



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATIONS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

IMPORTANT NOTICE

Kindly note that:

1. As from 8 December 2014, this document serves as the application form, and incorporates the requisite documents that are to be submitted together with the application for the necessary environmental authorisations in terms of the said Acts.
2. This application form is applicable while the Mineral and Petroleum Resources Development Amendment Act of 2008 is in effect, as the form may require amendment should the Act be further amended.
3. Applicants are required to apply for the necessary water use licence and any other authorisations or authorisations to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right or permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use licence has been applied for.
4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
5. The application must be typed within the spaces provided in the form. The sizes of the spaces are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorisation and consequently of the right or permit applied for.
7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.

PLEASE STATE TYPE OF AUTHORISATIONS BEING APPLIED FOR

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R10 000.00	
NEMA BAR application on its own	R2 000.00	
NEMWA S&EIR application on its own	R10 000.00	
NEMWA BAR application on its own	R2 000.00	
NEMA S&EIR application combined with NEMWA S&EIR application	R15 000.00	X
NEMA BAR application combined with NEMWA BAR application	R3 000.00	
NEMA S&EIR application combined with NEMWA BAR application	R11 000.00	

1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT

This application is for a Scoping Report and EIAr process for a Mining Right that is being applied for. The public consultation process will meet the full set of requirements as set out in Chapter 6 of the National Environmental Management Act (No 107 of 1998) - Environmental Impact Assessment Regulations, 2014. The public participation process that will be undertaken for the project has been outlined in Section 6 of this application form.

2. DETAILS OF THE APPLICANT

Project applicant:	Annesley Salt (Pty) Ltd	
Registration no (if any):	2018/043432/07	
Trading name (if any):	Annesley Salt (Pty) Ltd	
Responsible Person, (e.g. Director, CEO, etc.):	Mr. Bertus Louw	
Contact person:	Mr. Bertus Louw	
Physical address:	40 Karakoel Street Upington 8801	
Postal address:	Private Bag X6009 Upington 8800	
Postal code:	8800	
Telephone:	054 3375500	082 706 3079 (Bertus)
E-mail:	mining@blaauwsgroup.co.za	

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	ROELIEN OOSTHUIZEN	
Professional affiliation/registration:	Registered at IAIASA (International Association for Impact Assessment South Africa)	
Contact Person, (if different from EAP):	WILLIE OOSTHUIZEN	
Company:	WADALA MINING AND CONSULTING (PTY) LTD	
Physical address:	FARM OBERON, KIMBERLEY	
Postal address:	P.O. BOX 110823, HADISON PARK, KIMBERLEY	
Postal code:	8306	Cell: 082 870 9973
Telephone:	082 870 9973 084 208 9088	Fax: 086 510 7120
E-mail:	woosthuizen950@gmail.com roosthuizen950@gmail.com	

An independent EAP has been appointed as stipulated by the NEMA Regulations. Please refer to Appendix 1 for the declaration of independence, CV and list of projects completed by the appointed EAP, indicating the experience with environmental impact assessments and relevant application processes.

4. PROJECT DESCRIPTION

Farm Name:	Remainder of the Farm Annesley 338, Gordonia
Application area (Ha)	100,3481 (One Hundred comma Three four eight one) hectares
Magisterial district:	District of Gordonia, Northern Cape Province
Distance and direction from nearest town	The proposed salt mine is situated on a portion of the farm known as the Remainder of the Farm Annesley no. 338, which is located approximately 120 km north of Upington, and approximately 35 km southwest of Noenieput, in the Northern Cape Province.
21 digit Surveyor General Code for each farm portion	C02800000000033800000 Total Extent of application area: 100, 3481ha
Locality map	Attach a locality map at a scale not smaller than 1:250000 and attach as Appendix 2
Description of the overall activity. (Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)	<p>The salt resources are confined to the underground brines. Which are of secondary origin, having leached from salt-bearing sediments i.e. Dwyka Formation sediments. These particular sediments are mainly the shales and tillites of the Dwyka Formation. This potential source of salt is unlimited, and the leaching of these sediments will continue as long as water finds its way through the sediments.</p> <p>Salt Pans, more often, do occur on surface; therefore mining must be designed to penetrate the surface to reach the source of the salt underground. Annesley Salt (Pty) Ltd will use air drilling methods as a means of penetrating ground brine water, underlying the surface salt deposits, by means of boreholes.</p> <p>Once the boreholes are drilled, the identified area would then be opened up by digging evaporation dams (100m x 60m x 0.6m dams). The dams will be opened up to the clay level (300 mm deep below natural ground level) and dams built to 600mm from the floor formed by the hardened sulphates (floor 150mm thick) up to 450 mm above natural ground level to compensate for the 1 in 50 year flood level. Brine from the boreholes is pumped into the dams, allowing water to evaporate. The brine water is harrowed periodically depending on the speed of evaporation. Thus helping the forming of salt crystals and keeping salt from forming a base that cannot be cultivated. The salt crystals are collected as coarse salt and stock piled.</p>

5. ACTIVITIES TO BE AUTHORISED

No Environmental Authorisation has yet been obtained for the same property. Therefore **Appendix 3** (as suggested by this Environmental Authorisation application template) is void.

This Environmental Authorisation application involves more than one listed activity, which together make up one mining operation. Therefore, please find attached a proposed site plan, drawn to a scale acceptable to the competent Authority, showing the location of all the activities to be applied for, as **Appendix 4**.

NAME OF ACTIVITY	Aerial extent of the Activity Ha or m ²	LISTED ACTIVITY	APPLICABLE LISTING NOTICE	WASTE MANAGEMENT AUTHORISATION
<p>(E.g. for prospecting – drill site, site camp, ablation facility, accommodation, equipment storage, sample storage, site office, access route, etc. etc. etc.)</p> <p>E.g. for mining – excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablation, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc. etc. etc.)</p> <p>Activity 9: "The development of infrastructure exceeding 1000 metres in length for the bulk transportation of water or storm water- (vii) with an internal diameter of 0.36 metres or more; or (viii) with a peak throughput of 120 litres per second or more;</p>	<p>Water Pipelines</p> <p>distribution</p>	<p>X</p>	<p>GNR 983</p>	<p>(Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)</p>
<p>Activity 12 of NEMA Listing notice 1</p> <p>"The development of—</p> <p>(i) canals exceeding 100 square metres in size;</p> <p>(ii) channels exceeding 100 square metres in size;</p> <p>(iii) bridges exceeding 100 square metres in size;</p> <p>(iv) dams, where the dam, including infrastructure and water surface area, exceeds 100 square metres in size;</p> <p>(v) weirs, where the weir, including infrastructure and water surface area, exceeds 100 square metres in size;</p> <p>(vi) bulk storm water outlet structures exceeding 100 square metres in size;</p> <p>(x) buildings exceeding 100 square metres in size;</p> <p>or</p> <p>(xii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs—</p> <p>(a) within a watercourse;</p> <p>(b) in front of a development setback; or</p>	<p>60 X 100m for each evaporation dam 10 evaporation ponds is planned for this operation 60 000m²</p>	<p>X</p>	<p>GNR 983</p>	

<p>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse" Regulation GN R704, published on 4 June 1999 in terms of the National Water Act (Use of water for mining and related activities) GNR984: Activity 17 Consideration of GN704 – Water Act</p>				
<p>(Activity 17 of Listing Notice 2) Any activity including the operation of that activity which requires a mining right as contemplated in section 22 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource, including activities for which an exemption has been issued in terms of section 106 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002).</p>	<p>100, 3481 ha</p>	<p>X</p>	<p>GNR 984</p>	
<p>Activity 21 of NEMA Listing Notice 2 Any activity including the operation of that activity associated with the primary processing of a mineral resource including winning, reduction, extraction, classifying, concentrating, crushing, screening and washing but excluding the smelting, beneficiation, refining, calcining or gasification of the mineral resource in which case activity 6 in this Notice applies.</p>	<p>6 ha will be used for the evaporation ponds for the salt mining</p>	<p>X</p>	<p>GNR 984</p>	
<p>Activity 24(ii) of NEMA Listing Notice 1 The development of haul roads 15m wide with no reserve</p>	<p>±5 000m² on the Area.</p>	<p>X</p>	<p>GNR983</p>	
<p>Activity 56(ii) of NEMA Listing Notice 1</p>	<p>±5 000m² on the Area.</p>	<p>X</p>	<p>GNR983</p>	

