (employees, sub-consultants, contractors etc.) associated with the undertaking of these activities and the



Licensee must take such measures that are necessary to bind such persons to the conditions of this licence.

- 1.5 A copy of the water use licence and reports set out under condition 1.2 must be on site during the construction.
- 1.6 A suitably qualified person(s), appointed by the Licensee, must be responsible for ensuring that the activities are undertaken in compliance with the specifications as set out in reports submitted to the Department or the Responsible authority and the conditions of this licence.

## **2. FURTHER STUDIES AND INFORMATION REQUIREMENTS**

- 2.2.1 Work method statements, site plan(s) and stormwater management plan must indicate the regulated activities, marking the limits of disturbance in relation to the impacted watercourses; morphology of the watercourses; site specific impacts; and environmental management, particularly erosion and sediment, controls and measures;
- 2.2.2 No fundamental alterations of the work method statements, site plan(s) and drawings are allowed, unless a modification is requested and granted by the Provincial Head or Responsible Authority in writing.
- 2.2.3 Drainage crossings designs must be motivated in terms of hydrological and ecological sensitivity and importance for vegetation and biota. All large important crossings must receive box culverts and cater for the 1:100 flows and the culverts must be spaced over the width of the drainage lines to cater for ecological connectivity as well as for biota safe passage. Only the non-sensitive crossings can be rock mattresses.
- 2.2.4 A Storm Water Management Plan must be drawn up and clean water drains must be designed to be as natural as possible using rock, top soil and indigenous vegetation. Discharge points must be designed as bio retention ponds with energy dissipaters.
- 2.2.5 Natural vegetation must be managed on site to assist with erosion protection and ecological function.
- 2.2.6 Plant Species Plan must be provided for approval before construction starts.
- 2.2.7 Landscape Maintenance Plan must be provided before construction starts.
- 2.2.8 The design standard is for 1:100 return period flood and due to the extremely flat nature of the crossings (with vertical height displacement between riverbed level and surrounding areas typically less than 0.5m) only 2 of the crossing are to be provided with physical structures. The civil works may fulfil the Licensee t's needs by one or two means, being either a low level dish crossing or a pipe conduit.
- 2.2.9 In the design for the low level "dish crossing" the roadway is a 200mm thick concrete slab with downstream protection as well as side slope (1v:8h) protection by gabions. This design will allow for unhindered transport of sediments during geomorphological induced flows (typically exceeding the 1; 2 year flood).
- 2.2.10 The option of a close conduit pipe will require significant length to allow for "day lighting" (free drainage) of water when flow does take place in this region (with an MAP of 195 mm/a) however this will not ensure self-cleaning for sediments flows, over and above concentrated flow velocity impacts as well as close conduit have adverse ecological impacts for fauna migration. Still further, the pipe conduit option has a greater area of impact due to the length of drainage path required which cannot be mitigated as required by the NEMA principles. Thus although this may be feasible from a structural point of view this option is not ideally suited for sustainable development.

### 3 PROTECTIVE MEASURES

- 3.1.1 Storm water management practices must be constructed, operated and maintained in a sustainable manner throughout the project and for the water use activities set out in condition 1.1 and must include but are not limited to the following:
- 3.1.1.1 Increased runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that storm water does not lead to bank instability and excessive levels of silt entering the wetland;
  - 3.1.1.2 Stormwater must be diverted from construction works and roads, and must be managed in such a manner as to disperse runoff and to prevent the concentration of storm water flow; and
  - 3.1.1.3 The velocity of stormwater discharges must be attenuated and the banks of the wetland protected;
- 3.1.2 Storm water discharge points with energy dissipaters should be constructed strategically in and around infrastructure to discharge storm water into the surrounding area to avoid concentration of discharge;
- 3.1.3 Sediment and debris/litter must be trapped before entering the main drainage system by constructing retention structures. These structures should be regularly maintained.

### 3.2 Water Quality

- 3.2.1 The Licensee shall sample the water quality weekly (during construction) and monthly (after construction) for mentioned variables shown in Table 3, at monitoring points upstream and downstream of the affected watercourse and on the watercourse. The report must be submitted to the Provincial Head within thirty (30) days after the results of each sampling event is received:

**Table 3:** Water quality parameters for sampling.

Variable	Limit
Flow (l/s)	Not applicable
Temperature (°C)	<10% variation
pH	6.0 – 8.5
Electrical conductivity (EC) (mS/m)	<50
Suspended solids (SS) (mg/l)	<25
Dissolved oxygen (mg/l)	≥6
Turbidity (NTU)	<3
Secchi disk depth (m)	≥1 meter
Alkalinity (mg CaCO <sub>3</sub> /l)	<100

