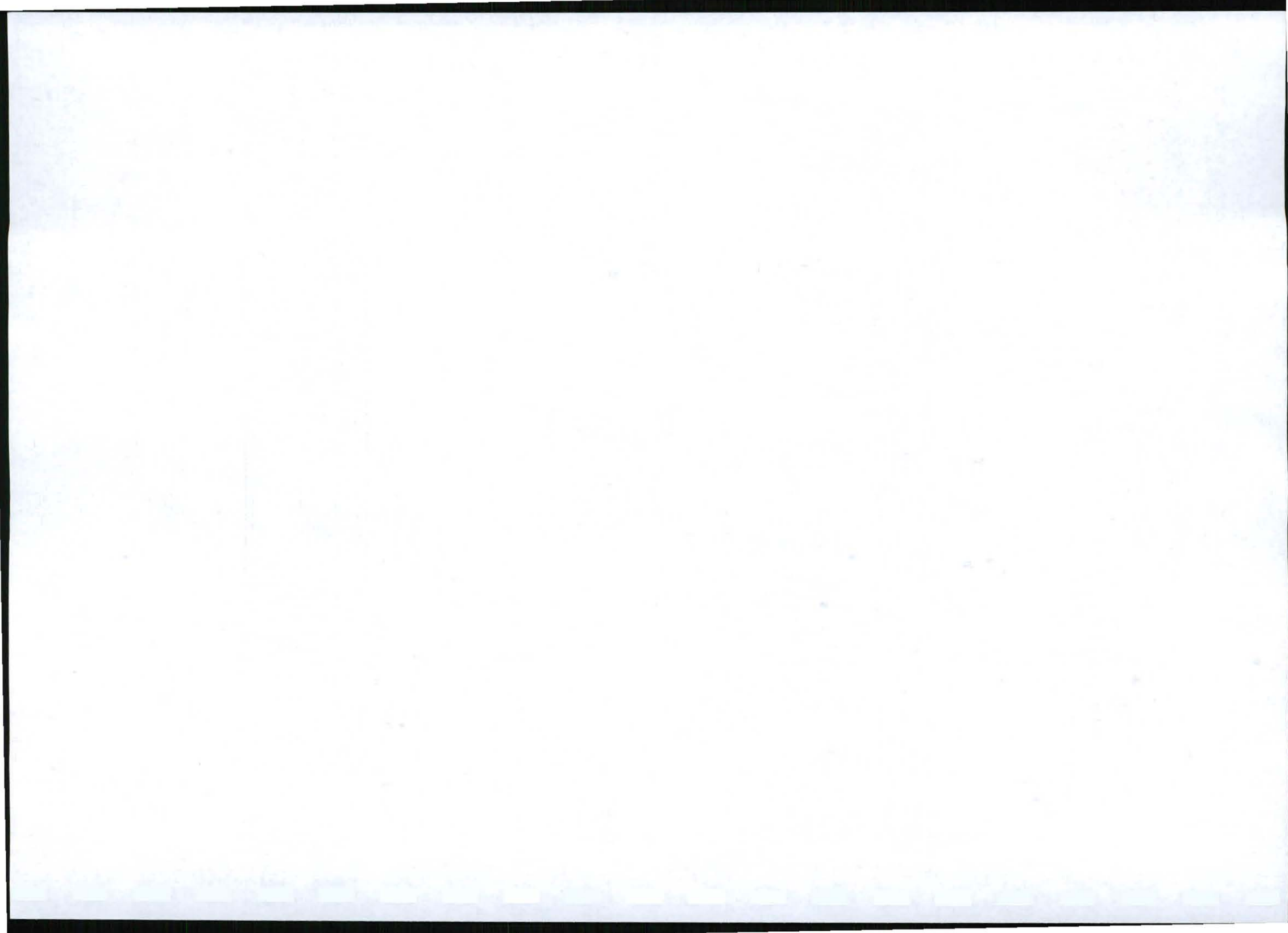


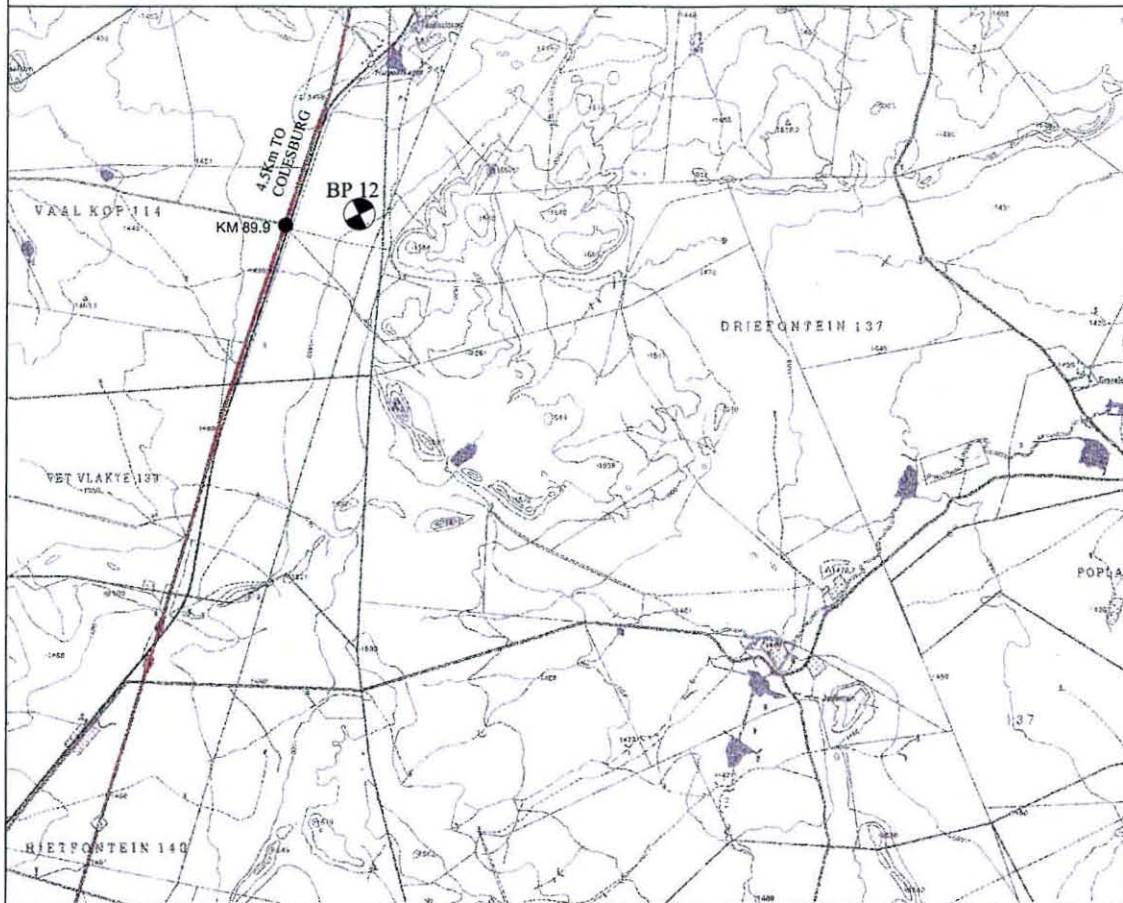
APPENDIX B12.1

PROPOSED BORROW PIT  
LAYOUT PLAN



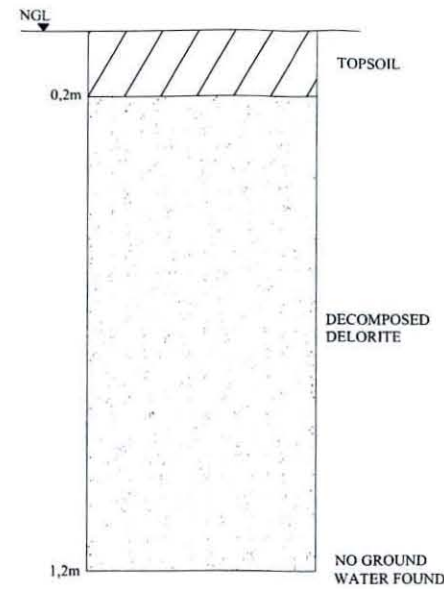
ORIGINAL 1 : 50 000  
3025 CC

BORROWPIT 12 COORDINATES  
Y -8114.540 X 3406440.814

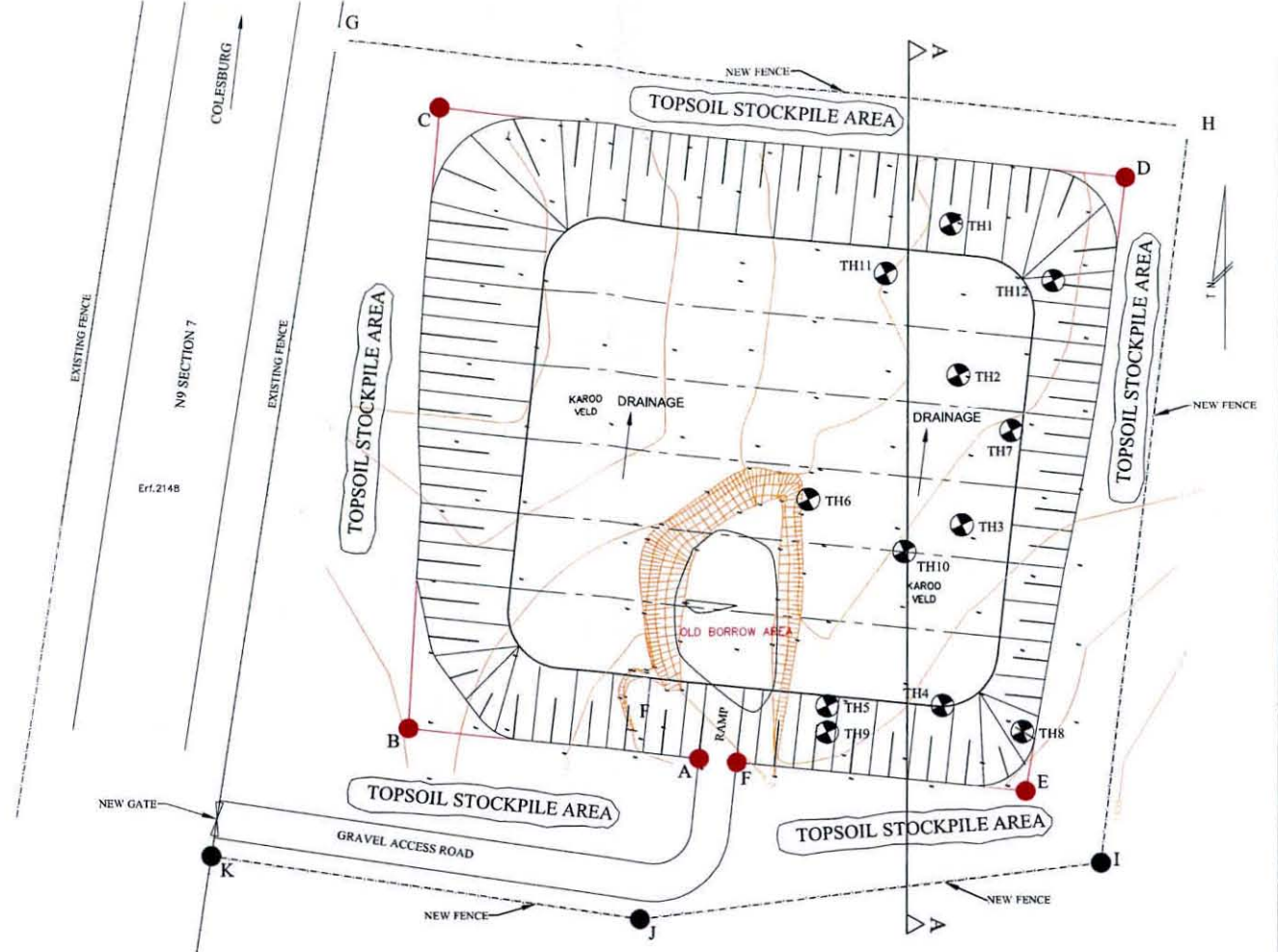


LOCALITY PLAN

N.T.S



TEST HOLE PROFILE  
N.T.S



**LEGEND**

- POSITION OF BORROWPIT
- ERF BOUNDARY

**NOTES:**

- ANY INVADER SPECIES WILL BE REMOVED FROM THE SITE BEFORE ANY TOPSOIL IS CLEARED. THE TOPSOIL WILL BE STRIPPED TO A MINIMUM DEPTH OF 20cm IF AVAILABLE AND STORED AWAY FROM DRAINAGE LINES ALONG THE EDGES OF THE EXCAVATED AREA. STOCKPILES WILL NOT EXCEED 1m IN HEIGHT AND WILL NOT BE COMPACTED FOR MORE THAN SIX MONTHS BEFORE BEING USED FOR REHABILITATION. TOPSOIL WILL BE SPREAD ON THE SURFACE AS SOON AS THE BORROW PIT EXCAVATION HAS BEEN COMPLETED AND ITS SLOPES HAVE BEEN FINISHED OFF AS REQUIRED.
- THE BORROW PIT SITE AND EXISTING ACCESS ROAD WILL BE PROPERLY DEMARCATED AND FENCED OFF BEFORE COMMENCEMENT OF MINING OPERATION.
- DUST EMISSIONS WILL BE EFFECTIVELY CONTROLLED BY APPROPRIATE MEASURES SUCH AS SPRAYING WATER AND/OR OTHER DUST CONTROL MEASURES. EXCAVATED MATERIAL STOCKPILES WILL BE ADEQUATELY PROTECTED AGAINST THE WIND, WHERE NECESSARY, THROUGH MEASURES SUCH AS SHADECLOTH SCREENS OR HESSIAN COVERING. IN THE SHORT TERM, STOCKPILES MAY ALSO BE DAMPENED TO MINIMIZE DUST GENERATION.
- VEHICLE SPEEDS WILL BE RESTRICTED TO PREVENT ACCIDENTS, TO REDUCE DUST AND NOISE POLLUTION AND TO PREVENT ANY POSSIBLE INJURY TO LIVESTOCK.
- ACCESS TO ALL GATES WILL BE CONTROLLED AS AGREED WITH THE LANDOWNER / LESSEE AND IN ACCORDANCE WITH THEIR REQUIREMENTS.
- A TEMPORARY EATING AREA WILL BE PROVIDED WITHIN THE BORROW PIT AREA TO ENSURE THAT SITE PERSONNEL DO NOT MOVE OFF SITE TO EAT. ABLUTION FACILITIES WILL BE PROVIDED AND WILL BE LOCATED TO PREVENT THE POLLUTION OF GROUNDWATER. TOILET PAPER WILL BE PROVIDED.
- TEMPORARY WASTE DISPOSAL AREAS WILL BE DEMARCATED AND FENCED (IF NECESSARY) AND WASTE WILL BE COLLECTED AND STORED IN WEATHERPROOF CONTAINERS (WITH LIDS) WITHIN THIS AREA FOR DISPOSAL AT A LICENSED WASTE DISPOSAL FACILITY. ALL WASTE WILL BE REMOVED FROM SITE BY THE CONTRACTOR. NO BURNING, ON-SITE DUMPING OR BURYING OF WASTE WILL OCCUR.
- MAXIMUM DEPTH OF MINING : 5m. ( MEASURED FROM NATURAL GROUND LEVELS TO TERRACE LEVEL )
- MINING OF BORROW PIT WILL REQUIRE HEAVY RIPPING.
- ALL WORKED AREAS WILL BE RIPPED AND SCARIFIED AND TOPSOIL WILL BE REPLACED. ANY ROCKS OR BRANCHES WILL BE HAPHAZARDLY SCATTERED OVER THE SITE TO PROVIDE GOOD GERMINATION MICROSITES FOR PLANTS. THE TOPOGRAPHY TO BE FINISHED OFF SO THAT THE SIDES OF THE BORROW AREA ARE NO STEEPER THAN 1:5. THE SLOPE CHANGES WILL BE FINISHED OFF SO THAT FLOWING CURVES THAT BLEND WITH THE SURROUNDING LANDSCAPES ARE FORMED IN PREFERENCE TO SHARP ANGLES.

FENCELINE		
POINT ID	CO-ORDINATES : WGS84	
	Y	X
G	-8004.756	3406328.803
H	-8229.568	3406352.284
I	-8206.689	3406547.932
J	-8085.628	3406562.786
K	-7972.484	3406545.966

FENCED AREA = 4.96 Ha

TEST HOLES		
POINT ID	CO-ORDINATES : WGS84	
	Y	X
TH1	-8167	3406378
TH2	-8169	3406418
TH3	-8170	3406458
TH4	-8165	3406506
TH5	-8135	3406506
TH6	-8130	3406451
TH7	-8183	3406433
TH8	-8186	3406513
TH9	-8135	3406511
TH10	-8155	3406465
TH11	-8150	3406391
TH12	-8194	3406393

EXTENT OF BORROW PIT		
POINT ID	CO-ORDINATES : WGS84	
	Y	X
A	-8101.257	3406519.862
B	-8024.008	3406511.793
C	-8031.627	3406346.691
D	-8212.906	3406365.625
E	-8186.830	3406258.799
F	-8111.203	3406520.900

AREA OF PIT = 2.88 Ha

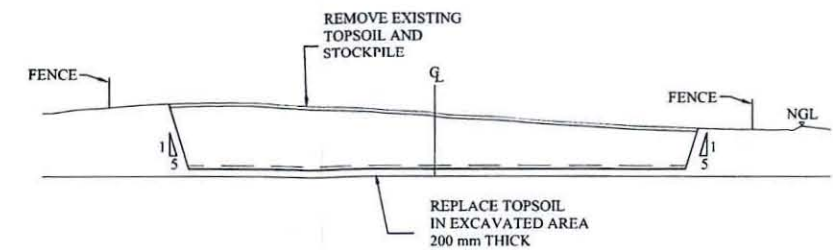
MATERIAL DESCRIPTION : DECOMPOSED DOLERITE  
PROPOSED USAGE : FILL  
TOTAL CAPACITY : 70 000 m<sup>3</sup>

ERF : 1272

BORROW PIT No. 12:  
OWNER : MR HUGO  
ADDRESS : P. O. BOX 221, COLESBURG, 9795  
TEL : 051 753 1358 / 082 873 1033

**LEGEND**

- TEST HOLES
- BORROW PIT BOUNDARY
- EXTENT OF BORROW PIT
- FENCE BOUNDARY
- FENCE LINE
- BATTER SLOPES



SECTION A - A  
ESTIMATED CAPACITY = 70 000 m<sup>3</sup>

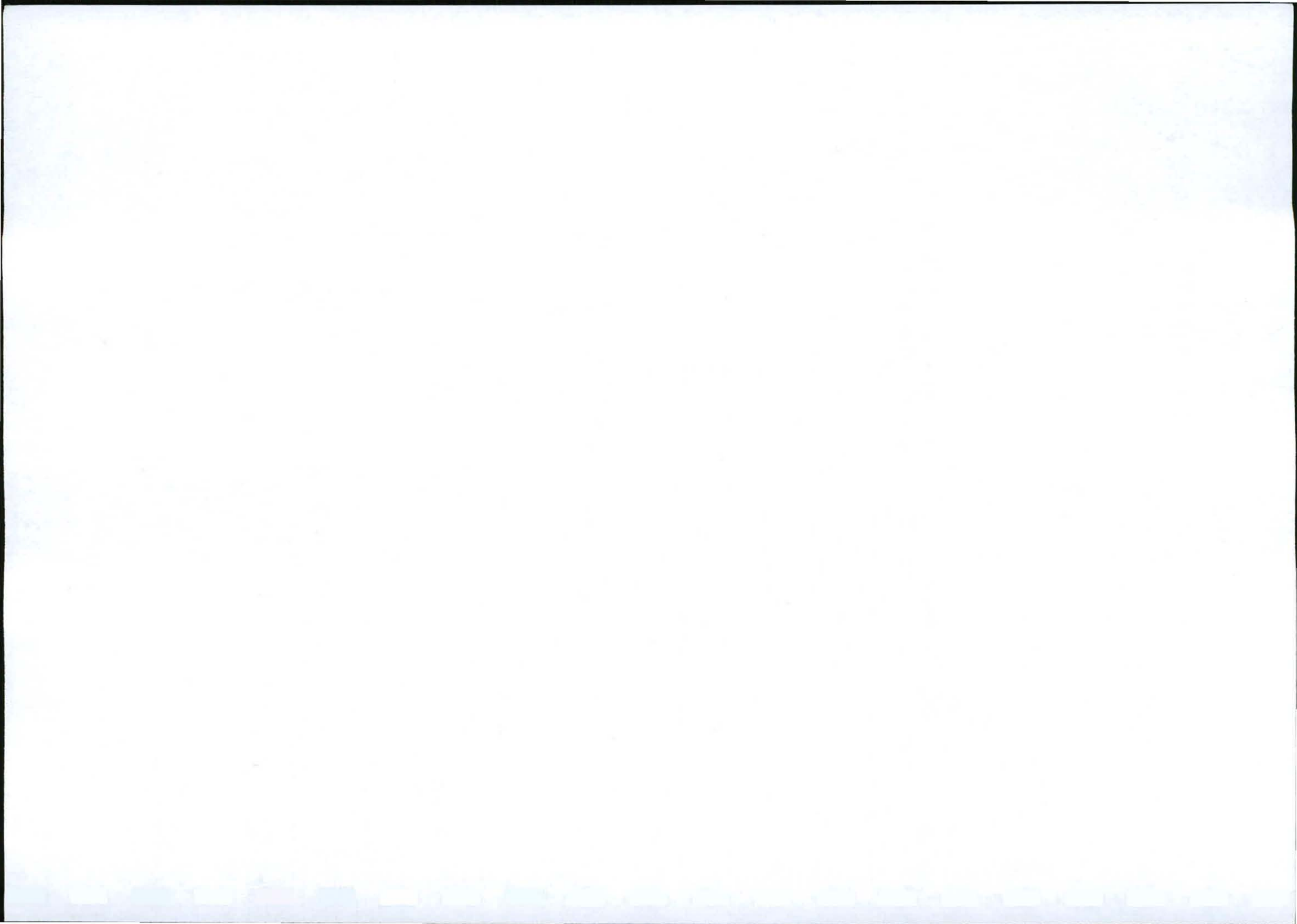
UWP CONSULTING CONSULTING ENGINEERS MVELASERVE HOUSE, GROUND FLOOR REGENT SQUARE DONCASTER RD KENILWORTH 7745 P O BOX 46920 GLOSDERRY	DESIGNED BY : A.S.	HEAD OFFICE Ditlou Place 1204 Park Street Harfield Pretoria	WESTERN REGION Pac de Cap, Building 5 C/o Mielie Str & Wilje van Schoor Ave Bellville	APPROVED THIS APPROVAL IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OF ANY KIND FROM WHATEVER VER CAUSE, OR HOWSOEVER ARISING.
CONSULT. ENG. for NLA	CHECKED BY : A.S.	PO Box 415 Pretoria 0001 South Africa Tel: (+27) 12 426 6000 Fax: (+27) 12 362 2116	Private Bag 119 Bellville South Africa Tel: (+27) 213 957 4600 Fax: (+27) 213 946 1630	
7702 KENILWORTH TEL: (021) 761-6999 FAX: (021) 761-6989	DRAWN BY : B.A.			
	CHECKED BY : A.S.			

