

D2.7.2 Solid waste

Solid waste includes all construction waste (cement bags, old cement, tags, wrapping materials, timber, cans, wire, nails, etc.) and surplus food, food packaging, organic waste, etc. The Contractor shall be responsible for the establishment of a solid waste control and removal system that is acceptable to the RE and ECO in order to prevent the spread of waste in, and beyond, the construction site. Wherever possible, an integrated waste management approach shall be used, based on the principles of waste minimisation, reduction, reuse and recycling of materials. Containers for glass, paper, metals and plastics shall be provided. The construction camp area(s) are particularly suited for this purpose.

The Contractor shall provide vermin and weatherproof bins (with lids) of sufficient number and capacity to store solid waste produced on a daily basis. The lids shall be kept firmly on the bins at all times. Bins are to be located outside floodplains and/or drainage lines, with waste to be removed from the waste bins weekly, or as required, for disposal. The Contractor shall ensure that the borrowpit is cleaned up on a daily basis. The general cleanliness of the site shall form part of the RE's and ECO's inspections.

All solid waste at the construction camp shall be temporarily stored in a demarcated area, which meets the satisfaction of the RE. All solid waste shall be disposed of off site at an approved landfill site. The stockpiling of construction rubble, cut vegetation or other material shall only be permitted in areas indicated by the ECO.

No waste material or litter shall be burnt or buried on site.

MS4: The Contractor shall submit a Method Statement detailing a solid waste control system (storage, provision of bins, site clean-up schedule, bin clean-out schedule, etc.).

D2.7.3 Wastewater

The Contractor shall prevent pollution of surface or groundwater from the release, accidental or otherwise of contaminated water (including contamination with chemicals, oils, fuels, cement, sewage, construction water, water carrying products, etc.) as a result of construction activities.

The Contractor shall be responsible for the construction and operation of necessary collection facilities in order to prevent such pollution and/or settlement of suspended matter, and shall dispose of the collected waste as approved by the RE. Water from any kitchen, showers, laboratories, sinks, etc. shall be discharged into a conservancy tank for removal from the site.

The Contractor shall ensure that water runoff from fuel depots, workshops, truck washing areas and concrete swills passes through a oil separation/settlement system before being released or alternatively is directed into a conservancy tank for disposal at a site approved by the ECO and local authority.

Temporary stormwater drainage and detention from the works shall be designed in collaboration with the RE and ECO.

No wastewater shall be disposed of directly into any surface water bodies.

MS5: The Contractor shall submit a Method Statement detailing how wastewater would be collected from all wastewater generating areas, as well as storage and disposal methods to the RE and ECO.

D2.8 EROSION AND SEDIMENTATION CONTROL

The Contractor shall, as an ongoing exercise, provide sedimentation and erosion control measures to the satisfaction of the RE and ECO. The Contractor shall protect areas susceptible to erosion by installing necessary temporary and permanent drainage works as soon as possible and by taking other measures necessary to prevent the surface water from being concentrated in streams and from scouring slopes.

Any runnels or erosion channels developed during the borrowpit operations period shall be backfilled and compacted, and the areas restored to a proper condition. Stabilisation of cleared areas to prevent and control erosion and/or sedimentation shall be actively managed. The method of stabilisation shall be determined in consultation with the RE and ECO.

The EO shall demarcate stabilised areas with painted stakes or hazard tape. Traffic and movement over stabilised areas shall be restricted and controlled by the EO, and damage to stabilised areas shall be repaired and maintained by the Contractor to the satisfaction of the RE and ECO.

During borrowpit activities the Contractor shall implement measures to prevent the migration of material (fines) from the works into drainage lines and stormwater and sewage systems. This may include the use of a cut-off trench, straw bales or geofabric siltation barriers constructed across the site at specific points.

In areas where borrowpit activities have been completed and where no further disturbance would take place, rehabilitation and revegetation should commence as soon as possible.

MS6: Method Statements shall be developed and submitted to the RE and ECO to deal with erosion and sedimentation issues.

D2.9 DRAINAGE

The Contractor shall shape the borrowpit floors in accordance with the borrowpit layout plans to ensure that water does not accumulate within the borrowpits.

D2.10 PROTECTION OF NATURAL FEATURES, FLORA AND FAUNA

D2.10.1 Protection of natural features

The Contractor shall not deface, paint, damage or mark any natural features situated in or around the site for survey or other purposes unless agreed beforehand with the RE. Any features affected by the Contractor in contravention of this clause shall be restored/rehabilitated to the satisfaction of the RE and ECO.

No river boulders/rock shall be removed from the river without the Contractor first submitting a Method Statement. Only stones from dry cobble beds may be removed.

D2.10.2 Protection of flora and fauna

The removal, damage or disturbance of flora, fauna or avifauna is forbidden outside the immediate construction area without the written approval of the RE. The clearing of vegetation shall be undertaken as specified in Section D2.3.1.

The Contractor shall ensure that no hunting, trapping, shooting, poisoning or otherwise disturbance of any fauna takes place. The feeding of any wild animals is prohibited. No domestic pets or livestock are permitted on site.

The use of herbicides and pesticides is prohibited unless approved by the RE.

Land disturbed during borrowpit development shall be rehabilitated as described in Section D3.

D2.11 FIRE CONTROL

No open fires shall be allowed on site for the purpose of cooking or warmth. *Bona fide* braai fires (such braai fires shall be limited to the traditional "week or month end" braais and not individual daily cooking fires) may be lit within the construction camp.

The Contractor shall take all reasonable steps to prevent the accidental occurrence or spread of fire. The Contractor shall appoint a fire officer who shall be responsible for ensuring immediate and appropriate action in the event of a fire. The Contractor shall ensure that all site personnel are aware of the procedure to be followed in the event of a fire.

The Contractor shall ensure that there is basic fire-fighting equipment on site at all times. This equipment shall include fire extinguishers and beaters. The Contractor shall pay the costs incurred by organisations called to put out fires started by himself/herself, his/her staff or any sub-contractor. The Contractor shall also pay the costs incurred to reinstate burnt areas as deemed necessary by the RE.

Any work that requires the use of fire may only take place at that designated area and as approved by the RE. Fire-fighting equipment shall be available in these areas.

The Contractor shall ensure that the telephone numbers of the local Fire and Emergency Service are displayed at the site offices.

The Contractor shall ensure compliance with the requirements of the Veld and Forest Fires Act (Act 101 of 1998) in terms of establishing a Fire Protection Association with immediate and adjacent landowners.

In order to reduce the risk of fires, smoking is not allowed on site, other than at designated smoking points where the fire risk is considered to be acceptably low.

MS7: Prior to the commencement of construction activities, the Contractor is to ascertain the fire requirements of the local authority and must submit a fire contingency plan Method Statement to the RE.

D2.12 DUST CONTROL

The Contractor shall ensure that the generation of dust is minimised and shall implement a dust control programme to maintain a safe working environment, minimise nuisance for surrounding agricultural activities, residential areas/dwellings, etc. The Contractor shall take all reasonable measures to minimize the generation of dust as a result of construction activities. Appropriate dust suppression measures, to the satisfaction of the RE, shall be used when dust generation is unavoidable, particularly during prolonged periods of dry weather. Such measures shall also include the use of temporary stabilising measures (e.g. chemical soil binders, straw, brush packs, chipping etc.).

The Contractor shall ensure that exposed areas and material stockpiles are adequately protected against erosion (whether by wind or water). A water tanker shall be continuously available for the control of dust while other options such as covering of material stockpiles should be considered. The location of stockpiles shall take into consideration the prevailing wind directions and locations of sensitive receptors.

Material loads shall be suitably covered and secured during transportation. Construction vehicles shall comply with speed limits and haul distances shall be minimised.

Vegetation clearing shall take place in a phased manner in order to retain vegetation cover for as long as possible in order to reduce the size of areas where dust can be generated by wind.

D2.13 NOISE AND HOURS OF OPERATION

The Contractor shall be familiar with and adhere to, any local by-laws and regulations regarding the generation of noise and hours of operation. In addition, the provisions of SABS 1200A Subclause 4.1 regarding "built-up areas" shall apply to all areas within audible distance of residents whether in urban, peri-urban or rural areas.

The Contractor may not work outside of "normal working hours" without prior approval of the Engineer. The Contractor shall negotiate for any permits requiring deviation from local by-laws and/or regulations with the local authority. However, the Contractor shall advise the RE and ECO in writing of such intention prior to negotiating for these permits. The Contractor shall be held responsible for any complaints received from the authority and/or public with respect to any contravention of the agreed conditions.

D2.14 ACCESS ONTO PRIVATE PROPERTY

The Contractor shall contact and notify the landowner(s) prior to undertaking any construction activities on his/her property as per the defined works.

D2.15 SECURITY IN ADJACENT PRIVATE PROPERTIES

The Contractor shall ensure that his/her staff does not enter private properties adjacent to the construction site under any circumstances except on official business.

D2.16 STOCKPILES

The Contractor shall plan his activities so that materials excavated from borrowpits and cuttings, in so far as possible, can be transported direct to and placed at the point where it is to be used. However, should temporary stockpiling become necessary, the areas for the stockpiling of excavated and imported material shall be indicated and demarcated on the site plan submitted in writing to the RE for approval, together with the Contractor's proposed measures for prevention, containment and rehabilitation against environmental damage. No material of any description shall be stockpiled in any wetland area.

The areas chosen shall have no naturally occurring indigenous trees and shrubs present that may be damaged during operations. Care shall be taken to preserve all vegetation in the immediate area of these temporary stockpiles. During the life of the stockpiles the contractor shall at all times ensure that they are:

- (1) Positioned and sloped to create the least visual impact;

- (2) Constructed and maintained so as to avoid erosion of the material and contamination of surrounding environment; and
- (3) Kept free from all alien/undesirable vegetation.

After the stockpiled material has been removed, the site shall be re-instated to its original condition. No foreign material generated/deposited during construction shall remain on site. Areas affected by stockpiling shall be landscaped, top-soiled, grassed and maintained until clearance from the Engineer and the relevant authority is received.

In all cases, the RE shall approve the areas for stockpiling and disposal of construction rubble before any operation commences and shall approve their closure only when they have been satisfactorily rehabilitated.

D2.17 TRAFFIC ACCOMMODATION

The EO may also act as a Traffic Safety Officer (TSO). The TSO shall be required to ensure that borrowpit activities do not obstruct traffic and that adequate traffic accommodation measures are put in place. Warning signs and traffic control notifications shall be displayed well in advance on either side of the borrowpit activities. In general, the TSO shall ensure that regular road users are not unreasonably delayed due to borrowpit activities.

The TSO shall make adequate provision to accommodate cyclists and pedestrian traffic where appropriate.

D2.18 VISUAL ASPECTS

The exposure of bare soil through the removal of vegetation prior to mining shall be restricted to those areas required for access roads and the establishment of the borrowpits. Rehabilitation shall take place as soon as possible after mining is completed. Land disturbed by construction activities shall be rehabilitated as described in Section D3.

D2.19 REGIONAL SOCIO-ECONOMIC ASPECTS

To ensure that previously disadvantaged individuals benefit from the proposed project during the construction phase local Black Enterprise (BE) service providers and local labour from the surrounding community should be employed as far as possible.

Those successful in obtaining employment should be provided with the appropriate training.

D3 DECOMMISSIONING PHASE

D3.1 CLOSURE OBJECTIVES

The objectives during decommissioning of the borrowpit are to restore disturbed areas as closely to their original state (whether natural or agricultural) as possible through rehabilitation.

D3.2 INFRASTRUCTURE AREAS

On completion of the project, the Contractor shall ensure that all structures, equipment, materials, waste, rubble, notice boards and temporary fences used during the construction operation are removed with minimum damage to the surrounding area. The Contractor shall clean and clear the site to the satisfaction of the RE.

All waste is to be disposed of at a licensed waste disposal site. In the case of accidental spills of oil or chemicals in the borrowpit area, the affected soil shall be dug out and removed from site for disposal at a hazardous waste site and replaced with fresh topsoil.

After closure, access roads established specifically for the project shall be rehabilitated by scarifying the surface and rehabilitating the areas to the recommended specification, provided the landowner does not require future use of the roads.

D3.3 BORROWPIT RESIDUE DEPOSITS

No residue deposits shall be left at borrowpit sites. Stockpiled overburden shall be used to re-shape the site to blend in with the surrounding environment and topsoil will be spread over the site.

D3.4 FINAL REHABILITATION

It is recommended that a Landscaping Contractor/Horticulturist be appointed to undertake the rehabilitation and revegetation of all borrowpits and temporary access roads as well as any construction areas where natural vegetation has been disturbed, as identified by the RE in consultation with the ECO.

D3.4.1 Timing and implementation

The rehabilitation programme shall be implemented as soon as possible after completion of each phase of the borrowpit operations. As much of the revegetation as possible shall take place at the start of the rainy season to maximise water availability and minimise the need for watering. If revegetation takes place during the dry season, irrigation of planted areas may be necessary.

D3.4.2 Slope and contouring

The Contractor shall grade the slopes at the bridge construction sites and the borrowpits to blend in with the natural slope of the surrounding area. All slope changes shall be finished-off so that flowing curves that blend into the surrounding landscape are formed in preference to sharp angles. The surface of the borrowpit and access roads shall be ripped to a depth of at least 30 cm. All overburden material shall be levelled and reshaped so as to correspond with the surrounding landscape. Topsoil (which includes mulched vegetation material removed during vegetation clearing, but excluding invasive species), removed and stockpiled during operation, shall be spread evenly over the disturbed areas to a depth of at least 10 cm.

The Contractor shall obtain written confirmation from DMR that they are satisfied with the final shaping of all borrowpits prior to completion of the works and/or de-establishment of earthmoving plant.

D3.4.3 Erosion control measures

Precautions should be taken to prevent soil erosion during rehabilitation. Erosion control measures (e.g. application of straw mulches or soil binders to exposed soil) shall be put in place in all rehabilitated areas, including access roads, stockpiles and any other disturbed areas associated with the borrowpit operations. If necessary, wind protection measures such as shade cloth screens shall be erected to protect the soil and vegetation.

D3.4.4 Revegetation

It is recommended that the Contractor should appoint a suitably experienced Landscaping Contractor/Horticulturist who is familiar with the local vegetation. His/her appointment must be approved by the RE. The Landscaping Contractor/Horticulturist shall compile a vegetation rehabilitation plan that shall detail search and rescue, seed collection, seed mixing, seeding methods, planting and vegetation establishment in all borrowpit areas. The recommended method for rehabilitating disturbed areas is by collecting seed from plants in the same community in nearby undisturbed vegetation for sowing on disturbed areas. Hydroseeding using commercially available seed must be avoided.

The Contractor shall submit the vegetation rehabilitation plan to the RE for approval. The RE shall consult a botanical specialist for expert advice on the appropriateness of the rehabilitation plan. The same procedure shall apply in the cases of construction areas identified for specific revegetation identified by the RE in consultation with the ECO.

The vegetation rehabilitation plan shall include the following:

- Seed requirements, harvesting methods and locations, seed storage methods;
- Search and rescue;
- Handling of plant material rescued (translocation areas, propagation, etc.);
- Establishment and maintenance of a project-specific nursery, if required;
- Topsoil, mulch, fertiliser, soil stabiliser and irrigation requirements and application;
- Landscaping and revegetation methods for each area, i.e. hydromulching, planting, including locations and timing;
- Procurement requirements and a list of species of plants to be procured, if any;
- Vegetation establishment and maintenance requirements (irrigation, etc.) for all revegetated areas; and
- The use of any herbicides, pesticides and other poisonous substances, if required.

MS8: The Contractor shall submit a vegetation rehabilitation plan, detailing search and rescue, seed collection, seed mixing, seeding methods, planting and vegetation establishment in all borrowpit areas.

D3.5 MAINTENANCE AND MONITORING

Borrowpit sites require ongoing maintenance and monitoring until formal closure is obtained in compliance with the MPRDA.

The borrowpit sites shall remain fenced off until the rehabilitation process is complete. The areas shall not be grazed until such time as the area is stabilised.

The invasion of alien vegetation shall be monitored and controlled by undertaking an alien eradication programme up until the end of the Contractor's defects notification period. This shall apply to the borrowpit sites and areas at the bridge sites that have been rehabilitated after completion of construction. The frequency of the eradication programme shall be a minimum of annually or more frequently as determined in consultation with the Engineer and ECO.

After the Contractor's defects notification period, SANRAL shall be responsible for the alien eradication programme until borrowpit closure is obtained. The frequency of the eradication programme shall be at least annually. It is recommended that the responsibility for the alien eradication programme is included in the ongoing road maintenance contract for the road section.

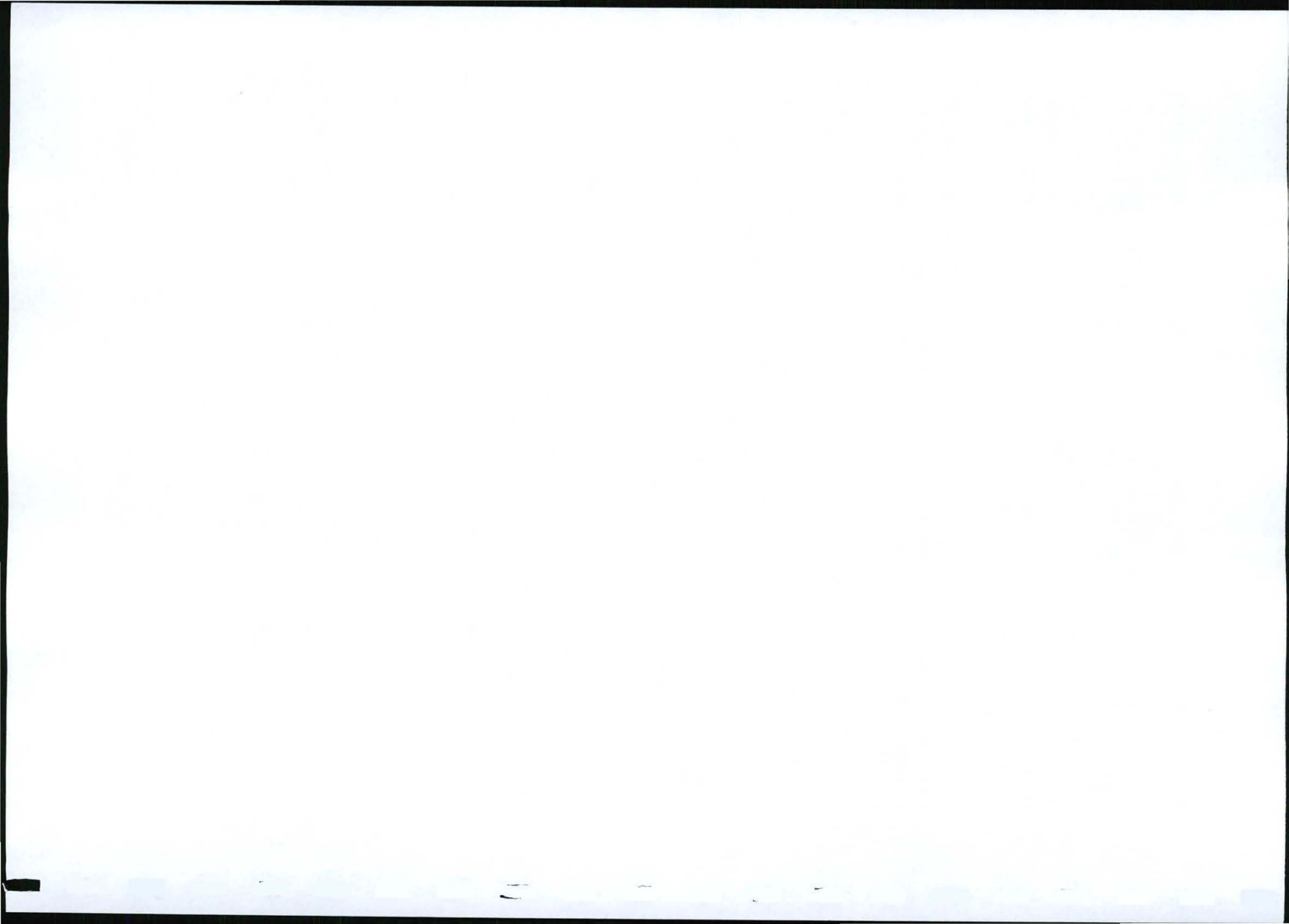
Ongoing and regular (annual) monitoring of the rehabilitation programme shall be undertaken and a performance assessment report shall be prepared in terms of Regulation 55 of the MPRDA. Monitoring shall take place until closure has been obtained.