<p>The continuous lengthening (and rehabilitation) of haul roads 15m wide with no reserve.</p> <p>Activity 15 of NEMA Listing Notice 2 "The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for- (i) The undertaking of a linear activity; or (ii) Maintenance purposes undertaken in accordance with a maintenance management plan."</p>	<p>A total of 6 hectares will be physically disturbed were the evaporation ponds will be made as well as areas for stockpiling and workshops as well as other infrastructure</p>	<p>X</p>	<p>GNR984</p>	
<p>Activity 10 of NEMA Listing Notice 3: "The development of facilities or infrastructure for the storage, or storage and handling of a dangerous good, where such storage good, where such storage occurs in containers with a combined capacity of 30 but not exceeding 80 cubic meters."</p>	<p>250m²</p>	<p>X</p>	<p>GNR985</p>	
<p>Activity 15 of Category A under the National Environmental Management: Waste Act 59 of 2008 The continuous establishment and reclamation of temporary stockpiles resulting from activities which require a mining right.</p>	<p>20 000m²</p>		<p>GNR 633</p>	<p>X</p>
<p>OTHER ACTIVITIES (Associated infrastructure not considered to be listed activities)</p> <p>Temporary Workshop Facilities</p> <p>Storage Facilities</p> <p>Concrete Bund walls and diesel Depots</p> <p>Four Family housing units pre-fabricated houses and Ablution Facilities</p>	<p>±300m²</p> <p>±3000m²</p> <p>±250m²</p> <p>±100m²</p>		<p>NOT LISTED</p>	

Topsoil Stockpiles	±2 000m ²		
Overburden Stockpiles	±2 000m ²		
Generator Site within a concrete floor and bundwall	25m ²		

Phase 1. (Implementation)

There are no existing structures or buildings on the mining application area. The property will be leased by Annesley Salt (Pty) Ltd from the owner, which lease agreement has already been successfully negotiated, subject to the approval and granting of a mining right by the Department of Mineral Resources to Annesley Salt (Pty) Ltd.

Phase 1 will consist of the erection of the first two family housing units which will be pre-fabricated houses, a dedicated workshop and washbay area, diesel tank within a concrete floor and bundwall area and a dedicated generator site within a concrete floor and bundwall area on the mining site. Electricity supply for all housing units will be from renewable energy sources, in this case solar energy. This phase will commence as soon as a mining right have been granted to Annesley Salt (Pty) Ltd.

At the same time the construction of 10 salt evaporation dams will commence together with the installation of the three borehole pumps and pipe network which will distribute the brine from the boreholes to the salt evaporation dams.

Phase 2. (Expansion)

After the first year that the mining right is granted Annesley Salt (Pty) Ltd plans to erect the last two pre-fabricated family housing units.

6. PUBLIC PARTICIPATION

(Provide details of the public participation process proposed for the application as required by Regulation).

Details of the Public Participation process to be followed.

6.1.1 IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED

IDENTIFICATION CRITERIA	Mark with an X where applicable	
	YES	NO
Will the landowner be specifically consulted?	X	
Will the lawful occupier on the property other than the Landowner be consulted?	X	
Will a tribal authority or host community that may be affected be consulted?	X	
Will recipients of land claims in respect of the area be consulted?	X	
Will the landowners or lawful occupiers of neighbouring properties be identified?	X	
Will the local municipality be consulted?	X	
Will the Authority responsible for power lines within 100 metres of the area be consulted?	X	
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?	X	
Will Authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? (Specify)	X	
Will the Provincial Department responsible for the environment be consulted?	X	
Will all the parties identified above be provided with a description of the proposed mining/prospecting operation as referred above?	X	
Other, Specify		

6.1.2 DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

<p>Steps to be taken to notify interested and affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice boards, and copies of advertisements and notices notifying potentially interested and affected parties of the proposed application must be attached as Appendix)</p>	<p>PROVIDE DESCRIPTION HERE</p> <p>The landowner and the neighbours will be informed personally and consulted by the applicant and this will be confirmed in writing. A consultation letter will be send to the farm owner. An advert will be published in the local newspaper for comments and a public meeting will be held.</p>
<p>Information to be provided to Interested and Affected Parties</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • The site plan. • List of activities to be authorised. • Scale and extent of activities to be authorised. • Typical impacts of activities to be authorised (e.g. surface disturbance, dust, noise, drainage, fly rock etc.). • The duration of the activity. • Sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land). <p>Other, specify: A background document (BID), and supporting letters will be sent via registered letters to all stakeholders and IAP's. Advertisements notices will be placed in regional newspapers to inform the general public of the proposed mining activity and invite public comment. Site notices will be placed at the entrance to the site and nearby public places.</p>
<p>Information to be required from Interested and Affected Parties</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • To provide information on how they consider that the

	<p>proposed activities will impact on them or their socio-economic conditions.</p> <ul style="list-style-type: none"> • To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity. • To provide information on current land uses and their location within the area under consideration. • To provide information on the location of environmental features on the Mining Area to make proposals as to how and to what standard the impacts on the Mining Area can be remedied requested to make written proposals. • To mitigate the potential impacts on their socio-economic conditions to make proposals as to how the potential impacts on their infrastructure can be managed, avoided or remedied.
	Other, specify

7. DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN

ITEM	DESCRIPTION
<p>Environmental attributes Describe how the environmental attributes associated with the development footprint will be determined.</p>	<p>The landowner and the neighbours will be informed personally and consulted by the applicant and this will be confirmed in writing.</p> <p>Notice boards/ Site notices and newspaper adverts will be distributed and displayed as stipulated in regulations. All interested and affected parties will receive an information brochure on the application and how they can be registered. Information brochures will also be made available at public places for the public to be involved.</p>
<p>Identification of impacts and risks Describe the process that will be used to identify impacts and risks.</p>	<p>Consideration of the Mining Works Programme and understanding of the biophysical, cultural and socio-economic environment will be used to identify impacts and risk. Negative and positive impacts will be assessed for the following components:</p> <p>Flora Fauna Surface and Groundwater Noise and Vibration Soils Visual and topography Socio-economic Heritage Lifestyle and cultural effects on influenced persons in the neighbourhood.</p> <p>Identification of impacts and risks will be more fully assessed in the Social and Labour Plan, the Scoping Report and the EIA / EMP.</p> <p>The process used to identify and assess risks for the project are as follows: For each potential impact, the duration (time scale), extent (spatial scale), irreplaceable loss of resources, reversibility of the potential impacts, magnitude of negative or positive impacts, and the probability of occurrence of potential impacts must be assessed. The assessment of the above criteria will be used to determine the significance of each impact, with and without the implementation of the</p>

	<p>proposed mitigation measures.</p>
<p>Consideration of alternatives Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined.</p>	<p>No planned alternative to proposed mining is envisaged. Should mining not proceed the current agricultural land use will continue. Proposed site layout and opencast mining with concurrent rehabilitation will minimise footprint and impact. Any alternative methodology may have greater impact. Alternatives may be looked at in more detail within the Scoping Report.</p> <p>The only other alternative would be not to continue with the operation.</p> <p>CONSEQUENCE IF NOT PROCEEDING WITH THE OPERATION</p> <p>The operation will make provision for 5 job opportunities. This will be lost if the project does not proceed. Substantial tax benefits to the state and local government will also be lost.</p> <p>The identified reserves will be mined out and backfilled in a planned mining operation. Backfilling will take place with all the overburden and oversize as far as practically possible.</p> <p>Planned, systematic and thorough mechanical reclamation of the mineral resource should take place. The reclamation progress will be indicated on a ongoing plan that will be updated regularly. The area will be visited and any sensitive areas will be identified. The proposed impacts and mitigations will be discussed in detail.</p>
<p>Process to assess and rank impacts Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.</p>	<p>For each potential impact, the duration (time scale), extent (spatial scale), irreplaceable loss of resources, reversibility of the potential impacts, magnitude of negative or positive impacts, and the probability of occurrence of potential impacts must be assessed. The assessment of the above criteria will be used to determine the significance of each impact, with and without the implementation of the proposed mitigation measures</p>
<p>Contribution of specialist reports Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.</p>	<p>Should there be a need for specialist studies their reports will be taken into consideration and findings disclosed to all interested and affected parties.</p> <p>Due to the mining techniques proposed as well as the initial impact identification, studies of surfacewater, ecological and heritage will be the focus of specialist studies.</p> <p>Water studies will provide a baseline study of the geology, hydrology, geochemistry and potential contamination at the proposed site and the impact of proposed mining operations on the Vaal river and existing mining users.</p> <p>Ecological studies will provide more detailed baseline assessments regarding specific plant- and animal species, soil and wetlands, their densities and conservation value. Based on the assessment and where applicable the recommendations from specialist reports, the recording of proposed impact management objectives, and the impact management outcomes for the development for inclusion in the EMPr as well as for inclusion as conditions of authorisation.</p> <p>Heritage Assessments will focus on both paleontological and archaeological significance of the area and assess the cumulative impacts within and around the proposed mine property.</p>

Specialist contributions will be provided in the EIA EMP.