NATIONAL ROUTE		N9	SECTION	7	Sheet 1 of 1
PROJECT No.		NRA N 009-070-2007 / IF			Scale AS SHOWN (AO)
REHABILITATION OF N9 SECTION 7 BORROW PIT DETAILS					
BORROW PIT 12 - (N9 7\89.9\0.2 R MINING AND REHABILITATION PLAN					
					DRAWING NUMBER: 14784/311



**APPENDIX B12.2**

**LANDOWNER ACKNOWLEDGEMENT  
OF NOTIFICATION FORM**



**VOORGESTELDE UITBREIDING VAN VIER ONTRUIMDE LEENGROEWE IN DIE  
COLESBERGOMGEWING**

**BELANGHEBBENDE EN BELANGSTELLENDEN PARTY (BBP)  
REGISTRASIE- EN KOMMENTAARVORM**

Merk asseblief die toepaslike blokkie.

Wil u of u organisasie 'n Geregistreerde BBP word en voortgaan om inligting oor die bostaande projek te ontvang?

 JA

 NEE

NAAM:

A.E. HUGO

ORGANISASIE:

INDIEN VAN TOEPASSING

EIENNAAR ERF: 1272

WOONADRES:

KODE:

POSADRES:

INDIEN VERSKILLENDE VAN BOSTAANDE

POSTBUS 221

Colesberg

KODE:

9795

TEL:

0828 731033

FAKS:

E-POSADRES:

Wil u of u organisasie enige kwessies of vrae lug oor die beoogde leengroefontwikkeling?

 JA

 NEE

Indien wel, beskryf asseblief/voorsien besonderhede hieronder (gaan asseblief voort op die keersy indien nodig).

ERF 1272 GRASS RIDGE  
PO BOX 221  
COLESBERG  
9795

KYK ASB NA BLADSY NO 2

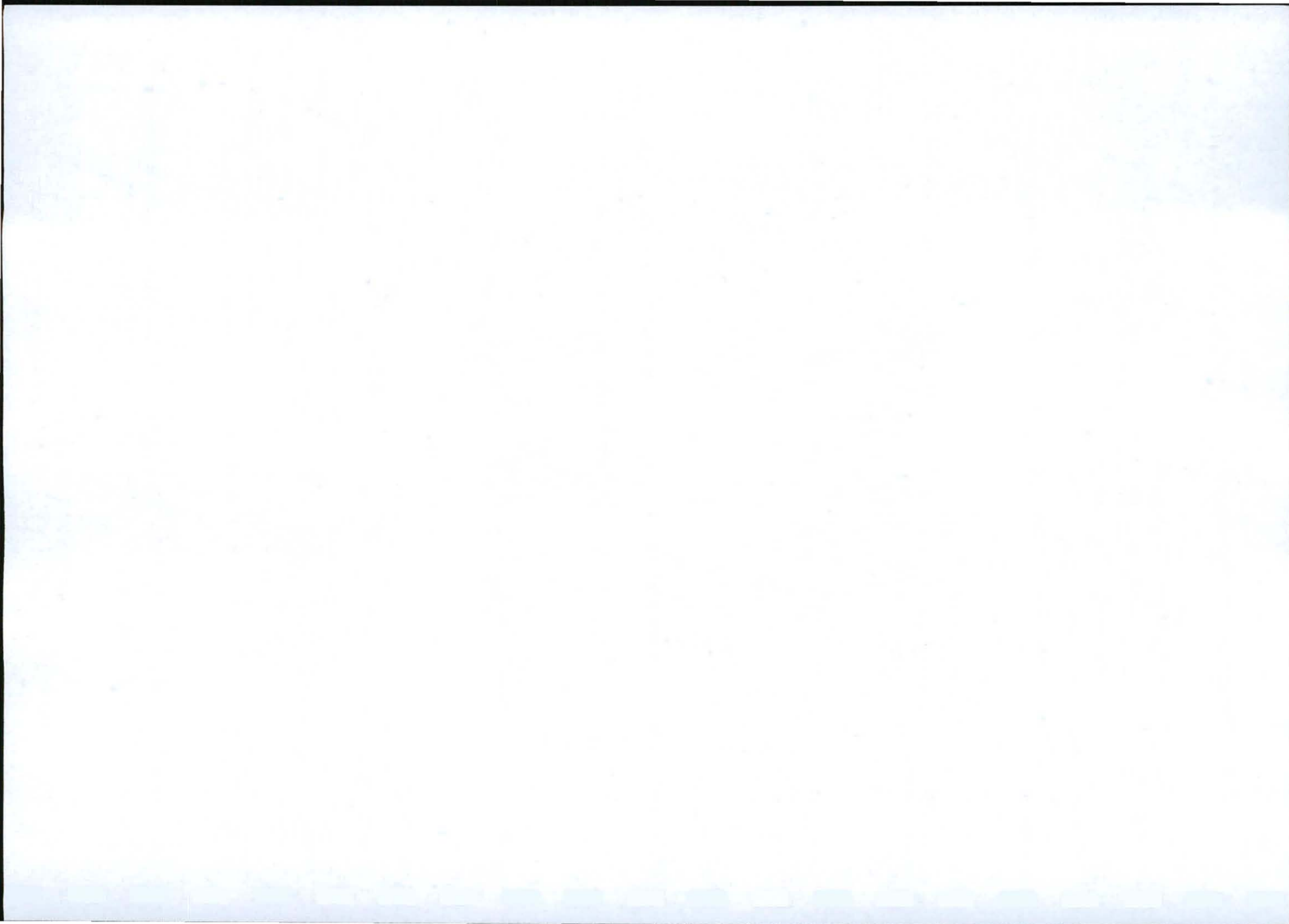
**ENIGE KOMMENTAAR MOET GESTUUR WORD AAN CGA ENVIRONMENTAL (DETAILS HIERONDER) TEEN  
3 MEI 2011 OM IN DIE OMGEWINGSBESTUURSPROGRAM INGESLUIT TE WORD**

CGA ENVIRONMENTAL (EDMS) BPK

Aandag: Eloise Costandius

Posbus 10145, Caledonplein, 7905

Tel: (021) 461-1118 Faks: (021) 461-1120 E-pos: eloise@ccaenvironmental.co.za





Bloedig (2)

KOMMENTAAR/ COMMENT

NEE / NO

JA / YES

TEN OPSIGTE VAN VERGOEDING,  
SAL ONS MOET ONDERHANDEL VIR 'N BILLIKE  
OOREENKOMS ALVORENS ONS VURTGAAN.

①

DIE FEIT DAT DIE LEEINGROEF IN 'N Groot  
Kamp IS OOR 'N 2 TOT 3 JAAR<sup>TERMYN</sup> IS ONGEMAKLIK  
AANGESIEN MEENSE KAN SIEN WAAR MY SKOPE  
LOOP EN MOONTLIK INLIGTING KAN VERSKAF  
TEN OPSIGTE VAN MODES OPERASIES WAT ETLIKE  
TIENDUISENDE TOT HONDERD DUISENDE RANDE  
IN 2 TOT 3 JAAR KAN OPHOOP. EK HET MIE  
DIE KRAG EN TYD OM ENIGE SAKKE IN  
'N HOF TE BEWYS MIE!

②

OM VAN JULLE KANT 'N WOORD SOOS REHABILI-  
TASIE TE GEBRUIK, IS WITERS GEVAARLIK,  
AANGESIEN DIT SO VER EK WEEET DIE GROND  
NOG NOOIT IN EEN HONDERD JAAR WEER  
HERSTEL HET WAAR JULLE GEWERK HET  
MIE. MET DANK

HE. HUGO

Please forward to / Stuur asseblief aan:

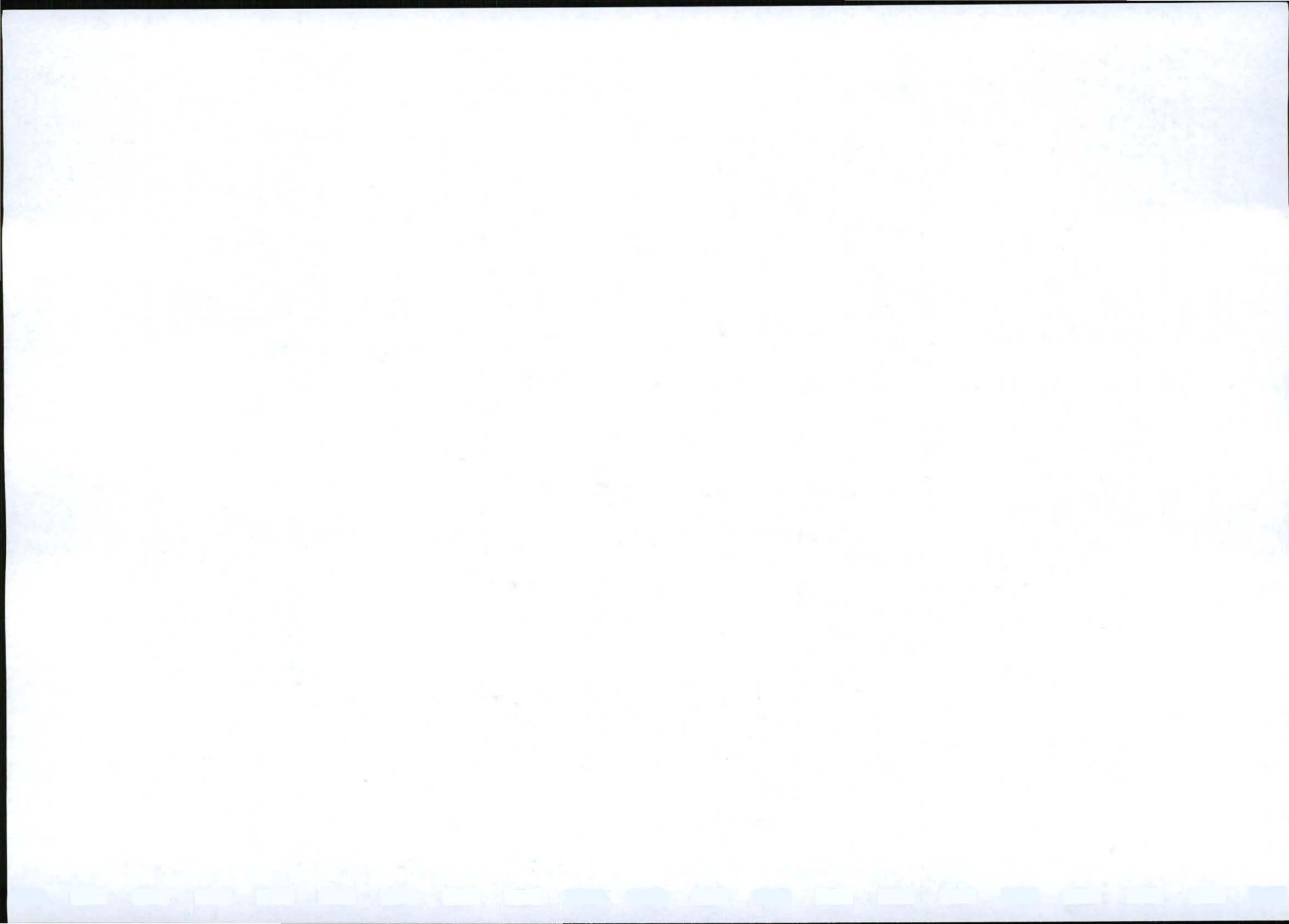
CCA ENVIRONMENTAL (PTY) LTD  
Unit 35, Roeland Square, Cape Town, 8001  
PO Box 10145, Caledon Square, 7905  
T: (021) 461 1118 F: (021) 461 1120  
Email: eloise@ccaenvironmental.co.za



cca  
ENVIRONMENTAL



Bergstan  
SPECIALISTS IN  
Consulting and Development  
Engineers (Pty) Ltd

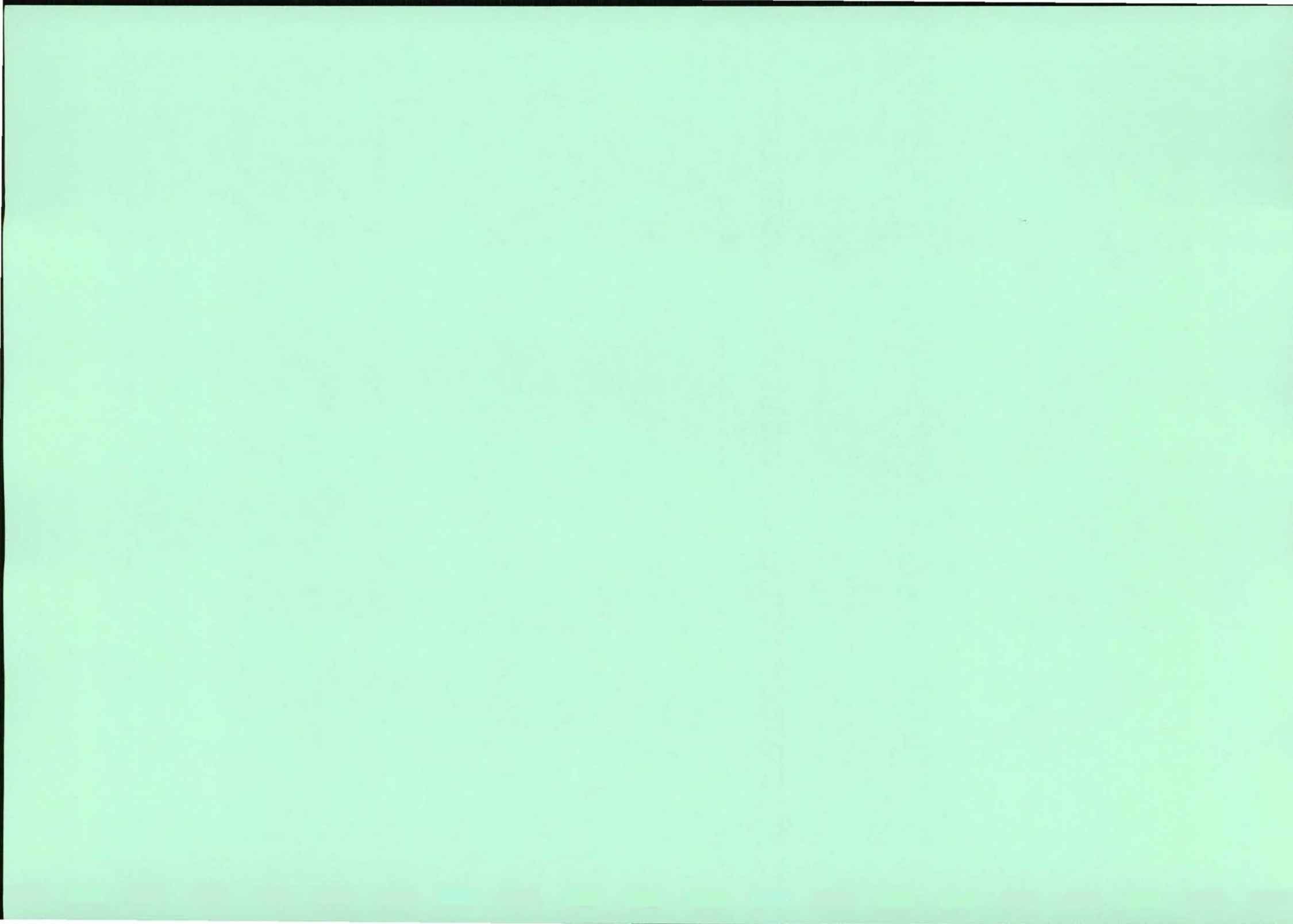


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**PART C:**

**ENVIRONMENTAL MANAGEMENT PROGRAMME**

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## C1. ADMINISTRATION AND REGULATION OF ENVIRONMENTAL OBLIGATIONS

### C1.1 REPORT AVAILABILITY

Copies of this EMP shall be kept at the site office and will be distributed to all senior contract personnel. All senior personnel shall be required to familiarise themselves with the contents of this document. The successful Contractor will be required to sign a "Commitment to Protection of the Environment" form (see pro forma in Appendix C1).

### C1.2 ORGANISATIONAL STRUCTURE

The implementation of this EMP requires the involvement of several stakeholders, each fulfilling a different but vital role to ensure sound environmental management during the construction phase. These roles and responsibilities are discussed in detail below. Details of the organisational structure are presented in Figure C1. The structure illustrates the reporting procedures for stakeholders in the implementation of this EMP.

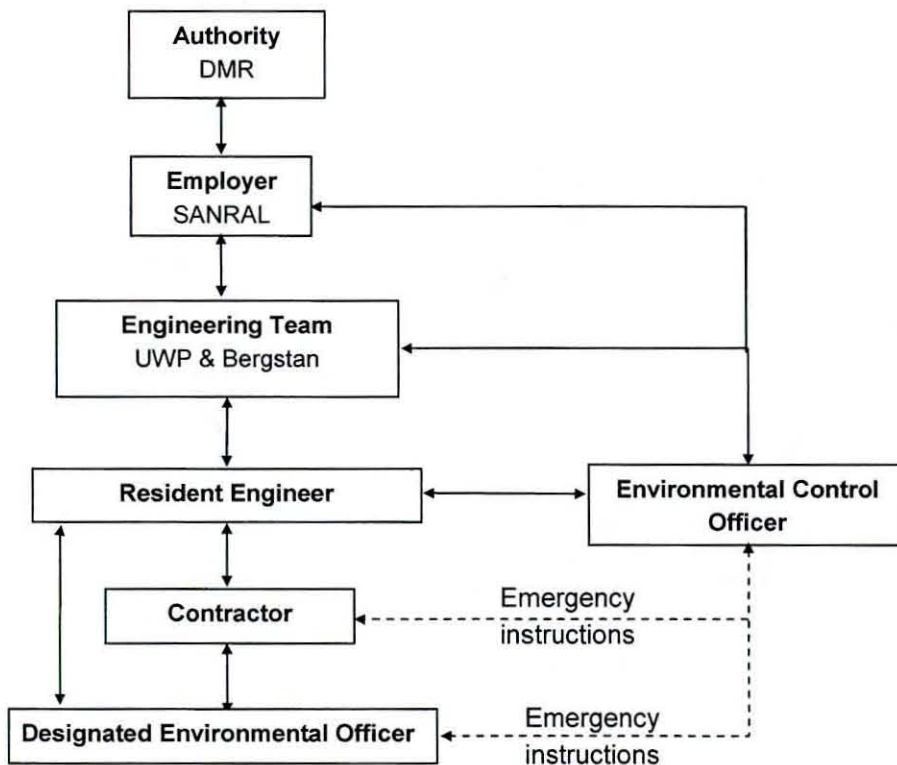


Figure C1: EMP implementation organisational structure.

#### C1.2.1 AUTHORITY: DEPARTMENT OF MINERAL RESOURCES

The Department of Mineral Resources (DMR) is the designated authority responsible for authorising the development of the borrow pits and this EMP. DMR has overall responsibility for ensuring that the Applicant (SANRAL) complies with the conditions of its authorisation as well as this EMP.

DMR shall also be responsible for approving any amendments that may be required to this EMP and may perform random site inspections to check compliance with the EMP.

### **C1.2.2 APPLICANT: SANRAL**

SANRAL is responsible for managing impacts associated with the borrow pit development and is ultimately responsible for the implementation of this EMP and the financial cost of all environmental control measures.

The Applicant will appoint the Contractor to undertake the construction of the contract.

### **C1.2.3 ENGINEER**

UWP and Bergstan (the Engineer) will be responsible for the planning, design and construction supervision phases of the project and have the responsibility to ensure that the Employer's responsibilities are executed in compliance with relevant legislation and the authorisation. The Engineer shall appoint a Resident Engineer (RE) to act as on-site implementing agent.

The Engineer shall address any site problems pertaining to the environment at the request of the RE and/or the Environmental Control Officer (ECO). The Engineer shall also be responsible for issuing penalties for contravention of the EMP.

### **C1.2.4 CONTRACTOR**

The Contractor refers to the team appointed by the Applicant to undertake the construction activities for the road rehabilitation and upgrade project. The Contractor shall have the following responsibilities:

- To implement all provisions of the EMP. If the Contractor encounters difficulties with specifications, he/she must discuss alternative approaches with the RE or ECO prior to proceeding.
- To ensure that all staff and Sub-Contractors are familiar with the EMP.
- To make personnel aware of environmental issues and to ensure they show adequate consideration of the environmental aspects of the project.
- To prepare the required Method Statements (see Section C1.3).
- To report any incidents of non-compliance with the EMP to the RE or ECO.