- 3.2.2 Monitoring must be undertaken as set out in condition 5 of Appendix II.
- 3.2.3 The ecological state of the water resource must not be lowered by the development. The Licensee must ensure that the quality of the water to downstream water users does not decrease because of the water use activities listed under condition 1.1 of Appendix II.
- 3.2.1 No site activities must occur beyond the proposed site location of the erosion and sedimentation controls and marked limits of disturbance.
- 3.2.2 Activities that lead to elevated levels of turbidity of any watercourses must be prevented, reduced, or otherwise remediated. Activities must be scheduled to take place during the dry seasons when flows are lowest where reasonably possible. If this is not possible and

if management measures have not been provided for in the reports submitted to the Provincial Head, the Licensee must submit such to the Provincial Head for written approval before these activities commence. Natural in stream hydrology is to be used to determine which months constitute the low flow months.

- 3.2.3 The Licensee must ensure that the quality of the water to downstream water users does not decrease because of the water use activities listed under.
- 3.2.4 A qualified person must be appointed to assess the quality of water both upstream and downstream of the activities prior to commencement of construction.
- 3.2.5 Pollution of and disposal/spillage of any material into the watercourse must be prevented, reduced, or otherwise remediated through proper operation, maintenance and effective protective measures.
- 3.2.6 Vehicles and other machinery must be serviced well above the extent of the watercourse, whichever is the greatest. Oils and other potential pollutants must be disposed off at an appropriate licensed site, with the necessary agreement from the owner of such a site.
- 3.2.7 Any hazardous substances must be handled according to the relevant legislation relating to transport, storage and use of the substance.
- 3.2.8 All reagent storage tanks and reaction units must be supplied with a bunded area built to contain at least 110% of the capacity of the facility and provided with sumps and pumps return the spilled material back into the system. The system must be maintained in a state of good repair and standby pumps must be provided.

### **3.3 Flow**

- 3.3.1 The Licensee must determine flood lines (1:50 and 1:100 year) prior to construction to ensure risks are adequately managed. Flood lines must be clearly indicated on the site plan(s) and drawings along with all wetland boundaries.
- 3.3.2 Appropriate design and mitigation measures must be developed to minimise impacts on the natural flow regime of the watercourse i.e. through placement of structures/supports and to minimise turbulent flow in the watercourse.
- 3.3.3 Structures to be designed in a way to prevent the damming of stream/river water and not impact on the flow of the water, during the construction and operational phases of all developments.

### **3.4 Riparian Habitat**

- 3.4.1 Activities (including spill clean-up) must start up-stream and proceed into a down-stream direction, so that the recovery processes can start immediately, without further disturbance from upstream works.
- 3.4.2 Operation and storage of equipment must not take place within the extent of the watercourse unless authorised in this license.
- 3.4.3 Activities must not occur in sensitive riffle habitats.
- 3.4.4 Indigenous riparian vegetation, including dead trees, outside the limits of disturbance indicated in the site plans must not be removed from the area.





- 3.4.5 Alien and invader vegetation must not be allowed to further colonise the area, and all new alien vegetation recruitment must be sustainably eradicated or controlled within a 50m radius around all authorised.
- 3.4.6 All reasonable steps must be taken to minimise noise and mechanical vibrations in the vicinity of the watercourses.
- 3.5.15 Stockpiling of removed soil and sand must be stored outside of the extent of the watercourse, to prevent being washed into the river and must be covered to prevent wind and rain erosion.
- 3.5.16 As much indigenous vegetation growth as possible should be promoted within the proposed development area in order to protect soil and to reduce the percentage of the surface area which is paved.

### **3.6 Biota**

- 3.6.1 All reasonable steps must be taken not to disturb the breeding, nesting and/or feeding habitats and natural movement patterns of aquatic biota.

## **4 REHABILITATION AND MANAGEMENT**

- 4.1 A habitat assessment study must be undertaken annually for three (3) years to ensure that rehabilitation is stable failing which remedial action must be taken to rectify impacts.
- 4.2 The Licensee must embark on a systematic long-term rehabilitation programme to restore the watercourse(s) to environmentally acceptable and sustainable conditions after completion of the activities, which must include, but not be limited to the rehabilitation of disturbed and degraded riparian areas to restore and upgrade the riparian habitat integrity to sustain a bio-diverse riparian ecosystem.
- 4.3 Impacts must be adequately mitigated and rehabilitated in accordance with the Environmental Management Plan and all specifications addressed in these documents.
- 4.4 All disturbed areas must be re-vegetated with an indigenous seed mix in consultation with an indigenous plant expert, ensuring that during rehabilitation only indigenous shrubs, trees and grasses are used in restoring the biodiversity.
- 4.5 An active campaign for controlling invasive species must be implemented within disturbed zones to ensure that it does not become a conduit for the propagation and spread of invasive exotic plants.
- 4.6 Rehabilitation of disturbed regulated areas must occur during and after completion of construction. Any material removed from the extent of the watercourses(s) must be returned and bedded in their original position as far as practicably possible.
- 4.7 Topsoil must be stripped and redistributed.
- 4.8 Stockpiles and overburden must be removed or rehabilitated after construction.
- 4.9 Compacted and disturbed areas must be shaped to natural forms and to follow the original contour. In general cut and fill slopes and other disturbed areas must not exceed 1:3 (v:h) ratio, it must be protected, vegetated, ripped and scarified parallel with the contour.
- 4.10 A botanist familiar with the vegetation of the area must monitor the rehabilitation success and alien plant removal on annual basis.