D4 PROPOSED TIMING

The road strengthening project is anticipated to start in the first quarter of 2012 and to continue for a period of 20 months. As no contractor has been appointed at the time of the compilation of this report, it is not possible to provide a detailed timing of the proposed construction phase. It is not known when the borrowpit excavation activities would commence as they would be opened as and when needed. Closure and rehabilitation of borrowpit sites would take place as soon as the required material has been removed from the borrowpit.

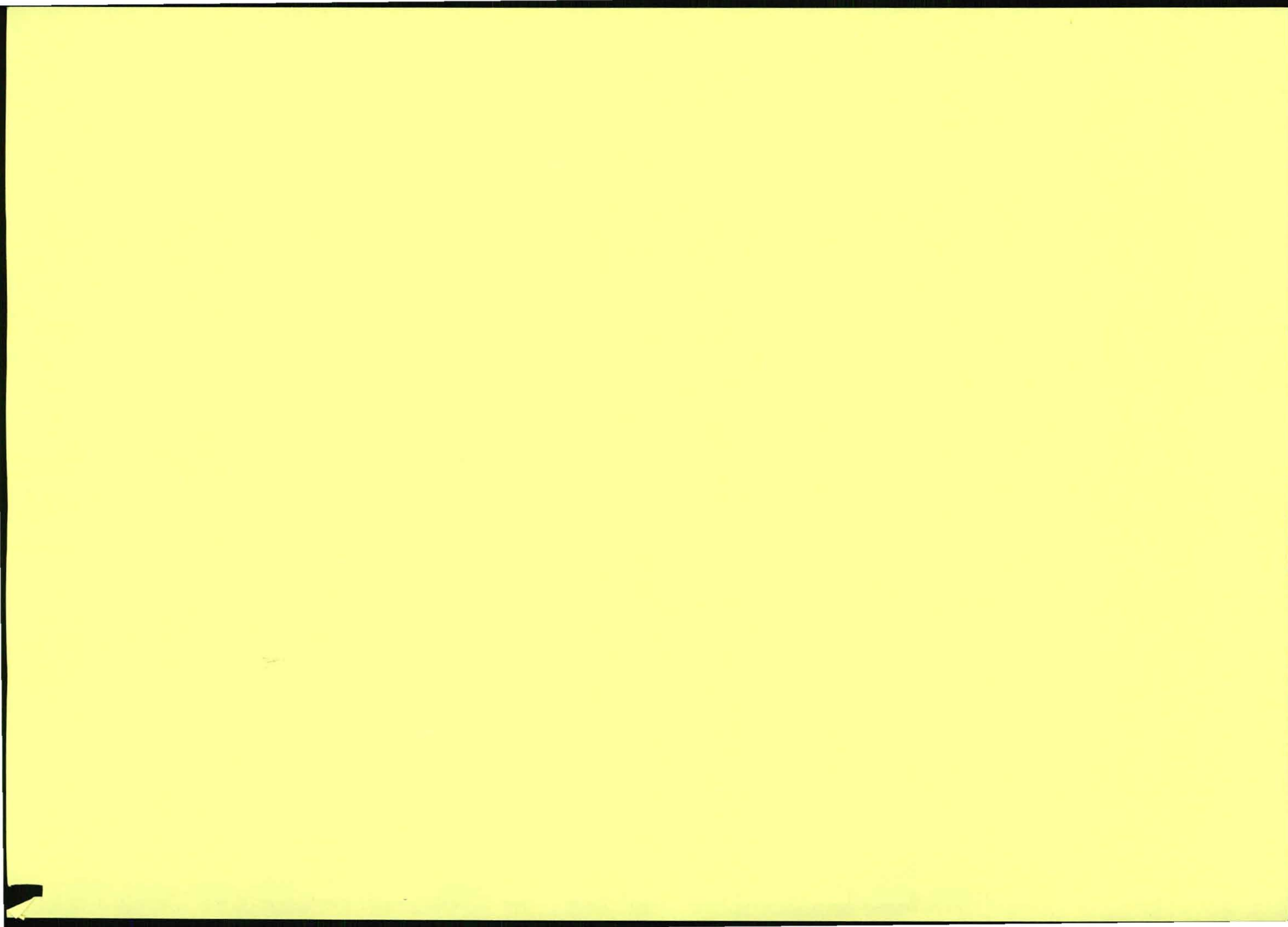
D5 FINANCIAL PROVISION

In terms of the agreement between SANRAL and DMR, the contract would include a 10% retention (up to a limit of R1 million) which is to be withheld until all work (inclusive of a rehabilitation work set out in the EMP) has been completed to the satisfaction of the engineering team and DMR.



APPENDIX D1

METHOD STATEMENT CONTROL SHEET



**PROPOSED STRENGTHENING (PARTIAL RECONSTRUCTION) OF NATIONAL
ROUTE R27 SECTION 7 & 8 BETWEEN THE WESTERN/NORTHERN CAPE
BORDER (KM 40.0) AND CALVINIA (KM 70.0)**

Contract No. _____

METHOD STATEMENT CONTROL SHEET

[THIS CONTROL SHEET IS TO BE ATTACHED TO ALL METHOD STATEMENTS]

MS Number:

THIS SECTION TO BE COMPLETED BY CONTRACTOR/METHOD STATEMENT AUTHOR ONLY

TITLE:
DESCRIPTION:
SUBMITTED BY:

DATE REQUESTED BY RE: DATE SUBMITTED:

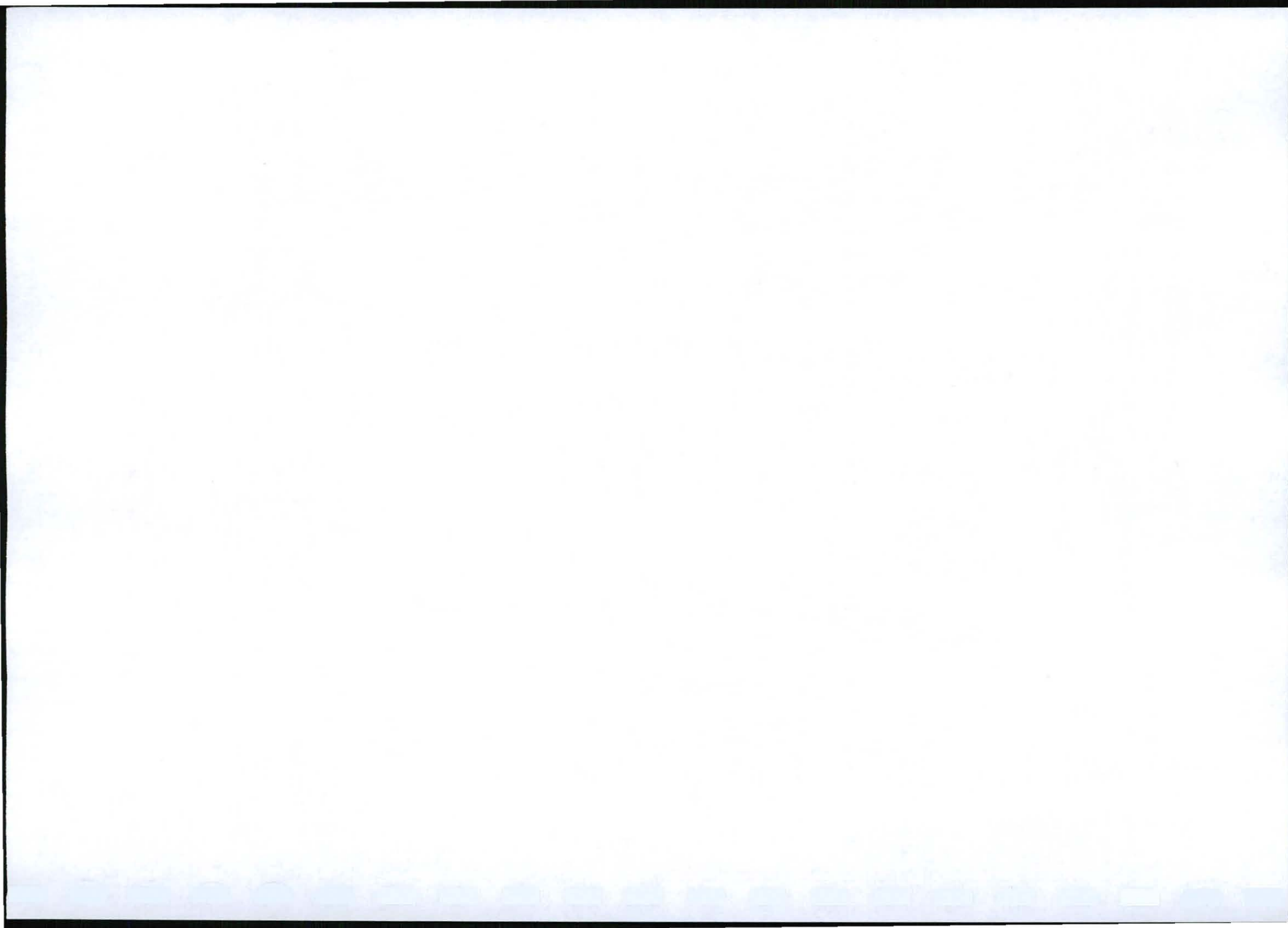
DATE RESPONSE REQUIRED BY: DATE WORK START:

REVIEW SCHEDULE		
DATE	AUTHORITY	COMMENTS

DISTRIBUTION AND AUTHORISATION			
	RE	ECO	CONTRACTOR
Name			
Signature			
Date			

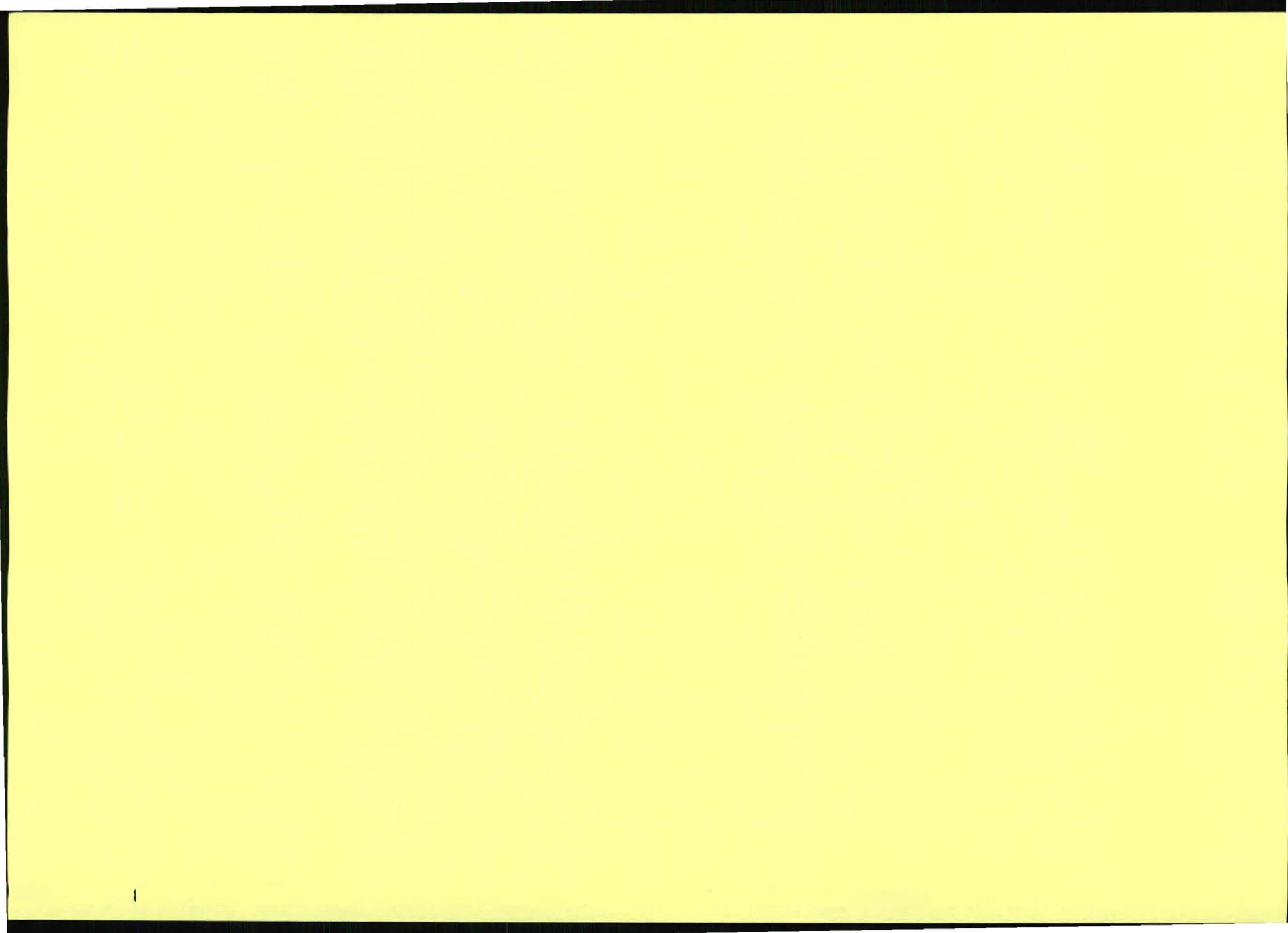
CONTRACTOR NOTE: METHOD STATEMENTS SHOULD ADDRESS THE FOLLOWING:

WHAT Brief description of the work to be undertaken
HOW Detailed description of the process of work, methods and materials
WHERE Description/sketch/map of locality of work (where applicable)
WHEN Due commencement date and completion date estimate (day/night work)



APPENDIX D2

ENVIRONMENTAL DO'S AND DON'TS



DO'S AND DON'T'S



Workers & equipment must stay inside the site boundaries at all times



Do not swim in or drink from streams
Do not throw oil, petrol, diesel, concrete or rubbish in the stream
Do not work in the stream without direct instruction
Do not damage the banks or vegetation of the stream



Protect animals on the site
Ask your supervisor or Contract's Manager to remove animals found on site



Do not damage or cut down any trees or plants without permission
Do not pick flowers



Put cigarette butts in a rubbish bin
Do not smoke near gas, paints or petrol
Do not light any fires without permission
Know the positions of fire fighting equipment
Report all fires
Do not burn rubbish/ vegetation without permission



Work with petrol, oil & diesel in marked areas
Report any petrol, oil & diesel leaks or spills
Use a drip tray under vehicles & machinery
Empty drip trays after rain & throw away where instructed



Try to avoid producing dust - wet dry ground & soil



Do not make loud noises around the site, especially near schools and homes
Report or repair noisy vehicles



Use the toilets provided
Report full or leaking toilets



Only eat in demarcated eating areas
Never eat near a river or stream
Put packaging & leftover food into rubbish bins



Do not litter - put all rubbish (especially cement bags) into the bins provided
Report full bins to your supervisor
The responsible person should empty bins regularly



Always keep to the speed limit
Drivers - check & report leaks
Ensure loads are secure & do not spill



Know all the emergency phone numbers



Spot fines of between R20 and R2000
Removal from site
Construction may be stopped



Report any breaks, floods, fires, leaks and injuries to your supervisor
Ask questions!

MOETS EN MOENIES



Werkers en gereedskap moet ten alle tye binne die terreingrense bly.



Moenie van strome drink of daarin swem nie.
Moenie olie, petrol, diesel, sement of rommel in strome gooi nie.

Moenie in strome werk sonder direkte instruksie nie.
Moenie stroomoewers en plantegroei beskadig nie.



Beskerm diere op die konstruksieterrein.
Vra u toesighouer of Kontrakbestuurder om diere van die terrein te verwyder.



Moenie enige plante of bome beskadig of afsny sonder toestemming nie.
Moenie blomme pluk nie.



Gooi sigaretstompies in 'n asblik.
Moenie rook naby gas, verf of petrol nie.
Moenie sonder toestemming enige vure maak nie.
Weet waar brandbestrydingstoerusting gestoor word.
Meld alle vure onmiddelik aan.
Moenie rommel verbrand sonder toestemming nie.



Werk slegs in gemerkte areas met petrol, olie & diesel.
Meld alle petrol, olie en diesel lekkasies aan.
Gebruik 'n drupbak onder voertuie en masjienerie.
Maak drupbakke leeg na reën, maar nie in riviere nie.



Probeer om nie stof te maak nie.
Maak droë grond nat met water.



Moenie harde geluide maak op die terrein nie, veral naby skole en huise.
Meld raserige voertuie aan of herstel dit.



Gebruik die toilette wat voorsien is.
Meld vol of lekkende toilette aan.



Eet slegs in gemerkte gebiede.
Moenie naby riviere of strome eet nie.
Gooi verpakking en orige kos in vullisblikke.



Moenie vullis rondstrooi nie - gooi alle vullis (veral sementsakke) in vullishouers.
Mel vol vullishouers aan by u toesighouer.
Vullishouers moet gereeld leeggemaak word.



Moet nooit die spoedperk oorskry nie.
Bestuurders - gaan voertuie na en meld lekkasies of rokerige voertuie aan.
Maak seker dat alle vragte stewig is en nie mors nie.



Maak seker dat u alle nood telefoonnommers ken.



Boetes tussen R20 en R2000
Verwydering vanaf die konstruksieterrein.
Konstruksie mag gestop word.



Meld alle brekasies, vure, vloede, lekkasies en beserings aan by u toesighouer.
Vra vrae!