Determination of impact management objectives and outcomes

Describe how impact management objectives will be determined for each activity to address the potential impact at source, and how the impact management outcomes will be aligned with standards

Methodology used in determining and ranking the nature, severity, consequences, extent, duration and probability of potential environmental impacts and risks

The criteria used to assess the significance of the impacts are shown in the table below. The limits were defined in relation to mining characteristics. Those for probability, intensity/severity and significance are subjective, based on rule-of-thumb and experience. Natural and existing mitigation measures were considered. These natural mitigation measures were defined as natural conditions, conditions inherent in the project design and existing management measures, which alleviate impacts. The significance of the impacts was calculated by using the following formula:

$$(Severity + Extent + Duration) \times Probability \text{ weighting}$$

For the impact assessment, the different project activities and associated infrastructure were identified and considered in order to identify and analyse the various possible impacts.

Table 5

SIGNIFICANCE				
Colour Code	Significance rating	Rating	Negative Impact	Positive Impact
	Very low	3 -16	Acceptable/Not serious	Marginally Positive
	Low	17 - 22	Acceptable/Not serious	Marginally Positive
	Medium-Low	23 -33	Acceptable/Not desirable	Moderately Positive
	Medium	34 - 48	Generally undesirable	Beneficial
	Medium-High	49 - 56	Generally unacceptable	Important
	High	57 - 70	Not Acceptable	Important
	Very High	90 - 102	Totally unacceptable	Critically Important

Significance of impacts is defined as follows:

Very Low - Impact would be negligible. Almost no mitigation and/or remedial activity would be needed, and any minor steps which might be needed would be easy, cheap and simple.

Low - Impact would have little real effect. Mitigation and/or remedial activity would be either easily achieved or little would be required or both.

Medium Low- Impact would be real but not substantial within the bounds of those which could occur. Mitigation and/or remedial activity would be both feasible and fairly easily possible.

	<p>Medium - Impact would be real but not substantial within the bounds of those which could occur. Mitigation and/or remedial activity would be feasible and possible.</p> <p>Medium High- Impact would be real but could be substantial within the bounds of those which could occur. Mitigation and/or remedial activity would be both feasible and possible but may be difficult and or costly.</p> <p>High - Impacts of substantial order. Mitigation and/or remedial activity would be feasible but difficult, expensive, time consuming or some combination of these.</p> <p>Very High - Of the highest order possible within the bounds of impacts which could occur. There would be no possible mitigation and/or remedial activity to offset the impact at the spatial or time scale for which was predicted.</p>
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8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMA's				
National Environmental Management: Air Quality Act		X		
National Environmental Management: Biodiversity Act		X		
National Environmental Management: Integrated Coastal Management Act		X		
National Environmental Management: Protected Areas Act		X		
National Environmental Management: Waste Act	X		X	
National Legislation				
Mineral Petroleum Development Resources Act	X		X	
National Water Act	X		X	
National Heritage Resources Act		X		X
Others: Please specify				

Please provide proof of submission of applications in **Appendix 5**.

In the event that an authorisation in terms of the National Environmental Waste Management Act is required for any of the activities applied for please state so clearly in order for such an authorisation to be considered as part of this application.

9.

DRAFT EMPR

For consultation purposes, provide a high level approach to the management of the potential environmental impacts of each of the activities applied for.

<p>ACTIVITIES (E.g. for prospecting – drill site, site camp, ablation facility, accommodation, equipment storage, sample storage, site office, access route, etc. ... etc. ... etc. E.g. for mining – excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablation, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc. ... etc. ... etc.)</p>	<p>PHASE (of operation in which activity will take place) State: Planning and design, Pre-Construction, Operational, Rehabilitation, Closure, Post closure</p>	<p>SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m²)</p>	<p>TYPICAL MITIGATION MEASURES (e.g. storm water control, dust control, noise control, access control, rehabilitation, etc. ... etc.)</p>	<p>COMPLIANCE WITH STANDARDS (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>
<p>•Construction phase: The construction phase will commence upon granting of the Mining Right to start with the construction of the evaporation ponds. This phase is expected to be complete within four months of granting of the Mining Right application.</p>	<p>Pre-Construction and Construction</p>	<p>100 ha The planned mining operation will create the following: 6 ha evaporation ponds for the pumping of brine water to evaporate to reap the salt will be established planning is to have 10 ponds of 100m X 60m As well as 2.275ha for stockpiling with roads boreholes and gensets</p>	<p>Air quality: •To control the incidence of unacceptable levels of dust pollution on site, although dust is not anticipated since this is a wet process. Surface water: •To conserve water; and •To eliminate the contamination of run-off and sources of surface water. Ground water: •To minimise and prevent as far as practically possible the contamination of ground water. Fauna: •To eliminate poaching and the extermination of animal species within the boundaries of the study area, as well as in the surrounding areas. Noise: •To control the incidence of unacceptable noise levels on site. Aesthetics:</p>	<p>The applicant will, for as far as it is reasonably practicable, rehabilitate the environment affected by the proposed mining operation to its natural or a predetermined state or to a land use which conforms to the generally accepted principle of sustainable development.</p>

			<ul style="list-style-type: none"> •To minimise aesthetic disturbance; and •To reduce the visual impact of the proposed mining operation through a process of ongoing reclamation. <p>Soils:</p> <ul style="list-style-type: none"> •To prevent soil pollution; •To limit soil compaction; •To curb soil erosion; <p>Land capability:</p> <ul style="list-style-type: none"> •To minimise the reduction of land capability. <p>Sensitive landscapes:</p> <ul style="list-style-type: none"> •To protect sensitive landscapes from potential negative impacts. <p>Surface environment - waste management:</p> <ul style="list-style-type: none"> •To ensure that the discarding of any waste material produced as a result of the proposed mining operation, including rubble, litter, garbage, rubbish or discards of any description, whether solid or liquid, takes place only at a site or sites demarcated for such purposes. •To prevent waste material from being dumped within the borders or the vicinity of the mining area. <p>Topography:</p> <ul style="list-style-type: none"> •To reduce the visual impact of the evaporation ponds and to keep it neat ; and •To ensure the stability and safety of all evaporation ponds on the mine. 	
Site access	Destruction of flora	5000m ²	<p>Ensure site access routes are adhered to. Signage to be displayed</p>	<input type="checkbox"/> Adherence to applicable legislation. <input type="checkbox"/> No unnecessary loss of