Failure to comply with the EMP may result in fines (see Section C1.5) and reported non-compliance may result in the suspension of work or termination of the contract by the Engineer.

### **C1.2.5 RESIDENT ENGINEER**

The RE would act as SANRAL's on-site implementing agent and has the responsibility to ensure that their responsibilities are executed in compliance with the EMP. Any on-site decisions regarding environmental management are ultimately the responsibility of the RE. The RE shall assist the ECO where necessary and shall have the following responsibilities in terms of the implementation of this EMP:

- Daily site inspections.
- Ensuring that the necessary environmental authorisations and permits have been obtained.
- Reporting to the ECO regarding implementation of the EMP.
- Reviewing and approving the Contractor's method statements with input from the ECO where necessary.

- Assisting the Contractor in finding environmentally responsible solutions to problems with input from the ECO where necessary.
- Ordering the removal of person(s) and/or equipment not complying with the EMP specifications.
- Issuing fines for transgressions of site rules and penalties for contravention of the EMP.
- Providing input into the ECO's ongoing internal review of the EMP.

#### **C1.2.6 ENVIRONMENTAL CONTROL OFFICER**

The appointment of an ECO was included as a condition of approval in the Environmental Authorisation issued by DEA. The ECO will be an independent environmental consultant appointed by the Engineer to act as the Applicant's representative to monitor and review the on-site environmental management and implementation of this EMP by the Contractor.

The ECO shall undertake regular site inspections for the duration of the construction contract. The ECO's duties shall include, *inter alia*, the following:

- Advising the Contractor and/or the RE on environmental issues within defined construction areas.
- Maintaining open and direct lines of communication between the RE, Applicant and Contractor with regard to environmental matters.
- Reviewing the Contractor's Method Statements.
- Undertaking regular site inspections of all construction areas to ensure compliance with the EMP and verifying that environmental impacts are kept to a minimum throughout the contract.
- Completing environmental checklists during site visits.
- Keeping a photographic record of progress on site from an environmental perspective.
- Assisting the Contractor in finding environmentally responsible solutions to problems.
- Advising on the removal of person(s) and/or equipment not complying with the specifications (via the RE).
- Recommending the issuing of fines for transgressions of site rules and penalties for contraventions of the EMP (via the RE).
- Auditing the implementation of the EMP and compliance with the Environmental Authorisation on a monthly basis.
- Undertaking a continual review of the EMP and recommending additions and/or changes to the document.
- Ensuring that DMR is informed of work progress on site.
- Compiling Performance Assessment Reports for submission to DMR (if a condition of approval).

#### **C1.2.7 ENVIRONMENTAL OFFICER (EO)**

The appointed Contractor shall appoint a competent individual as the Contractor's on-site Environmental Officer (EO). The EO must be appropriately trained in environmental management and must possess the skills necessary to impart environmental management to all personnel involved in the contract.

The EO shall be responsible for overseeing the Contractor's internal compliance with the EMP requirements and ensuring that the environmental specifications are adhered to. The EO will be responsible for keeping detailed records of all site activities that may pertain to the environment. The EO's duties shall include, *inter alia*, the following:

- Undertaking daily site inspections.
- Keeping accurate and detailed records of these inspections.
- Monitoring and verifying that the EMP and Method Statements are adhered to at all times and taking action if specifications are not followed.
- Monitoring and verifying that environmental impacts are kept to a minimum.
- Assisting the RE and ECO in finding environmentally responsible solutions to problems.

- Reporting any incidents of non-compliance with the EMP to the RE and / or the ECO.
- Keeping a register of complaints on site and recording community comments and issues, and the actions taken in response to these complaints.
- Keeping a record of on-site incidents and accidents and how these were dealt with.

### **C1.3 METHOD STATEMENTS**

The Contractor shall submit written Method Statements to the RE and ECO for all environmentally sensitive aspects of the work. A Method Statement Control Sheet, signed by the Contractor, must accompany each Method Statement (a pro forma Control Sheet is provided in Appendix C2). Method Statements shall cover applicable details with regard to:

- Construction procedures;
- Materials and equipment to be used;
- Getting equipment to and from site;
- How the equipment/material will be moved while on site;
- How and where material will be stored;
- The containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur;
- Timing and location of activities;
- Compliance/non-compliance with the specifications; and
- Any other information deemed necessary by the Engineer, RE or ECO.

Method Statements shall be submitted to the RE and ECO **at least three (3) days prior** to the commencement of operations. It should be noted that Method Statements must contain sufficient information and detail to enable the RE and ECO to apply their minds to the potential impacts of the works on the environment. The Contractor will also need to thoroughly understand what is required of him / her in order to undertake the works.

Work shall not commence until Method Statements have been approved by the RE. Failure to submit Method Statements may cause the RE to order the Contractor to suspend part or all of the works concerned until a Method Statement has been submitted and approved. Failure to submit Method Statements at least three days prior to commencing the relevant activity may result in a fine (see Section C1.5). Any damage caused to the surrounding environment by work done without prior approval shall be rehabilitated at the Contractor's cost.

As a minimum the following Method Statements are required:

- MS1:** Location, preparation and layout of the borrow pit site (Section C2.1.1);
- MS2:** Storage of construction material and hazardous substances (Section C2.4.3);
- MS3:** Solid waste (Section C2.7.2);
- MS4:** Wastewater (Section C2.7.3);
- MS5:** Soil erosion and sedimentation control (Section DC2.8);
- MS6:** Fire control (Section C2.11);
- MS7:** Dust control (Section C2.12); and

The RE and / or the ECO shall specify any additional Method Statements that may be required. Where relevant the Method Statements indicated above can be combined on agreement with the RE or ECO.



## C1.4 ENVIRONMENTAL AWARENESS TRAINING

The Contractor shall ensure that adequate environmental awareness training of senior site personnel takes place and that all construction workers receive an induction presentation on the importance and implications of the EMP.

The presentation shall be conducted, as far as is possible, in the employees' language of choice. As a minimum, training should include:

- Explanation of the importance of complying with the EMP.
- Discussion of the potential environmental impacts of construction activities.
- The benefits of improved personal performance.
- Employees' roles and responsibilities, including emergency preparedness.
- Explanation of the mitigation measures that must be implemented when carrying out their activities.
- Explanation of the specifics of this EMP and its specification (no-go areas, etc.)
- Explanation of the management structure of individuals responsible for matters pertaining to the EMP.

A copy of the Environmental Do's and Don'ts shall be handed out to all employees (see Appendix C3).

The contractor shall keep records of all environmental training sessions, including names, dates and the information presented.

## C1.5 FINES

Where the Contractor inflicts non-repairable damage upon the environment or fails to comply with any of the environmental specifications, he / she shall be liable to pay a fine. Non-compliance with the specifications of the EMP constitutes a breach of Contract for which the Contractor may be liable to pay a fine. The Contractor is deemed not to have complied with the EMP if:

- There is evidence of contravention of the EMP specifications, including any non-compliance with an approved Method Statement;
- Construction activities take place outside the defined boundaries of the site;
- Environmental damage ensues due to negligence;
- The Contractor fails to comply with corrective or other instructions issued by the RE within a specific time period; and/or
- The Contractor fails to respond adequately to complaints from the public.

The payment of a penalty fine is subject to the following:

1. The Engineer may impose such fine only –
  - If he / she is reasonably satisfied of the Contractor's failure to comply with the terms of the Contract dealing with protection of the environment;
  - If he / she is reasonably satisfied that it is necessary to impose such fine in order to achieve future compliance; and
  - After he / she has consulted with a person suitably experienced in "environmental management programmes" (as defined in National Environmental Management Act, No. 107 of 1998) as to whether there has been a failure to comply with a term of the Contract dealing with protection of the environment and as to a reasonable amount of the fine.
2. The Engineer, in consultation with the RE and ECO, shall determine the amount of the penalty fine. The Engineer, in determining the amount of such fine, shall take into account *inter alia*, the nature of the offence, the seriousness of its impact on the environment, the degree of prior compliance/non-compliance, the extent of the Contractor's overall compliance with environmental protection requirements and, in particular, the extent to which he / she considers it necessary to impose a

sanction in order to eliminate / reduce future occurrences. A proposed schedule of fines for environmental damage or EMP transgressions is presented in Appendix C4.

3. The Engineer shall, with respect to any fine imposed, provide the Contractor with a written statement giving details of the offence, the facts on which the assessment is based and the terms of the Contract (by reference to the specific clause) which has been contravened.
4. At the sole discretion of the Engineer, they may at any time before one month after the issue of the Certificate of Completion (for the last completed portion of the Works should there be more than one), reverse all or some, in whole or in part, of previously imposed fine and shall include such reversed payment in a subsequent Payment Certificate.
5. The sum total of all fines retained by the Employer after the processing of any Payment Certificate issued up to one month after the issue of the Certificate of Completion referred to above, shall, within one month be paid by the Employer to a charity mutually agreed upon by the Contractor and the Employer, failing which agreement, as determined by the Engineer following consultation with the two parties.
6. Payment of any fines in terms of the contract shall not absolve the offender from being liable from prosecution in terms of any law.

If excessive infringement with regard to any of the above is registered, then the Employer reserves the right to terminate the Contractor's contract. Failure by any employee of the Contractor or their Sub-Contractors to show adequate consideration to the environmental aspects of the contract shall be considered sufficient cause for the RE to have that employee removed from the site. The RE shall order the removal of equipment that is causing continual environmental damage

## **C1.6 INTERNAL REVIEW AND PERFORMANCE ASSESSMENT**

The Contractor and EO shall establish an internal review procedure to monitor the progress and implementation of the EMP.

Where necessary, and upon the recommendation of the RE and/or the ECO, procedures that require modification will be changed to improve the efficiency of the EMP. All significant modifications to the EMP shall be approved by DMR, if possible, before any changes or adjustments to the EMP are implemented. Any changes or adjustments to the EMP shall be registered in the daily records of the RE. Adjustment and update of the original EMP document is not required when these *ad hoc* changes are made.

At the conclusion of the project a Performance Assessment Report shall be compiled for submission to DMR. This report shall be compiled by the ECO, in collaboration with the RE, EO and the Contractor. It shall, as a minimum, outline the implementation of the EMP, and highlight any problems and issues that arose during the construction period to report, on a formal basis, the lessons learned from this project.

## **C1.7 INFORMATION BOARDS**

The Contractor shall be responsible for erecting general information boards on site. The general information boards (in English, Afrikaans and any other language if required) shall provide the name and contact number of the EO to ensure that the public can easily request information and/or lodge any complaints. This board should be erected at the borrow pit site office.

## **C2. CONSTRUCTION PHASE**

### **C2.1 MANAGEMENT OF CONSTRUCTION SITE**

#### **C2.1.1 LOCATION OF CONSTRUCTION CAMP**

The construction camp refers to all storage stockpile sites, site offices, container sites and rest areas for workmen.

The construction camp(s) shall be located at an easily accessible point and within an area of low environmental sensitivity. No camp establishment shall be allowed within 32 m or below the 1:10 year flood line (where defined) of any watercourses, floodplains or drainage channels. The Contractor, RE and ECO shall agree on mutually acceptable locations for the establishment of the camp(s). The RE and ECO shall approve the final location of all camps prior to their establishment.

The construction shall be demarcated by a fence, the position of which will be agreed by the RE, ECO and the Contractor. Suitable signage must be erected to clearly demarcate these areas. The area outside the construction camp fence is considered to be a no-go area. Undertaking activities in these areas without the RE's or ECO's permission will result in a fine (see Appendix C4).

**MS1** The Contractor shall submit a Method Statement indicating the location, preparation and layout of the borrow pit sites.

#### **C2.1.2 ABLUTION FACILITIES**

The Contractor is responsible for the erection and maintenance of adequate ablution facilities and for enforcing the use of these facilities. There should be one toilet for every 15 workers on site. Toilet(s) must be easily accessible and shall be secured in order to prevent them from blowing over.

The Contractor shall appoint a suitable Sub-Contractor to empty toilets on a regular basis. The Sub-Contractor shall ensure that there is no spillage when the chemical toilets are cleaned and that the contents are properly removed from site. The Contractor shall be responsible for ensuring that all ablution facilities are maintained in a clean and sanitary condition to the satisfaction of the RE.

Ablution facilities (chemical toilets, etc.) must be provided at all construction camp areas (within 50 m of all construction sites) where there will be a concentration of labour. Toilet paper must be provided.

#### **C2.1.3 EATING AREAS**

The Contractor shall establish eating areas, as agreed with the RE. These areas shall provide adequate temporary shade to ensure that employees do not move off site to eat.

The Contractor shall provide adequate refuse bins at all eating areas to the satisfaction of the RE and shall ensure that all eating areas are cleaned up on a daily basis. Collected waste shall be stored in a central waste area approved by the RE and ECO within the construction camp.

Any cooking of food on site shall be done using gas cookers.

#### **C2.1.4 PROVISION OF WATER**

The Contractor shall be responsible for ensuring that there is access to clean drinking water for all employees on site. If water is stored on site, drinking water and multi-purpose water storage facilities shall be clearly distinguished and demarcated.

#### **C2.1.5 GENERAL AESTHETICS AND LIGHTING**

All construction areas shall be kept neat and tidy at all times. Different materials and equipment must be kept in designated areas and storing/stockpiling shall be kept orderly.

The Contractor shall ensure that any lighting installed on the site does not interfere with road traffic or cause a reasonably avoidable disturbance to the surrounding community.

### **C2.2 SITE DEMARCATION AND NO-GO AREAS**

The layout and extent of the borrow pits shall be planned and designed as per the Engineer's Mining and Rehabilitation Plans (see Section B of this EMP).

#### **C2.2.1 SITE LAYOUT AND ESTABLISHMENT**

Care shall be taken to limit the extent of the area disturbed during excavation activities. In this regard, the borrow pit sites and associated activities shall be carefully planned, to ensure that the footprint is kept to a minimum.

The borrow pit sites, access points and access roads shall be properly demarcated and fenced off. No activities shall be allowed outside the fenced off area, unless prior permission has been given by the RE and ECO. Vehicle movement shall be limited to defined tracks and areas that will be excavated.

Care shall be taken to ensure that the placement of temporary infrastructure does not adversely affect the environment or result in soil erosion.

#### **C2.2.2 NO-GO AREAS**

Areas where construction activities (including traffic accommodation) are prohibited are referred to as no-go areas. No-go areas have been identified as all areas outside of the fenced-off site. The RE shall, if necessary, identify additional appropriate no-go areas. No-go areas shall be fenced off. The removal, damage or disturbance of flora, fauna, avifauna, rock outcrops or any other natural features shall be forbidden in all demarcated no-go areas or specified environmentally sensitive areas, unless prior permission has been given by the RE and ECO. The RE may declare no-go areas at any time during the construction phase as deemed necessary and/or at the request of the ECO.

The Contractor shall be responsible for any clean-up and/or rehabilitation of all areas impacted by construction activities.

## **C2.3 SITE CLEARING AND EXCAVATION**

### **C2.3.1 SITE CLEARING**

Before clearing of vegetation, the contractor shall remove and translocate all conservation-worthy species (as identified in the vegetation assessment, e.g. mountain aloe, *Aloe broomii*) to an area identified by the ECO. The Contractor shall also ensure that all litter and non-organic material is removed from the area to be cleared.

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 and sediment runoff may take place.

Every attempt shall be made to disturb as little natural vegetation as possible during site clearing.

All indigenous plant material cleared from site shall be stockpiled for mulching and mixed into the topsoil stockpile. Plant material shall be reduced by either mechanical means (chipper) or by hand-axing to pieces no longer than 100 mm. Brush-cut mulch shall be stored for as short a time-period as possible and seed released from stockpiles shall be collected for use in revegetation. No cleared vegetation shall be burnt on site.

### **C2.3.2 TOPSOIL**

Depending on depth, the Contractor shall remove topsoil (including any plant material and organic matter) to a minimum depth of 200 mm from all areas where topsoil will be impacted on by construction activities, including temporary activities such as storage and stockpiling, etc. Topsoil is considered to be the natural soil covering, including all the vegetation and organic matter.

Stripped topsoil shall be stockpiled in areas agreed with the RE for later use in revegetation and shall be adequately protected.

Topsoil stockpiles shall be convex and no more than 2 m high. Stockpiles shall be shaped so that no surface water ponding can take place. Material from different habitats / areas must not be mixed and material must be returned to the same habitats in the areas it was taken from. Storage time should be kept to a minimum, if possible not exceeding three months.

Topsoil stockpiles shall be protected from erosion by wind and rain by providing suitable stormwater and cut off drains and/or by establishing suitable temporary vegetation. Stockpiles shall not be covered with materials such as plastic that may cause it to compost or kill the seed bank.

Topsoil stockpiles shall not be subject to compaction greater than 1500 kg/m<sup>2</sup> and shall not be pushed by a bulldozer for more than 50 m.

Topsoil stockpiles shall be monitored regularly to identify any alien plants, which shall be removed when they germinate to prevent contamination of the seed bank.

Any topsoil contaminated by hazardous substances shall not be used but shall be disposed of at a Department of Water Affairs (DWA) approved landfill site.

The Contractor shall be held responsible for the replacement, at his own cost, for any unnecessary loss of topsoil due to his failure to work according to the approved MS and the requirements of this EMP.

## **C2.4 MATERIALS HANDLING AND STORAGE**

The potential environmental impact of handling, use, storage and disposal of materials used during construction shall be minimised.

### **C2.4.1 TRANSPORTATION**

The Contractor shall ensure that all suppliers and their delivery drivers are aware of procedures and restrictions (e.g. no-go areas) in terms of this EMP.

Material from the borrow pits shall be appropriately secured to ensure safe passage between destinations during transportation. Loads shall have appropriate cover to prevent them spilling from the vehicle during transit. The Contractor shall be responsible for any clean-up resulting from the failure by his employees or suppliers to properly secure transported materials.

The movement of construction vehicles should be limited to daylight hours. The dangers associated with the movement of large haulage vehicles shall be clearly sign-posted in both directions leading up to the proposed borrow pits.

### **C2.4.2 STOCKPILING**

The Contractor shall plan his activities so that materials extracted from the borrow pits, in so far as possible, can be transported directly to and placed at the point where it is to be used.

Should temporary stockpiling become necessary, the areas for the stockpiling of excavated material shall be indicated and demarcated on the site plan submitted in writing to the RE for his approval, together with the Contractor's proposed measures for prevention, containment and rehabilitation against environmental damage.

Stockpiles shall be positioned and sloped to create the least visual impact.

No foreign material generated/deposited during construction shall remain on site. Areas affected by stockpiling shall be reinstated to the satisfaction of the RE and ECO.

### **C2.4.3 STORAGE OF CONSTRUCTION MATERIAL AND HAZARDOUS SUBSTANCES**

The storage of any materials (e.g. cement, oil, fuel, herbicides, etc.) shall not take place within 20 m of any watercourses, floodplains or drainage channels.

All fuel, oil and other hazardous substances shall be confined to demarcated, adequately bunded areas within the construction camp and stored in suitable labelled containers.

Hazard signs indicating the nature of the stored materials shall be displayed on the storage facility or containment structure. Fuel shall be stored in steel tanks supplied and maintained by the fuel suppliers.

Tanks shall be adequately banded (110% of volume). The floor and wall of the bund area shall be impervious to prevent infiltration of any spilled/leaked fuel, oil or hazardous substance into the soil. Suitable fire fighting equipment, to the approval of the RE, shall be supplied and installed by the Contractor in the hazardous substances storage area.

The relevant Material Safety Data Sheets for all hazardous chemical substances (as defined in the Regulations for Hazardous Chemical Substances) shall be submitted to the RE. The Contractor shall have a copy of the Material Safety Data Sheets readily available and ensure that employees who are required to use such substances are fully conversant with the safe handling precautions, protective equipment to be used and storage precautions to be taken.

The Contractor shall ensure that run-off from any stockpile, fuel/oil or hazardous substance storage area is contained and does not pollute the ground or enter any watercourses or drainage channels in the project area.

**MS2** The Contractor shall submit a Method Statement detailing the location of storage, methods intended for storage of oil, fuel, herbicides, pesticides and other hazardous substances. This Method Statement should also detail precautions that shall be implemented to limit spills and leakage of these substances.

#### **C2.4.4 STORAGE OF EQUIPMENT**

All plant, construction equipment, vehicles or other items shall be stored within the construction camp, unless prior arrangements have been made with the RE or ECO.

Drip trays shall be provided for stationary plant (such as compressors, pumps, generators, etc.) and for parked plant (e.g. mechanised equipment).

### **C2.5 REFUELLING AND MAINTENANCE**

#### **C2.5.1 REFUELLING**

Where reasonably practical, plant and vehicles shall only be refuelled in a demarcated refuelling/servicing area within the construction camp or agreed to with the RE and ECO. If this is not reasonably practical, then the surface under the temporary refuelling area shall be protected against pollution (e.g. the use of drip trays) to the reasonable satisfaction of the RE and/or the ECO prior to any refuelling activities. No refuelling shall be permitted within 20 m of any drainage channels.

The Contractor shall ensure that there is always a supply of absorbent material readily available to absorb/break down spills and where possible is designed to encapsulate minor hydrocarbon spillage. The quantity of such materials shall be able to handle the total volume of the hydrocarbon stored on site. This material must be accepted by the RE prior to any refuelling activities.

#### **C2.5.2 MAINTENANCE**

All vehicles and equipment shall be kept in good working order and serviced regularly to maximise efficiency and minimise pollution.

Where reasonably practical, maintenance activities shall take place at a designated location (i.e. workshop area or as agreed to with the RE and ECO). The Contractor shall ensure that no contamination of soil or vegetation occurs around the plant maintenance facilities. Drip trays shall be used to collect used oil, lubricants, etc. during maintenance.

Washing of equipment shall be restricted to urgent maintenance requirements only. Adequate wastewater collection facilities shall be provided.