EMAZENZIWE NE MAZINGENZIWA



Abasebenzi nezixhobo abazisebenzisayo mabangaphumi nazo ngaphaya kwesayiti



Sukuqubha okanye usele amanzi omlambo
Sukugalela ioil, petrol, diesel, concrete okanye inkukuma emlanjeni
Sukonakalisa iindonga (zomlambo) okanye izintyalo



Khusela izilwanyana ezilapho esayitini
Xeleta isupervisor ukuba zimkiswe ezozilwanyana



Ungonakalisi okanye ugawule imithi ngaphandle kwemvume
Sukwemba izityalo



Xa ugqibile ukutshayo galela emgqomeni (izitimpi zecuba)
Sukutshaya kufuphi negesi, ipeyinti ne petroli
Sukubasa umlilo ngaphandle kwemvume
Zazi izicima mlilo apho zikhoyo
Sukutshisa inkunkuma naaphandle kwemvume



Sebenzisa ipetrol, oil ne diesel endaweni yayo
Faka isitya sokukhongozela phansi kwemashini
Ungagaleli oil emlanjeni



Zama ungenzi uthuli fefa ngamanzi emhlabeni



Sukwenza ingxolo eshayitini ngakumbi kufuphi nesikolo nezi ndlu
Yazisa ulungise isithuthi esonakeleyo



Sebenzisa itoilet (izindlu zangasese)
Xela xa zizeleyo



Tyela kwindawo eyenzelwe oko
Sukutyela kufuphi nomlambo
Lahla emgqomeni yonke inkukuma



Sulahla inkukuma phantsi
Galela emgqomeni yonke inkukuma xela xa izele imigqomo
Xela xa umgqomo uzele



Gcina isantya
umqhubi makayilungise inqwelo xa yonakele
Qononondisa umthwalo ubotshiwe enqweleni



Zazi inombolo zengozi



Intlawulo ngokwaphula umthetho yi R20 - R2000
Okanye ugxothwe emsebenzini
Contract leyo imiswe



Ripota wonke umanakalo ofana nokuqhekeza, isiphango umlilo, ukuvuza kwemashini nengozi kwi supervisor
Buza xa unombuzo

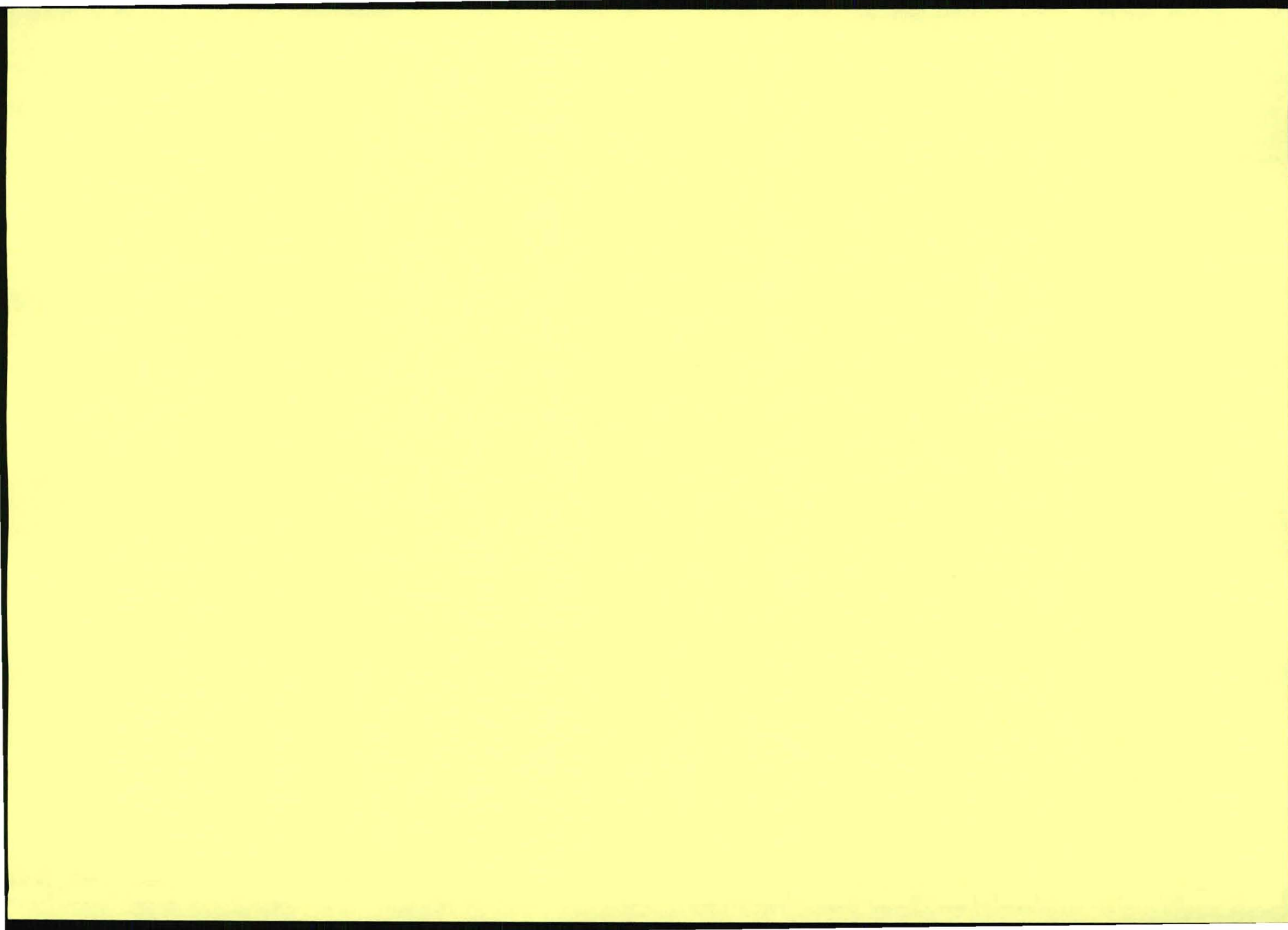
LIST OF FINES

SCHEDULE OF FINES FOR ENVIRONMENTAL DAMAGE OR EMP TRANSGRESSIONS		
CEMP TRANSGRESSION OR RESULTANT ENVIRONMENTAL DAMAGE	MIN. FINE	MAX. FINE
Failure to report environmental damage or CEMP transgressions to the ECO or RE	R1000	R2000
Failure to carry out instructions of the ECO or RE regarding the environment or the CEMP	R2000	R4000
Failure to comply with prescribed administration, storage or handling of hazardous substances	R500	R1000
Failure to comply with fuel storage, refuelling, or cleanup prescriptions	R500	R4000
Failure to comply with prescriptions for solid waste management (incl. paint chips, cement and concrete)	R500	R5000
Failure to comply with prescriptions to prevent water pollution	R1000	R5000
Failure to comply with prescriptions regarding silt, debris and other obstruction removal	R500	R5000
Failure to comply with prescriptions regarding water diversion and drainage	R500	R5000
Failure to comply with prescriptions regarding erosion and sedimentation control and scour protection	R500	R5000
Failure to comply with prescriptions regarding tree and vegetation removal/damage	R5000	R20000
Failure to comply with prescriptions regarding method statements	R500	R5000
Failure to comply with prescriptions regarding demarcation and enforcement of 'No-go' areas	R500	R5000
Failure to comply with prescriptions regarding control of vehicles and plant on access routes	R500	R1000
Failure to comply with prescriptions regarding protection of natural features	R500	R5000

For each subsequent similar offence committed by the same individual, the fine shall be doubled in value to a maximum value of R50,000.

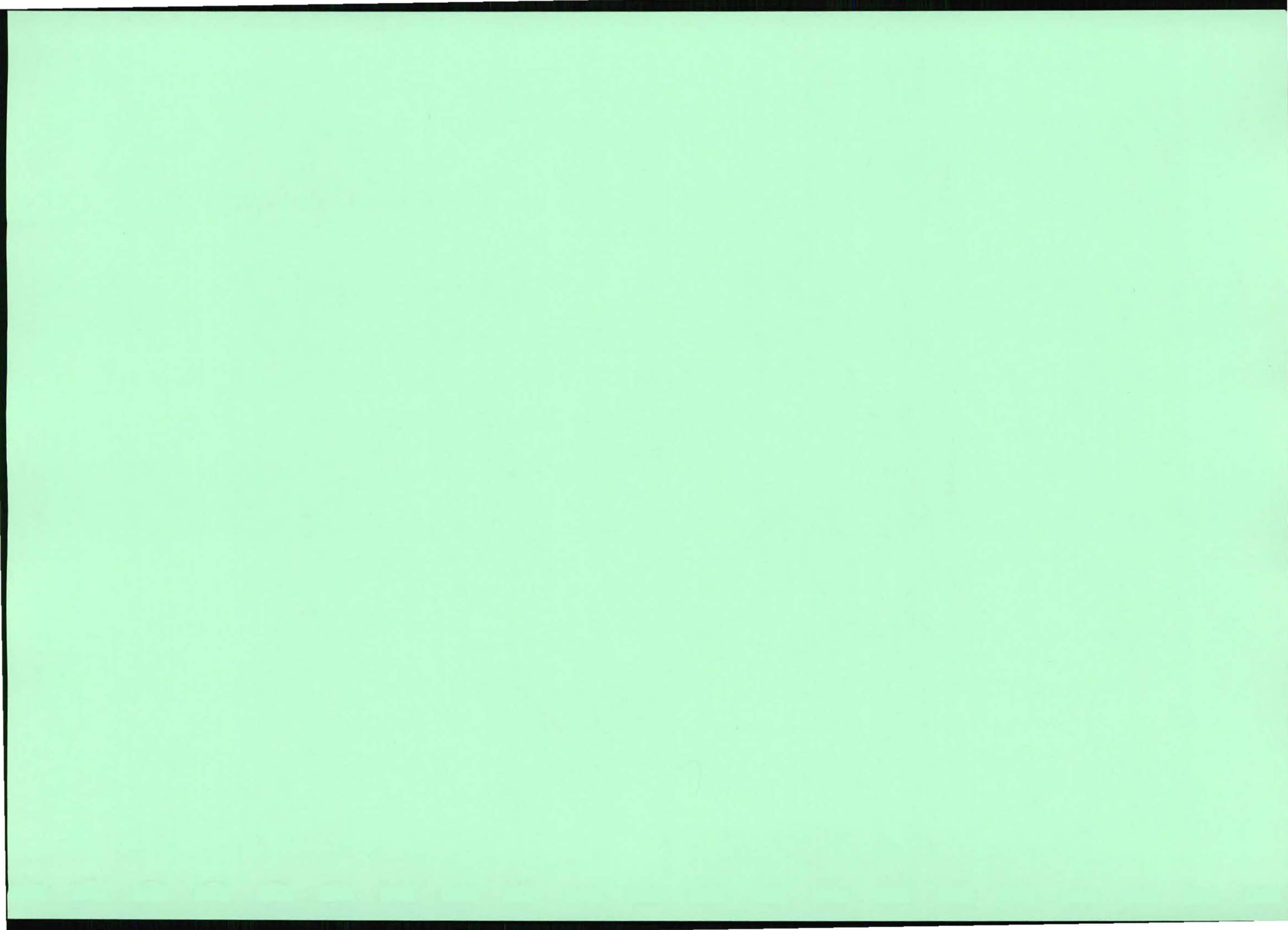
APPENDIX D3

LIST OF FINES



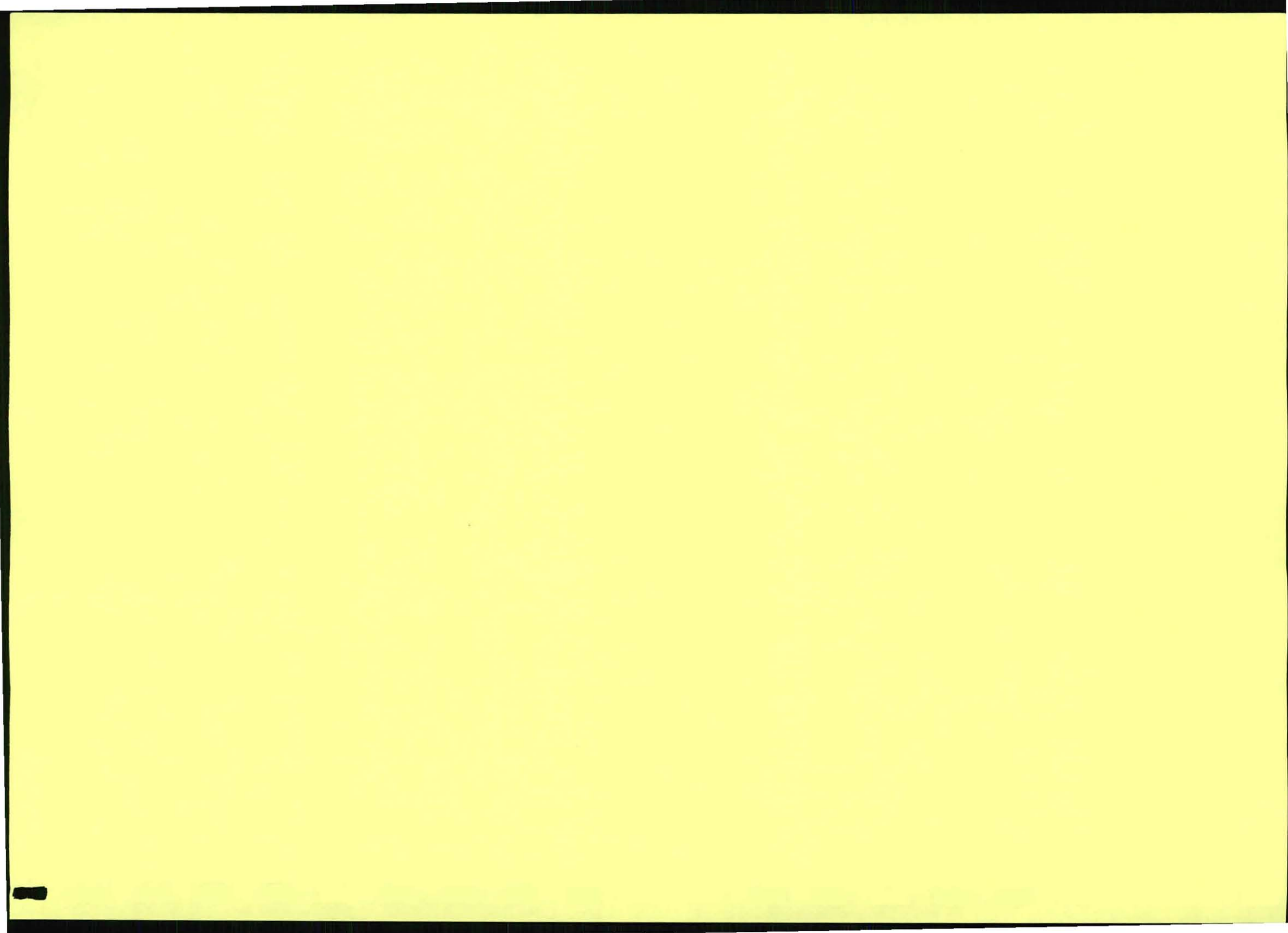
PART E:

APPENDICES



APPENDIX 1:

PUBLIC PARTICIPATION INFORMATION



Mr E Visagie (Etienne)
P O Box 287 CALVINIA 8190
Work 027 341 2207 Email elmarie@hantam.co.za

Agter-Hantam Boerevereniging

Mr A de Klerk (Albert)
Deputy Chairperson Agter-Hantam Boerevereniging
Posbus 148 CALVINIA 8190
Work 027 341 2211 Email houhoek@hantam.co.za

S de Klerk (Simey)
Secretary Agter-Hantam Boerevereniging
Posbus 366 CALVINIA 8190
Work 027 341 2413 Email sdeklerk@hantam.co.za

Mr J Nel (Jan)
Chairperson Agter-Hantam Boerevereniging
Posbus 7 CALVINIA 8190
Work 027 341 2148 Email agterplaas@hantam.co.za

Aurecon

Mr D Nel (Dave)
Aurecon
Aurecon Centre Century Falls CENTURY BOULEVARD
Work 021 526 9539 Fax 086 667 0082 Cell 082 880 8656 Email David.Nel@aurecongroup.com

Mr G Robertson (Gordon)
Aurecon
Aurecon Centre Century Falls CENTURY BOULEVARD
Work 021 526 9581 Fax 086 605 9676 Cell 082 551 9260 Email
Gordon.Robertson@aurecongroup.com

Buffelsvlei Farm

Mnr IC McGregor (IC)
Farm Owner Buffelsvlei Farm
P O Box 3 NIEUWOUDTVILLE 8180
Work 027 218 1040 Cell 083 633 0544
NOTE: Buffelsvlei 628 Remainder of Portion 4

Calvinia Landbou-Unie

Mr E Lambrecht (Everard)
Chairperson Calvinia Landbou-Unie
Posbus 15 CALVINIA 8190
Work 027 341 2115 Cell 082 652 5669 Email kareeboom@hantam.co.za

Ms M van Rooyen (Marcellene)
Secretary Calvinia Landbou-Unie
Posbus 111 CALVINIA 8190
Work 027 341 2253

Calvinia Sakekamer (Chamber of Commerce)

Mr W Visagie (Willie)
Representative: Calvinia Sakekamer (Chamber of Commerce)
Superquick Hoopstraat CALVINIA 8190
Work 027 341 1424 Cell 082 491 8684 Email willemtypes@hantam.co.za

Department of Agriculture

Mr G Steenkamp (Gert)
Head of Office Department of Agriculture
P O Box 30 CALVINIA 8190
Work 027 341 1083 Email gsteenkamp@calsaam.ncape.gov.za

Department of Env. Affairs & Nature Conservation

Mr J J Mutyorauta (Julius)
Director: Environmental Management Department of Env. Affairs & Nature Conservation
Private Bag X6102 KIMBERLEY 8300
Work 053 807 7430 Fax 053 831 3530 Cell 083 285 2373 Email jmutyorauta@half.ncape.gov.za
NOTE: Gen.(053) 807 4800. Secretary: Ann Jacobs. Phy.Add: 90 Long Street, Sasko Building, Kimberley 8300

Department of Mineral Resources

Mr N Ravhugoni (Ntsundeni)

Deputy Director: Environment Department of Mineral Resources
Private Bag X6093 KIMBERLEY 8300
Work 053 807 1704 Cell 082 828 3904 Email ntsundeni.ravhugoni@dmr.gov.za
NOTE: 29-31 Currie Street, 1st Floor Corner building, Kimberley

Department of Water Affairs

Mr J Murhovhi (Justine)

Catchment Manager (Calvinia) Department of Water Affairs
Private Bag X16 SANLAMHOF 7532
Work 021-950 1700 Fax 021-946 3666 Email murhovhij@dwa.gov.za

Doega Farm

Mr JS Muller (JS)

Farm Owner Doega Farm
P O Box 235 CALVINIA 8190
Work 027 341 2165 Email doega@hantam.co.za
NOTE: Buffelsfontein 773 Remainder of Portion 1

Ebenhaezer Opkomende Boerevereniging

Mr M Baard (Malcolm)

Secretary Ebenhaezer Opkomende Boerevereniging
Aandblomstraat 10 NIEWOUDTVILLE 8180
Work 027 218 1455 Email monty@nvr.co.za

Enkelde Wilgenboon 768

Mr FJ Strauss (FJ)

Farm Owner Enkelde Wilgenboon 768
P O Box 164 CALVINIA 8190
Work 027 341 2162 Cell 083 231 1872 Email platberg@hantam.co.za
NOTE: Wilgenbosch 770 Remainder of Portion 1

Hantam Local Municipality

Cllr M Esau (Magaret)