Site access	Soil compaction from use of access roads	5000m ²	Soil management programme	flora. <input type="checkbox"/> No unnecessary loss of soil <input type="checkbox"/> NEMA, Biodiversity Act
Site access	Vehicle traffic noise pollution	5 000m ²	<input type="checkbox"/> Limit activities to normal working hours. <input type="checkbox"/> Servicing of machines and vehicles as necessary. <input type="checkbox"/> Stick to speed limits: 40km	<input type="checkbox"/> Avoid loud unnecessary noise impacts <input type="checkbox"/> No complaints from neighbours <input type="checkbox"/> Adhere to noise limits as stated in Health and Safety Act 1993 and Air Quality Act 2004:Dust Regulations
Site establishment (mining area)	Destruction of flora	<p>The planned mining operation will create the following: 6 ha evaporation ponds for the pumping of brine water to evaporate to reap the salt will be established planning is to have 10 ponds of 100m X 60m</p> <p>As well as 2.275ha for stockpiling with roads boreholes and gensets</p>	<input type="checkbox"/> Only remove what is necessary. <input type="checkbox"/> Demarcation of no-go areas <input type="checkbox"/> Awareness training	<input type="checkbox"/> End use objective to be kept in mind while removing vegetation. <input type="checkbox"/> Adherence to the Biodiversity Act 2004.
Site establishment (mining area)	Surface disturbance (topsoil removal)	<p>The planned mining operation will create the following: 6 ha evaporation ponds for the pumping of brine water to evaporate to reap the salt will be established planning is to have 10 ponds of 100m X 60m</p> <p>As well as 2.275ha for stockpiling with roads</p>	<input type="checkbox"/> Remove topsoil 100-150mm <input type="checkbox"/> Stockpile in designated area <input type="checkbox"/> Ensure no invasive species establish	<input type="checkbox"/> Visual inspection on topsoil (invasive species) <input type="checkbox"/> No wastage of valuable resource. <input type="checkbox"/> Adherence to Alien Invasive Species Regulations 2014.

Site establishment (Mining area)	Dust emission from clearing soil	boreholes and gensets The planned mining operation will create the following: 6 ha evaporation ponds for the pumping of brine water to evaporate to reap the salt will be established planning is to have 10 ponds of 100m X 60m As well as 2.275ha for stockpiling with roads boreholes and gensets	<input type="checkbox"/> Dust suppression to be undertaken when deemed necessary. <input type="checkbox"/> Dust sampling: Personal exposure and dust buckets	<input type="checkbox"/> Avoid dust pollution and complaints from public. <input type="checkbox"/> Remain within the Air Quality Act, 2004 Dust regulations
Mining activities	Surface disturbance	10 evaporation ponds will be constructed of 60 X 100m each as well as roads boreholes and storage areas.	<input type="checkbox"/> Stick with mining layout plan, site layout. <input type="checkbox"/> Monitoring on the Mining Area weekly	<input type="checkbox"/> No mining over allowed boundaries <input type="checkbox"/> Inspection sheet to be completed on the Area <input type="checkbox"/> Adherence to MPRDA and authorisation
Mining activities	Surface disturbance	2.275ha of stockpile areas	Topsoil and overburden will be stockpiled on demarcated sites. Storm water berms will protect stockpiles from erosion. Topsoil will be covered to prevent desiccation and wind loss.	No mining over allowed boundaries. Adherence to MPRDA and authorisation
Stormwater control	Storm water control	10 evaporation ponds will be constructed of 60 X 100m each as well as roads boreholes and storage areas.	Storm water and runoff to be curtailed and diverted into natural drainage	No mining over allowed boundaries. Adherence to MPRDA and authorisation
Mining activities	Potential hydrocarbon spills from machinery and equipment	10 evaporation ponds will be constructed of 60 X 100m each as well as roads boreholes and storage areas.	<input type="checkbox"/> Spills kits and preventative measures to be in place at all times at the mine. <input type="checkbox"/> Proper servicing of equipment and machinery. <input type="checkbox"/> Training and awareness	<input type="checkbox"/> No hydrocarbon spills evident. <input type="checkbox"/> Pollution avoidance <input type="checkbox"/> Training programme
Mining activities	Dust from mining activities	10 evaporation ponds will be constructed of 60 X 100m each as well as	<input type="checkbox"/> Dust suppression to be undertaken. <input type="checkbox"/> Dust monitoring	<input type="checkbox"/> Dust agent used from an approved source <input type="checkbox"/> Remain within the Air

		roads boreholes and storage areas.		Quality Act, 2004 Dust regulations
Mining activities	Possible change drainage patterns in	10 evaporation ponds will be constructed of 60 X 100m each as well as roads boreholes and storage areas.	<input type="checkbox"/> Erosion Management Plan <input type="checkbox"/> Weekly visual inspections	<input type="checkbox"/> No visible erosion
Mining activities	Aesthetics Value	10 evaporation ponds will be constructed of 60 X 100m each as well as roads boreholes and storage areas.	<input type="checkbox"/> Screen off mining activities where necessary	<input type="checkbox"/> Consider and address complaints received from public

10. CLOSURE PLAN

<p>In the space provided under each heading below, please provide a high level description of the plan for closure and the information that will be provided in the draft EMPr accompanying draft basic assessment report or environmental impact reports going forward.</p>	
<p>Baseline environment Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical environment.</p>	<p>The baseline environment will be determined by a site visit, specialist studies (if necessary) and a desktop study. Information will also be obtained should there be any concerns from local communities/ landowners.</p>
<p>Closure objectives Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<ul style="list-style-type: none"> ➤ The main closure objective of the mine is to make sure that the area will be available to the surface owner again as required in the Agreement. ➤ To prevent the sterilization of any ore reserves. ➤ To prevent the establishment of any permanent structures or features. ➤ Establish a stable and self-sustainable area when the operation can not continue. ➤ To limit and rehabilitate any erosion features and prevent any permanent impact to the soil capability of the Area. ➤ To limit and manage the visual impact of the Area. ➤ To safeguard the safety and health of humans and animals on the Area. ➤ The last closure objective is that the Area is closed efficiently, cost effectively and in accordance with government policy.
<p>Rehabilitation Plan Describe the scale and aerial extent of the prospecting or mining listed activities to be authorised, including the anticipated prospecting or mining area at the time of closure, and confirm that a site rehabilitation plan drawn to a suitable scale will be provided in the draft EMPr to be submitted together with the draft EIR or Basic Assessment Report as the case may be.</p>	<ul style="list-style-type: none"> ➤ Infrastructure Areas: <p>On completion of the mining operation, the various surfaces, including the access roads, on the area and the office area, storage areas and the evaporations ponds on the site will finally be rehabilitated as below.</p> <p>All remaining material on the surface will be removed to the original topsoil level. This material will then be backfilled into the depressions. Any compacted area will then be ripped to a depth of 300mm, where possible, the topsoil or growth medium returned and landscaped.</p> <p>All infrastructures, equipment, crushing plant, and other items used during the operational period will be removed as well as equipment.</p> <p>On completion of operations, all buildings, structures or objects will be dealt with in accordance with NEMA and Regulation 44 of the MPRDA, which states:-</p> <p><i>Regulation 44</i></p> <ol style="list-style-type: none"> 1. <i>When a prospecting right, mining right, retention permit or mining permit lapses, is cancelled or is abandoned or when any prospecting or mining operation comes to an end, the holder of such right or permit may not demolish or remove any building, structure or object –</i> <ol style="list-style-type: none"> (a) <i>which may not be demolished or removed in terms of any other law;</i> (b) <i>which has been identified in writing by the Minister for purposes of this section; or</i> (c) <i>which is to be retained in terms of an agreement between the holder and the owner or occupier of the land, which agreement has been approved by the Minister in writing.</i> 2. <i>The provision of subsection (1) does not apply to bona fide mining equipment, which may be removed.</i>

Topsoil and Stockpile Deposits:

Disposal facilities

Waste material of all description inclusive of receptacles, scrap, rubble and tyres will be removed entirely from the Area and disposed of at a recognised landfill facility. It will not be permitted to be buried or burned on the Area.

Ongoing seepage, control of rain water

Monitoring of ground or surface water will take place if required, by the Department of Water and Sanitation – Kimberley.

Long term stability and safety

It will be the objective of the Mine to ensure the long term stability of all rehabilitated areas including the backfilled depressions. This will be done by the monitoring of all areas until a closure certificate has been issued.

Final rehabilitation in respect of erosion and dust control

Self-sustaining areas will result in the control of erosion and dust and no further rehabilitation is planned.

Rehabilitation of depressions

Due to the establishment of the evaporation ponds numerous dams/ponds could be created. All available material will be used during backfilling to avoid the existence of depressions.

Final rehabilitation roads

After rehabilitation has been completed, all roads will be ripped or ploughed, fertilized and seeded, providing the landowner does not want them to remain that way and with written approval from the Director Mineral Development of the Department of Mineral Resources.