## **C2.6 ACCIDENTAL LEAKS AND SPILLS**

The Contractor shall prevent pollution of surface or groundwater which could result from construction activities. Such pollution could result from the release, accidental or otherwise, of oils, fuels, sewage, etc.

The Contractor shall ensure that employees are aware of the procedure to be followed for dealing with leaks and spills. Any accidental lean or spill of fuel, oil or other hazardous substances is to be reported to the RE or EO immediately so that the best remediation method can be quickly implemented.

Drip trays shall be used for all pumps, generators, etc. in order to prevent water or soil contamination as a result of fuel leaks or spills. The Contractor shall ensure that the necessary materials and equipment for dealing with leaks and spills is available on site at all times.

In the event of a hydrocarbon spill, the source of the spillage shall be isolated and the spill contained. The area shall be cordoned off and secure. The Contractor shall ensure that there is always a supply of absorbent material readily available to absorb or break down spilled substances and where possible is designed to encapsulate minor hydrocarbon spills. The quantity of such materials shall be sufficient to handle the total volume of the hydrocarbon/hazardous substance stored on site. Hydrocarbon contaminated material/soil shall be collected and stored in a bunded area for future disposal.

Procedures detailed in the relevant Material Safety Data Sheets shall be followed in the event of an emergency situation.

The Contractor shall be liable to arrange for professional service providers to clear the area affected by the spill, if required. The Contractor shall submit a Method Statement detailing the precautions that shall be implemented to limit spills and leakage of hydrocarbons and other hazardous substances (see Section C2.4.3).

## **C2.7 WASTE MANAGEMENT**

Waste management on site shall be strictly controlled and monitored. Only approved waste disposal methods shall be allowed. The Contractor shall ensure that all site personnel are instructed in the proper disposal of all waste.

### **C2.7.1 HYDROCARBON AND HAZARDOUS WASTE**

All hydrocarbon (e.g. fuels, oils and contaminated soil/materials) and other hazardous waste resulting from spills, refuelling and maintenance activities shall be disposed of in a formally licensed hazardous waste site or, where possible, sold to an approved used oil recycling company. The Contractor shall provide the RE



with disposal certificates issued by the hazardous waste disposal facility. In addition, disposal certificates shall be kept at the site office for inspection by any relevant authority.

Used oil, lubricants, cleaning materials, etc. from the maintenance of vehicles and machinery may be collected in holding tanks prior to disposal.

No hydrocarbon and hazardous waste shall be burnt or buried on site. Under no circumstances shall the spoiling or burial of tar or bituminous products be allowed at the borrow pit sites. Unused or rejected tar or bituminous products shall be returned to the supplier's production plant.

### **C2.7.2 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 area. 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 areas are particularly suited for this purpose.

The Contractor shall ensure that the site is maintained in a neat and tidy condition and kept free of litter. Measures shall be taken to reduce the potential for litter and negligent behaviour with regard to the disposal of all refuse. The Contractor shall provide metal refuse bins (BS 792 standard) or equivalent plastic refuse bins, all with lids. Refuse shall be collected and removed from site at least once per week or more if required. Domestic waste shall be transported to the approved refuse disposal site in covered containers or trucks.

The Contractor shall ensure that each borrow pit site is cleaned up on a daily basis. The general cleanliness of the borrow pit sites shall form part of the RE's and EO's daily inspections.

Solid waste may be temporarily stored on site in a designated area approved by the RE prior to collection and disposal. Waste storage containers shall be covered, tip-proof, weatherproof and scavenger proof. The waste storage area shall be fenced off to prevent wind-blown litter.

No burning, on-site burying or dumping of waste shall occur.

All solid waste shall be disposed of off site at an approved landfill site. No waste shall be burnt or buried on site.

**MS3** 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.) to the RE and ECO for approval.

### **C2.7.3 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, 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, etc. passes through an 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 areas shall be designed in collaboration with the RE and ECO. No wastewater shall be disposed of directly into any surface water bodies.

**MS4** 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.

## **C2.8 SOIL EROSION AND SEDIMENTATION CONTROL**

The Contractor shall, as an ongoing exercise, implement erosion and sedimentation control measures to the satisfaction of the RE. During excavation activities, the Contractor shall protect all areas susceptible to erosion by installing necessary temporary drainage channels as soon as possible and by taking any other measures necessary to prevent stormwater from concentrating in streams and scouring slopes. Any runnels or erosion channels developed during borrow area development shall be backfilled and compacted and the areas restored to a proper condition.

The Contractor shall prevent pollution of surface water which could result from construction activities .

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 or ECO.

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

During excavation 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 excavation activities have been completed and where no further disturbance would take place, rehabilitation and revegetation should commence as soon as possible (see Section C3.4.4).

**MS5** A Method Statement shall be developed and submitted to the RE to deal with any erosion and sedimentation issues.

## **C2.9 SURFACE WATER**

The Contractor shall shape the borrow pit floors in accordance with the Engineer's Mining and Rehabilitation Plans (see Section B of this EMP) to prevent unnatural damming of water.

## **C2.10 PROTECTION OF NATURAL FEATURES, FLORA AND FAUNA**

### **C2.10.1 PROTECTION OF NATURAL FEATURES**

The Contractor shall not deface, paint, damage or mark any natural features situated in or around the borrow pit sites 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.

### **C2.10.2 VEGETATION AND FAUNA**

No activities shall take place outside the demarcated borrow pit areas, unless prior permission has been given by the RE and ECO. The removal, damage or disturbance of flora, fauna or avifauna is forbidden in all demarcated no-go areas. The removal of vegetation prior to excavation shall be limited to the areas required for access roads and establishment of the borrow pits.

All covering vegetation shall be removed from areas to be used, mulched and mixed into the topsoil stockpile. This will improve the organic content of the soil and increase the seed base for vegetation regeneration.

The Contractor shall ensure that no hunting, trapping, shooting, poisoning or otherwise disturbance of any fauna takes place.

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

Land disturbed during borrow pit development shall be rehabilitated.

## **C2.11 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 (No. 101 of 1998) in terms of establishing a Fire Protection Association with landowners and adjacent landowners.

Smoking is not allowed on site, other than at designated smoking points.

**MS6:** Prior to the commencement of construction activities, the Contractor is to ascertain the fire requirements of the Umsobomvu Local Municipality and must submit a fire contingency plan Method Statement to the RE.

## **C2.12 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 and minimise nuisance for the surrounding residential areas / dwellings.

The Contractor shall ensure that exposed soil and material stockpiles are adequately protected against the wind (e.g. water spray vehicles, covering of material stockpiles, etc.). The location of stockpiles shall take into consideration the prevailing wind directions and locations of sensitive receptors.

Construction vehicles shall comply with speed limits (speed limit for light vehicles is 40 km/hr and for heavy vehicles 20 km/hr) and haul distances shall be minimised. Material loads shall be suitably covered and secured during transportation.

**MS7** The Contractor shall submit a Method Statement detailing the control of dust on site.

## **C2.13 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 shall avoid construction activities outside of "normal working hours". This should be determined together with the local authority. 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.

## **C2.14 PRIVATE PROPERTY ACCESS AND SECURITY**

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

The Contractor shall ensure that employees do not enter private properties adjacent to the borrow pit sites under any circumstances except on official business.

## **C2.15 TRAFFIC ACCOMMODATION**

The Contractor shall appoint a Traffic Safety Officer (TSO). The TSO shall be required to ensure that borrow pit activities do not obstruct traffic and that adequate traffic accommodation measures are put in place. In general, the TSO shall ensure that regular road users are not unreasonably delayed due to borrow pit activities.

## **C2.16 VISUAL ASPECTS**

The exposure of bare soil through the removal of vegetation shall be restricted to those areas required for access roads and the establishment of the borrow sites. Rehabilitation shall take place as soon as possible after mining is completed. Land disturbed by construction activities shall be rehabilitated as described in Section C3.

## **C2.17 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.

## **C3. DECOMMISSIONING PHASE**

### **C3.1 CLOSURE OBJECTIVES**

The objectives during decommissioning of the sites are to restore disturbed areas as closely to their original state as possible through rehabilitation.

### **C3.2 INFRASTRUCTURE AREAS**

After closure, borrow pit access roads shall be restored to their previous condition or scarified and rehabilitated if so requested by the landowner.

All temporary site infrastructure and facilities are to be removed and all waste is to be disposed of at a licensed waste disposal site.

### **C3.3 MINE RESIDUE DEPOSITS**

After excavation the unused overburden / spoil material shall be placed back into the excavation and reshaped, where possible, to blend into the surrounding landscape. Topsoil shall be spread evenly over the disturbed area.

## **C3.4 FINAL REHABILITATION**

### **C3.4.1 TIMING AND IMPLEMENTATION**

The rehabilitation programme shall be implemented as soon as possible after completion of the excavation operations. Rehabilitation (e.g. reseeded) should, as far as possible, take place at the start of the summer rains to maximise water availability and minimise the need for watering.

### **C3.4.2 SLOPE AND CONTOURING**

The Contractor shall grade the slopes of the borrow pits 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 borrow pit and access roads shall be ripped to a depth of at least 300 mm. 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), removed and stockpiled during mining, shall be spread evenly over the disturbed areas to a depth of 200 mm, where possible.

The Contractor shall survey the final borrow pit layout in order to provide the contouring and cross sections for the close-out report.

### **C3.4.3 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 borrow pit operations.

### **C3.4.4 REVEGETATION**

The Contractor shall 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 borrow pit areas. For very disturbed areas, the soil can be reseeded with a commercially available reseeded mixture. The Contractor shall submit the vegetation rehabilitation plan to the RE for approval.

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. hydroseeding / 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.

The following general recommendations for rehabilitation were made by the vegetation specialist and should be considered by the appointed horticulturist:

- Seed harvesting and seed mix
  - ⇒ Seed harvesting in the Karoo is not always successful due to the different flowering times of the various karoo species. It is, therefore, recommended that seed harvesting should focus on grass species and should be undertaken during early autumn (March and April).
  - ⇒ Harvested seed should be supplemented with commercially available seed in order to increase species diversity. Seed for rehabilitation purposes can be obtained from the following suppliers:

Species	Supplier
<i>Digitaria eriantha</i> and <i>Sporobolus fimbriatus</i>	Mr Hans van Rooyen: 051 933 7000
<i>Ericephalus ericoides</i> and other Karoo shrubs	Mr Hannes Botha: 023 347 1121
<i>Eragrostis lehmanniana</i> and other grass species	North West University – Potchefstroom Campus
Karoo shrubs	<ul style="list-style-type: none"> <li>• Prof Sue Milton: 023 541 1828</li> <li>• Advance seed in Krugersdorp: 011 762 5261 (<a href="http://www.advanceseed.com">www.advanceseed.com</a>)</li> <li>• Mr Tony Siebert: 083 300 6938</li> </ul>

- Reseeding should, as far as possible, take place at during spring /start of the summer or autumn when temperatures are not too high and the probability for rainfall is high;
- Branches, rocks and / or any other coarse organic material should be scattered over the area to create favourable microclimates for seed germination and seedling establishment;
- All rehabilitated areas should be fenced off to exclude grazing for at least 12 to 18 months to allow seedling establishment and revegetation;

### C3.5 MAINTENANCE / MONITORING

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

The borrow pit 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.

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.

## C4. PROPOSED TIMING

The construction works on the road rehabilitation and upgrade project commenced on 30 March 2011 and it is expected that this work will be completed by 30 September 2013. As the project is currently well underway, borrow pit excavations would commence upon receipt of approval from DMR.

Closure and rehabilitation of borrow pit sites would take place as soon as the required material has been removed from the borrow pit.

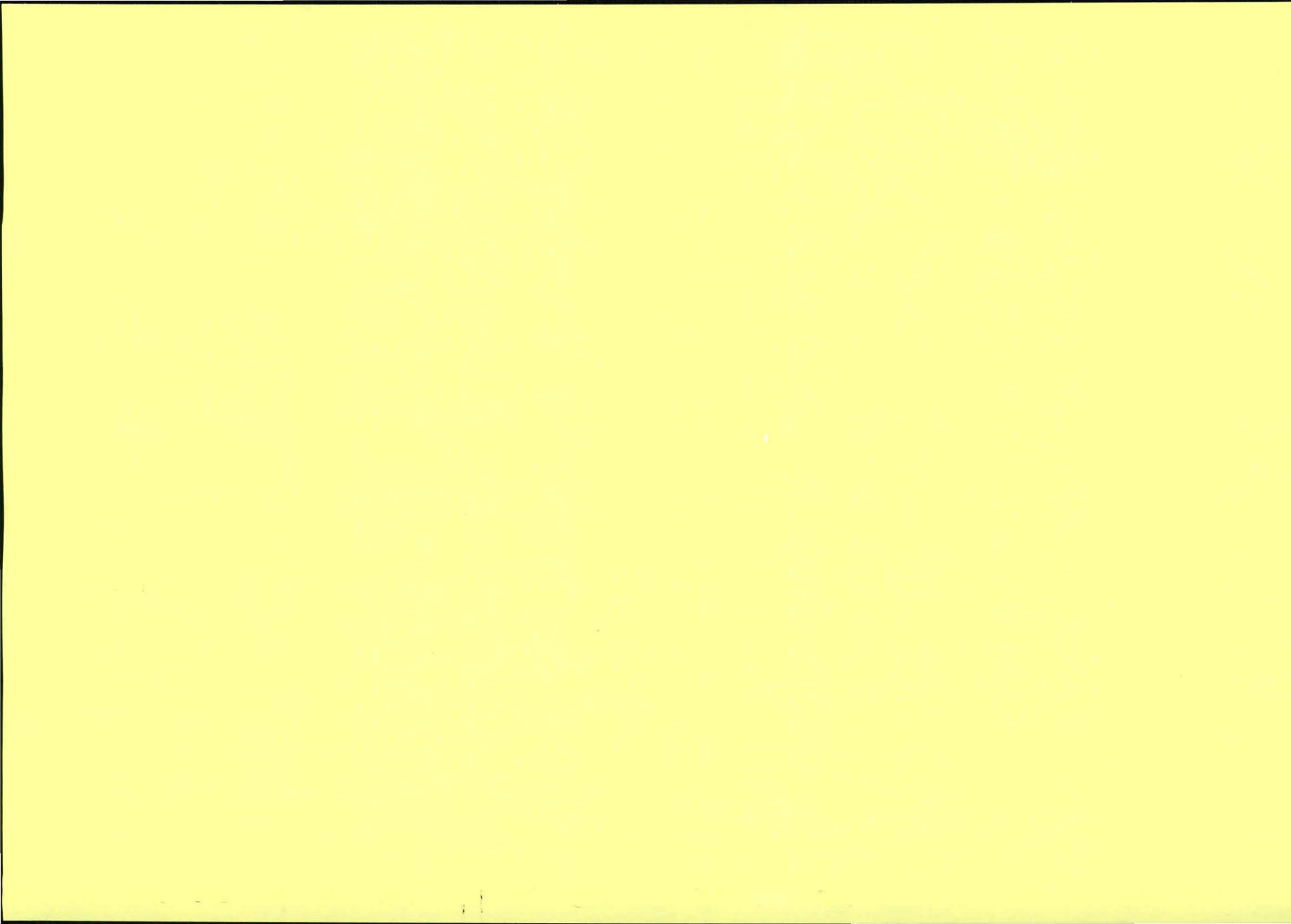
## **C5. FINANCIAL PROVISION**

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. This will be done in accordance with the Memorandum of Understanding between SANRAL and DMR regarding financial provision.



**APPENDIX C1**

**ENVIRONMENTAL AGREEMENT**



**THREE BORROW PITS FOR THE REHABILITATION  
OF THE N9/7 BETWEEN  
WOLWEFONTEIN AND COLESBERG:**

**ENVIRONMENTAL AGREEMENT**

Contract No.: \_\_\_\_\_

**BORROW PIT ENVIRONMENTAL MANAGEMENT PROGRAMME (EMP)**

**MADE AND ENTERED BETWEEN:**

South African National Roads Agency Limited (SANRAL)

Herein represented by: \_\_\_\_\_

In his / her capacity as: \_\_\_\_\_

Duly authorised hereto

Hereafter referred to as "APPLICANT"

**AND**

\_\_\_\_\_

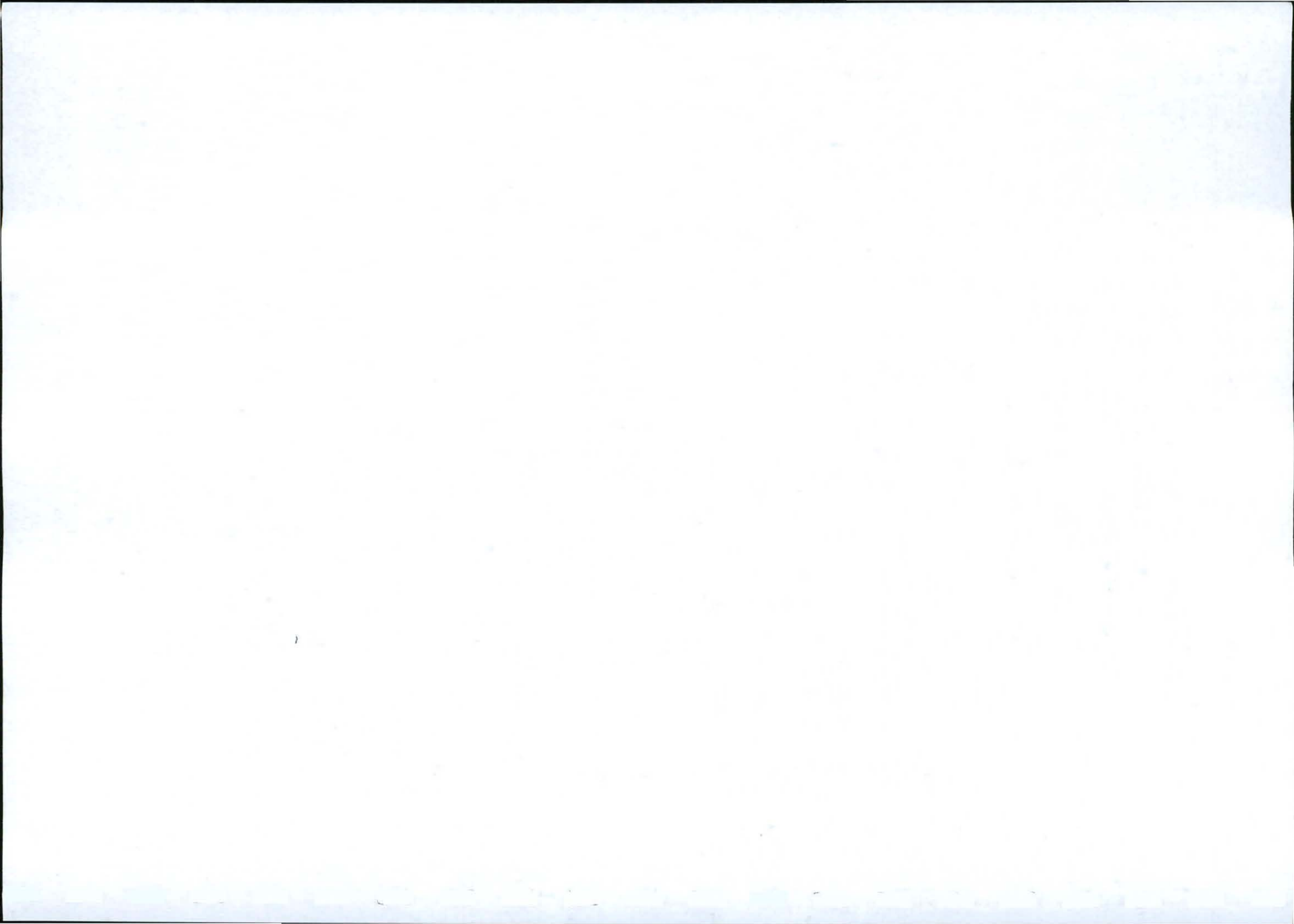
Herein Represented by: \_\_\_\_\_

Duly authorised hereto

Hereafter referred to as the "THE CONTRACTOR"

The parties record that the Contractor shall bear the following obligations in terms of this Agreement:

1. Comply with all provisions of the Construction EMP;
2. Comply with the requirements of the Occupational Health and Safety Act (No. 85 of 1993);
3. Bind any Sub-Contractors to comply with the Construction EMP to which this agreement is appended;
4. Enforce compliance with the Construction EMP by:
  - Appointing an Environmental Officer; and
  - Ensuring that all staff are familiar with the Construction EMP.
5. Protect the environment of the site against environmental damage;
6. To make good any environmental damage; and
7. Failure to comply with the Construction EMP may result in fines and reported non-compliance may result in the suspension of work or termination of the contract.