Hantam Local Municipality
Eerstelaan 2857 CALVINIA 8190
Cell 073 163 8145
NOTE: Ward Councillor for Calvinia

Mr R Schwartz (Roger)

Councillor Hantam Local Municipality
Private Bag X14 CALVINIA 8190
NOTE: Ward Councillor for Calvinia

Mr I Valentein (Ivan)

Municipal Manager Hantam Local Municipality
Private Bag 14 CALVINIA 8190
Email finance@hantam.gov.za

Cllr J Wilschut (Johanna)

Hantam Local Municipality
Private Bag X14 CALVINIA 8190
Cell 073 163 8145
NOTE: Ward Councillor for Nieuwoudtville

Jakkalskop Opkomende Boerevereniging

Ms W Demas (Wanda)

Deputy Chairperson Jakkalskop Opkomende Boerevereniging
2de Laan 467 CALVINIA 8190
Cell 076 232 3788 Email coleen@calvinia.spp.org.za

Klipsprivier Farm

Mnr HA van Niekerk (HA)

Farm owner Klipsprivier Farm
P O Box 227 CALVINIA 8190
Work 027 218 1204 Cell 084 584 0408
NOTE: Klippe Rivier 630 Remainder

Matjiesfontein Farm

Mnr SWB van der Merwe (SWB)

Farm Owner Matjiesfontein Farm
P O Box 191 CALVINIA 8190
Work 027 341 2203 Email matjiesfontein@hantam.co.za
NOTE: Matjiesfontein 679 Remainder

Merino Farm

Dr FJ Strauss (FJ)

Farm Representative Merino Farm
P O Box 309 CLANWILLIAM 8135
Work 027 482 1629 Fax 027 482 1179 Cell 083 230 4767 Email fstrauss@telkomsa.net
NOTE: Bloedzuigersfontein North 782 Portion 1, Mr JLL Strauss address P O Box 264 Clanwilliam

Namakwa District Municipal

Mr JT Loubser (JT)

Municipal Manager (Acting) Namakwa District Municipal
P O Box 5 Van Riebeeck Street SPRINGBOK 8240
Work 027 712 8000 Fax 027 712 8040 Email jannel@namakwa-dm.gov.za

Ngwao Boswa Kapa Bokone

Mr S Christians (Shane)

The Provincial Manager Ngwao Boswa Kapa Bokone
Private Bag 5004 KIMBERLEY 8300
Work 053 807 4901 Email schristians@ncpg.gov.za

Nieuwoudtville Boerevereniging

Ms M Schumann (Mandy)

Secretary Nieuwoudtville Boerevereniging
Posbus 142 NIEUWOUDTVILLE 88180
Work 027 218 1159 Cell 083 272 8756 Email bokkeveld@gmail.com

Mr K van der Westhuizen (Koenas)

Chairperson Nieuwoudtville Boerevereniging
Toorkop Posbus 18 NIEUWOUDTVILLE 8180
Work 027 218 1246 Cell 083 425 1110 Email vleiland@telkomsa.net

Mr W van Wyk (Willem)

Deputy Chairperson Nieuwoudtville Boerevereniging
Matjiesfontein Posbus 46 NIEUWOUDTVILLE 8180
Work 027 218 1246 Cell 082 969 6224 Email info@papkuisfontein.co.za

South African Heritage Resources Agency (SAHRA)

Ms M Galimberti (Mariagrazia)

Archaeology, Palaeontology & Meteorite Unit South African Heritage Resources Agency (SAHRA)
PO Box 4637 CAPE TOWN 8000
Work 021 462 4502 Fax 021 462 4509 Email mgalimberti@sahra.org.za
NOTE: 111 Harrington St, CAPE TOWN, 8000

South African National Roads Agency

Mr D Wilson (Derek)

South African National Roads Agency
Private Bag X19 BELLVILLE 7530
Work 021 957 4600 Fax 021 946 1630 Email wilsond@nra.co.za

Surplus People's Project

Ms C Mattheus (Coleen)

Development Facilitator Surplus People's Project
Posbus 18 CALVINIA 8190
Work 027 341 1748 Email coleen@calvinia.spp.org.za
NOTE: Stiglingstraat 31 Calvinia

Voorhantam Boerevereniging

Mr HM du Toit (H M)

Deputy Chairperson Voorhantam Boerevereniging
Augusfontein Posbus 118 CALVINIA 8019
Work 027 218 1281 Cell 072 260 1072

Voorhantam Boerevereniging

Mr J Louw (Jan)

Chairperson Voorhantam Boerevereniging
Rietpoort Posbus 384 CALVINIA 8190
Work 027 218 1225 Cell 073 489 6107

Mr J Strauss (Jack)

Secretary Voorhantam Boerevereniging
Platberg Posbus 164 CALVINIA 8190
Cell 079 892 0522 Email jack@hantam.co.za

36 names listed



KENNISGEWING VAN OPENBARE DEELNAMEPROSES

VOORGESTELDE VERSTERKING VAN DIE R27 GEDEELTES 7 & 8 TUSSEN WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0)

Kennisgewingno.: AUR02-01/2011 DOS verwysingsno.: 12/12/20/2272

KENNIS GESKIED HIERMEE VAN 'N OPENBARE DEELNAMEPROSES INGEVOLGE DIE NEMA OIB-REGULASIES 2010 EN DIE MPRDA-REGULASIES

Applikant: Suid-Afrikaanse Nasionale Padagentskap Beperk (SANRAL)

Omgewingsbeoordelingspraktisyn: CCA Environmental (Mpy) Bpk (CCA)

Ingenieurskonsultant: Aurecon SA (Mpy) Bpk

AKTIWITEIT IN GEVOLGE DIE NEMA OIB-REGULASIES:

Beskrywing en ligging: Voorgestelde versterking van die R27 Gedeeltes 7 & 8 (met inbegrip van die verbreding van vyf brûe en die ontwikkeling van drie leengroewe) tussen Wes-/Noord-Kaap grens en Calvinia.

Omgewingsmagtiging word vereis vir die volgende:

- (1) Die drie brûe wat vir verbreding geormerk is, naamlik:
 - Brug NB36 oor die Soetwaterrivier op die R27 ongeveer 35 km suid-oos van Niewoudtville;
 - Brug oor die Oorlogskloofrivier op die R27 ongeveer 10 km wes van Calvinia; en
 - Brug oor die Oorlogskloofrivier op die R27 by die westelike toegang tot Calvinia.
- (2) Twee (van die drie) leengroewe, naamlik (2) and (3) hieronder.

Aansoek vir Omgewingsmagtiging om die volgende gelyste aktiwiteite te onderneem:

Ingevolge Goewermentskennisgewingno. R.544: 18(i); 39 (iii); en 40(iv); en Goewermentskennisgewingno. R546: 13(a).

AKTIWITEIT IN GEVOLGE DIE MPRDA-REGULASIES:

Beskrywing: Voorgestelde ontwikkeling van drie leengroewe in die Calvinia-omgewing vir die verkryging van materiaal vir die bostaande projek.

Ligging van leengroewe:

- (1) BP R27-8 km 32.6 RHS 6.2, geleë langs die R364 ongeveer 6 km suid-wes van die R27, op Gedeelte 1 van Plaas Bloedzuigerfontein Noord 782 ("Merino");
- (2) BP R27-8 km 45.0 RHS 0.2, geleë langs die R27 ongeveer 23 km wes van Calvinia, op die Oorblywende Gedeelte van Gedeelte 1 van die Plaas Buffelsfontein 773 ("Doega") en
- (3) BP R27-8 km 61.6 RHS 1.0, geleë langs die R27 ongeveer 7 km suid-wes van Calvinia op die Oorblywende Gedeelte van Gedeelte 1 van die Plaas Enkelde Wilgenboom 768.

Indien u of u organisasie as 'n Belanghebbende en Belangstellende Party (BBP) wil registreer en/of aan die proses wil deelneem, is u welkom om Ena de Villiers van CCA by die onderstaande adres te kontak teen nie **later as 11 Julie 2011 nie**.

CCA Environmental Kontakbesonderhede:

Posbus 10145, Caledonplein, KAAPSTAD, 7905

Tel: (021) 461 1118 Faks: (021) 461 1120

E-pos: ena@ccaenvironmental.co.za

Web: www.ccaenvironmental.co.za

Datum van Advertensie: 9 Junie 2011

aurecon

cca
ENVIRONMENTAL



DUIWE "FLY IN" FINAAL

GRAND PRIZE - R44000

25 JUNIE 2011

TEN BATE VAN O.A. NG KERK ORRELFONDUS
HEKKE OPEN OM 10:00 BY WINDSON
10100 Kleidulfskloof

TOEGANG R150.00 (Volw) & R75.00 (Kinders)

Bring eie Stool

INGESLUIT : SPITBRAAI, DRINKGOED,
MUSIEK, DANS,

SUPER RUGBY OP GROOTSKAAN;

SEMI-FINAAL SPAN 4 & SPAN 5

"SIDE BETS" BY DUIWE WERK

KONTAK JACO DE BRUYN - 072 798 3220

CAREL VISAGIE - 072 611 3444



EERSTE WEN

DIE O/9A rugbyspan van Laerskool Calvinia wat afgerig word deur mnr. Leon Mostert, het hul eerste wedstryd van die seisoen gewon toe hul Vredendal gewen het met 28-7.

Magnieta se rolstoel

CARNARVON - Noord-Kaapse departement van Paaië en Openbare Werke het vir Tant Magnieta Magdalena Sass verras met nuwe wiel.

Op 12 Julie sal Tant Magnieta 76 jaar oud wees.

Haar ou rolstoel sonder voetflappe, met net 'n o-fienterlap wat aan die rolstoelpote vasgebind is om haar voete te ondersteun, is vervang deur 'n meer modern gerieflike ligte aluminium-raam rolstoel met sagte kussings en remme.

Nicolette Matross, hoof van spesiale programme van die Departement Paaië en Openbare werke, het die stoel oorhandig.

"Die ruimतिक maak dat ek nie meer kan loop nie, my voete swel en my bene pyn verskriklik," se tant Magnieta. Volgens haar help pynpilletjies lank nie meer nie. Sy wil graag hê die hospitaal moet x-straal plate neem om te kyk of daar nie iets anders is wat fout is nie.

Sy was Sondag vir die eerste keer in 'n lang tyd in die kerk. "Ek het dit geniet, dit was lekker en binnekort kom die kerkmense by my huis bidaur hou." Verder vertel sy "die stoel sit baie lekker, ek kan nou in die kombuis rondbeweeg en my takjies doen."

Koos Gous, van die kantoor van die Kareberg burgemeester, verantwoordelik vir spesiale programme is, het gesê die volgende stap is om seker te maak maatskaplike dienste besoek haar om te kyk na die moontlikheid van 'n oppasser vir haar en haar skoonma, meen Gous. - Crystal Robertson.

WOLPRYSE OP BKB VEILING

CALVINIA - Op die 30ste wolveiling van die 2010/2011 seisoen het die merinowolmarkaanwyser met 14,3% gestyg en op 9799¢ per kg skoon gesluit. Dit is ongeveer 71% hoër as 'n jaar gelede met die rand wat tans 6% sterker verhandel teenoor die Amerikaanse dollar vir die ooreenstemmende periode.

Gemiddelde skoonwol prysaanwysers vir goeie kwaliteit lang vagwol (MF-4/MF5) met 'n treksterkte van 35 (NKT) was soos volg:

17 u 16325 (8.7) 21 u 10188 (15.3) 19 u 12844 (12.2) 23 u 9550 (15.8)
18 u 14425 (7.4) 22 u 9738 (14.1) 20 u 10438 (13.6) 24 u 7800 (8.3)
Die grootste kopers op die veiling was Standard Wool (3,636 bale), G Modiano (1,785 bale), Stucken (1,486 bale). Van die 8,603 bale wat aangebied is, is 8,266 verkoop (96%).

Hoogste pryse op 2de laaste veiling

	Tipe	Mikron	Skoon-opbrengs	Trek- Prys
Nick Zandberg (Calvinia)	AH	18,4	71,8%	40 R100,45
Isak Voltraaf (Calvinia)	BH	16,5	63,8%	31 R100,00
Nick Zandberg (Calvinia)	BH	17,8	69,8%	31 R97,70
Jannie Nel (Calvinia)	BH	18,6	71%	46 R95,10
Albe Nel (Calvinia)	AH	18,1	68,2%	29 R93,40
SWP Visagie (Fraserburg)	AH	17,2	64,6%	38 R104,35

SIYATHEMBA MUNICIPALITY

INVITATION OF REGISTER ON DATABASE OF SUPPLIERS

The Siyathemba Municipality, invites prospective suppliers to register on their database of suppliers. The Supply Chain Management Unit is based in Prieska and requires suppliers for the following:

The following suppliers / contractors / service providers are hereby invited:

Finance & Administration

- Credit ratings
- Printing & stationery
- Office equipment
- Supply of uniform & protective clothing
- Provision of security services
- Cleaning materials & related items
- Car rental
- Travel agencies
- Advertising
- Curtains & blinds
- Computer accessories
- Courier services

Specialised Services

- Accredited inspection authority
- Accredited laboratories
- Surveying & rezoning
- Skills development & training
- GIS consultants
- Legal Services
- Printing & Design
- Financial consultants / Accounting firms
- Marketing services & research
- Building development support

Community Services

- Burial services
- Gardening services
- Cleaning services
- Environmental impact assessments
- Waste management
- Transport services
- Horticulture

Other Services

- Other services not specifically stated

Disadvantaged individuals, black economic empowered companies and small, medium and micro enterprises are encouraged to apply.

In terms of section 14 (1) of the Municipal Supply Chain Regulations, the Accounting Officer must at least once during a financial year through newspapers and commonly circulating locally, invite prospective providers of goods and services to apply for evaluation and listing on the accredited prospective providers. The Municipality is bound by the provisions of Preferential Procurement Framework Act of 2000, the Municipal Financial Management Act of 2003, and the Framework of Supply Chain Management.

The following documents should accompany the application for approval:

- Copy of business entity's VAT Registration Certificate
- Current business entity Original Tax Clearance Certificate
- Copy of identity documents of Shareholders/Directors/Members/Owners
- Cancelled invoice or blank invoice
- Cancelled cheque or written proof of account
- Details of creditors bank account assignee
- Registration of Bank Account details
- Letterhead of Company

All the suppliers on the database of the municipality must forward each year a new original "Tax Clearance Certificate" with this office. It is the responsibility of the supplier to update the "Tax Clearance Certificate".

The municipality is in the process of implementing a new creditors system, and therefore all suppliers are requested to submit their information as soon as possible to ensure that the municipality continue to do business with them. No payments will be made to suppliers not on the supplier's database or if the invoice is not in-line with applicable legislation. From 1st July 2011, the municipality will no longer make payments if invoices do not comply with all applicable legislation and the Municipality will therefore not accept any responsibility for invoices not paid. The onus thus lies with the supplier and not the municipality.

The Municipality encourages prospective suppliers to register on the database of suppliers throughout the year.

Application forms to be sent to:

Howard Moring
Siyathemba Municipality
Victoria Street
Prieska 6940

Contact Person:

Howard Moring
Tel: 053 353 5300 / 053 353 5363
Fax: 053 353 1866

Closing date for applications: 30 June 2011
Notice No. 20/2011

KENNISGEWING VAN OPENBARE DEELNAMEPROSES

VOORGESTELDE VERSTERKING VAN DIE R27 GEDEELTES 7 & 8 TUSSEN WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0)

Kennisgewingsno.: AUR02-01/2011 DOS verwysingsno.: 12/12/2012/2272

KENNIS GESKIED HIERMEE VAN 'N OPENBARE DEELNAMEPROSES INGEVOLGE DIE NEMA OIB-REGULASIES 2010 EN DIE MPRDA-REGULASIES

Applicant: Suid-Afrikaanse Nasionale Padagentskap Beperk (SANRAL)
Omgewingsbeoordelingspraktisyn: CCA Environmental (Mpy) Bpk (CCA)
Ingenieurskonsultant: Aurecon SA (Mpy) Bpk

AKTIVITEIT INGEVOLGE DIE NEMA OIB-REGULASIES:

Beskrywing en ligging: Voorgestelde versterking van die R27 Gedeeltes 7 & 8 (met inbegrip van die verbreding van vyf brúe en die ontwikkeling van drie leengroewe) tussen Wes-Noord-Kaap grens en Calvinia.

Omgewingsmagtiging word veras vir die volgende:

- (1) Die drie brúe wat vir verbreding geoormerk is, naamlik:
 - Brug NB36 oor die Soetwatarrivier op die R27 ongeveer 35 km suid-oois van Nieuoudville;
 - Brug oor die Oorlogskloofrivier op die R27 ongeveer 10 km wes van Calvinia; en
 - Brug oor die Oorlogskloofrivier op die R27 by die westelike toegang tot Calvinia.
- (2) Twee (van die drie) leengroewe, naamlik (2) and (3) hieronder.

Aansoek vir Omgewingsmagtiging om die volgende gevaste aktiwiteite te onderneem:

Ingevolge Goewernmentskennisgewingsno. R.544: 18(i); 39 (iii); en 40(iv); en Goewernmentskennisgewingsno. R.546: 13(a).

AKTIVITEIT INGEVOLGE DIE MPRDA-REGULASIES:

Beskrywing: Voorgestelde ontwikkeling van drie leengroewe in die Calvinia-omgewing vir die verkryging van materiaal vir die bostaande projek.

Ligging van leengroewe:

- (1) BP R27-8 km 32.6 RHS 6.2, geleë langs die R364 ongeveer 6 km suid-wes van die R27, op Gedeelte 1 van Plaas Bloedzuigerfontein Noord 782 ("Merino");
- (2) BP R27-8 km 45.0 RHS 0.2, geleë langs die R27 ongeveer 23 km wes van Calvinia, op die Oorbywende Gedeelte van Gedeelte 1 van die Plaas Buffelsfontein 773 ("Doega") en
- (3) BP R27-8 km 61.6 RHS 1.0, geleë langs die R27 ongeveer 7 km suid-wes van Calvinia op die Oorbywende Gedeelte van Gedeelte 1 van die Plaas Enkeldel Wilgenboom 768.

Indien u of u organisasie as 'n Belanghebbende en Belangstellende Party (BBP) wil registreer en/of aan die proses wil deelneem, is u welkom om Ena de Villiers van CCA by die onderstaande adres te kontak teen nie later as 11 Julie 2011 nie.

CCA Environmental Kontakbesonderhede:

Postbus 10145, Calsondorp, KAAPSTAD, 7905
Tel: (021) 461 1118 Faks: (021) 461 1120
E-pos: ena@ccaenvironmental.co.za
Web: www.ccaenvironmental.co.za

Datum van Adverfensie: 9 Junie 2011

aurecon

ENVIRONMENTAL

OPENBARE DEELNAMEPROSES

BASIESE OMGEWINGSBEOORDELING VIR DIE VOORGESTELDE VERSTERKING VAN DIE R27 GEDEELTES 7 & 8 TUSSEN WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0)

KENNISGEWING NO: AUR02-02/2011

DOS VERWYSINGSNO: 12/12/20/2272

KENNIS GESKIED HIERMEE VAN 'N OPENBARE DEELNAMEPROSES IN TERME VAN DIE NEMA OIB-REGULASIES 2010

BESKRYWING EN LIGGING: VOORGESTELDE VERSTERKING VAN R27 GEDEELTES 7 & 8 (MET INBEGRIIP VAN DIE VERBREDING VAN VYF BRÛE EN DIE ONTWIKKLEING VAN DRIE LEENGROEWE) TUSSEN WES-/NOORD-KAAP GRENS EN CALVINIA.