Submission of information

Reports on rehabilitation and monitoring will be submitted to the Department of Mineral Resources – Kimberley, as required under the Financial Provision Regulations published under NEMA (Government Notice R1147 in *Government Gazette* 39425 of 20 November 2015) (the "**Financial Provision Regulations**").

Maintenance (Aftercare)

Maintenance after closure will mainly concern the regular inspection and monitoring and/or completion of the rehabilitation programme.

The aim of this Environmental Management Plan is for rehabilitation to be stable and self-sufficient, so that the least possible aftercare is required.

The aim with the closure of the mine will be to create an acceptable post-mine environment and land-use. Therefore all agreed commitments will be implemented by Mine Management.

➤ **After-effects following closure:**

Acid mine drainage

No potential for bad quality leachate or acid mine drainage development exist after mine closure.

Long term impact on groundwater

No after effect on the groundwater yield or quality is expected.

	<p>Long-term stability of rehabilitated land</p> <p>One of the main aims of any rehabilitated ground will be to obtain a self-sustaining and stable end result. Cleaning of all salt material concurrently and replacing of topsoil where available.</p>
<p>Rehabilitation Cost</p> <p>Describe how the rehabilitation cost will be determined and provide a preliminary estimated thereof.</p>	<p>The quantum for annual rehabilitation, closure and final rehabilitation will be determined in accordance with the Financial Provision Regulations.</p>
<p>Decommissioning</p> <p>Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting or mining activity.</p>	<p>The last phase of the proposed mining operation, namely the decommissioning, closure phase and final rehabilitation, will consist mainly of the following activities:</p> <ul style="list-style-type: none"> •The removal of waste material of any description from the Areas and the disposal thereof at a recognised landfill facility. •The removal of infrastructure, equipment, plant and other items. •The ripping of compacted areas to a level of 300 mm and the levelling of such areas in order to re-establish a growth medium for plants. •The sloping and levelling of all evaporation ponds with overburden and with subsoil and the covering thereof with previously stored topsoil.



Signature of the applicant/Signature on behalf of the applicant:

Wadala Mining and Consulting (Pty) Ltd

Name of company (if applicable):

Date: 28 June 2018

**APPENDIX 4
DECLARATION OF THE EAP**

I, **RH Oosthuizen**, declare that –

General declaration:

- I act as the independent environmental practitioner in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing – any decision to be taken with respect to the application by the competent authority; and – the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not;
- All the particulars furnished by me in this form are true and correct;
- Will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 71 of the Regulations and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;



**RH OOSTHUIZEN
WADALA MINING AND CONSULTING
DATE: 28/06/2018**

APPENDIX 1

CURRICULUM VITAE – RH OOSTHUIZEN

PERSONAL DETAILS

FULL NAMES AND SURNAME : **Roelina Henriëtte Oosthuizen**

DATE OF BIRTH : **18 April 1970**

I.D. NO : **700418 0037 08 2**

MARITAL STATUS : **Married**

CITIZENSHIP : **Republic of South Africa**

RESIDENTIAL ADDRESS : **Farm Oberon
Kimberley**

POSTAL ADDRESS : **P.O. Box 110823
Hadisonpark
8306**

E-MAIL ADDRESS : **roosthuizen950@gmail .com**

CEL NO : **084 208 9088**

DRIVER'S LICENCE : **EB**

LANGUAGES : **Afrikaans (home language); English**

QUALIFICATIONS

2000 **UNIVERSITY OF THE ORANGE FREE STATE**
Qualification: Master in Environmental Management.

1991 **NORTH WEST UNIVERSITY**
Qualification: B – Comm: Industrial psychology.

1988 **BRITSHIGH SCHOOL (BRITS)**
Qualification: Matric

COURSES and Conferences ATTENDED

I have attended various mining and environmental conferences and seminars to stay abreast with the latest changes in legislation, legal compliance and policy positions in the sector.

August 1994	Junior Managers (Public Service Training Institute)
November 1994	Mineral Laws Administration (Public Service Training Institute)
October 1997	Mineral Laws Administration & Environmental Management (University of Pretoria)
July 2002	Project Management for Environmental Systems (University of the Orange Free State)
August 2004	Environmental and Sustainability in Mining Minerals and Energy Education and Training Institute (MEETI)
September 2005	Converting Old Order Rights to New Order Rights in Mining (International Quality & Productivity Centre Johannesburg)
November 2006	Mine waste disposal and Achievement of Mine Closure
February 2007	Introduction to ArcGis 1
April 2010	Mining Law Update Conference (IIR BV South Africa)
November 2010	Social Labour Plans for Mining Workshop (Melrose Training)
August 2011	Mineral Resources Compliance and Reporting (ITC)
May 2012	Enviro Mining Conference 2012 (Sustainability and Rehabilitation) (Spectacular Training Conferences)
August 2012	Mineral Resources Compliance and Reporting 4 th Annual (ITC)
March 2013	1st Enviro Mining-Ensuring Environmental Compliance and reporting
March 2014	4 th Annual Enviro Mining Conference
March 2015	5 th Annual Enviro Mining Conference

CAREER HISTORY

Wadala Mining and Consulting (Pty) Ltd:

ADDRESS : Farm Oberon
Kimberley
8301

PERIOD OF EMPLOYMENT : 01 August 2013 - Part time

POSITION HELD : Mineral Law Administration and Environmental
Manager

Diacor Closed Corporation:

ADDRESS : 6 Mullin Street
Hadisonpark
Kimberley
8306

PERIOD OF EMPLOYMENT : 01 October 2013 – Present and part time consultancy
work

POSITION HELD : Mineral Law Administration and Environmental
Manager

Mentor Trading and Investments 52 (Pty) Ltd:

ADDRESS : 2 Kekewich Drive
Monridge Office Park no 6
Monument Heights
Kimberley
8301

PERIOD OF EMPLOYMENT : 01 October 2012 – 01 October 2013

POSITION HELD : Mineral Law Administration and Environmental
Manager

Rockwell Diamonds Inc:

ADDRESS : PO Box 251
BARKLY-WES
8375

PERIOD OF EMPLOYMENT : 01 March 2005 – 30 September 2012

POSITION HELD : **Mineral Law Administration and Environmental Manager**

- MAIN JOB FUNCTIONS**
- Collect analyse and interpret information regarding the measurement of impacts of mining operations on the environment, the rehabilitation of land surfaces.
 - The prevention, control and combating of pollution.
 - Co-ordinate, investigate, audit and resolve environmental problems in conjunction with the Department of Water and Sanitation, Department of Agriculture and the provincial Department of Tourism, Environment and Conservation.
 - Address complaints and inquiries received from the public and mining industry.
 - Consult with relevant authorities and interested and affected people regarding the approval of Environmental Management Programmes.
 - Ensuring that rehabilitation standards are applied.
 - Ensuring that the requirements stated in Environmental Management Programme Reports are adhered to.
 - Evaluate Mining Rights and Prospecting Right applications and recommend site-specific conditions according to legislative requirements.
 - Constant liaison with the public, the mining industry and other government authorities on Environmental matters, legislation and agreements.
 - Calculate and verify financial provision for outstanding rehabilitation.

DEPT OF MINERALS & ENERGY:

ADDRESS : 43 Chapel Street
Standard Bank Building
KIMBERLEY

PERIOD OF EMPLOYMENT : 01 April 1997 to 01 March 2005

POSITION HELD : **Senior Environmentalist - Assistant Director Environment**

- MAIN JOB FUNCTIONS** :
- Collect analyse and interpret information regarding the measurement of impacts of mining operations on the environment, the rehabilitation of land surfaces.
 - The prevention, control and combating of pollution.
 - Co-ordinate and prioritise the rehabilitation of derelict and ownerless mines.

- Co-ordinate, investigate, audit and resolve environmental problems in conjunction with the Department of Water Affairs and Forestry, Department of Agriculture and the provincial Department of Tourism, Environment and Conservation.
- Address complaints and inquiries received from the public and mining industry.
- Consult with relevant authorities and interested and affected people regarding the approval of Environmental Management Programmes.
- Ensuring that rehabilitation standards are applied.
- Ensuring that the requirements stated in Environmental Management Programme Reports are adhered to.
- Conduct inspections and recommendations on mines that apply for closure.
- Evaluate mining licences and prospecting applications and recommend site-specific conditions according to legislative requirements.
- Constant liaison with the public, the mining industry and other government authorities on environmental matters, legislation and agreements.
- Influence new development processes through participation in the EMPR and EIA processes and give guidance through education and awareness programmes.
- Calculate and verify financial provision for outstanding rehabilitation.