**SIGNATORIES**

Date at \_\_\_\_\_ on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_

**For APPLICANT**

(signed) \_\_\_\_\_

Print name: \_\_\_\_\_

(duly authorised)

As Witnesses:

1. \_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

Date at \_\_\_\_\_ on this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_

**For CONTRACTOR**

(signed) \_\_\_\_\_

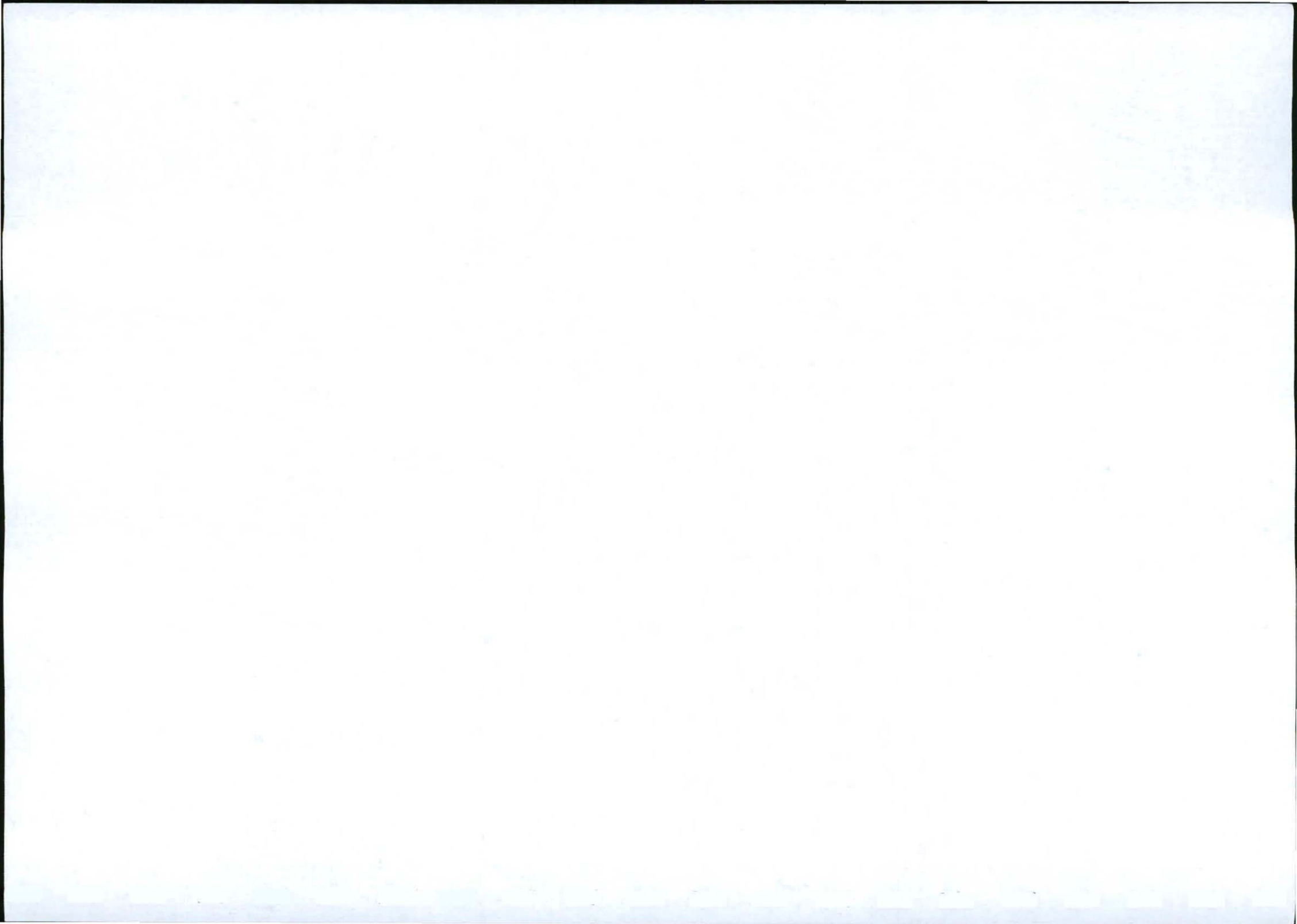
Print name: \_\_\_\_\_

(duly authorised)

As Witnesses:

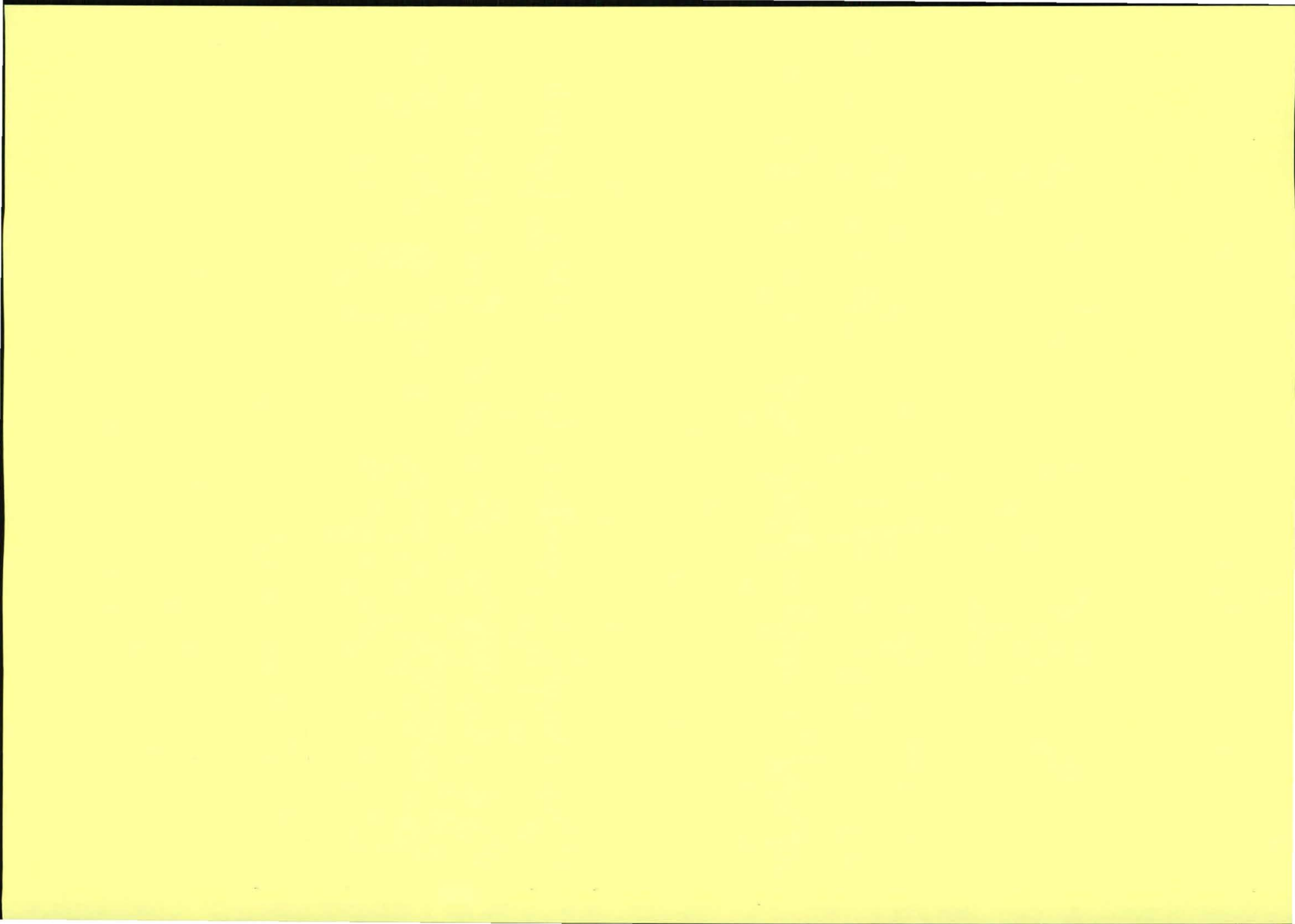
1. \_\_\_\_\_

2. \_\_\_\_\_



**APPENDIX C2**

**METHOD STATEMENT CONTROL SHEET**





**THREE BORROW PITS FOR THE REHABILITATION  
OF THE N9/7 BETWEEN  
WOLWEFONTEIN AND COLESBERG**

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**

<b>TITLE:</b>
<b>DESCRIPTION:</b>
<b>SUBMITTED BY:</b>

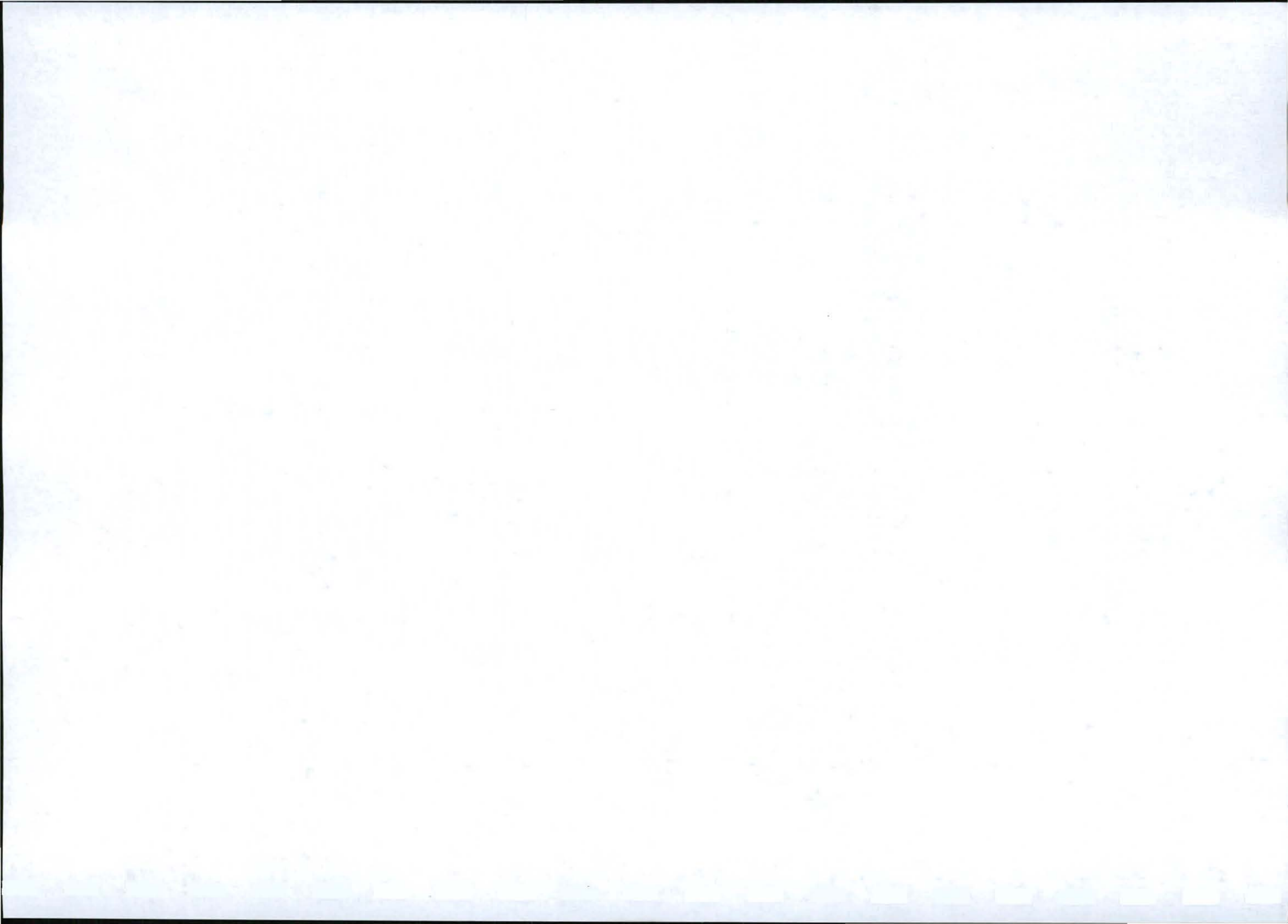
DATE REQUESTED BY RE:  DATE SUBMITTED:

DATE RESPONSE REQUIRED BY:  DATE WORK START:

REVIEW SCHEDULE		
DATE	AUTHORITY	COMMENTS

DISTRIBUTION AND AUTHORISATION			
	RE	ECO	CONTRACTOR
Name			
Signature			
Date			

<b>CONTRACTOR NOTE: METHOD STATEMENTS SHOULD ADDRESS THE FOLLOWING:</b>	
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 C3**

**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 inkukuma 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



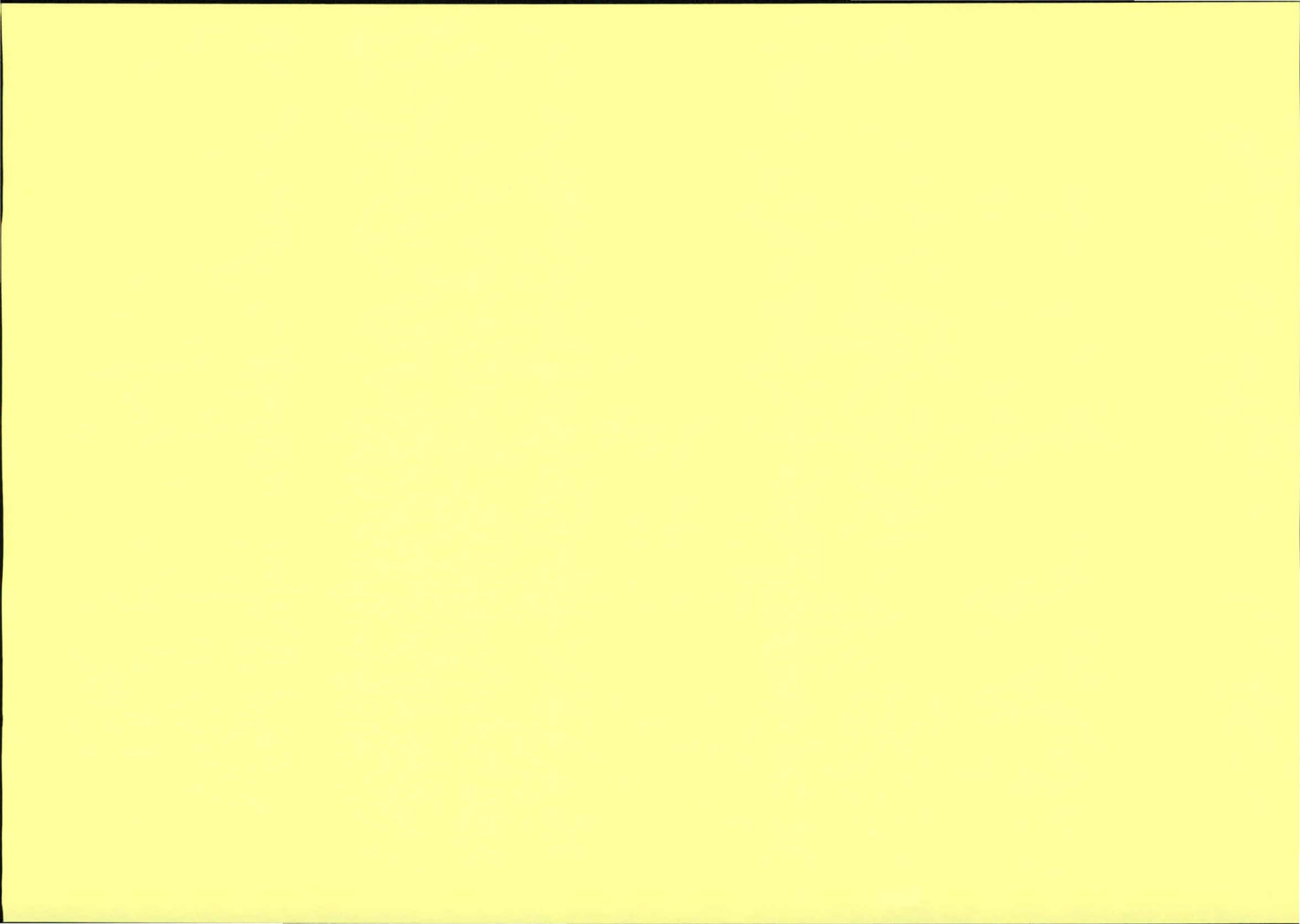
Ripota wonke umanakalo ofana nokuqhekeza,  
isiphango umlilo, ukuvuza kwemashini nengozi kwi supervisor  
Buza xa unombuzo





**APPENDIX C4**

**LIST OF FINES**



## LIST OF FINES

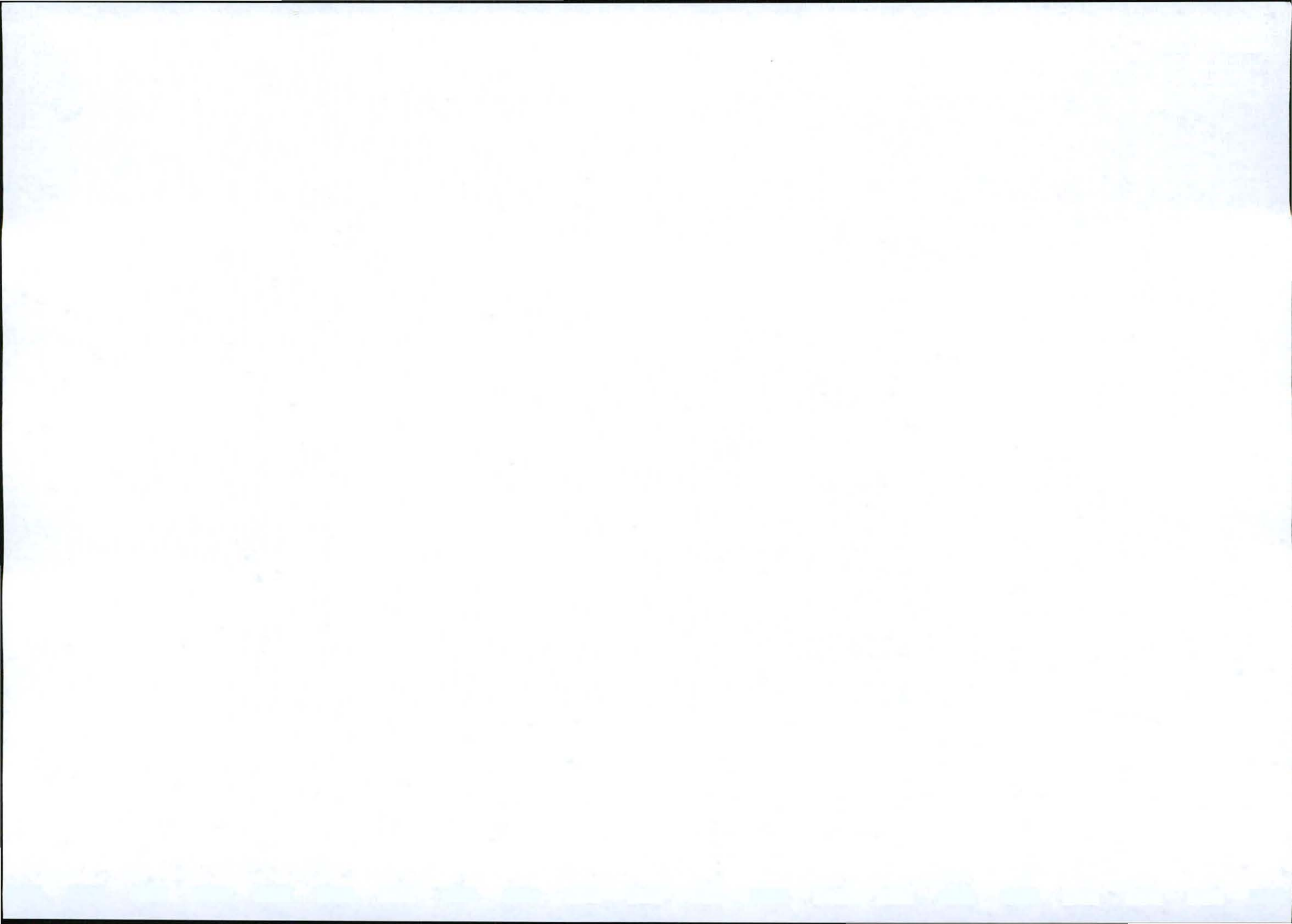
### SCHEDULE OF FINES FOR ENVIRONMENTAL DAMAGE OR EMP TRANSGRESSIONS

(Based on City of Cape Town: Standard Environmental Specifications – Ver 5 (03/2002))

Note: The maximum fine for any environmental damage will never be less than the cost of applicable environmental rehabilitation.