DIE VOLGENDE DRIE BRÛE IS VIR VERBREDING GEOORMERK:

- BRUG NB36 OOR DIE SOETWATERRIVIER OP DIE R27 BY KM 34.92, ONGEVEER 35 KM SUID-OOS VAN NIEWOUDTVILLE;
- BRUG OOR DIE OORLOGSKLOOFRIVIER OP DIE R27 BY KM 59.2, ONGEVEER 10 KM WES VAN CALVINIA; EN
- BRUG OOR DIE OORLOGSKLOOFRIVIER OP DIE R27 BY KM 67.1, BY DIE WESTELIKE TOEGANG TOT CALVINIA.

DIE VOLGENDE TWEE (VAN DIE DRIE) VOORGESTELDE LEENGROEWE VEREIS OMGEWINGSMAGTIGING:

- OORBLYWENDE GEDEELTE VAN GEDEELTE 1 VAN DIE PLAAS BUFFELSFONTEIN 773 ("DOEGA"), GELEË LANGS DIE R27 ONGEVEER 23 KM WES VAN CALVINIA; EN
- OORBLYWENDE GEDEELTE VAN GEDEELTE 1 VAN DIE PLAAS ENKELDE WILGENBOOM 768, GELEË LANGS DIE R27 ONGEVEER 7 KM SUID-WES VAN CALVINIA.

APPLIKANT: SUID-AFRIKAANSE NASIONALE PADAGENTSKAP BEPERK (SANRAL).

OMGEWINGSBEOORDELINGS PRAKTISYN: CCA ENVIRONMENTAL (MPY) BPK (CCA)

AANSOEK VIR OMGEWINGSMAGTIGING OM DIE VOLGENDE GELYSDE AKTIWITEITE TE ONDERNEEM:

INGEVOLGE GOEWERMENSKENNISGEWING NO. R.544: 11(iii) & (xi); 18(i); 39 (iii); EN 40(iv); EN GOEWERMENSKENNISGEWING NO. R546: 13(a).

GELEENTHEID OM DEEL TE NEEM:

INDIEN U OF U ORGANISASIE AS 'N BELANGHEBBENDE EN BELANGSTELLEND PARTY (BBP) WIL REGISTRER EN/OF AAN DIE PROSES WIL DEELNEEM, IS U WELKOM OM ENA DE VILLIERS VAN CCA BY DIE ONDERSTAANDE ADRES TE KONTAK TEEN NIE LATER AS 11 JULIE 2011 NIE.

KONTAK ONS VIR MEER BESONDERHEDE:

CCA ENVIRONMENTAL (MPY) BPK
POSBUS 10145, CALEDONPLEIN, KAAPSTAD, 7905
TEL: (021) 461 1118/9 FAKS: (021) 461 1120
E-POS: ena@ccaenvironmental.co.za
WEB: www.ccaenvironmental.co.za



aurecon

cca
ENVIRONMENTAL

OPENBARE DEELNAMEPROSES

VOORGESTELDE LEENGROEFONTWIKKELING VIR DIE VERSTERKING VAN DIE R27 GEDEELTES 7 & 8 TUSSEN WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0)

KENNISGEWING NO: AUR02-03/2011

DOS VERWYSINGSNO: 12/12/20/2272

KENNIS GESKIED HIERMEE VAN 'N OPENBARE DEELNAMEPROSES IN TERME VAN DIE MPRDA-REGULASIES

KENNIS GESKIED HIERMEE VAN DIE VOORSTEL DEUR DIE SUID-AFRIKAANSE NASIONALE PADAGENTSAP BEPERK (SANRAL) OM 'N LEENGROEF TE ONTWIKKEL OP GEDEELTE 1 VAN DIE PLAAS BLOEDZUIGERFONTEIN NOORD 782 ("MERINO").

OMGEWINGSBEOORDELINGSPRAKTISYN: CCA ENVIRONMENTAL (MPY) BPK (CCA)

GELEENTHEID OM DEEL TE NEEM:

INDIEN U OF U ORGANISASIE AS 'N BELANGHEBBENDE EN BELANGSTELLENDENDE PARTYE (BBP) WIL REGISTREER EN/OF AAN DIE PROSES WIL DEELNEEM, IS U WELKOM OM ENA DE VILLIERS VAN CCA BY DIE ONDERSTAANDE ADRES TE KONTAK TEEN NIE LATER AS 11 JULIE 2011 NIE.

KONTAK ONS VIR MEER BESONDERHEDE:

CCA ENVIRONMENTAL (MPY) BPK
POSBUS 10145, CALEDONPLEIN, KAAPSTAD, 7905
TEL: (021) 461 1118/9 FAKS: (021) 461 1120
E-POS: ena@ccaenvironmental.co.za
WEB: www.ccaenvironmental.co.za



aurecon

cca
ENVIRONMENTAL

OPENBARE DEELNAMEPROSES

VOORGESTELDE LEENGROEFONTWIKKELING VIR DIE VERSTERKING VAN DIE R27 GEDEELTES 7 & 8 TUSSEN WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0)

KENNISGEWING NO: AUR02-04/2011

DOS VERWYSINGSNO: 12/12/20/2272

KENNIS GESKIED HIERMEE VAN 'N OPENBARE DEELNAMEPROSES IN TERME VAN DIE NEMA OIB-REGULASIES 2010 EN DIE MPRDA-REGULASIES

KENNIS GESKIED HIERMEE VAN DIE VOORSTEL DEUR DIE SUID-AFRIKAANSE NASIONALE PADAGENTSAP BEPERK (SANRAL) OM 'N LEENGROEF TE ONTWIKKEL OP DIE OORBLYWENDE GEDEELTE VAN GEDEELTE 1 VAN DIE PLAAS BUFFELSFONTEIN 773 ("DOEGA").

OMGEWINGSBEOORDELINGSPRAKTISYN: CCA ENVIRONMENTAL (MPY) BPK (CCA)

AANSOEK VIR OMGEWINGSMAGTIGING OM DIE VOLGENDE GELYSDE AKTIWITEITE TE ONDERNEEM:

INGEVOLGE GOEWERMENSKENNISGEWING NO. R.544: 11(iii) & (xi); 18(i); 39 (iii); EN 40(iv);
EN GOEWERMENSKENNISGEWING NO. R546: 13(a).

GELEENTHEID OM DEEL TE NEEM:

INDIEN U OF U ORGANISASIE AS 'N BELANGHEBBENDE EN BELANGSTELLEENDE PARTYE (BBP) WIL REGISTREER EN/OF AAN DIE PROSES WIL DEELNEEM, IS U WELKOM OM ENA DE VILLIERS VAN CCA BY DIE ONDERSTAANDE ADRES TE KONTAK TEEN NIE LATER AS 11 JULIE 2011 NIE.

KONTAK ONS VIR MEER BESONDERHEDE:

CCA ENVIRONMENTAL (MPY) BPK
POSBUS 10145, CALEDONPLEIN, KAAPSTAD, 7905
TEL: (021) 461 1118/9 FAKS: (021) 461 1120
E-POS: ena@ccaenvironmental.co.za
WEB: www.ccaenvironmental.co.za



aurecon

cca
ENVIRONMENTAL

OPENBARE DEELNAMEPROSES

VOORGESTELDE LEENGROEFONTWIKKELING VIR DIE VERSTERKING VAN DIE R27 GEDEELTES 7 & 8 TUSSEN WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0)

KENNISGEWING NO: AUR02-05/2011

DOS VERWYSINGSNO: 12/12/20/2272

KENNIS GESKIED HIERMEE VAN 'N OPENBARE DEELNAMEPROSES IN TERME VAN DIE NEMA OIB-REGULASIES 2010 EN DIE MPRDA-REGULASIES

KENNIS GESKIED HIERMEE VAN DIE VOORSTEL DEUR DIE SUID-AFRIKAANSE NASIONALE PADAGENTSAP BEPERK (SANRAL) OM 'N LEENGROEF TE ONTWIKKEL OP DIE OORBLYWENDE GEDEELTE VAN GEDEELTE 1 VAN DIE PLAAS ENKELDE WILGENBOOM 768.

OMGEWINGSBEOORDELINGSPRAKTISYN: CCA ENVIRONMENTAL (MPY) BPK (CCA)

AANSOEK VIR OMGEWINGSMAGTIGING OM DIE VOLGENDE GELYSDE AKTIWITEITE TE ONDERNEEM:
INGEVOLGE GOEWERMENTSKENNISGEWING NO. R.544: 11(iii) & (xi); 18(i); 39 (iii); EN 40(iv); EN
GOEWERMENTSKENNISGEWING NO. R546: 13(a).

GELEENTHEID OM DEEL TE NEEM:

INDIEN U OF U ORGANISASIE AS 'N BELANGHEBBENDE EN BELANGSTELLEDE PARTY (BBP) WIL REGISTREER EN/OF AAN DIE PROSES WIL DEELNEEM, IS U WELKOM OM ENA DE VILLIERS VAN CCA BY DIE ONDERSTAANDE ADRES TE KONTAK TEEN NIE LATER AS 11 JULIE 2011 NIE.

KONTAK ONS VIR MEER BESONDERHEDE:

CCA ENVIRONMENTAL (MPY) BPK
POSBUS 10145, CALEDONPLEIN, KAAPSTAD, 7905
TEL: (021) 461 1118/9 FAKS: (021) 461 1120
E-POS: ena@ccaenvironmental.co.za
WEB: www.ccaenvironmental.co.za



aurecon

cca
ENVIRONMENTAL

PHOTOGRAPHS OF SITE NOTICES *IN-SITU*

**BEGINNING OF THE PROJECT AREA - WESTERN POINT,
AT R27 SECTION 7 KM 43 AT THE EASTERN APPROACH TO THE VANRHYN'S PASS**



**END POINT OF THE PROJECT AREA - EASTERN POINT,
AT R27 SECTION 8 KM 67.5 AT THE WESTERN ENTRANCE TO CALVINIA**



PROPOSED BORROWPIT BP R27-8 KM 32.6 RHS 6.2



PROPOSED BORROWPIT BP R27-8 KM 45.0 RHS 0.2



PROPOSED BORROWPIT BP R27-8 KM 61.6 RHS 1.0



Aur02/Let-15Jun11

15 Junie 2011

Traveller's Rest (Mpy) Bpk
Posbus 309
Clanwilliam
8135

Aandag: Dr FJ Strauss

Geagte Dr Strauss

VERSTERKING VAN DIE R27 GEDEELTES 7 EN 8 TUSSEN DIE WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0): VOORGESTELDE LEENGROEF OP GEDEELTE 1 VAN DIE PLAAS BLOEDZUIGERFONTEIN NOORD 782 ("MERINO")

Die telefoongesprek tussen ons Ena de Villiers en uself op 8 Junie 2011 rakende die voorgestelde ontwikkeling van leengroewe vir die bostaande projek het betrekking.


Die Suid-Afrikaanse Nasionale Padagentskap Beperk (SANRAL) beoog om Gedeeltes 7 en 8 van die R27 tussen die Wes-/Noord-Kaap grens en Calvinia te versterk, met inbegrip van die verbreding van drie brûe. Die ingenieurskonsultante vir die projek, Aurecon SA (Mpy) Bpk, het drie leengroewe in die Calvinia-omgewing as materiaalbronne vir die projek ge-identifiseer. Een van die voorgestelde leengroewe is geleë op u eiendom, naamlik Gedeelte 1 van die Plaas Bloedzuigerfontein Noord ("Merino").

Die beoogde projek moet voldoen aan die vereistes van die Omgewingsimpakbepaling (OIB) Regulasies, 2010 (ingevolge die Nasionale Wet op Omgewingsbestuur (No. 107 van 1998) (NEMA), soos gewysig) en die Regulasies wat gepromulgeer is ingevolge die Wet op die Ontwikkeling van Minerale- en Petroleumhulpbronne (No. 28 van 2002) (MPRDA), soos gewysig. Hierdie wette vereis albei dat 'n Openbare Deelnameproses onderneem word, gevolglik kontak ons u as grondeienaar wat direk geraak word.

Die voorgestelde ligging van die leengroef is soos aangedui op die aangehegte kaart. Toegang tot die leengroef oor u eiendom sal ook benodig word deur SANRAL en 'n aangestelde Kontrakteur tydens die ontwikkeling en rehabilitasie van die leengroef.

Indien die voorgestelde leengroef deur die betrokke departemente goedgekeur word, sal SANRAL die spesifieke area tydelik onteien voordat die leengroef ontwikkel sal word.

2/...

 CCA ENVIRONMENTAL (Pty) Ltd • Consulting Services

Unit 35 Roeland Square 30 Drury Lane Cape Town 8001 • PO Box 10145 Caledon Square 7905

Tel +27 (21) 461 1118/9 • Fax +27 (21) 461 1120 • email: info@ccaenvironmental.co.za • website: www.ccaenvironmental.co.za

Directors: J Crowther F Fredericks • Associate: J Blood • Reg No 2003/019026/07

'n Ontvangserkennings- en kommentaarvorm is hierby aangeheg vir u om asseblief te oorweeg en te voltooi. Hierdie vorm bevestig dat u in kennis gestel is van die voorgestelde leengroef op u eiendom en bied u die geleentheid om enige kwessies te lug aangaande die voorgestelde leengroefontwikkeling. Ons vra dat u asseblief die vorm aan ons Ena de Villiers sal terugstuur by die kontakbesonderhede hieronder. Ons sal dit waardeer indien u teen nie later as **18 Julie 2011** kan antwoord.

U is welkom om ons Ena de Villiers (e-pos: ena@ccaenvironmental.co.za) of die ondergetekende te kontak indien u enige navrae in die verband het.

Vriendelike groete



Jonathan Crowther Pr.Sci.Nat., CEAPSA
CCA ENVIRONMENTAL (EDMS) BPK

Aanhangsels

cc. Mr Etienne Visagie, Grondgebruiker
Mr Gordon Robertson, Aurecon SA (Mpy) Bpk



**VOORGESTELDE LEENGROEWE VIR DIE VERSTERKING VAN
DIE R27 GEDEELTE 7 & 8 TUSSEN DIE WES-/NOORD-KAAP
GRENS (KM 40.0) EN CALVINIA (KM 70.0)
BENUTTING VAN LEENGROEWE**

**PROPOSED BORROWPITS FOR THE STRENGTHENING OF THE
R27 SECTIONS 7 & 8 BETWEEN THE WESTERN/NORTHERN
CAPE BORDER (KM 40.0) AND CALVINIA (KM 70.0)
UTILISATION OF BORROWPITS**

LEENGROEF NO. / BORROWPIT NO.	BP R27-8 km 32.6 RHS 6.2
GEREGISTREERDE PLAASNAAM / REGISTERED FARM NAME	
GEREGISTREERDE EIENAAR / REGISTERED OWNER	

Ek bevestig dat ek verwittig is van SANRAL se voorneme om 'n voorgestelde leengroef op my eiendom te benut, soos aangedui op die aangehegte plan, vir die versterking van Gedeeltes 7 & 8 van die R27 tussen die Wes-/Noord-Kaap grens en Calvinia; en dat ek bewus is van die ligging en omvang van die gebied en dat toegang oor my eiendom benodig mag word.

I acknowledge that I have been informed of SANRAL's intention to utilise a proposed borrowpit on my property indicated on the attached plan for the strengthening of Section 7 & 8 of the R27 between the Western/Northern Cape border and Calvinia; and that I am aware of the location and extent of the area and that access to the area may be required across my property.

**HANDTEKENING VAN EIENAAR OF GEDELEGEERDE VERTEENWOORDIGER / SIGNATURE
OF OWNER OR DELEGATED REPRESENTATIVE**

.....

**STATUS INDIEN NIE GEREGISTREEDE EIENAAR NIE/ STATUS IF NOT REGISTERED
OWNER.....**

DATUM/ DATE.....

NAAM/ NAME.....

POSADRES/ POSTAL ADDRESS

.....

TELEFOONNOMMER/ TELEPHONE NUMBER.....

FAKSNOMMER/ FAX NUMBER.....

E-POSADRES/ E-MAIL ADDRESS.....

Aur02/Let-15Jun11

15 Junie 2011

Mnr JS Muller
Posbus 235
Calvinia
8190

Geagte Mnr Muller

VERSTERKING VAN DIE R27 GEDEELTES 7 EN 8 TUSSEN DIE WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0): VOORGESTELDE LEENGROEF OP DIE OORBLYWENDE GEDEELTE VAN GEDEELTE 1 VAN DIE PLAAS BUFFELSFONTEIN 773 ("DOEGA")

Die telefoongesprek tussen ons Ena de Villiers en uself op 8 Junie 2011 rakende die voorgestelde ontwikkeling van leengroewe vir die bostaande projek het betrekking.

Die Suid-Afrikaanse Nasionale Padagentskap Beperk (SANRAL) beoog om Gedeeltes 7 en 8 van die R27 tussen die Wes-/Noord-Kaap grens en Calvinia te versterk, met inbegrip van die verbreding van drie brûe. Die ingenieurskonsultante vir die projek, Aurecon SA (Mpy) Bpk, het drie leengroewe in die Calvinia-omgewing as materiaalbronne vir die projek ge-identifiseer. Een van die voorgestelde leengroewe is geleë op u eiendom, naamlik die Oorblywende Gedeelte van Gedeelte 1 van die Plaas Buffelsfontein 773 ("Doega").

Die beoogde projek moet voldoen aan die vereistes van die Omgewingsimpakbepaling (OIB) Regulasies, 2010 (ingevolge die Nasionale Wet op Omgewingsbestuur (No. 107 van 1998) (NEMA), soos gewysig) en die Regulasies wat gepromulgeer is ingevolge die Wet op die Ontwikkeling van Minerale- en Petroleumhulpbronne (No. 28 van 2002) (MPRDA), soos gewysig. Hierdie wette vereis albei dat 'n Openbare Deelnameproses onderneem word, gevolglik kontak ons u as grondelenaar wat direk geraak word.

Die voorgestelde ligging en omvang van die leengroef is soos aangedui op die aangehegte plan. Toegang tot die leengroef oor u eiendom sal ook benodig word deur SANRAL en 'n aangestelde Kontrakteur tydens die ontwikkeling en rehabilitasie van die leengroef.

Indien die voorgestelde leengroef deur die betrokke departemente goedgekeur word, sal SANRAL die spesifieke area tydelik onteien voordat die leengroef ontwikkel sal word.

2/...