DEPT. OF MINERALS AND ENERGY:

POSITION HELD : Assistant Mineral Laws Officer – Senior Mineral Laws Officer

PERIOD OF EMPLOYMENT : 01 November 1993 – March 1997

ADVISORY COMMISSION ON LAND ALLOCATION

POSITION HELD : Assistant Administrative Officer

PERIOD OF EMPLOYMENT : 10 February 1992 – October 1993

Experience Projects Completed

I am a dedicated professional Mineral Law Administration and Environmental Manager with 23 years extensive experience in the managing and mitigating of specifically mining related impacts. I

started my career in 1993 in the Department of Minerals and Energy where I have done Environmental inspections with site visits on all mines in the Northern Cape. I have done Environmental Audits on operational and closed mining sites in collaboration with other Departments. I have also specifically looked at pollution control measures on mining sites and the effectiveness of these measures. I have evaluated submitted EIA /EMP documents and have worked closely with all other Departments and stakeholders to make sure that all environmental aspects have been dealt with adequately in submitted documents. I left the Department for the Private Sector in 2005. I have since worked for a Canadian Group of Companies in the Private Sector, started a consultancy where I provide various mining companies with professional advice and guidance on Mineral Law and Environmental Issues. I have also represented the South African Diamond Producers Organisation (SADPO) on the Environmental Policy Committee (EPC) at the Chamber of Mines between 2005 and 2011.

2005

Environmental Management Plan with an application for a Prospecting Right for diamonds on Portion 9 and 14 of the farm Lanyon Vale 376, Hay in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)

EMPlan was approved in August 2007 with the Prospecting Right

Client: HC van Wyk Diamonds Ltd

Environmental Management Plan with an application for a Prospecting Right for diamonds on Remainder of Portion 18 (a portion of Portion 10) of the farm Lanyon Vale 376, Hay in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)

EMPlan was approved in August 2007 with the Prospecting Right

Client: HC van Wyk Diamonds Ltd

Environmental Management Plan with an application for a Prospecting Right for diamonds on Remainder of Portion 1, Portion 2 (a Portion of Portion 1), Portion 3 and Portion 5 of the farm Zweet Fontein nr 76 and Remainder of Portion 1 and portion 3 of the farm Blaaubosch Drift nr 78, Herbert in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)

EMPlan was approved in August 2007 with the Prospecting Right

Client: HC van Wyk Diamonds Ltd

2006

Environmental Management Plan with an application for a Prospecting Right for Tin in Kakamas South Settlement, Kakamas in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)

EMPlan was approved in June 2011 with the Prospecting Right

Client: Douglas Mining and Exploration (Pty) Ltd

2007

Environmental Management Plan with an application for a Prospecting Right for diamonds on the Remaining Extent, Portion 1 and Portion 2 of Diamond Valley 29, Hopetown in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)

**EMPlan was approved in April 2008 with the Prospecting Right
Client: HC van Wyk Diamonds Ltd**

2008

**Environmental Management Plan with an application for a Prospecting Right for diamonds on Portion 12, 13, 16, 24 & 25 Saxendrift 20 in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)
EMPlan was approved in June 2008 with the Prospecting Right
Client : HC van Wyk Diamonds Ltd**

**Environmental Management Plan with an application for a Prospecting Right for diamonds on Erf 1 Windsorton, Barkly-Wes in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)
EMPlan was approved in February 2009 with the Prospecting Right
Client: HC van Wyk Diamonds Ltd**

2009

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME
SUBMITTED FOR AN APPLICATION FOR A MINING RIGHT CONVERSION IN TERMS OF SECTION 39
& OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) for Wouterspan Mine (The Farm Lanyon Vale 376, Hay)
EIA/EMP approved on 25/01/2010
Client: HC van Wyk Diamonds Ltd**

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME
SUBMITTED FOR AN APPLICATION FOR A MINING RIGHT CONVERSION IN TERMS OF SECTION 39
& OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) for GW Ziegler on Remainder, Remainder of portion 1 (Amantia) and portion 2 (a portion of portion 1) of the farm Rietputs no. 15 and portion 1 (Spenceskop) of the farm Waterval no.14 in the district of Kimberley
EIA/EMP approved with conversion of the Mining Right
Client: GW Ziegler**

2010

Basic Assessment Application

**Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2006
PROPOSED EXTENTION OF A ROOF OVER AN EXCISTING DECK WITH TWO WOOD PILLARS BY MEANS OF THE EXCAVATING OF 0.5m X 0.5m X 1m X 2 (½m²) OF SOIL WITHIN 100M OF THE HIGH WATER MARK OF THE SEA**

Falls within general notes under activities that requires basic assessment

Positive Record of Decision (ROD) Granted.

Client: Dr. Petrus van der Walt Vermeulen

REVISION OF ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A MINING RIGHT CONVERSIONS IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) for HC VAN WYK DIAMONDS LTD (204 MRC) ON REMAINING EXTENT OF HOLPAN 161, BARKLY-WES AND KLIPDAM DIAMOND MINING CO (003MRC) ON REMAINING EXTENT OF KLIPDAM 157, BARKLY-WES

Client: HC van Wyk Diamonds Ltd and Klipdam Diamond Mining Company Ltd

2011

APPLICATION FOR A LICENCE REGARDING PROTECTED TREES [SECTION 15(1) OF THE NATIONAL FORESTS ACT, 1998, AS AMENDED] on PORTION 1 (PAARDE PAN) OF THE FARM ANNEX SAXES DRIFT 21, HOPETOWN, NORTHERN CAPE for 14 Shephards tree (Boscia albitunca)

Licence issued on 24 September 2011

Client : Saxendrift Mine Pty Ltd

ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A MINING RIGHT CONVERSION IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) on Portion 2 of the farm Good Hope 286, Barkly-Wes

EIA/EMP approved February 2013 by the Regional Manager

Client: Diacor CC

APPLICATION FOR CLOSURE CERTIFICATE [in terms of sections 43(3) of the Minerals and Petroleum Resources Development Act, 2002 (Act No 28 of 2002)] AND A CLOSURE PLAN FOR MINING ACTIVITIES PERFORMED BY HC VAN WYK DIAMONDS LTD ON THE REMAINING EXTENT OF PORTION 1 (WILLOWBANK), PORTION 2 (A PORTION OF PORTION 1) (WILLOWBANK), PORTION 3 (A PORTION OF PORTION 1) (WILLOWBANK) OF KHOSOPSKRAAL 227 AND PORTION 5 (ROSCOMMON) AND PORTION 2 (BORDON) OF HARRISDALE 226 AND FARM 362, BARKLY-WES CLOSURE WAS GRANTED IN JULY 2010

Client: HC VAN WYK DIAMONDS LTD

2012

APPLICATION FOR A LICENCE REGARDING PROTECTED TREES [SECTION 15(1) OF THE NATIONAL FORESTS ACT, 1998, AS AMENDED] on PORTION 1 OF THE FARM BRAKFRONTEIN 276, HOPETOWN NORTHERN CAPE for 4Shephards tree (Boscia albitunca)

Licence NCU 2831112 issued in November 2012

Client: Jasper Mining Pty Ltd

2013

APPLICATION FOR A LICENCE REGARDING PROTECTED TREES [SECTION 15(1) OF THE NATIONAL FORESTS ACT, 1998, AS AMENDED] ON REMAINDER OF THE FARM NIEWEJAARSKRAAL NO 40, PRIESKA, NORTHERN CAPE. 30 SHEPPHARD'S TREES

Licence NCU 4290214 issued in February 2014

Client: Saxendrift Mine (Pty) Ltd (Niewejaarskraal Mine)

**AMENDMENT OF ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR A SECTION 11 APPLICATION OF A MINING RIGHT CONVERSION IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) on The Farm Riets Drift no. 18, district
Client: Bo-Karoo Diamond Mining (Pty) Ltd to be ceded to Bondeo 140 CC.**