CEMP TRANSGRESSION OR RESULTANT ENVIRONMENTAL DAMAGE	MIN. FINE	MAX. FINE
Failure to comply with prescriptions regarding appointment of an Environmental Officer and monitoring of Construction EMP compliance.	R500	R1000
Failure to comply with prescriptions regarding environmental awareness training.	R500	R5000
Failure to comply with prescriptions regarding method statements.	R500	R5000
Failure to report environmental damage or EMP transgressions to the RE or ECO.	R500	R1000
Failure to carry out instructions of the RE or ECO regarding the environment or the Construction EMP.	R500	R1000
Failure to comply with prescriptions posting of emergency numbers.	R500	R5000
Failure to comply with prescriptions regarding a complaints register.	R500	R1000
Failure to comply with prescriptions regarding information boards.	R500	R1000
Failure to comply with prescriptions regarding site demarcation and enforcement of 'no go' areas.	R500	R5000
Failure to comply with prescriptions regarding site clearing.	R500	R5000
Failure to comply with prescriptions for supervision for loading and off loading of delivery vehicles.	R500	R1000
Failure to comply with prescriptions for securing of loads to ensure safe passage of delivery vehicles.	R500	R1000
Failure to comply with prescriptions for the storage of imported materials within a designated contractors yard.	R500	R1000
Failure to comply with prescribed administration, storage or handling of hazardous substances.	R500	R1000
Failure to comply with prescriptions regarding equipment maintenance and storage.	R500	R1000
Failure to comply with fuel storage, refuelling, or cleanup prescriptions.	R500	R1000
Failure to comply with prescriptions regarding procedures for emergencies (spillages and fires).	R1000	R5000
Failure to comply with prescriptions regarding construction camp.	R500	R5000
Failure to comply with prescriptions for the use of ablution facilities.	R500	R1000
Failure to comply with prescriptions regarding water provision.	R500	R1000
Failure to comply with prescriptions for the use of designated eating areas, heating source for cooking or presence of fire extinguishers.	R500	R1000
Failure to comply with prescriptions regarding fire control.	R500	R5000
Failure to comply with prescriptions for solid waste management.	R500	R5000
Failure to comply with prescriptions regarding road surfacing.	R500	R5000
Failure to comply with prescriptions to prevent water pollution and sedimentation	R500	R5000
Failure to comply with prescriptions to the protection of natural features, flora, fauna and archaeology.	R500	R5000
Failure to comply with prescriptions regarding speed limits.	R500	R1000
Failure to comply with prescriptions regarding noise levels of construction activities.	R500	R5000
Failure to comply with prescriptions regarding working hours.	R500	R5000
Failure to comply with prescriptions regarding aesthetics.	R500	R1000
Failure to comply with prescriptions regarding dust control.	R500	R1000
Failure to comply with prescriptions regarding security and access onto private property	R500	R1000
Failure to comply with prescriptions regarding cement and concrete batching	R500	R5000

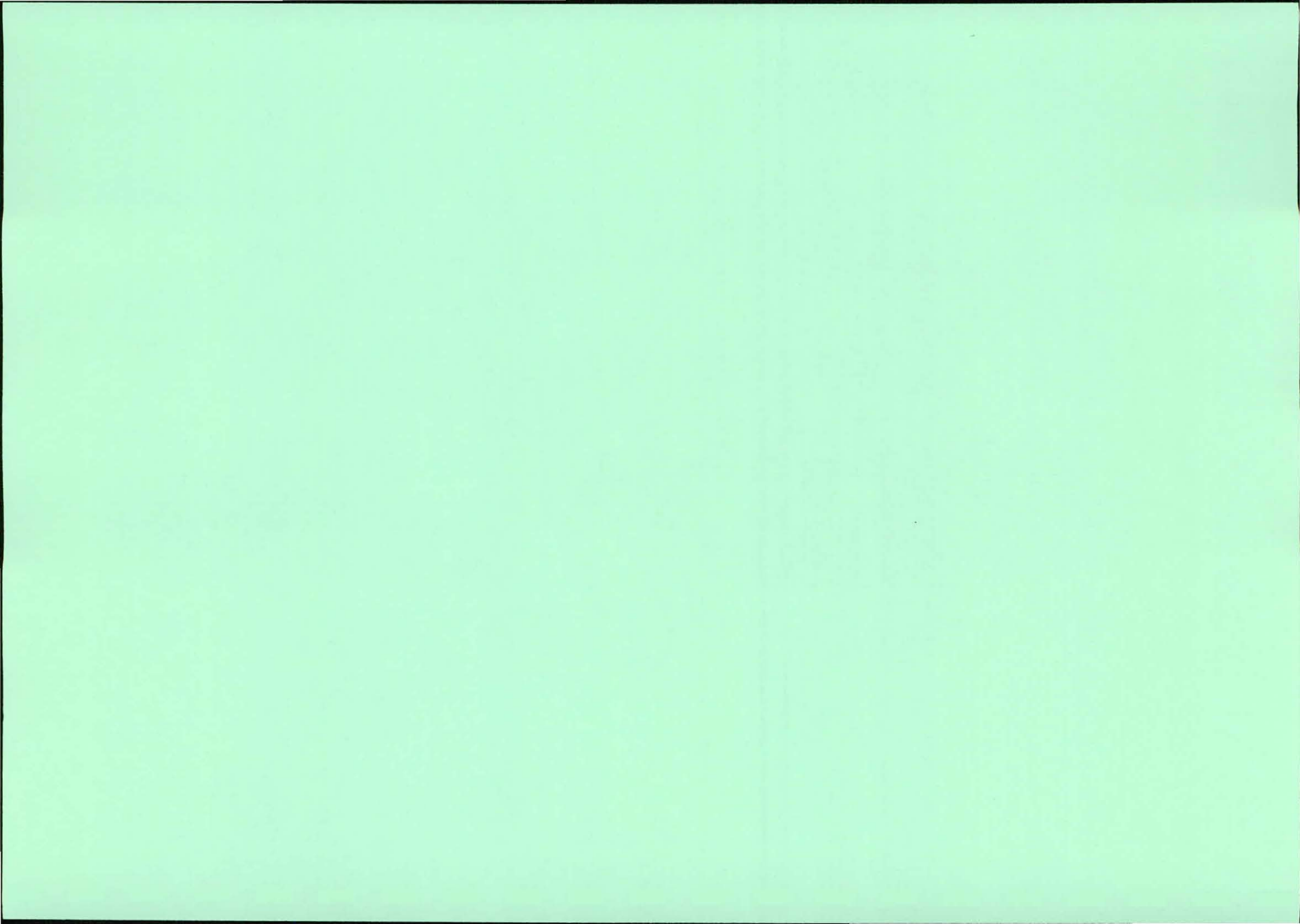
For each subsequent similar offence committed by the same individual, the fine shall be doubled in value to a maximum value of R50,000.



## APPENDIX 1

### PUBLIC PARTICIPATION INFORMATION

- I&AP DATABASE
- I&AP NOTIFICATION LETTER
- ADVERTISEMENT
- SITE NOTICES
- LETTERS TO LANDOWNERS
- COPIES OF WRITTEN COMMENTS



**Mnr J Badenhorst (Jan)**

Posbus 281 COLESBERG 9795

**Me C Booyens (Christine)**

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**Dr WA De Jongh (WA)**

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**Mr du Plessis (Callie)**

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**Mnr HE Hugo (Bootjie)**

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Cell 082 873 1033 Home 051 753 1311

**Mnr E Hugo (Ernest)**

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Home 051 753 0279

**Mnr C Kritzinger (Carel)**

Email chaca@telkomsa.net

**Mr T Rous (Trevor & Judy)**

P O Box 25 COLESBERG 9795  
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NOTE: Judy - 083 259 3308

**Mnr T Southey (T)**

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**Mnr N Van der Merwe (Nicolas)**

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NOTE: 9 Ventershoek Street

**Mnr Wium (Manie)**

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**Action Group Colesberg**

**Mr J Matthee (Johan)**

Chairman Action Group Colesberg  
Fax 051 753 9290 Cell 082 406 8248 Home 051 753 9281 Email jmatthee@oldmutualpfa.com  
NOTE: Or Fax 086 513 8232

**ADT Town Planners**

**Mnr A du Toit (Andre)**

ADT Town Planners  
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**ANC**

**Mr L Banjwa (Lulamile)**

ANC  
21 Selai Crescent COLESBERG 9795

**Mr L Baugane (Lupaniele)**

ANC  
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Cell 082 538 6894

ANC

**Mnr C Marais (Charlie)**  
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NOTE: Tozi mcoyana

ANCYL

**ET Mokoena (ET)**  
ANCYL  
200A Old Location COLESBERG 9795  
Cell 078 871 5489

**AK Solomon (Anele Kheneth)**  
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**AK Solomon (AK)**  
ANCYL  
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BGC Administration cc

**Mnr G Hendriks (Gerrie)**  
BGC Administration cc  
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Email kfchq@isat.co.za

Bokamoso Landscape Architects & Env. Consultants

**Ms L Gregory (Lizelle)**  
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Colesberg Accommodation Association

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Colesberg Boere-Unie

**Mnr JFL Kruger (JFL)**  
Colesberg Boere-Unie  
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Colesberg Toerisme Buro

( )  
Colesberg Toerisme Buro  
Posbus X6 COLESBERG 9795  
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Colesberg Verkeersdepartement

**Mnr FJ Malgas (Frank)**  
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Department of Env. Affairs & Nature Conservation

**Mr J J Mutyorauta (Julius)**

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Email [jmytorauta@half.ncape.gov.za](mailto:jmytorauta@half.ncape.gov.za)

NOTE: Gen.(053) 807 4800. Secretary: Ann Jacobs. Phy.Add: 90 Long Street, Sasko Building, Kimberley 8300

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EBB Consulting cc

**Mr G Erasmus (Kallie)**

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NOTE: Represents Engen

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N Cape Dept. Transport & Public Works

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NOTE: Kerkstraat, De Aar, Departement van Toerisme

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**Mrs W Gogotya (Wonkie)**  
NCOP - Parliament  
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NOTE: Parliament Gen. No. 021 403 2911

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OK Colesberg

**Mr T Rodrigues (Tiyago)**  
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Okey Dokey

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**D Wessels (Debbie)**  
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SACP

**Mr E Mkhontwana (Eric)**  
SACP  
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NOTE: no longer with SACP

SANCO

**Mr Jim Dubula (Jim)**  
SANCO  
154D Chris Hani COLESBERG 9795  
Cell 079 983 8521

**Mr D Mveli (Doctor)**  
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42B Main Road COLESBERG 9795  
Home 051 753 1678

**Mrs J Phokeng (Jane)**  
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126B Old Location COLESBERG 9795  
Cell 078 584 2639

**Mr MA Phokeng (MA)**  
SANCO  
136b Kuysa COLESBERG 9795  
Cell 083 518 4308

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**Ms M Galimberti (Mariagrazia)**  
Archaeology, Palaeontology & Meteorite Unit South African Heritage Resources Agency (SAHRA)  
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NOTE: 111 Harrington St, CAPE TOWN, 8000

South African National Roads Agency SOC Limited

**Mr C Brink (Nelis)**  
South African National Roads Agency SOC Limited  
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The Barracks

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The Barracks  
15-17 D'urban Row COLESBERG 9795  
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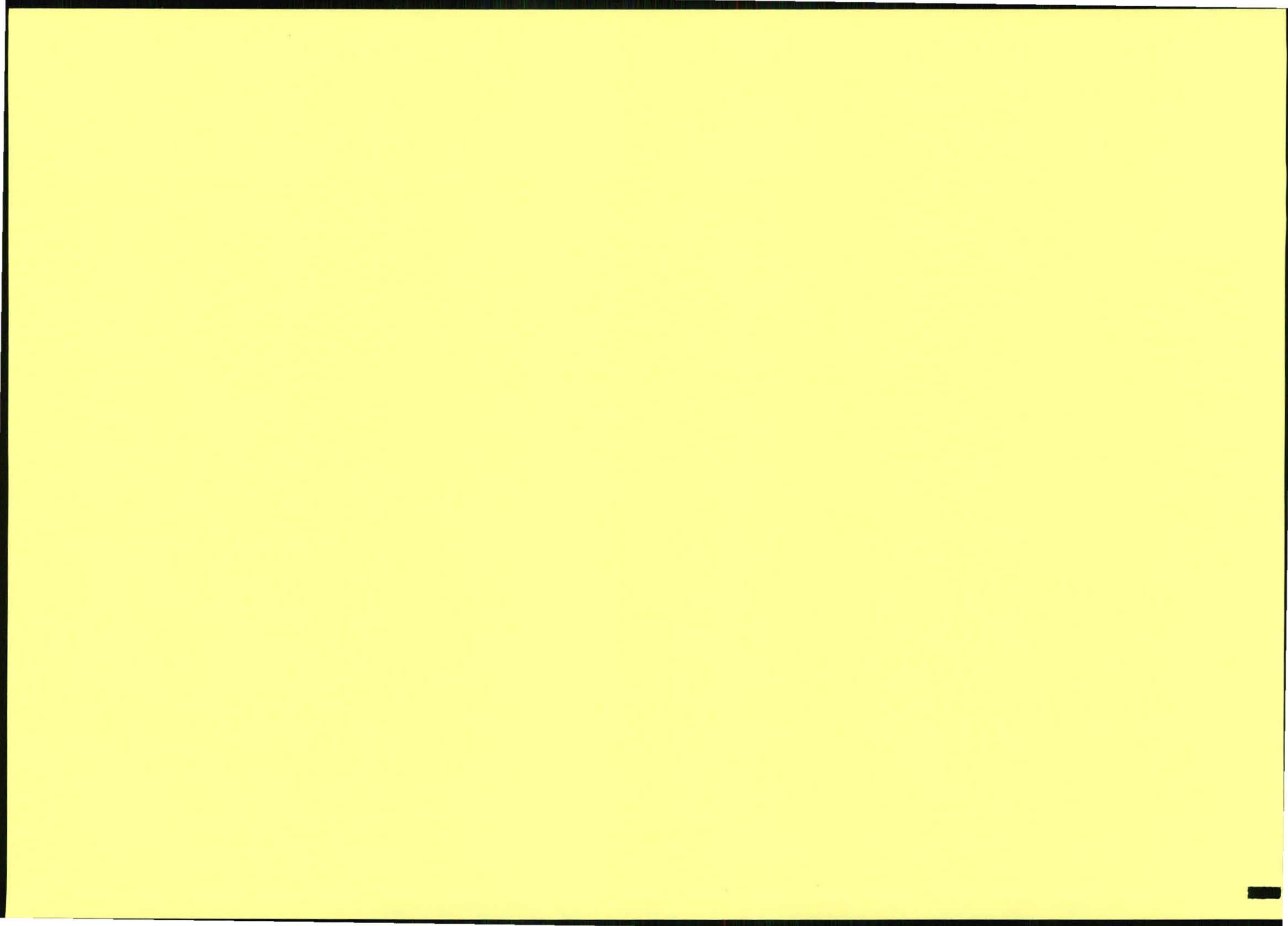
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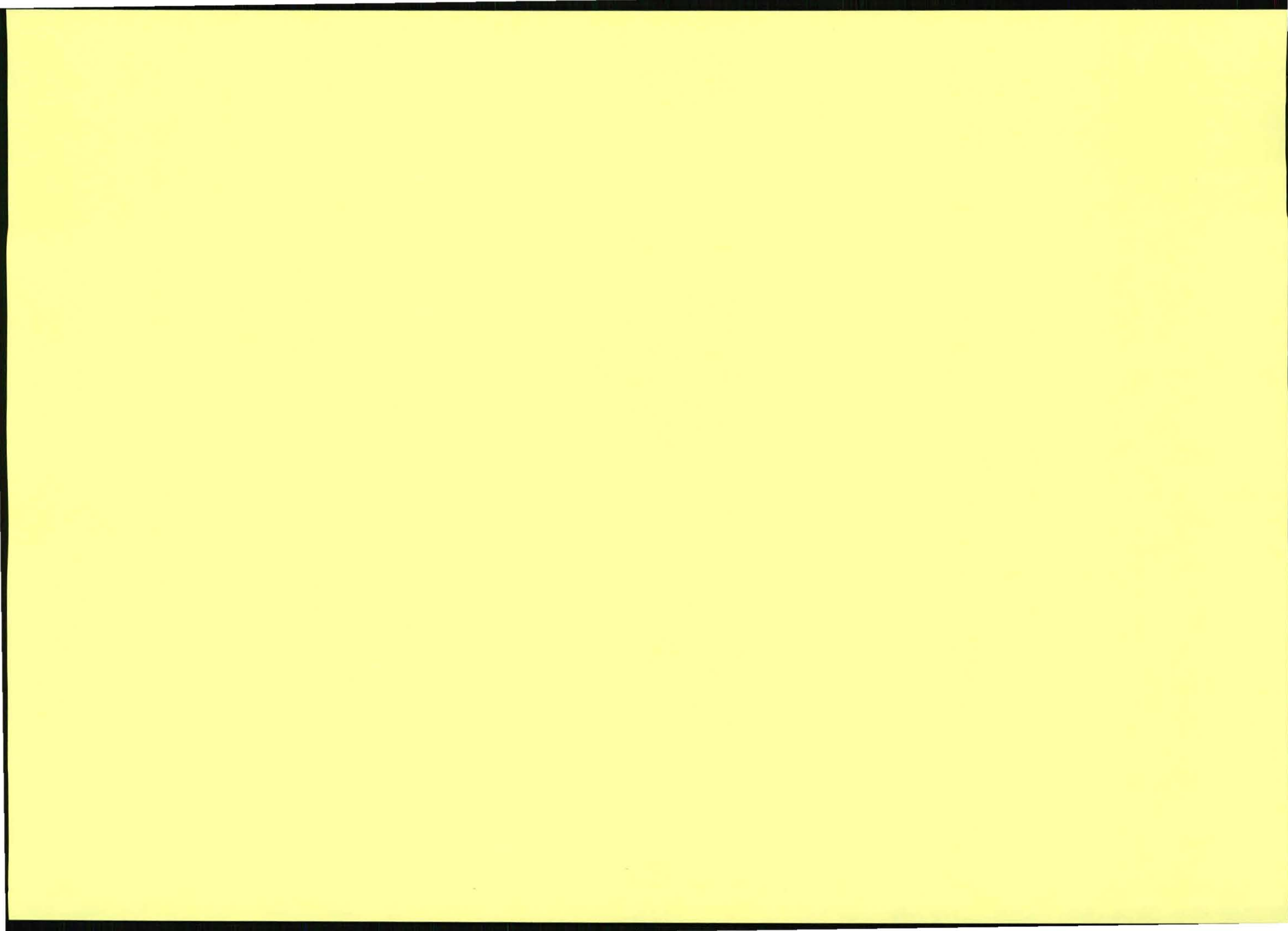
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89 names listed

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29 March 2011

Dear Sir / Madam

**REHABILITATION AND UPGRADING OF SECTION 7 OF THE N9 BETWEEN WOLWEFONTEIN AND COLESBERG: PROPOSED EXTENSION OF FOUR ABANDONED BORROW PITS IN THE COLESBERG AREA**

Our previous correspondence of 10 March 2011 has reference.

The South African National Roads Agency Limited (SANRAL) has obtained Environmental Authorisation from the Department of Environmental Affairs to rehabilitate and upgrade road infrastructure in the Colesberg area. Eight borrowpits were initially identified as sources of material for the road upgrade and rehabilitation project. However, two borrowpits were subsequently withdrawn by SANRAL due to objections by the Umsobomvu Municipality, and as a result it has become necessary to identify additional sources of fill material.

UWP Consulting (Pty) Ltd (UWP) and Bergstan South Africa (Pty) Ltd, appointed by SANRAL to undertake the engineering design for the road upgrade and associated borrow pits, have subsequently identified four additional borrow pits in the Colesberg area as potential sources for material to make up the shortfall (see Table 1 and Figure 1).

**Table 1: Additional four borrow pit sites.**

Borrow pit No.	Location	Co-ordinates		Approximately size (ha)
		Latitude (S)	Longitude (E)	
9	Km 5.0 (LHS) along Divisional Road (DR) 3080	30°41.515'	25°03.060'	4.8
10	Km 92 (LHS) along the N9	30°45.537'	25°05.017'	4.8
11	Km 89.8 (RHS) along the N9	30°46.016'	25°05.701'	4.8
12	Km 0.9 (LHS) along the Oorlogspoort Road	30°46.742'	25°05.089'	4.8

UWP, in turn, appointed CCA Environmental (Pty) Ltd (CCA) to act as the independent environmental consultant to compile an Environmental Management Programme (EMP) and undertake the associated Public Participation Process for the proposed borrow pits in terms of the Mineral and Petroleum Resources Development Act, 2002 (No. 28 of 2002) (MPRDA).

If you or your organisation would like to register as an interested and affected party (I&AP) and/or wish to participate in the study, please complete the enclosed I&AP Registration and Comment Form and return to CCA (Attention: Ms Eloise Costandius). In addition, any I&APs wishing to receive additional information or who would like to submit comments on the proposed borrow pit development for inclusion in the EMP should do so by **no later than 3 May 2011**.

Yours sincerely



Jonathan Crowther Pr.Sci.Nat., CEAPSA  
**CCA ENVIRONMENTAL (PTY) LTD**

cc. Adrian Skea, UWP Consulting

UWP01COL/Corr/Let I&APs- BP 9 to 12 General I&AP letter (29 Mar 11)

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

29 Maart 2011

Geagte Meneer / Dame

### REHABILITASIE EN OPGRADERING VAN GEDEELTE 7 VAN DIE N9 TUSSEN WOLWEFONTEIN EN COLESBERG: VOORGESTELDE UITBREIDING VAN VIER ONTRUIMDE LEENGROEWE IN DIE COLESBERGOMGEWING

Ons vorige korrespondensie van 10 Maart 2011 verwys.

Die Suid-Afrikaanse Nasionale Padagentskap Beperk (SANRAL) het Omgewingsgoedkeuring van die Departement van Omgewingsake verkry om padinfrastruktuur in die Colesbergomgewing te rehabiliteer en te verbeter. Agt leengroewe is aanvanklik ge-identifiseer as bronne van materiaal vir die padverbeterings- en rehabilitasieprojek. Twee van die leengroewe is egter later deur SANRAL onttrek as gevolg van besware deur die Umsobomvu Munisipaliteit en gevolglik is dit nodig om addisionele bronne van vulmateriaal te identifiseer.

UWP Consulting (Edms) Bpk (UWP) en Bergstan South Africa (Edms) Bpk, aangestel deur SANRAL om die ingenieursontwerp van die padverbetering en verwante leengroewe te onderneem, het vervolgens vier addisionele leengroewe in die Colesbergomgewing as potensiële materiaalbronne ge-identifiseer om die tekort aan te vul (kyk Tabel 1 en Figuur 1).

**Tabel 1: Vier addisionele leengroefterreine.**

Leengroef No.	Ligging	Ko-ordinate		Geraamde grootte (ha)
		Breedtegraad (S)	Lengtegraad (O)	
9	Km 5.0 (LHK) langs Distrikspad (DR) 3080	30°41.515'	25°03.060'	4.8
10	Km 92 (LHK) langs die N9	30°45.537'	25°05.017'	4.8
11	Km 89.8 (RHK) langs die N9	30°46.016'	25°05.701'	4.8
12	Km 0.9 (LHK) langs die Oorlogspoortpad	30°46.742'	25°05.089'	4.8

Op hulle beurt het UWP vir CCA Environmental (Edms) Bpk (CCA) aangestel om as onafhanklike omgewingskonsultant 'n Omgewingsbestuursprogram (OBP) saam te stel en die aanverwante Openbare Deelnameproses vir die beoogde leengroewe te onderneem in gevolg van die Wet op die Ontwikkeling van Minerale- en Petroleumhulpbronne, 2002 (No. 28 of 2002) (MPRDA).