CCA ENVIRONMENTAL (Pty) Ltd • Consulting Services

Unit 35 Roeland Square 30 Drury Lane Cape Town 8001 • PO Box 10145 Caledon Square 7905

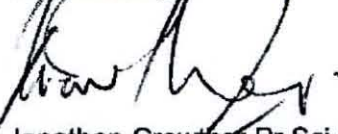
Tel +27 (21) 461 1118/9 • Fax +27 (21) 461 1120 • email: info@ccaenvironmental.co.za • website: www.ccaenvironmental.co.za

Directors: J Crowther F Fredericks • Associate: J Blood • Reg No 2003/019026/07

'n Ontvangserkennings- en kommentaarvorm is hierby aangeheg vir u om asb te oorweeg en te voltooi. Hierdie vorm bevestig dat u in kennis gestel is van die voorgestelde leengroef op u eiendom en bied u die geleentheid om enige kwessies te lug aangaande die voorgestelde leengroefontwikkeling. Ons vra dat u asseblief die vorm aan ons Ena de Villiers sal terugstuur by die kontakbesonderhede hieronder. Ons sal dit waardeer indien u teen nie later as **18 Julie 2011** kan antwoord.

U is welkom om ons Ena de Villiers (e-pos: ena@ccaenvironmental.co.za) of die ondergetekende te kontak indien u enige navrae in die verband het.

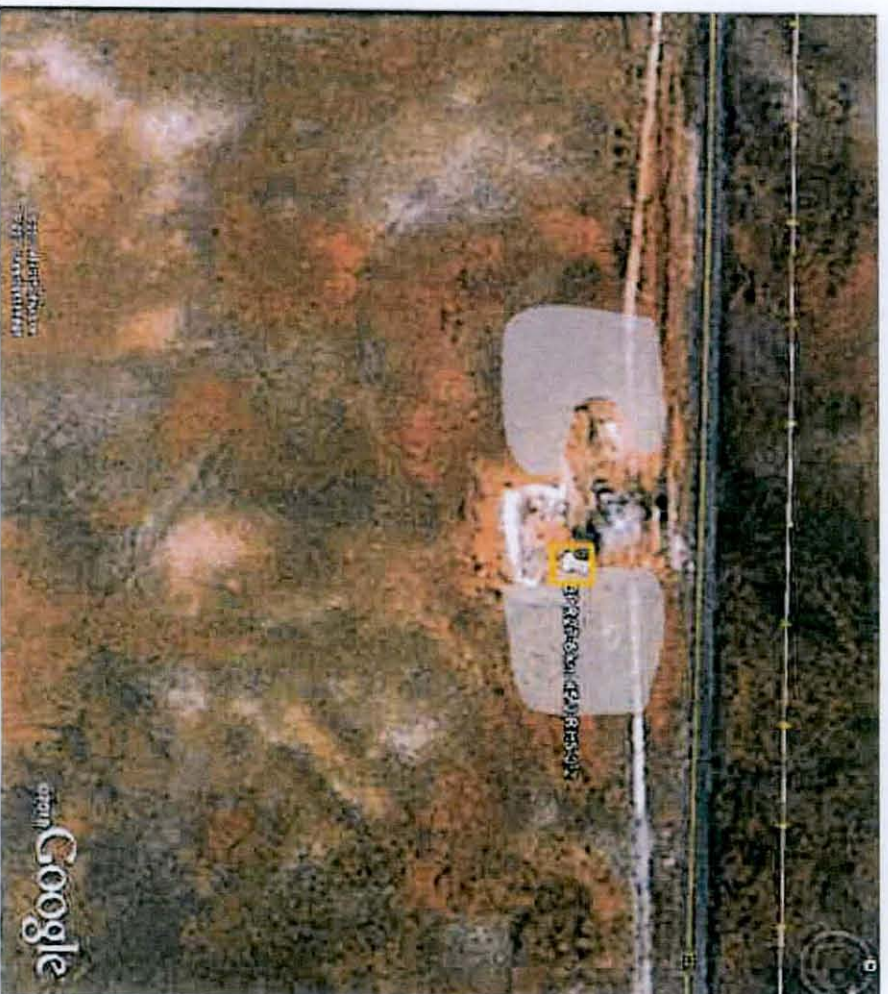
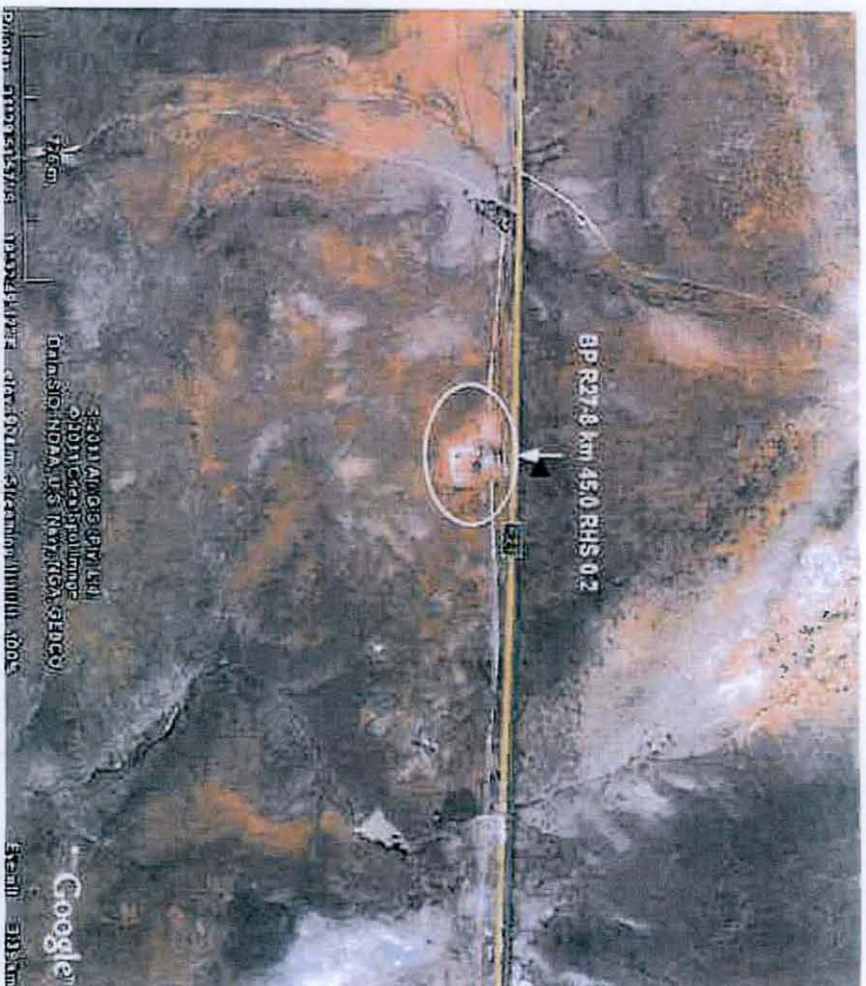
Vriendelike groete



Jonathan Crowther Pr.Sci.Nat., CEAPSA
CCA ENVIRONMENTAL (MPY) BPK

Aanhangsels

cc. Mr Gordon Robertson - Aurecon SA (Mpy) Bpk



Ligging van voorgestelde Leengroef BP R27-8 km 45.0 RHS 0.2 op die Oorblywende Gedeelte van Gedeelte 1 van die plaas Buttefontein 773 ("Doega")



**VOORGESTELDE LEENGROEWE VIR DIE VERSTERKING VAN
DIE R27 GEDEELTE 7 & 8 TUSSEN DIE WES-/NOORD-KAAP
GRENS (KM 40.0) EN CALVINIA (KM 70.0)**

BENUTTING VAN LEENGROEWE

**PROPOSED BORROWPITS FOR THE STRENGTHENING OF THE
R27 SECTIONS 7 & 8 BETWEEN THE WESTERN/NORTHERN
CAPE BORDER (KM 40.0) AND CALVINIA (KM 70.0)**

UTILISATION OF BORROWPITS

LEENGROEF NO. / BORROW PIT NO.	BP R27-8 km 45.0 RHS 0.2
GEREGISTREERDE PLAAS NAAM / REGISTERED FARM NAME	
GEREGISTREERDE EIENAAR / REGISTERED OWNER	

Ek bevestig dat ek verwittig is van SANRAL se voorneme om 'n voorgestelde leengroef op my eiendom te benut, soos aangedui op die aangehegte plan, vir die versterking van Gedeeltes 7 & 8 van die R27 tussen die Wes-/Noord-Kaap grens en Calvinia; en dat ek bewus is van die ligging en omvang van die gebied en dat toegang oor my eiendom benodig mag word.

I acknowledge that I have been informed of SANRAL's intention to utilise a proposed borrow pit on my property indicated on the attached plan for the strengthening of Section 7 & 8 of the R27 between the Western/Northern Cape border and Calvinia; and that I am aware of the location and extent of the area and that access to the area may be required across my property.

**HANDTEKENING VAN EIENAAR OF GEDELEGEERDE VERTEENWOORDIGER / SIGNATURE
OF OWNER OR DELEGATED REPRESENTATIVE**

.....

**STATUS INDIEN NIE GEREGISTREEDE EIENAAR NIE/ STATUS IF NOT REGISTERED
OWNER.....**

DATUM/ DATE.....

NAAM/ NAME.....

POSADRES/ POSTAL ADDRESS

.....

TELEFOONNOMMER/ TELEPHONE NUMBER.....

FAKSNOMMER/ FAX NUMBER.....

E-POSADRES/ E-MAIL ADDRESS.....

KOMMENTAAR/ COMMENT

NEE / NO

JA / YES

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Please forward to / Stuur asseblief aan:

CCA ENVIRONMENTAL (PTY) LTD
Unit 35, Roeland Square, Cape Town, 8001
PO Box 10145, Caledon Square, 7905
T: (021) 461 1118 F: (021) 461 1120
Email: ena@ccaenvironmental.co.za

aurecon

cca
ENVIRONMENTAL

Aur02/Le1-15Jun11

15 Junie 2011

Glendana Eiendom Beperk
Posbus 164
Calvinia
8190

Aandag: Mnr FJ Strauss

Geagte Mnr Strauss

VERSTERKING VAN DIE R27 GEDEELTES 7 EN 8 TUSSEN DIE WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0): VOORGESTELDE LEENGROEF OP DIE OORBLYWENDE GEDEELTE VAN GEDEELTE 1 VAN DIE PLAAS ENKELDE WILGENBOOM 768

Die telefoongesprek tussen ons Ena de Villiers en uself op 8 Junie 2011 rakende die voorgestelde ontwikkeling van leengroewe vir die bostaande projek het betrekking.

Die Suid-Afrikaanse Nasionale Padagentskap Beperk (SANRAL) beoog om Gedeeltes 7 en 8 van die R27 tussen die Wes-/Noord-Kaap grens en Calvinia te versterk, met inbegrip van die verbreding van drie brûe. Die ingenieurskonsultante vir die projek, Aurecon SA (Mpy) Bpk, het drie leengroewe in die Calvinia-omgewing as materiaalbronne vir die projek ge-identifiseer. Een van die voorgestelde leengroewe is geleë op u eiendom, naamlik die Oorblywende Gedeelte van Gedeelte 1 van die Plaas Enkelde Wilgenboom 768.

Die beoogde projek moet voldoen aan die vereistes van die Omgewingsimpakbepaling (OIB) Regulasies, 2010 (ingevolge die Nasionale Wet op Omgewingsbestuur (No. 107 van 1998) (NEMA), soos gewysig) en die Regulasies wat gepromulgeer is ingevolge die Wet op die Ontwikkeling van Minerale- en Petroleumhulpbronne (No. 28 van 2002) (MPRDA), soos gewysig. Hierdie wette vereis albei dat 'n Openbare Deelnameproses onderneem word, gevolglik kontak ons u as grondeienaar wat direk geraak word.

Die voorgestelde ligging en omvang van die leengroef is soos aangedui op die aangehegte plan. Toegang tot die leengroef oor u eiendom sal ook benodig word deur SANRAL en 'n aangestelde Kontrakteur tydens die ontwikkeling en rehabilitasie van die leengroef.

Indien die voorgestelde leengroef deur die betrokke departemente goedgekeur word, sal SANRAL die spesifieke area tydelik onteien voordat die leengroef ontwikkel sal word.

2/...



CCA ENVIRONMENTAL (Pty) Ltd • Consulting Services

Unit 35 Roeland Square 30 Drury Lane Cape Town 8001 - PO Box 10145 Caledon Square 7905

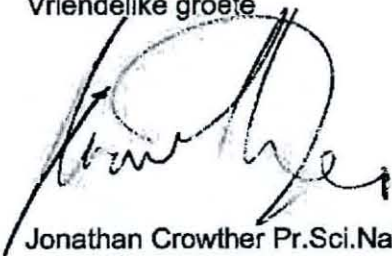
Tel +27 (21) 461 1118/9 • Fax +27 (21) 461 1120 • email: info@ccaenvironmental.co.za • website: www.ccaenvironmental.co.za

Directors: J Crowther F Fredericks • Associate: J Blood • Reg No 2003/019026/07

'n Ontvangserkennings- en kommentaarvorm is hierby aangeheg vir u om asb te oorweeg en te voltooi. Hierdie vorm bevestig dat u in kennis gestel is van die voorgestelde leengroef op u eiendom en bied u die geleentheid om enige kwessies te lug aangaande die voorgestelde leengroefontwikkeling. Ons vra dat u asseblief die vorm aan ons Ena de Villiers sal terugstuur by die kontakbesonderhede hieronder. Ons sal dit waardeer indien u teen nie later as **18 Julie 2011** kan antwoord.

U is welkom om ons Ena de Villiers (e-pos: ena@ccaenvironmental.co.za) of die ondergetekende te kontak indien u enige navrae in die verband het.

Vriendelike groete



Jonathan Crowther Pr.Sci.Nat., CEAPSA
CCA ENVIRONMENTAL (MPY) BPK

Aanhangsels

cc. Mr Gordon Robertson - Aurecon SA (Mpy) Bpk



Ligging van voorgestelde Leengroef BP R27-8 km 61.6 RHS 1.0 op die Oorblywende Gedeelte van Gedeelte 1 van die plaas Enkelde Wilgenboom 768



**VOORGESTELDE LEENGROEWE VIR DIE VERSTERKING VAN
DIE R27 GEDEELTE 7 & 8 TUSSEN DIE WES-/NOORD-KAAP
GRENS (KM 40.0) EN CALVINIA (KM 70.0)
BENUTTING VAN LEENGROEWE**

**PROPOSED BORROWPITS FOR THE STRENGTHENING OF THE
R27 SECTIONS 7 & 8 BETWEEN THE WESTERN/NORTHERN
CAPE BORDER (KM 40.0) AND CALVINIA (KM 70.0)
UTILISATION OF BORROWPITS**

LEENGROEF NO. / BORROW PIT NO.	BP R27-8 km 61.6 RHS 1.0
GEREGISTREERDE PLAAS NAAM / REGISTERED FARM NAME	
GEREGISTREERDE EIENAAR / REGISTERED OWNER	

Ek bevestig dat ek verwittig is van SANRAL se voorneme om 'n voorgestelde leengroef op my eiendom te benut, soos aangedui op die aangehegte plan, vir die versterking van Gedeeltes 7 & 8 van die R27 tussen die Wes-/Noord-Kaap grens en Calvinia; en dat ek bewus is van die ligging en omvang van die gebied en dat toegang oor my eiendom benodig mag word.

I acknowledge that I have been informed of SANRAL's intention to utilise a proposed borrow pit on my property indicated on the attached plan for the strengthening of Section 7 & 8 of the R27 between the Western/Northern Cape border and Calvinia; and that I am aware of the location and extent of the area and that access to the area may be required across my property.

**HANDTEKENING VAN EIENAAR OF GEDELEGEERDE VERTEENWOORDIGER / SIGNATURE
OF OWNER OR DELEGATED REPRESENTATIVE**

.....

**STATUS INDIEN NIE GEREGISTREEDE EIENAAR NIE/ STATUS IF NOT REGISTERED
OWNER.....**

DATUM/ DATE.....

NAAM/ NAME.....

POSADRES/ POSTAL ADDRESS

.....

TELEFOONNOMMER/ TELEPHONE NUMBER.....

FAKSNOMMER/ FAX NUMBER.....

E-POSADRES/ E-MAIL ADDRESS.....

KOMMENTAAR/ COMMENT

NEE / NO

JA / YES

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Please forward to / Stuur asseblief aan:

CCA ENVIRONMENTAL (PTY) LTD
 Unit 35, Roeland Square, Cape Town, 8001
 PO Box 10145, Caledon Square, 7905
 T: (021) 461 1118 F: (021) 461 1120
 Email: ena@ccaenvironmental.co.za




Aur02/Let 31 Aug11

31 August 2011

Dear Sir/Madam

PROPOSED STRENGTHENING (PARTIAL RECONSTRUCTION) OF THE R27 SECTION 7 & 8 BETWEEN THE WESTERN/NORTHERN CAPE BORDER (KM 40.0) AND CALVINIA (KM 70.0) (DEA REFERENCE NO: 12/12/20/2272): AVAILABILITY OF ENVIRONMENTAL MANAGEMENT PROGRAMME FOR THREE STRATEGIC BORROWPITS FOR REVIEW AND COMMENT

Our previous correspondence of 18 August 2011 regarding the above-mentioned proposed project refers. This letter provides information on the availability of the Environmental Management Programme (EMP) for review and comment.

The project includes the proposed development of the following three borrowpits:

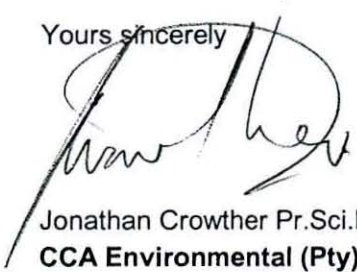
- BP R27-8 km 32.6 RHS 6.2, along the R364 approximately 6 km south-west of the R27, on Portion 1 of Farm Bloedzuigerfontein North 782 ("Merino");
- BP R27-8 km 45.0 RHS 0.2, along the R27 approximately 23 km west of Calvinia, on the Remainder of Portion 1 of Farm Buffelskopfontein 773 ("Doega B"); and
- BP R27-8 km 61.6 RHS 1.0, approximately 7 km south-west of Calvinia on the Remainder of Portion 1 of Farm Enkelde Wilgenboom 768 near the Calvinia Airfield.

The EMP has been compiled and submitted to the Department of Mineral Resources (DMR) as part of the application for borrowpit approval. Notice is hereby given in terms of the Mineral and Petroleum Resources Development Act (No. 28 of 2002) that the EMP is available for a 30-day review and comment period from **1 to 30 September 2011**. It should be noted that all comments / issues raised during the initial consultation process have been addressed and responded to in the EMP.

A copy of the EMP is available on the CCA website (www.ccaenvironmental.co.za).

Interested and Affected Parties (I&APs) wishing to receive additional information or who would like to submit written comments on the EMP are invited to contact our Ms Ena de Villiers (ena@ccaenvironmental.co.za) at the contact details provided below. All additional comments or concerns should reach the offices of CCA Environmental **no later than 30 September 2011**.