2014

**Application for a Water Users Licence Application in terms of Section 27 of the National Water Act no 36 of 1998 on the Farm Engelde Wilgeboomfontein 22, Prieska
Application still under review
Client: Thunderflex 78 (Pty) Ltd**

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A MINING RIGHT CONVERSION IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) on Portion 1 of the farm Brakfontein 276 district of Hopetown
EIA/EMP approved April 2015 by the Regional Manager
Client: Jasper Mining (Pty) Ltd**

**Environmental Management Plan with an application for a Prospecting Right for diamonds on REMAINING EXTENT OF THE FARM MARKSDRIFT 3, HOPETOWN in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)
EMPlan was approved in April 2015 with the Prospecting Right
Client: BONDEO 140 CC**

2015

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A PROSPECTING RIGHT IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) on Portion 1 of the farm Speculatie 217 district of Boshof
EIA/EMP has been accepted by the Regional Manager Free State Region
Client: Thaba Thafita Diamond Prospecting CC**

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A PROSPECTING RIGHT IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) on a Portion of Erf 1318, Galeshewe , and a Portion of the Remainder Erf 5336, Kimberley
EIA/EMP still under review by the Regional Manager Northern Cape Region
Client: Mystic Pearl 157 (Pty) Ltd**

2016

**ANNUAL REHABILITATION PLAN for Associated Manganese Mines of South Africa Ltd
Glosam Prospecting Area
February 2016**

REFERENCES

WG (Bill) Bartholomew
PO Box 10034
OUDTSHOORN
6620
Tel: +27(0)44 272 3054
Mobile: +27(0)84 466 4411
Fax: +27(0)86 608 8411
email: bartholomew@telkomsa.net

Hennie van Wyk
Member : Diacor CC
Mobile: +27(0)828201879
Email : hennie@goodhopereserve.co.za

Name of the Practitioner: Dr Elizabeth (Betsie) Milne
Tel No.: 082 992 1261
Fax No.: N/A (No fax)
E-mail address: betsiemilne@gmail.com



The End

DIE UNIVERSITEIT
VAN DIE ORANJE-
VRYSTAAT



THE UNIVERSITY
OF THE ORANGE
FREE STATE

HIERMEE WORD VERKLAAR DAT DIE GRAAD THIS IS TO CERTIFY THAT THE DEGREE

Magister in Omgewingsbestuur
Master in Environmental Management

TOEGEKEN IS AAN
HAS BEEN CONFERRED UPON

ROELINA HENRIËTTE OOSTHUIZEN

NADAT AAN DIE STATUTE EN REGULASIES VAN IN ACCORDANCE WITH THE STATUTES AND
DIE UNIVERSITEIT VOLDOEN IS. AS BEWYS REGULATIONS OF THE UNIVERSITY. AS
DAARVAN PLAAS ONS ONS ONDERSKEIE WITNESS OUR RESPECTIVE SIGNA-
HANDTEKENINGE EN DIE SEËL VAN DIE TURES AND THE SEAL OF THE
UNIVERSITEIT HIERONDER. UNIVERSITY BELOW.



A-J Boetse

.....
VISEKANSIELIER/VICE-CHANCELLOR

G. Naan Wyk

.....
DEKAAN/DEAN

[Signature]

.....
REGISTRATEUR/REGISTRAR

.....
BI OORAFNEEMING
2000 09 16

APPENDIX 2

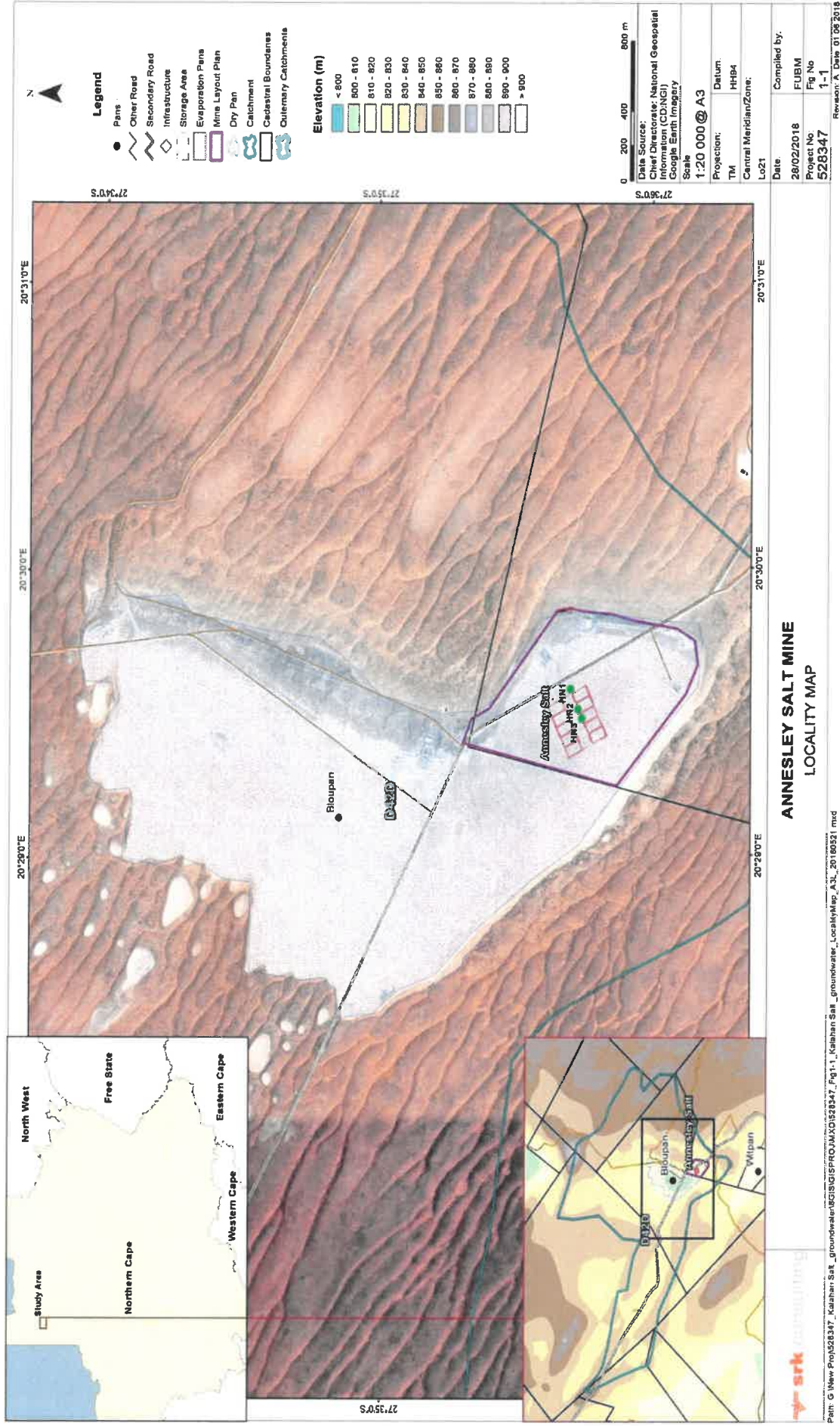


Figure 1: Map application area 1 -1:20 000.