Indien u of u organisasie belang stel om as 'n belanghebbende en belangstellende party (BBP) te registreer en/of aan die ondersoek deel te neem, word u versoek om asseblief die aangehegte BBP Registrasie- en kommentaarvorm te voltooi en aan CCA terug te stuur (Aandag: Me Eloise Constandius). Daarbenewens moet enige BBPe wat addisionele inligting wil versoek of kommentaar oor die voorgestelde leengroefontwikkeling vir insluiting in die OBP wil indien, dit asseblief doen teen **nie later nie as 3 Mei 2011.**

Vriendelike groete



Jonathan Crowther Pr.Sci.Nat., CEAPSA

**CCA ENVIRONMENTAL (PTY) LTD**

cc. Adrian Skea, UWP Consulting

UWP01COL/Corr/Let I&APs- BP 9 to 12 General I&AP letter\_Afrikaans (29 Mar 11)

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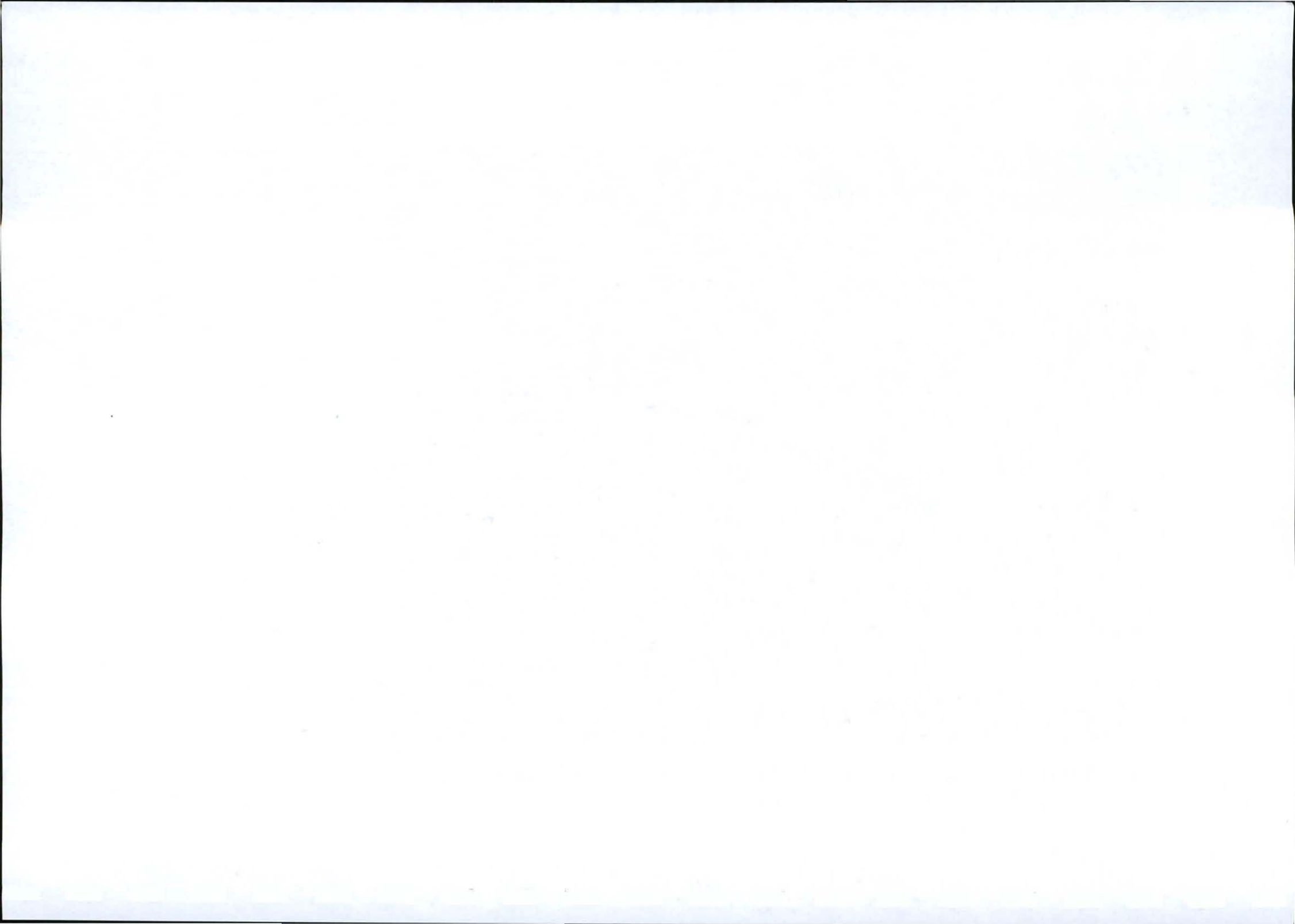
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Directors: J Crowther F Fredericks • Reg No 2003/019026/07



Figure 1: Location of the four proposed borrow pits.

Figuur 1: Ligging van die vier voorgestelde leengroewe.



**PROPOSED EXTENSION OF FOUR ABANDONED BORROW PITS IN THE COLESBERG AREA**

**INTERESTED AND AFFECTED PARTY (I&AP)  
REGISTRATION AND COMMENT FORM**

Please tick the appropriate box.

Would you or your organisation like to become a Registered I&AP and continue to receive information on the above-mentioned project?

YES	NO
-----	----

**NAME:**

**ORGANISATION:**   
IF APPLICABLE

**RESIDENTIAL ADDRESS:**  **CODE:**

**POSTAL ADDRESS:**   
IF DIFFERENT FROM ABOVE **CODE:**

**TEL:**  **FAX:**

**E-MAIL ADDRESS:**

Do you or your organisation wish to raise any issues or concerns regarding the proposed borrow pit development?

YES	NO
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If yes, please describe/detail below (please continue over page if necessary).

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**ANY COMMENTS SHOULD BE FORWARDED TO CCA ENVIRONMENTAL (DETAILS BELOW) BY 3 MAY 2011 TO BE INCLUDED IN THE ENVIRONMENTAL MANAGEMENT PROGRAMME**

**VOORGESTELDE UITBREIDING VAN VIER ONTRUIMDE LEENGROEWE IN DIE  
COLESBERGOMGEWING**

**BELANGHEBBENDE EN BELANGSTELLENDEN PARTY (BBP)  
REGISTRASIE- EN KOMMENTAARVORM**

Merk asseblief die toepaslike blokkie.

Wil u of u organisasie 'n Geregistreerde BBP word en voortgaan om inligting oor die bostaande projek te ontvang?

JA      NEE

NAAM:

ORGANISASIE:

INDIEN VAN TOEPASSING

WOONADRES:

KODE:

POSADRES:

INDIEN      VERSKILLEND      VAN  
BOSTAANDE

KODE:

TEL:

FAKS:

E-POSADRES:

Wil u of u organisasie enige kwessies of vrae lug oor die beoogde leengroefontwikkeling?

JA      NEE

Indien wel, beskryf asseblief/voorsien besonderhede hieronder (gaan asseblief voort op die keersy indien nodig).

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**ENIGE KOMMENTAAR MOET GESTUUR WORD AAN CCA ENVIRONMENTAL (DETAILS HIERONDER) TEEN  
3 MEI 2011 OM IN DIE OMGEWINGSBESTUURSPROGRAM INGESLUIT TE WORD**

**CCA ENVIRONMENTAL (EDMS) BPK**



Aandag: Eloise Costandius

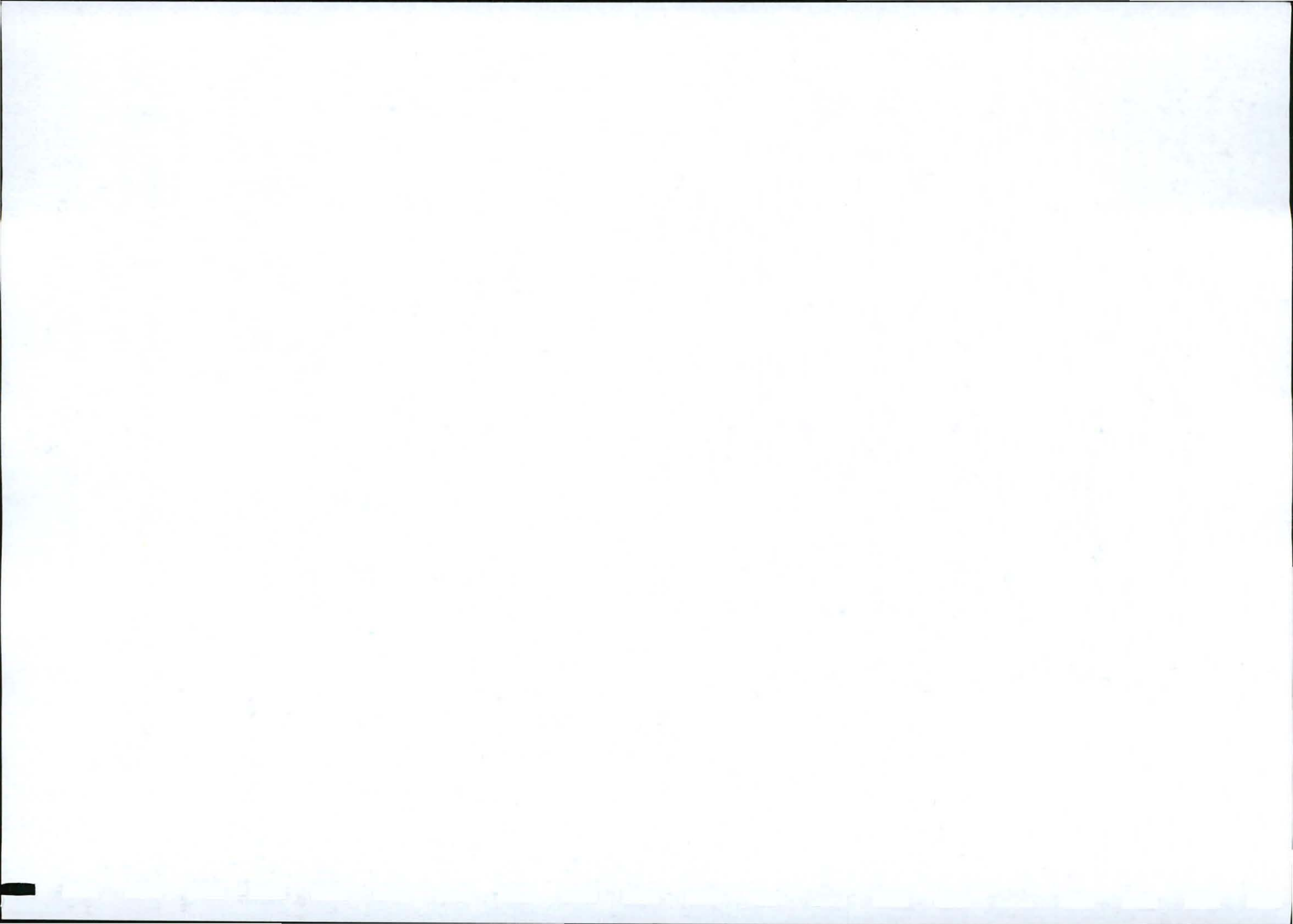
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Tel: (021) 461-1118      Faks: (021) 461-1120      E-pos: [eloise@ccaenvironmental.co.za](mailto:eloise@ccaenvironmental.co.za)

CCA ENVIRONMENTAL (PTY) LTD

ACKNOWLEDGEMENT FORM  
LETTERS POSTED

<b>Project:</b>	REHABILITATION AND UPGRADING OF SECTION 7 OF THE N9 BETWEEN WOLWEFONTEIN AND COLESBERG: PROPOSED EXTENTION OF FOUR ABANDONED BORROWPITS IN THE COLESBERG AREA	
<b>Letter Reference:</b>	UWP01COL(2)	
<b>Number of letters posted:</b>	76	
<b>Date posted:</b>	30 MARCH 2011	
<b>Post Office:</b>	Mill Street Post Office, Cape Town	
<b>Signed:</b>		
 _____ CCA Environmental (Pty) Ltd Director	<u>30 March 2011</u> _____ Date	
<b>Signed:</b>		
 _____ Mill Street Post Office	<table border="1"><tr><td>FOLIO 2 Millstreet Post Office 2011 -03- 30 Ph: 021-465 1013</td></tr></table> _____ Date	FOLIO 2 Millstreet Post Office 2011 -03- 30 Ph: 021-465 1013
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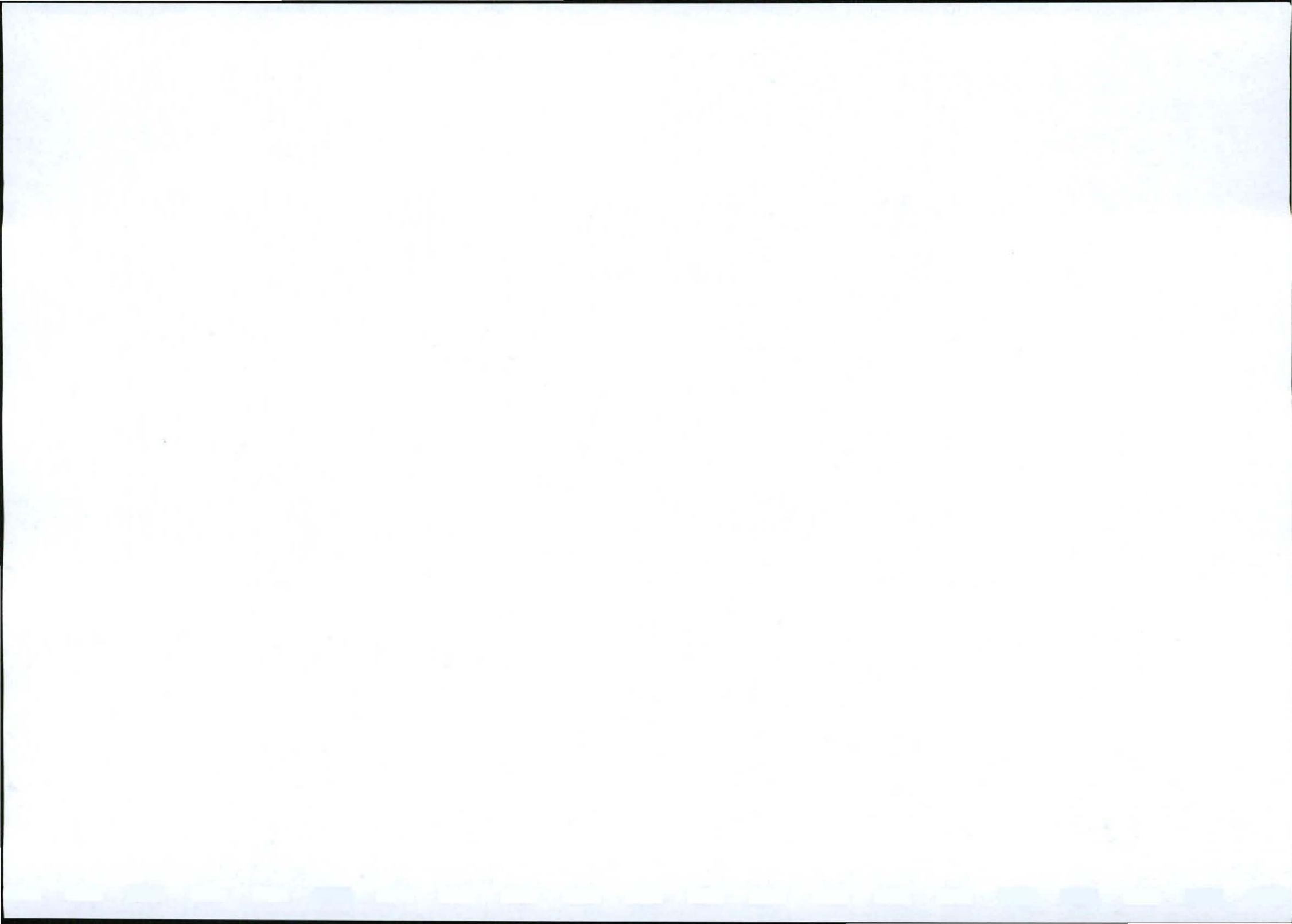


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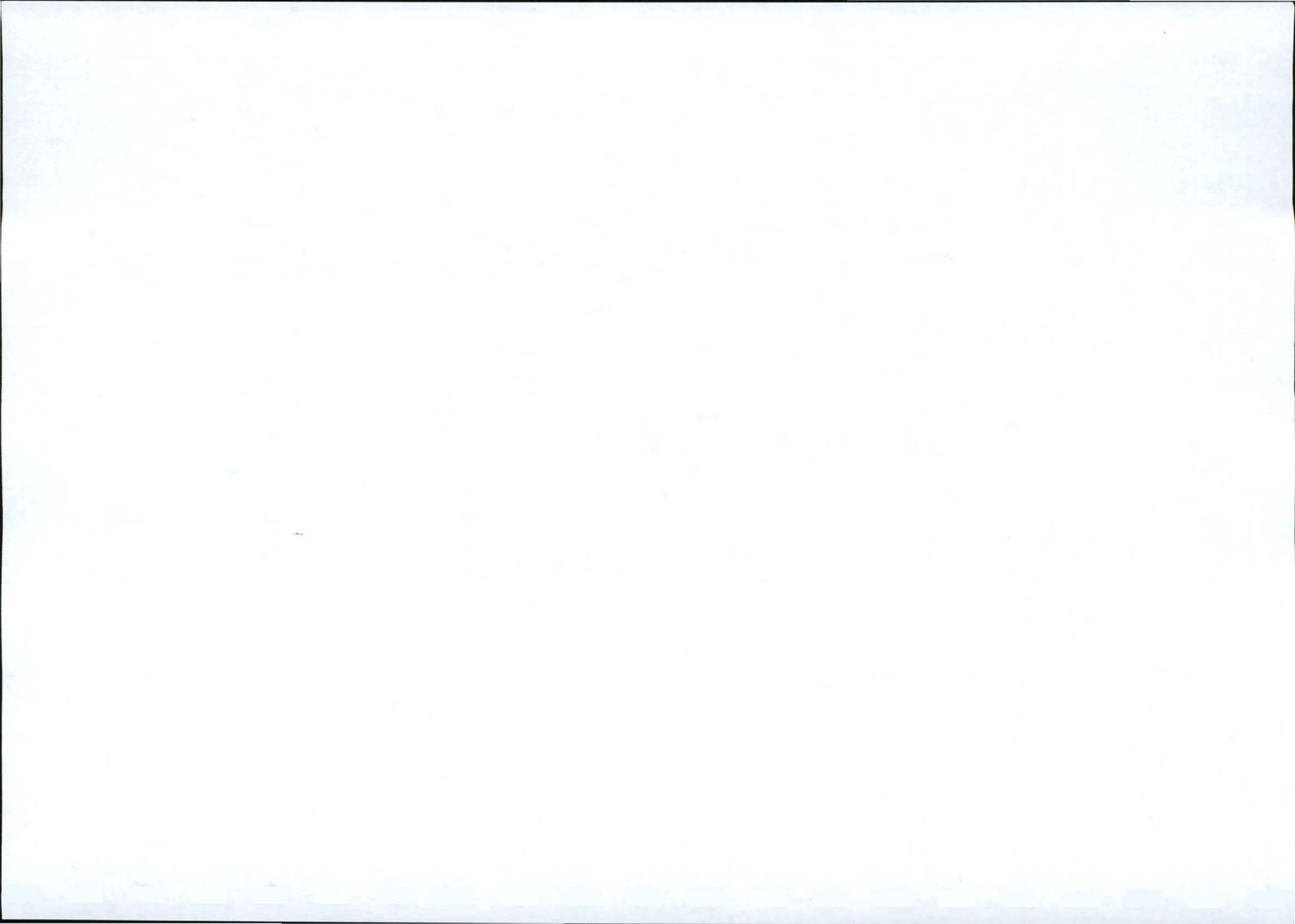


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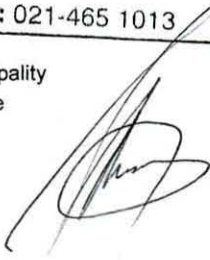
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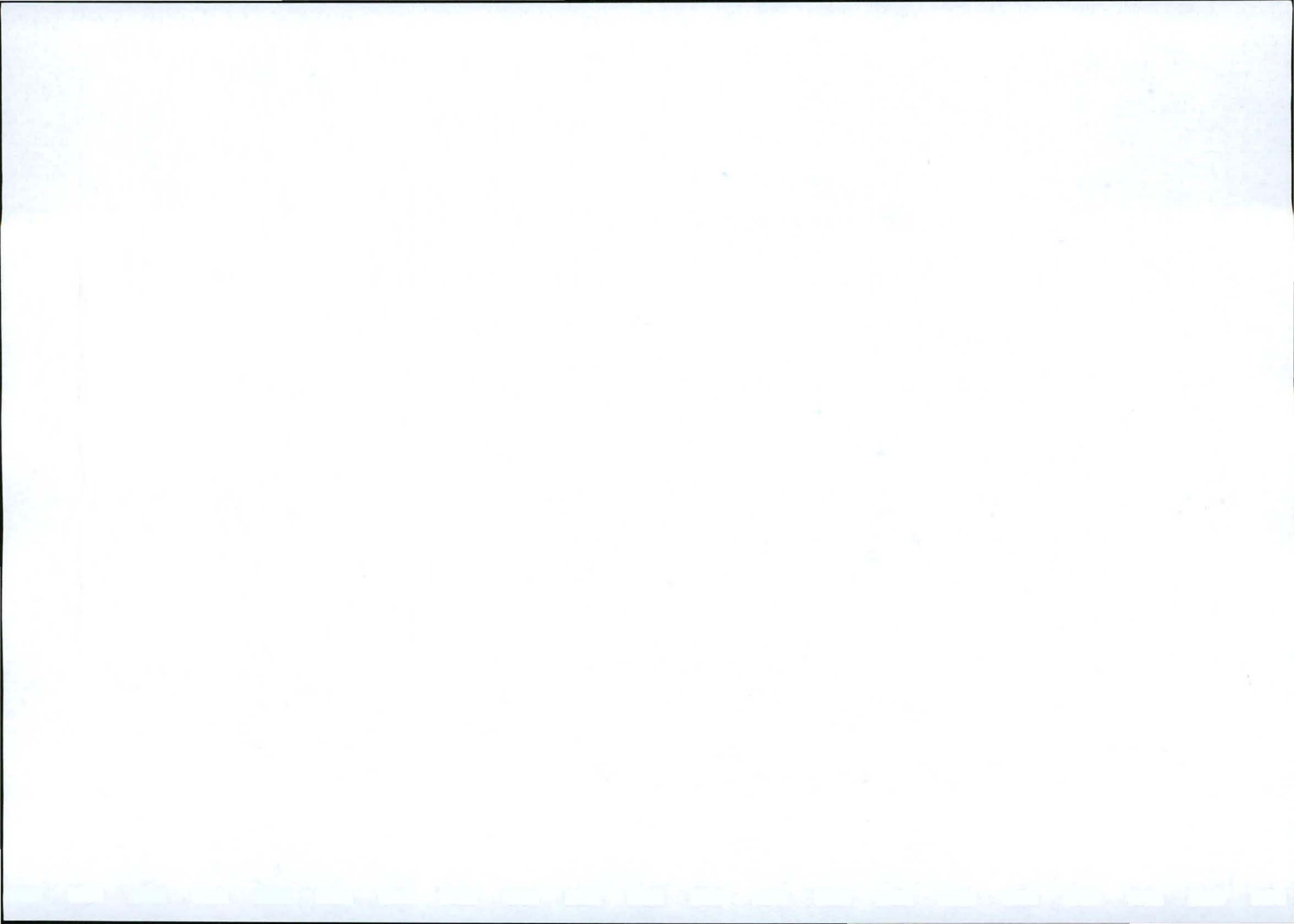
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204B Old Location  
COLESBERG  
9795