Yours sincerely


Jonathan Crowther Pr.Sci.Nat., CEAPSA
CCA Environmental (Pty) Ltd

Aur02R27/corr/I&APs/Let I&AP notification re BP EMP – August 2011

CCA ENVIRONMENTAL (Pty) Ltd • Consulting Services

Unit 35 Roeland Square 30 Drury Lane Cape Town 8001 • PO Box 10145 Caledon Square 7905

Tel +27 (21) 461 1118/9 • Fax +27 (21) 461 1120 • email: info@ccaenvironmental.co.za • website: www.ccaenvironmental.co.za

Directors: J Crowther F Fredericks • Reg No 2003/019026/07

Aur02/Let 31 Aug11

31 Augustus 2011

Geagte Heer/Dame

VERSTERKING (GEDEELTELIKE HERBOUING) VAN DIE R27 GEDEELTES 7 & 8 TUSSEN DIE WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0) (DOS VERW.NO. 12/12/20/2272): BESKIKBAARSTELLING VAN 'N OMGEWINGSBESTUURSPROGRAM VIR DRIE STRATEGIESE LEENGROEWE VIR OORSIG EN KOMMENTAAR

Ons vorige korrespondensie van 18 Augustus 2011 in verband met die bostaande voorgestelde projek het betrekking. Hierdie brief verskaf inligting oor die beskikbaarheid van die Omgewingsbestuursprogram (OBP) vir oorsig en kommentaar.

Die projek sluit die beoogde ontwikkeling van die volgende drie leengroewe in:

- BP R27-8 km 32.6 RHS 6.2, langs for R364 ongeveer 6 km suid-wes van die R27, op Gedeelte 1 van die Plaas Bloedzuigerfontein Noord 782 ("Merino");
- BP R27-8 km 45.0 RHS 0.2, langs die R27 ongeveer 23 km wes van Calvinia, op die Oorblywende Gedeelte van Gedeelte 1 van die Plaas Buffelskopfontein 773 ("Doega B"); en
- BP R27-8 km 61.6 RHS 1.0, ongeveer 7 km suid-wes van Calvinia op die Oorblywende Gedeelte van Gedeelte 1 van die Plaas Enkelde Wilgenboom 768 naby die Calvinia Landingsstrook.

Die EMP is saamgestel en by die Department van Minerale Hulpbronne (DMR) ingehandig as deel van die aansoek vir goedkeuring van die leengroewe. Kennis geskied hiermee in gevolge die Wet op die Ontwikkeling van Minerale- en Petroleumhulpbronne (No. 28 van 2002) (MPRDA) dat die OBP beskikbaar is vir 'n 30-dae openbare oorsig- en kommentaarperiode vanaf **1 tot 30 September 2011**. Let asseblief daarop at alle kommentaar / kwessies wat gedurende die aanvanklike konsultasieproses geopper is, in die OBP ingesluit en hanteer is.

'n Afskrif van die OBP is beskikbaar op die CCA webblad (www.ccaenvironmental.co.za).

Belangstellende en Belanghebbende Persone (BBPe) wat bykomende inligting verlang of wat kommentaar wil lewer vir insluiting in die OBP word uitgenooi om ons Me Ena de Villiers (ena@ccaenvironmental.co.za) by die kontakbesonderhede hieronder te kontak. Alle addisionele kommentaar of kwessies moet die kantore van CCA Environmental **nie later nie as 30 September 2011** bereik.

Vriendelike groete



Jonathan Crowther Pr.Sci.Nat., CEAPSA
CCA Environmental (Mpy) Bpk

Aur02R27/corr/l&APs/Let I&AP notification re BP EMP – Afrikaans (31 Aug11)

CCA ENVIRONMENTAL (Pty) Ltd • Consulting Services

Unit 35 Roeland Square 30 Drury Lane Cape Town 8001 • PO Box 10145 Caledon Square 7905

Tel +27 (21) 461 1118/9 • Fax +27 (21) 461 1120 • email: info@ccaenvironmental.co.za • website: www.ccaenvironmental.co.za

Directors: J Crowther F Fredericks • Reg No 2003/019026/07

1 September 2011

Traveller's Rest (Mpy) Bpk
Posbus 309
Clanwilliam
8135

Aandag: Dr FJ Strauss

Geagte Dr Strauss

VOORGESTELDE LEENGROEFONTWIKKELING VIR DIE VERSTERKING VAN DIE R27 GEDEELTES 7 EN 8 TUSSEN DIE WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0)(DOS VERW.NO. 12/12/20/2272): BESKIKBAARHEID VAN OMGEWINGSBESTUURSPROGRAM VIR OORSIG EN KOMMENTAAR

Ons vorige korrespondensie van 15 Junie 2011 in verband met die voorgestelde ontwikkeling van leengroef BP 27 KM 32.6 RHS 6.2 op Gedeelte 1 van die Plaas Bloedzuigerfontein Noord 782 ("Merino"), verwys. Hierdie brief verskaf inligting oor die beskikbaarheid van die Omgewingsbestuursprogram (OBP) vir oorsig en kommentaar.

Die OBP is saamgestel en by die Departement van Mineralebronne (DMB) ingedien as deel van die aansoek vir goedkeuring vir die leengroewe. Kennis geskied hiermee aan u, as verteenwoordiger van die eienaar van die betrokke eiendom, in terme van die Wet op die Ontwikkeling van Minerale- en Petroleumhulpbronne (No. 28 van 2002) dat die OBP beskikbaar is vir 'n 30-dae oorsig- en kommentaarperiode vanaf **1 tot 30 September 2011**. 'n Elektroniese kopie (op rekenaarskyf) van die OBP is hierby ingesluit vir oorsig en kommentaar.

Let asseblief daarop dat alle kommentaar / kwessies wat gedurende die aanvanklike konsultasieproses geopper is in die OBP ingesluit en hanteer is. Indien u enige verdere kommentaar het of meen dat die response op kwessies wat u aanvanklik gelug het nie genoegsaam hanteer is nie, is u welkom om CCA Environmental skriftelik daarvan te verwittig. Alle addisionele kommentaar of kwessies moet die kantore van CCA Environmental **nie later nie as 30 September 2011** bereik.

Ons bedank u graag by voorbaat, en nooi u uit om ons Ena de Villiers (e-posadres: ena@ccaenvironmental.co.za) of die ondergetekende te kontak in verband met enige navrae oor hierdie aangeleentheid of indien u verdere inligting benodig.

Vriendelike groete



**Jonathan Crowther Pr.Sci.Nat., CEAPSA
CCA ENVIRONMENTAL (MPY) BPK**

Bylae

Aur02/Let-1 Sept 11

1 September 2011

Mnr JS Muller
Posbus 235
Calvinia
8190

Geagte Mnr Muller

VOORGESTELDE LEENGROEFONTWIKKELING VIR DIE VERSTERKING VAN DIE R27 GEDEELTES 7 EN 8 TUSSEN DIE WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0)(DOS VERW.NO. 12/12/20/2272): BESKIKBAARHEID VAN OMGEWINGSBESTUURSPROGRAM VIR OORSIG EN KOMMENTAAR

Ons vorige korrespondensie van 15 Junie 2011 in verband met die voorgestelde ontwikkeling van leengroef BP 27 KM 45.0 RHS 2.0 op die Oorblywende Gedeelte van Gedeelte 1 van die Plaas Buffelskopfontein 773 ("Doega B"), verwys. Hierdie brief verskaf inligting oor die beskikbaarheid van die Omgewingsbestuursprogram (OBP) vir oorsig en kommentaar.

Die OBP is saamgestel en by die Departement van Mineralebronne (DMB) ingedien as deel van die aansoek vir goedkeuring vir die leengroewe. Kennis geskied hiermee aan u, as eienaar van die betrokke eiendom, in terme van die Wet op die Ontwikkeling van Minerale- en Petroleumhulpbronne (No. 28 van 2002) dat die OBP beskikbaar is vir 'n 30-dae oorsig- en kommentaarperiode vanaf **1 tot 30 September 2011**. 'n Elektroniese kopie (op rekenaarskyf) van die OBP is hierby ingesluit vir oorsig en kommentaar.

Let asseblief daarop dat alle kommentaar / kwessies wat gedurende die aanvanklike konsultasieproses geopper is in die OBP ingesluit en hanteer is. Indien u enige verdere kommentaar het of meen dat die response op kwessies wat u aanvanklik gelug het nie genoegsaam hanteer is nie, is u welkom om CCA Environmental skriftelik daarvan te verwittig. Alle addisionele kommentaar of kwessies moet die kantore van CCA Environmental **nie later nie as 30 September 2011** bereik.

Ons bedank u graag by voorbaat, en nooi u uit om ons Ena de Villiers (e-posadres: ena@ccaenvironmental.co.za) of die ondergetekende te kontak in verband met enige navrae oor hierdie aangeleentheid of indien u verdere inligting benodig.

Vriendelike groete



**Jonathan Crowther Pr.Sci.Nat., CEAPSA
CCA ENVIRONMENTAL (MPY) BPK**

Bylae

Aur02R27/corr/Landownes BPs/Let - Landowner notification re EMP - Doega B - 1 Sept 2011

CCA ENVIRONMENTAL (Pty) Ltd • Consulting Services

Unit 35 Roeland Square 30 Drury Lane Cape Town 8001 • PO Box 10145 Caledon Square 7905

Tel +27 (21) 461 1118/9 • Fax +27 (21) 461 1120 • email: info@ccaenvironmental.co.za • website: www.ccaenvironmental.co.za

Directors: J Crowther F Fredericks • Associate: J Blood • Reg No 2003/019026/07

1 September 2011

Glendana Eiendom Beperk
Posbus 164
Calvinia
8190

Aandag: Mnr FJ Strauss

Geagte Mnr Strauss

VOORGESTELDE LEENGROEFONTWIKKELING VIR DIE VERSTERKING VAN DIE R27 GEDEELTES 7 EN 8 TUSSEN DIE WES-/NOORD-KAAP GRENS (KM 40.0) EN CALVINIA (KM 70.0)(DOS VERW.NO. 12/12/20/2272): BESKIKBAARHEID VAN OMGEWINGSBESTUURSPROGRAM VIR OORSIG EN KOMMENTAAR

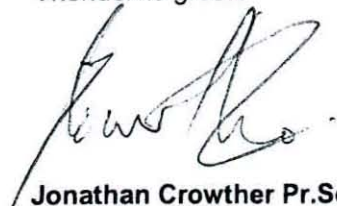
Ons vorige korrespondensie van 15 Junie 2011 in verband met die voorgestelde ontwikkeling van leengroef BP 27 km 61.6 RHS 1.0 op die Oorblywende Gedeelte van Gedeelte 1 van die Plaas Enkelde Wilgenboom 768, verwys. Hierdie brief verskaf inligting oor die beskikbaarheid van die Omgewingsbestuursprogram (OBP) vir oorsig en kommentaar.

Die OBP is saamgestel en by die Departement van Mineralebronne (DMB) ingedien as deel van die aansoek vir goedkeuring vir die leengroewe. Kennis geskied hiermee aan u, as verteenwoordiger van die eienaar van die betrokke eiendom, in terme van die Wet op die Ontwikkeling van Minerale- en Petroleumhulpbronne (No. 28 van 2002) dat die OBP beskikbaar is vir 'n 30-dae oorsig- en kommentaarperiode vanaf **1 tot 30 September 2011**. 'n Elektroniese kopie (op rekenaarskyf) van die OBP is hierby ingesluit vir oorsig en kommentaar.

Let asseblief daarop dat alle kommentaar / kwessies wat gedurende die aanvanklike konsultasieproses geopper is in die OBP ingesluit en hanteer is. Indien u enige verdere kommentaar het of meen dat die response op kwessies wat u aanvanklik gelug het nie genoegsaam hanteer is nie, is u welkom om CCA Environmental skriftelik daarvan te verwittig. Alle addisionele kommentaar of kwessies moet die kantore van CCA Environmental **nie later nie as 30 September 2011** bereik.

Ons bedank u graag by voorbaat, en nooi u uit om ons Ena de Villiers (e-posadres: ena@ccaenvironmental.co.za) of die ondergetekende te kontak in verband met enige navrae oor hierdie aangeleentheid of indien u verdere inligting benodig.

Vriendelike groete



**Jonathan Crowther Pr.Sci.Nat., CEAPSA
CCA ENVIRONMENTAL (MPY) BPK**

Bylae

Aur02R27/corr/Landownes BPs/Let - Landowner notification re EMP - Enkelde Wilgenboom - 1 Sept 2011

CCA ENVIRONMENTAL (Pty) Ltd • Consulting Services

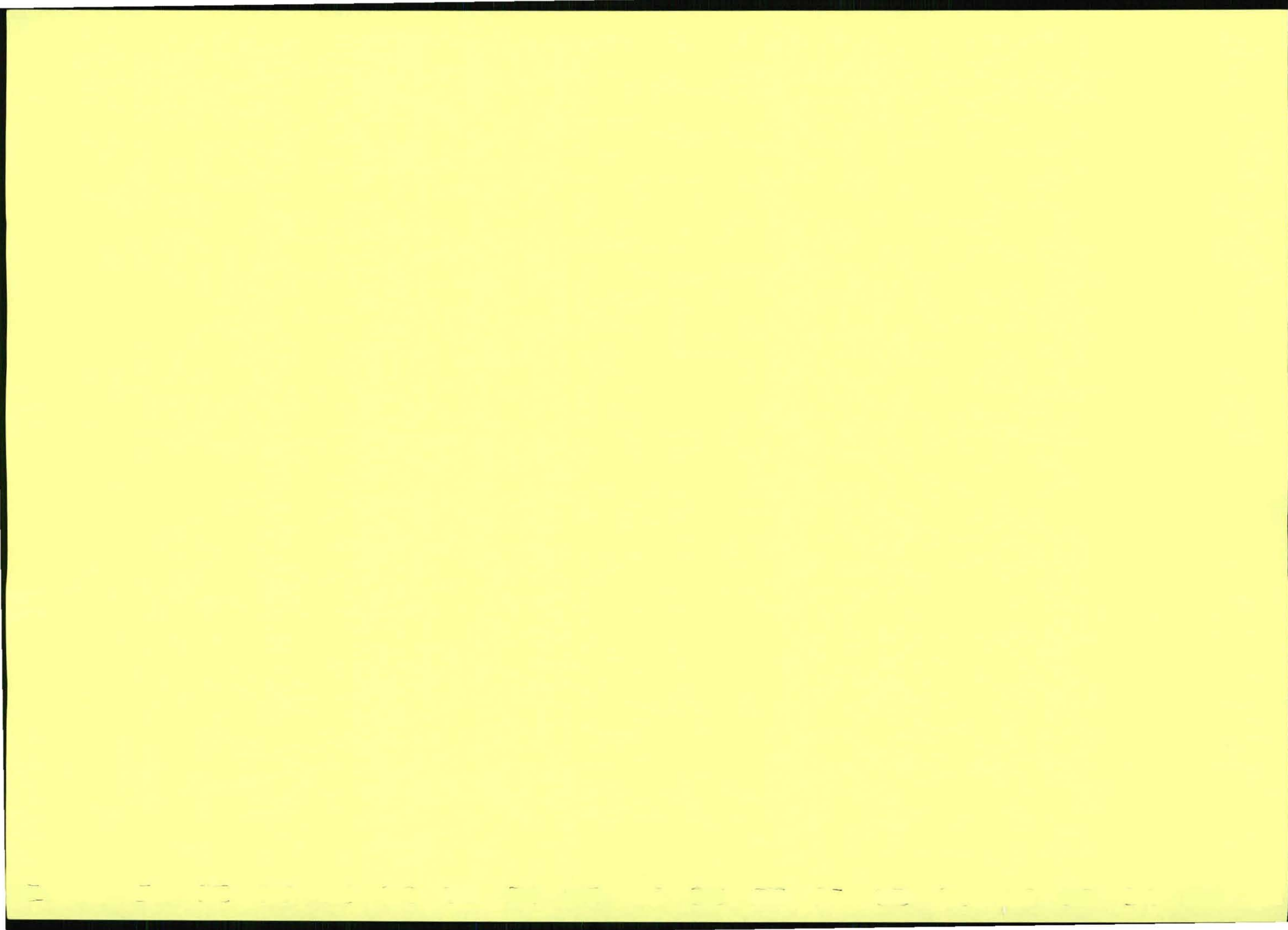
Unit 35 Roeland Square 30 Drury Lane Cape Town 8001 • PO Box 10145 Caledon Square 7905

Tel +27 (21) 461 1118/9 • Fax +27 (21) 461 1120 • email: info@ccaenvironmental.co.za • website: www.ccaenvironmental.co.za

Directors: J Crowther F Fredericks • Associate: J Blood • Reg No 2003/019026/07

APPENDIX 2:

CONVENTION FOR ASSIGNING SIGNIFICANCE RATINGS TO IMPACTS



CONVENTION FOR ASSIGNING SIGNIFICANCE RATINGS TO IMPACTS

Specialists will consider ten rating scales when assessing potential impacts. These include:

- Extent of impact;
- Duration of impact;
- Intensity of impact;
- Status of impact;
- Probability of impact occurring;
- Degree of confidence of assessment;
- Significance of impact;
- Degree to which a resource is lost;
- Degree to which impact can be mitigated; and
- Reversibility of impact

In assigning significance ratings to potential impacts before and after mitigation specialists are instructed to follow the approach presented below:

1. The core criteria for determining significance ratings are "extent" (Section 1.1), "duration" (Section 1.2) and "intensity" (Section 1.3). The preliminary significance ratings for combinations of these three criteria are given in Section 1.8.
2. Additional criteria to be considered, which could "increase" the significance rating if deemed justified by the specialist, with motivation, are the following:
 - Permanent / irreversible impacts (as distinct from long-term, reversible impacts);
 - Potentially substantial cumulative effects (see Item 9 below); and
 - High level of risk or uncertainty, with potentially substantial negative consequences.
3. Additional criteria to be considered, which could "decrease" the significance rating if deemed justified by the specialist, with motivation, is the following:
 - Improbable impact, where confidence level in prediction is high.
4. The status of an impact is used to describe whether the impact will have a negative, positive or neutral effect on the surrounding environment. An impact may therefore be negative, positive (or referred to as a benefit) or neutral (Section 1.5).
5. Describe the degree to which a resource is impacted (Section 1.4).
6. Describe the impact in terms of the probability of the impact occurring (Section 1.6) and the degree of confidence in the impact predictions, based on the availability of information and specialist knowledge (Section 1.7).
7. When assigning significance ratings to impacts *after mitigation*, the specialist needs to:
 - First, consider probable changes in intensity, extent and duration of the impact after mitigation, assuming effective implementation of mitigation measures, leading to a revised significance rating; and
 - Then moderate the significance rating after taking into account the likelihood of proposed mitigation measures being effectively implemented. Consider:
 - Any potentially significant risks or uncertainties associated with the effectiveness of mitigation measures;
 - The technical and financial ability of the proponent to implement the measure; and
 - The commitment of the proponent to implementing the measure, or guarantee over time that the measures would be implemented.
8. Describe the degree to which an impact can be mitigated or enhanced (Section 1.9) and reversed (Section 1.10).

9. The cumulative impacts of a project should also be considered. "Cumulative impacts" refer to the impact of an activity that may become significant when added to the existing activities currently taking place within the surrounding environment.
10. Where applicable, assess the degree to which an impact may cause irreplaceable loss of a resource. A resource assists in the functioning of human or natural systems, i.e. specific vegetation, minerals, water, agricultural land, etc.

The significance ratings are based on largely objective criteria and inform decision-making at a project level as opposed to a local community level. In some instances, therefore, whilst the significance rating of potential impacts might be "low" or "very low", the importance of these impacts to local communities or individuals might be extremely high. The importance which I&APs attach to impacts must be taken into consideration, and recommendations should be made as to ways of avoiding or minimising these negative impacts through project design, selection of appropriate alternatives and / or management.