ANNESLEY SALT (PTY) LTD 2018/043432/02

Dawid Kruijer Municipality
Administrative District Gordonia
Province Northern Cape

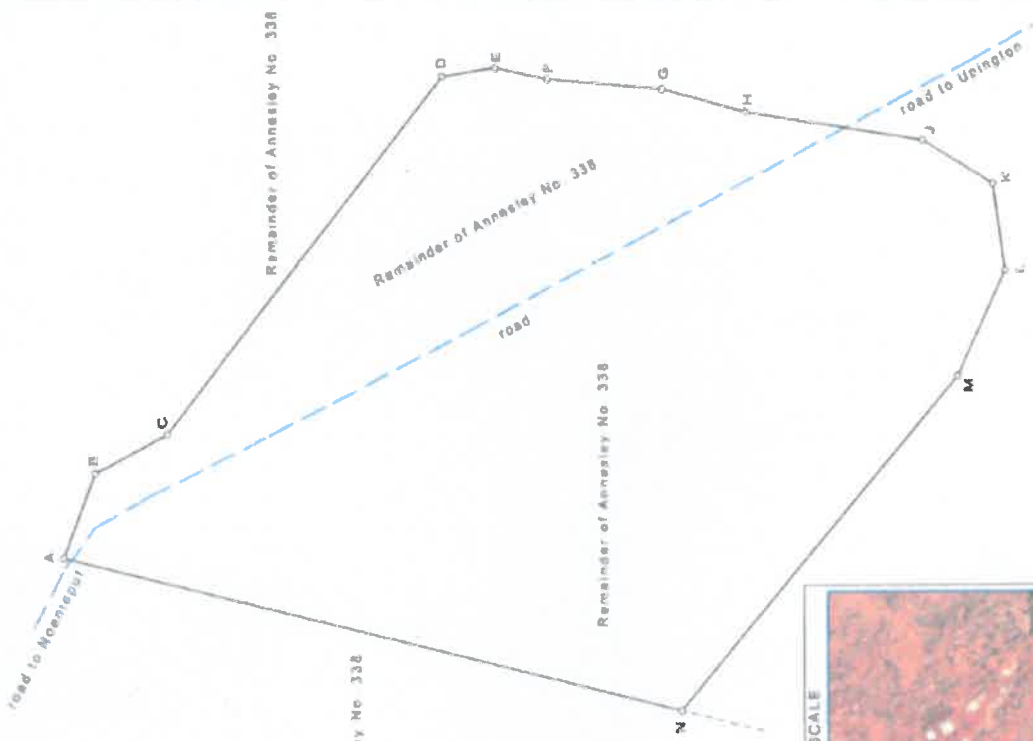
PLAN PREPARED IN ACCORDANCE WITH
REGULATION 42 OF THE REGULATIONS
PUBLISHED
UNDER THE MINING TITLES REGISTRATION ACT
(ACT 16 OF 1967)

DESCRIPTION OF LAND UNDER
APPLICATION FOR A MINING RIGHT

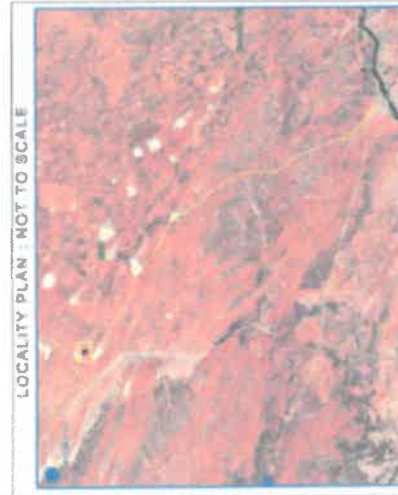
The figure
A B C D E F G H J K L M N
represents 100,349,1 hectares
of land being
A portion of the Remainder of the Farm
Annesley No. 338

WITH REGARD TO A MINING RIGHT IN
TERMS OF THE MPRD (ACT 28 OF 2002)

SCALE: 1:1400000



Pin 1 of Annesley No. 338



	Y	CO-ORDINATES	X
A	+50 368,50	+3 052 931,08	
B	+50 231,71	+3 052 989,98	
C	+50 170,98	+3 053 106,23	
D	+48 606,70	+3 053 571,10	
E	+48 893,17	+3 053 762,57	
F	+48 827,01	+3 053 643,29	
G	+48 653,43	+3 054 084,48	
H	+48 709,12	+3 054 381,08	
J	+48 778,44	+3 054 500,82	
K	+48 915,33	+3 054 521,49	
L	+50 082,47	+3 054 440,19	
M	+50 610,29	+3 055 874,03	

PLAN APPROVED
REGIONAL MANAGER NORTHERN CAPE

DATE
NAME OF APPLICANT: **ANNESLEY SALT (PTY) LTD**

SIGNED: *[Signature]*

DATE: **15-6-2018**

COMPILED BY: **H G van Zyl (PLS0807)**

SIGNED: *[Signature]*

DATE: **2018-05-09**

LUTZ & VAN ZYL LAND SURVEYORS
P. O. Box 515
Uisington
8600

Tel: 054-3324555
Fax: 0866 728 753
E-Mail: landmeters@vodemail.co.za

Figure 2: Map application area 2 - 1:1400000 Topographical map insert – indicating the application area.

APPENDIX 4

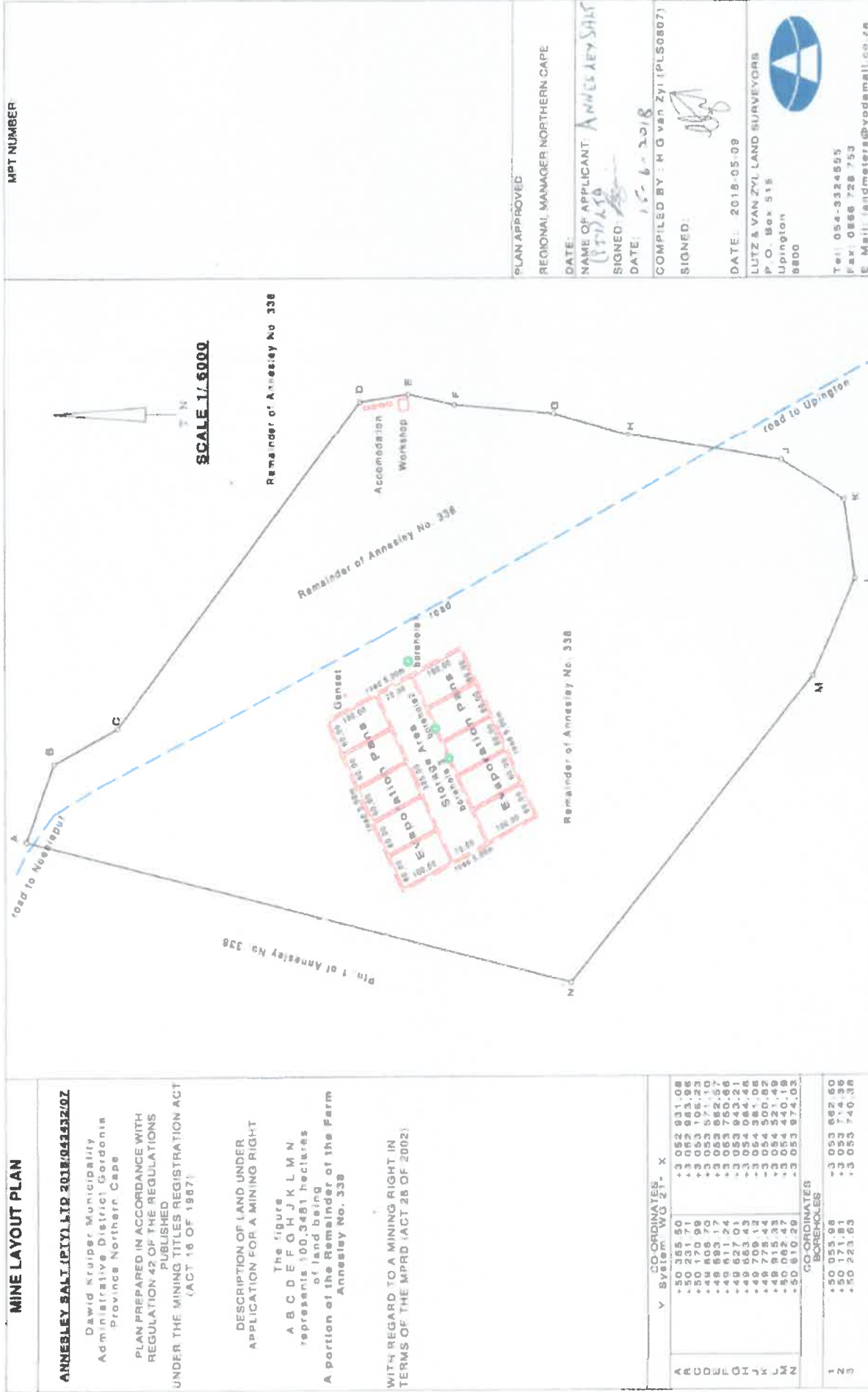


Figure 4: Mine Infrastructure Plan