- 4.11 The Provincial Head must sign a release form indicating that rehabilitation was done satisfactory according to specifications as per this licence.
- 4.12 A photographic record must be kept as follows and submitted with reports as set out in section 5:  
4.12.1 Dated photographs of all the sites to be impacted before construction commences;  
4.12.2 Dated photographs of all the sites during construction on a monthly basis; and  
4.12.3 Dated photographs of all the sites after completion of construction, seasonally.
- 4.13 A comprehensive and appropriate rehabilitation and management programme to restore the watercourse(s) to environmentally acceptable and sustainable conditions after construction must be developed and submitted to the Provincial Head or Responsible Authority for written approval before construction commences.

## **5 MONITORING AND REPORTING**

- 5.1 The Provincial Head must be notified in writing one week prior to commencement of the licenced activity (ies) and again upon completion of the activity (ies).
- 5.2 A comprehensive and appropriate environmental assessment and monitoring programme to determine the impact, change, deterioration and improvement of the aquatic system associated with the activities listed under Table 1 as well as compliance to these water use licence conditions must be developed and submitted to the Provincial Head or Responsible Authority for a written approval before commencement and must subsequently be implemented as directed.
- 5.3 Six (6) monthly monitoring reports must be submitted to the Provincial Head until otherwise agreed in writing with the Provincial Head or Responsible Authority.
- 5.4 A monitoring program for alien plants must be devised to detect and quantify any alien plants that may establish.
- 5.5 Internal and external audit must be done as per condition 10 and 11 of Appendix 1.
- 5.6 The audit reports must include but are not limited to:  
5.6.1 Reporting in respect of the monitoring programme referred to in condition 5.2;  
5.6.2 A record of implementation of all mitigation measures including a record of corrective actions; and  
5.6.3 Compensation measures for damage where mitigation measures have failed to adequately protect the in-stream and riparian habitat or any other characteristic of the watercourses.
- 5.7 The Licensee must apply in writing to the Provincial Head or Responsible Authority for alternative reporting arrangements for which written approval must be provided.
- 5.8 An environmental officer must be appointed for the lifespan of the project and for the period after that until the Department is satisfied that the rehabilitation and monitoring program had been implemented successfully and the primary and secondary impacts are managed adequately.

## **6 OTHER WATER USERS**

- 6.1 The Licensee must attempt to prevent adverse effects on other water users. All complaints must be investigated by a suitable qualified person and if investigations prove that the Licensee has impaired the rights of other water users, the Licensee must initiate suitable compensative measures.

## **7 POLLUTION PREVENTION, INCIDENTS AND MALFUNCTIONS**

- 7.1 Pollution incidents must be dealt with in accordance with Section 19 and 20 of the Act.
- 7.2 Any incident that may cause pollution of any water resource must immediately be reported to the Provincial Head or Responsible Authority.
- 7.3 If surface and/or groundwater pollution has occurred or may possibly occur, the Licensee must conduct, and/or appoint specialists to conduct the necessary investigations and implement additional monitoring, pollution prevention and remediation measures to the satisfaction of the Provincial Head or Responsible Authority.
- 7.4 The possibility of spillages must be catered for in the design of the infrastructure where for example, attenuation ponds prior to the discharge of storm water could be employed or the storm water systems themselves could be designed in such a way that it can be easily sealed off after the occurrence of a spill. If a spill occurs during the operational phase of the infrastructure, a suitably qualified team of experts will need to be consulted and rehabilitation plan drawn up and implemented.
- 7.5 The Licensee must keep all records relating to the compliance or non-compliance with the conditions of this licence in good order. Such records must be made available to the Provincial Head within 14 (fourteen) days of receipt of a written request by the Department for such records.
- 7.6 The Licensee must keep an incident report and complaints register, which must be made available to any external auditors and the Department.

## **8 BUDGETARY PROVISIONS**

- 8.1 The Licensee must ensure that there is a budget sufficient to complete and maintain the water use and for successful implementation of the rehabilitation programme as set out in this licence.
- 8.2 The Department may at any stage of the process request proof of budgetary provisions for rehabilitation and closure of project.

**[END OF LICENCE]**