The relationship between the significance ratings after mitigation and decision-making can be broadly defined as follows (see overleaf): substance

Significance rating	Effect on decision-making
VERY LOW; LOW	Will not have an influence on the decision to proceed with the proposed project, provided that recommended measures to mitigate negative impacts are implemented.
MEDIUM	Should influence the decision to proceed with the proposed project, provided that recommended measures to mitigate negative impacts are implemented.
HIGH; VERY HIGH	Would strongly influence the decision to proceed with the proposed project.

1. EXTENT

"Extent" defines the physical extent or spatial scale of the impact.

Rating	Description
LOCAL	Extending only as far as the activity, limited to the site and its immediate surroundings. Specialist studies to specify extent.
REGIONAL	Western Cape. Specialist studies to specify extent.
NATIONAL	South Africa
INTERNATIONAL	

2. DURATION

"Duration" gives an indication of how long the impact would occur.

Rating	Description
SHORT TERM	0 - 5 years
MEDIUM TERM	5 - 15 years
LONG TERM	Where the impact will cease after the operational life of the activity, either because of natural processes or by human intervention.
PERMANENT	Where mitigation either by natural processes or by human intervention will not occur in such a way or in such time span that the impact can be considered transient.

3. INTENSITY

"Intensity" establishes whether the impact would be destructive or benign.

Rating	Description
ZERO TO VERY LOW	Where the impact affects the environment in such a way that natural, cultural and social functions and processes are not affected.
LOW	Where the impact affects the environment in such a way that natural, cultural and social functions and processes continue, albeit in a slightly modified way.
MEDIUM	Where the affected environment is altered, but natural, cultural and social functions and processes continue, albeit in a modified way.
HIGH	Where natural, cultural and social functions or processes are altered to the extent that it will temporarily or permanently cease.

4. LOSS OF RESOURCES

"Loss of resource" refers to the degree to which a resource is permanently affected by the activity, i.e. the degree to which a resource is irreplaceable.

Rating	Description
LOW	Where the activity results in a loss of a particular resource but where the natural, cultural and social functions and processes are not affected.
MEDIUM	Where the loss of a resource occurs, but natural, cultural and social functions and processes continue, albeit in a modified way.
HIGH	Where the activity results in an irreplaceable loss of a resource.

5. STATUS OF IMPACT

The status of an impact is used to describe whether the impact would have a negative, positive or zero effect on the affected environment. An impact may therefore be negative, positive (or referred to as a benefit) or neutral.

6. PROBABILITY

"Probability" describes the likelihood of the impact occurring.

Rating	Description
IMPROBABLE	Where the possibility of the impact to materialise is very low either because of design or historic experience.
PROBABLE	Where there is a distinct possibility that the impact will occur.
HIGHLY PROBABLE	Where it is most likely that the impact will occur.
DEFINITE	Where the impact will occur regardless of any prevention measures.

7. DEGREE OF CONFIDENCE

This indicates the degree of confidence in the impact predictions, based on the availability of information and specialist knowledge.

Rating	Description
HIGH	Greater than 70% sure of impact prediction.
MEDIUM	Between 35% and 70% sure of impact prediction.
LOW	Less than 35% sure of impact prediction.

8. SIGNIFICANCE

"Significance" attempts to evaluate the importance of a particular impact, and in doing so incorporates the above three scales (i.e. extent, duration and intensity).

Rating	Description
VERY HIGH	Impacts could be EITHER: of <i>high intensity</i> at a <i>regional level</i> and endure in the <i>long term</i> ; OR of <i>high intensity</i> at a <i>national level</i> in the <i>medium term</i> ; OR of <i>medium intensity</i> at a <i>national level</i> in the <i>long term</i> .
HIGH	Impacts could be EITHER: of <i>high intensity</i> at a <i>regional level</i> and endure in the <i>medium term</i> ; OR of <i>high intensity</i> at a <i>national level</i> in the <i>short term</i> ; OR of <i>medium intensity</i> at a <i>national level</i> in the <i>medium term</i> ; OR of <i>low intensity</i> at a <i>national level</i> in the <i>long term</i> ; OR of <i>high intensity</i> at a <i>local level</i> in the <i>long term</i> ; OR of <i>medium intensity</i> at a <i>regional level</i> in the <i>long term</i> .
MEDIUM	Impacts could be EITHER: of <i>high intensity</i> at a <i>local level</i> and endure in the <i>medium term</i> ; OR of <i>medium intensity</i> at a <i>regional level</i> in the <i>medium term</i> ; OR of <i>high intensity</i> at a <i>regional level</i> in the <i>short term</i> ; OR of <i>medium intensity</i> at a <i>national level</i> in the <i>short term</i> ; OR of <i>medium intensity</i> at a <i>local level</i> in the <i>long term</i> ; OR of <i>low intensity</i> at a <i>national level</i> in the <i>medium term</i> ; OR of <i>low intensity</i> at a <i>regional level</i> in the <i>long term</i> .
LOW	Impacts could be EITHER of <i>low intensity</i> at a <i>regional level</i> and endure in the <i>medium term</i> ; OR of <i>low intensity</i> at a <i>national level</i> in the <i>short term</i> ; OR of <i>high intensity</i> at a <i>local level</i> and endure in the <i>short term</i> ; OR of <i>medium intensity</i> at a <i>regional level</i> in the <i>short term</i> ; OR of <i>low intensity</i> at a <i>local level</i> in the <i>long term</i> ; OR of <i>medium intensity</i> at a <i>local level</i> and endure in the <i>medium term</i> .
VERY LOW	Impacts could be EITHER of <i>low intensity</i> at a <i>local level</i> and endure in the <i>medium term</i> ; OR of <i>low intensity</i> at a <i>regional level</i> and endure in the <i>short term</i> ; OR of <i>low to medium intensity</i> at a <i>local level</i> and endure in the <i>short term</i> .
INSIGNIFICANT	Impacts with: Zero to very low intensity with any combination of extent and duration.
UNKNOWN	In certain cases it may not be possible to determine the significance of an impact.

9. DEGREE TO WHICH IMPACT CAN BE MITIGATED

This indicates the degree to which an impact can be reduced / enhanced.

Rating	Description
NONE	No change in impact after mitigation.
VERY LOW	Where the significance rating stays the same, but where mitigation will reduce the intensity of the impact.
LOW	Where the significance rating drops by one level, after mitigation.
MEDIUM	Where the significance rating drops by two to three levels, after mitigation.
HIGH	Where the significance rating drops by more than three levels, after mitigation.

10. REVERSIBILITY OF AN IMPACT

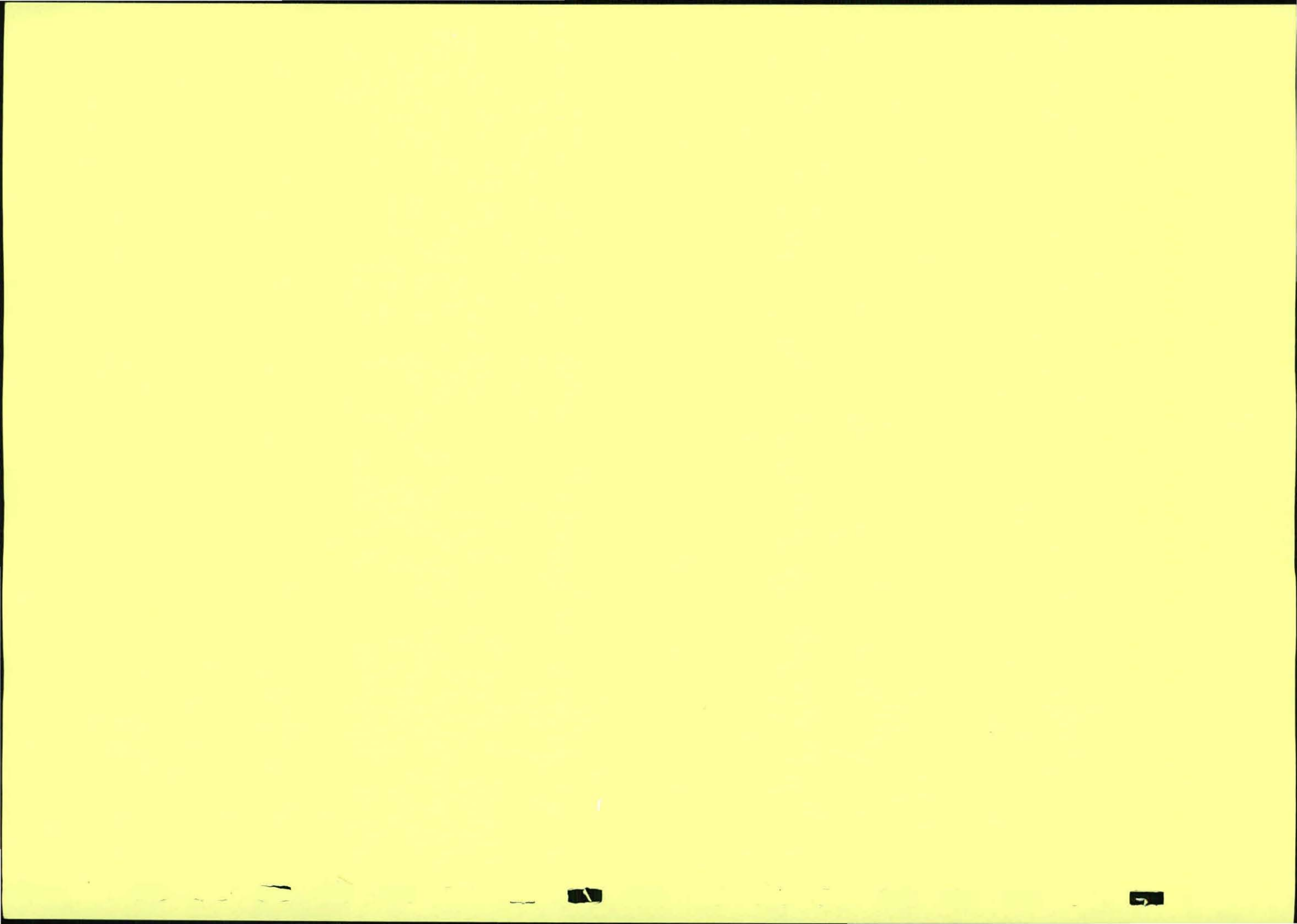
This refers to the degree to which an impact can be reversed.

Rating	Description
IRREVERSIBLE	Where the impact is permanent.
PARTIALLY REVERSIBLE	Where the impact can be partially reversed.
FULLY REVERSIBLE	Where the impact can be completely reversed.

APPENDIX 3:

SPECIALIST REPORT:

FRESHWATER ECOLOGY ASSESSMENT



**Freshwater Assessment for the Proposed Strengthening of National Route 27
Section 7 & 8 between the Western/Northern Cape Border and Calvinia**

May 2011



Prepared for:
CCA Environmental
P.O. Box 10145
Caledon Square
7905

Prepared By:
Toni Belcher
Cell: 082 883 8055
Email: toni.b@iburst.co.za

Executive Summary

The South African National Roads Agency Limited (SANRAL) is proposing to strengthen and partially reconstruct certain structures on the R27 between the Western / Northern Cape border and Calvinia. The proposed project comprises of upgrading of the approximately 73-km road section by strengthening the existing layers and limited widening of the road; widening of three bridges and the possible widening or reconstruction of some of the major culverts; and the development of a number of borrow areas for the sourcing of road-building material and crushed aggregates. Water is also required for construction purposes.

The Oorlogskloof River is in a moderately modified ecological state, with low ecological importance and sensitivity. The expected impacts of the proposed activities are likely to be of a very low significance and limited to the already disturbed area surrounding the existing road and bridges, as well as the borrow pits and quarries. They are also likely to mostly occur while construction activities are taking place. Provided that the following recommended mitigation measures are implemented the significance of the impact is expected negligible:

- *Construction activities taking place within the river channel and riparian zone should be limited as far as possible to ensure minimum disturbance of this area. Disturbed areas within the riparian zones should be rehabilitated as soon as possible after construction has been completed and revegetated with suitable indigenous riparian vegetation.*
- *Construction should preferably take place during the low flow period.*
- *All rubble and waste material resulting from the construction activities should be removed from the river and drainage channels.*
- *Invasive alien plants should be removed from the riparian zone of the disturbed areas.*
- *Runoff from the construction sites should be prevented from entering the stream but should rather be diverted through screens and off-channel retention ponds.*
- *All materials on the construction sites should be properly stored and contained.*
- *Disposal of waste from the sites should also be properly managed.*
- *Construction workers should be given ablution facilities at the construction sites that are located away from the river system and regularly serviced.*
- *Stockpiled material at the quarries and borrow pits must be removed from the drainage/stream channel and the sites rehabilitated after material has been removed.*

The only proposed activity of concern is the proposed abstraction of water from the Doring River for Construction purposes. Due to the conservation and tourism value of the Doring River downstream of the proposed abstraction site, it is recommended that an alternative water source be found. A water use authorization application will need to be submitted to the Department of Water Affairs Western Cape Regional Office for approval of the water use aspects of the proposed activities, and in particular the proposed construction activities associated with the upgrade of the bridges.

TABLE OF CONTENTS

Executive Summary	i
1. Background	1
2. Terms of Reference	2
3. Approach to the study and study limitations and assumptions	3
4. Use of the Report	3
5. Overview of proposals	4
5.1 Overview of the Study Area	4
5.2. Activity Description	4
5.3. Legal requirements	5
6. Aquatic Systems in the study area	7
6.1. Characteristics of the Study Area	7
6.2. Freshwater Assessment of the Study Area	12
6.3. Evaluation of Sites	18
7. Assessment of Impacts	27
8. Conclusion and Recommendations	33
9. References	34
 Annexure A: Details of Specialist and Declaration of Interest	

1. BACKGROUND

The South African National Roads Agency Limited (SANRAL) is proposing to strengthen and partially reconstruct certain structures on the R27 between the Western / Northern Cape border and Calvinia (Figure 1). The proposed project comprises of upgrading of the approximately 73-km road section by strengthening the existing layers and limited widening of the road; widening of three bridges and the possible widening or reconstruction of some of the major culverts; and the development of a number of borrow areas for the sourcing of road-building material and crushed aggregates. Water is also required for construction purposes.

CCA Environmental (Pty) Ltd (CCA) has been appointed by Aurecon (Pty) Ltd, the engineering consultant for the proposed project, on behalf of the SANRAL, to act as the independent environmental consultant to undertake the necessary Basic Assessment process and associated public consultation process for the proposed project. This report is to inform the freshwater component of the Basic Assessment process.



Figure 1. Aerial view of the R27 between Nieuwoudtville and Calvinia with the Oorlogskloof River (Google Earth, 2011)

2. TERMS OF REFERENCE

The following general Terms of Reference apply to this Specialist Study:

- Include the completed form entitled "Details of specialist and declaration of interest" as required by the Department of Environmental Affairs (DEA), together with a short CV indicating qualifications and experience, in the specialist report.

- Review previous work done in the area and describe the baseline conditions that exist in the study area.
- Provide a full assessment report on any sensitive areas identified in the road reserve as well as the seven borrow pit sites and four bridge sites.
- Provide a brief outline of the approach used in the study. Assumptions, sources of information and the difficulties with predictive models must also be clearly stated.
- If applicable, provide a brief description of any consultation process that was undertaken, as well as a brief description and copies of any comments that were received during any consultation process.
- Identify and assess potential impacts of the construction, operational and closure/decommissioning phases, as relevant in the case of each site. To ensure that specialists use a common standard, the determination of the significance of the assessed impacts will be undertaken in accordance with CCA's Convention for Assigning Significance Ratings to Impacts. A table template for reporting on impact assessment is provided in Attachment C for use in assessment reports.
- Identify feasible ways in which impacts could be mitigated and benefits enhanced giving an indication of the likely effectiveness of such mitigation and how these could be implemented in the construction and management of the proposed development.
- Identify and assess any cumulative impacts arising from the proposed project.
- Identify and list all legislation and permit requirements that are relevant to the development proposal in the specific field of expertise, and provide guidance for compliance with any relevant legislation.
- Indicate the reliability of information utilised in the assessment of impacts, as well as any constraints to which the assessment was subjected (e.g. any areas of insufficient information or uncertainty).
- Indicate whether any of these areas of insufficient information or uncertainty associated with the specialist study would impact on the decision whether or not to authorise the proposed project.
- Comply with guidelines on specialist study requirements for EIA provided by the Department of Environmental Affairs (DEA) and the Department of Environmental Affairs and Development Planning (DEA&DP) of the Western Cape Province², as well as the requirements listed in Sections 17 and 32(2) of the EIA Regulations 2010 dated 18 June 2010 promulgated in terms of Chapter 5 of NEMA.

The specific Terms of Reference for the freshwater ecosystem assessment are as follows:

- Provide a broad, baseline description of the freshwater systems (including rivers, watercourses and wetlands) of the study area, placing it in a regional context.
- Provide specific information relating to the freshwater systems on each borrow pit and bridge site, with reference to locations of special concern and their conservation status and/or ecological importance, which can be used as baseline information for the assessment of potential impacts of the proposed project.
- Provide guidance on any special standards prescribed by the Department of Water Affairs (DWA) or any other authority in relation to the freshwater systems included in this study.

- Identify, describe and assess the impacts of the proposed activities and any activity alternatives on freshwater ecosystems.
- Recommend appropriate, practicable mitigation measures that will reduce all major (significant) impacts or enhance potential benefits, if any.
- Advise on the appropriate procedure(s) and format(s) to be followed in relation to a Water Use Licence (WUL) Application for Section 21 (a), (c) and (i) water uses (taking water from a water resource; impeding or diverting the flow of water in a watercourse; and altering the bed, banks, course or characteristics of a watercourse) as required for the proposed project.
- Compile the documentation required for a Water Use Licence (WUL) Application for submission to the relevant authority.

3. APPROACH TO THE STUDY AND STUDY LIMITATIONS AND ASSUMPTIONS

Input into this report was informed by a combination of desktop assessments of existing freshwater ecosystem information for the study area and catchment, as well as by a more detailed assessment of the freshwater features along the section of the road to be upgraded and at the bridge sites. The river health assessment was carried out using South African Department of Water Affairs developed methodologies. River Health assessments were carried out to provide information on the ecological condition and ecological importance and sensitivity of the river systems to be impacted.

The site was visited in April 2011. During the field visit, the characterisation, mapping and integrity assessments of the freshwater features were assessed. This information/data was used to inform the potential impact of the proposed activities as well as the recommended mitigation measures.

Limitations and uncertainties often exist within the various techniques adopted to assess the condition of ecosystems. The following limitations apply to the techniques and methodology utilized to undertake this study:

- Analysis of the freshwater ecosystems was undertaken according to nationally developed methodologies and was undertaken at a rapid level which was considered a suitable level of evaluation for this freshwater impact assessment.
- Recommendations are made with respect to the adoption of buffer zones for the proposed activities, based on river and wetland ecosystem functioning and site characteristics. These recommendations are based on professional opinion due to the lack of a formal methodology for buffer zone determination within South Africa.

4. USE OF THIS REPORT

This report reflects the professional judgment of its author. The full and unedited content of this should be presented to the client. Any summary of these findings should only be produced in consultation with the author.