Mnr T Southey  
Ventershoekstraat 3  
COLESBERG  
9795

Mnr N Van der Merwe  
Rietfontein  
Posbus 100  
COLESBERG  
9795

Mnr H van Heerden  
Merino Inn Hotel Colesberg  
N1 Bypass  
Posbus 10  
COLESBERG  
9795

Mnr A van Niekerk  
ENGEN  
P O Box 35  
CAPE TOWN  
9000

Mnr H van Rensburg  
ENGEN  
P O Box 414  
BLOEMFONTEIN  
9300

Mnr JJ Van Wyk  
Toverberg Gastehuis  
Charl Cillierstraat 4  
COLESBERG  
9795

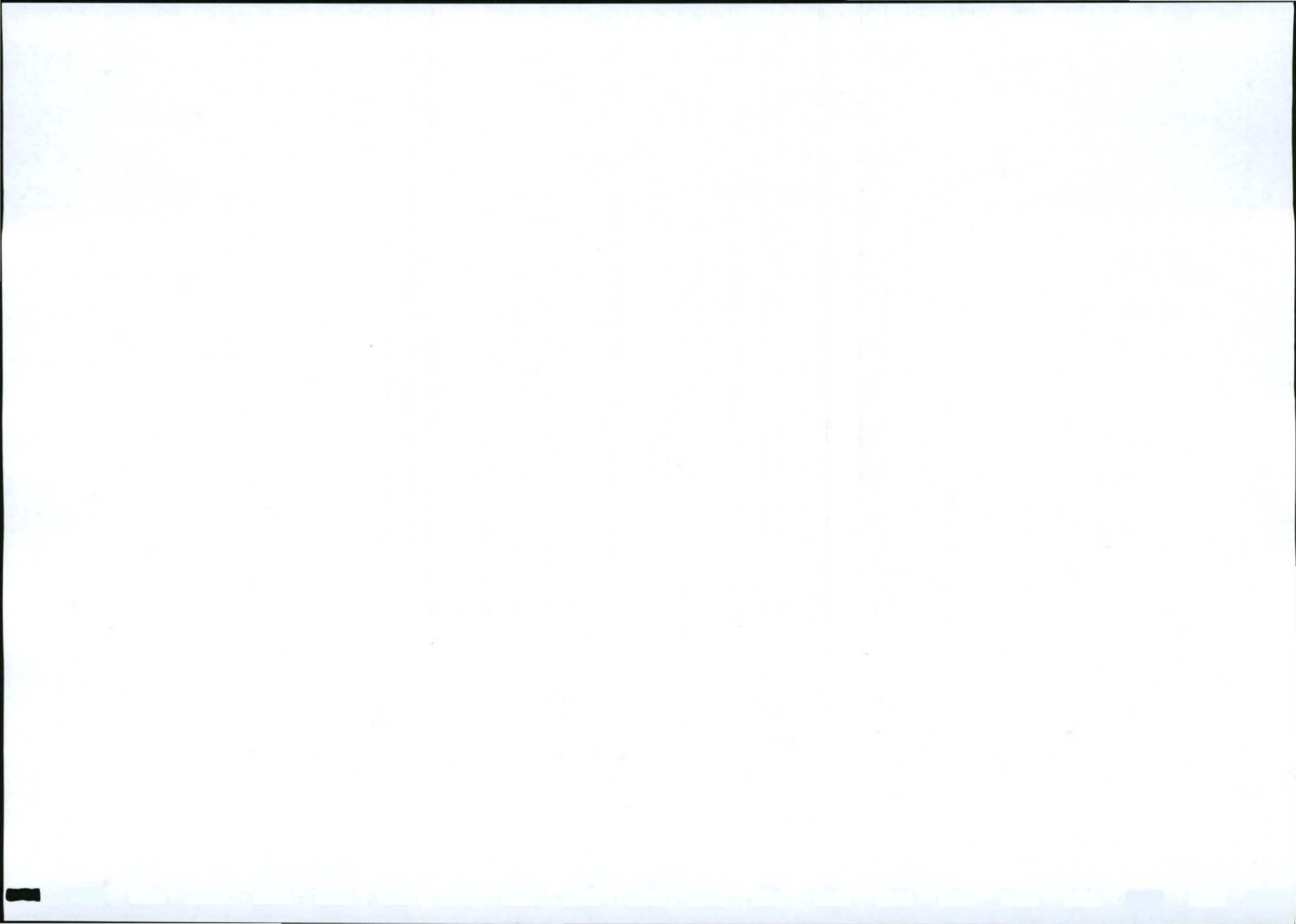
Mr JR Van Zijl  
PO Box 272  
COLESBERG  
9795

D Wessels  
Regional Content Researcher  
Private Projects  
P O Box 1091  
HILTON  
3245

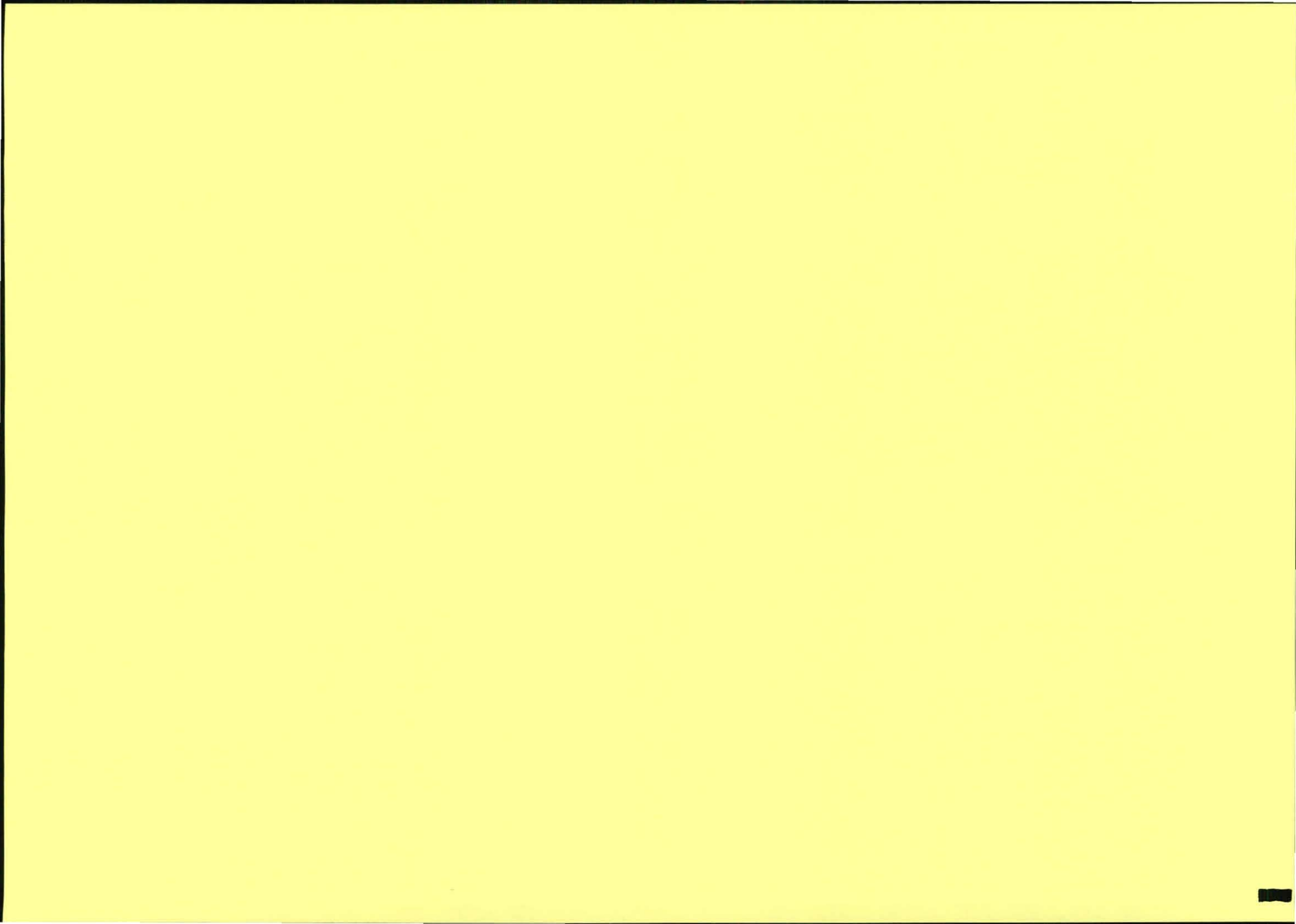
Mnr Wium  
Posbus 21  
COLESBERG  
9795

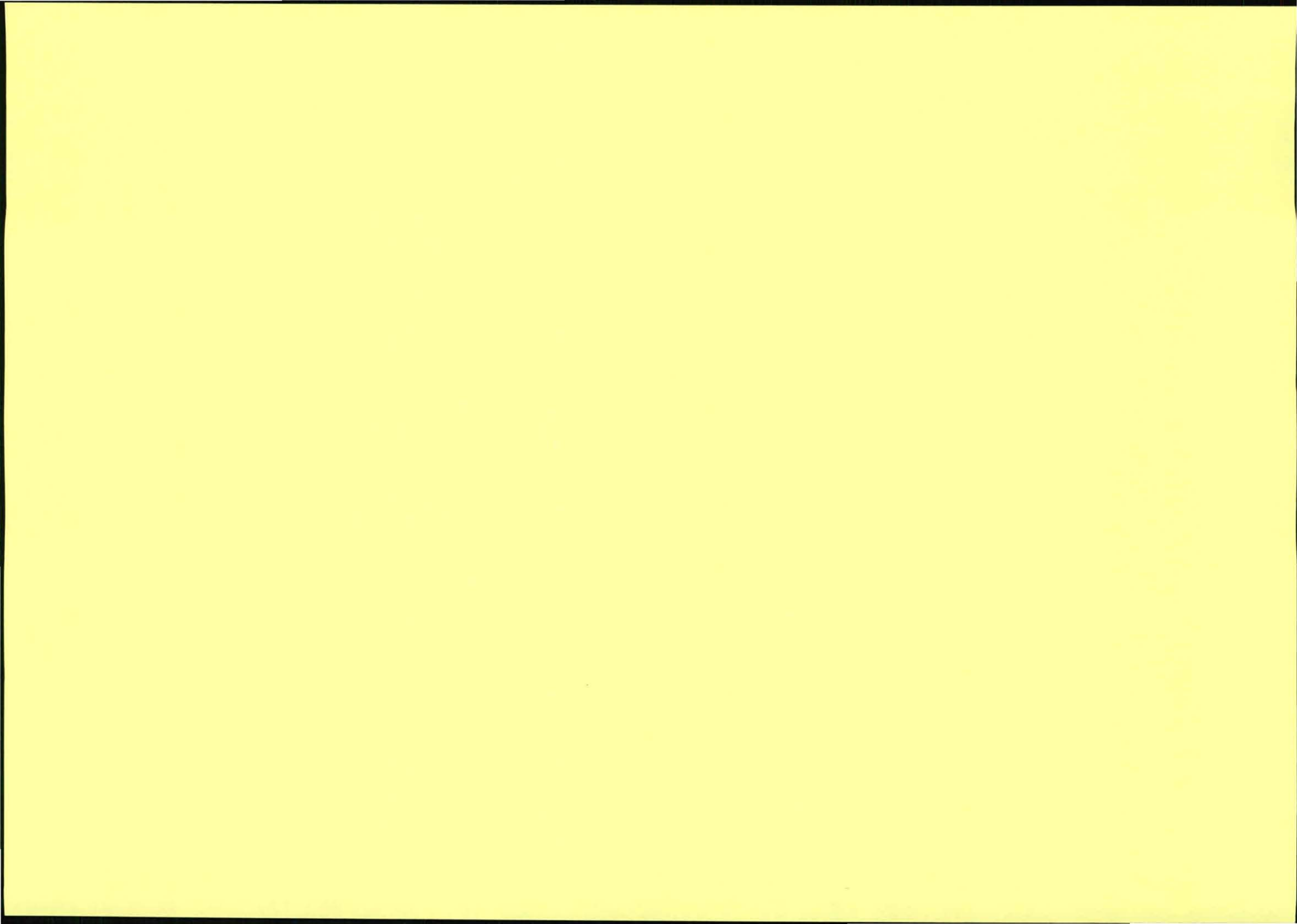
FOLIO 2  
Millstreet Post Office  
**2011 -03- 30**  
Ph: 021-465 1013











**Text of Advertisement placed in the Graaff-Reinet and  
Colesberg Advertiser on 01 April 2011**



**NOTICE OF PUBLIC PARTICIPATION PROCESS  
PROPOSED EXTENSION OF FOUR ABANDONED  
BORROW PITS IN THE COLESBERG AREA**

Notice is hereby given in terms of the Minerals and Petroleum Resources Development Act (No. 28 of 2002) (MPRDA), of the proposal to undertake the following activity:

**Activity:** Proposed extension of four abandoned borrow pits located in the Colesberg area. These borrow pits are required for the sourcing of material for the upgrading and rehabilitation of Section 7 of the N9 between Wolwefontein and Colesberg.

**Location:** The proposed borrow pits are located along the following roads in the Colesberg area:

1. N9:
  - Km 89.8 (RHS) along the N9 on Erf 1272, Colesberg (Farm Grassridge).
  - Km 92.0 (LHS) along the N9 on Erf 2054, Colesberg (Farm Southfork).
2. Oorlogspoort Road
  - Km 0.9 (LHS) along the Oorlogspoort Road on Erf 1271, Colesberg.
3. Divisional Road (DR) 3080
  - Km 5.0 (LHS) along DR3080 on Erf 1733, Colesberg (Farm Colesbergkop).

**Proponent:** The South African National Roads Agency Limited (SANRAL)

**Environmental consultant:** CCA Environmental (Pty) Ltd (CCA)

**Engineering consultant:** UWP Consulting (Pty) Ltd and Bergstan South Africa (Pty) Ltd

CCA is currently in the process of preparing an Environmental Management Programme (EMP) for the proposed borrow pit extensions in terms of the MPRDA for submission to the Department of Mineral Resources.

If you or your organisation would like to register as an interested and affected party (I&AP) and/or wish to participate in the study, please contact Ms Eloise Costandius of CCA at the contact details below. In addition, any I&APs wishing to receive additional information or who would like to submit comments on the proposed borrow pit development for inclusion in the EMP should do so by **no later than 3 May 2011**.

**CCA Environmental Contact Details:**

Unit 35 Roeland Square, Drury Lane, CAPE TOWN, 8001

PO Box 10145, Caledon Square, CAPE TOWN, 7905

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

E-mail: [eloise@ccaenvironmental.co.za](mailto:eloise@ccaenvironmental.co.za)

<http://www.ccaenvironmental.co.za>

Date of Advertisement: 31 March 2011

**cca**  
ENVIRONMENTAL



**Bergstan**  
SOUTH AFRICA  
Consulting and Development  
Engineers (Pty) Ltd

# Op pad Singapoer toe

COLESBERG — Shinique Plaatjies is 'n netbalster van Hoërskool Colesberg wat in haar hoërskoolloopbaan al vele sukses agter haar naam kan skryf. Die SA netbalspan gaan vanjaar 'n toer onderneem na Singapoer en word verskeie proewe op provinsiale vlak gespeel om die top 25 netbalspeelsters van elke provinsie te identifiseer. Shinique was dan ook een van die proewe op De Aar deel te

kon neem. Gelukkig was sy om tydens hierdie proewe gekies te kon word vir die volgende rondte proewe, wat voor-verlede naweek in Hartswater gespeel is. Shinique het ondanks 'n legementbesering goeie netbal gespeel en is sy gekies om die Noord-Kaapspan by die finale proewe te Kaapstad te verteenwoordig. Vanuit al nege provinsies se top 25 netbalspeelsters, sal die SA span vir Singapoer hier gekies word.

Intussen speel die verskillende provinsies verskeie toernooie, maar as gevolg van Shinique se besering, kan sy ongelukkig nie daaraan deelneem nie. Die keurders het haar toestemming gegee om haar voet te laat rus sodat sy fiks en gesond kan wees vir die finale proewe in Kaapstad. Hoërskool Colesberg hou styf duim vas dat hierdie eer ook hierdie belovende netbalspeelster, te beurt sal val.

## R300m padbouprogram begin nou brul

COLESBERG — Miljoene rande se padboumasjinerie van Basil Read/Newport Joint Venture gaan binnekort op die N9 begin brul om daardie kontrak van meer as R300 miljoen se herstelwerk, asook die dubbele wisselaarbrug oor die N1 aan die suidkant van die dorp betyds binne 18 maande te voltooi. Hierdie wisselaar sal vyf opritte van 8m wyd insluit, asook twee nuwe 12.4m wye toegangspaaie tot die N1, wat oor 'n brug van 10m hoog ten noorde van die wisselaar, en nog een van dieselfde hoogte ten suide daarvan sal lei. Die duisende kubieke meter gruis vir die rehabilitasie van daardie 30.7km slagtag-besaaid stuk N9-teerpad vanaf Wolwefontein tot by die wisselaar, sal 52km ver per wipwagmotor vanaf Noupport se steengroef aangery moet word. Die N9 sal tot 3.7m verbreed word en van 2.5m wye skouers voorsien word, terwyl twee bruggies oor die Uitspan- en die Poortjie-spruite ook verbreed en verleng sal word. Terselfdertyd sal 905 000 kubieke meter grond ook verskuif moet word, en 10 600 kubieke meter beton tydens die bouery gegiet moet word, het Ian van der Walt, die

projek se residensiële siviele ingenieur, die Advertiser hierdie week meegedeel. Konsulerende ingenieurs UWP Consulting en Bergstan SA Consulting and Development Engineers JV sal teen die helfte van volgende maand ook by hulle aansluit. Die kontrak sluit verder nog 13 050 ton se teermengsel in, seëlwerk, plus meer as 3km se betonpype onderdeur die N9. Benewens die opgeleide operateurs van dosyne stoot- en padskrapers, masjien-grawers en wipwagmotors, sal die kontrakteurs verder ook sowat 150 sub-kontrakteurs en ongeskoolde arbeiders plaaslik moet werf. Die kontrakteurs, wat die projek namens die Suid-Afrikaanse nasionale padagentskap (SANRAL) onderneem, is tans op die uitkyk vir 10 uurhuise vir hul personeel, wat teen spitsyd van die 18-maande lange skema tot 14 wonings kan uitbrei. Terwyl die hele projek SANRAL, 'n volle R300 385 820.05 (koopbelasting ingesluit) gaan kos, behoort die plaaslike ekonomie daarbenevens ook aansienlik by hierdie geweldige inspuiting van baie bykomende beursies te baat.

Projek  
kan  
150  
werkers  
hier  
plaaslik  
betrek



Die netbalster van Hoërskool Colesberg: Shinique Plaatjies.

### UMSOBOMVU MUNICIPALITY: PUBLIC INSPECTION 2011/12 DRAFT BUDGET AND 2011/12 DRAFT IDP

Members of the public are herewith notified in terms of Chapter 4 of the Local Government: Municipal Systems Act, 2000 (Act 32 of 2000) that the municipality has reviewed the Integrated Development Plan for the 2011/12 financial year. Members of the public are notified in terms of Chapter 4 of the Local Government: Municipal Systems Act, 2000 (Act 32 of 2000) and Section 22 of the Municipal Finance Management Act, 2003 (Act 56 of 2003) that the municipality has prepared the 2011/12 Draft Budget. The Draft 2011/12 IDP and the Draft 2011/12 Budget has been submitted to Council on 31 March 2011. The public are herewith informed that the Draft IDP and Draft Budget lie open for inspection and the public is invited to submit comments and give inputs on the 2011/12 Draft IDP and Draft Budget. Copies of the documents are available at the municipal offices in Colesberg, Noupport and Norvalspont as well as at the Colesberg and Noupport and Mongezi Juda Libraries.

Comments and or inputs, if any, must reach the Municipal Manager on or before 22 April 2011 at close of business at the following address: Umsobomvu Municipality, Private Bag X6, Colesberg, 9795 or hand delivered at Umsobomvu Municipal Offices, 21A Church Street, Colesberg, 9795. Persons who cannot make written submissions are requested to visit the Council Support Section where they will be assisted to make submissions. All enquiries i.r.o. the Draft Budget should be referred to the Financial Manager at 051-7530777 or e-mail: [dionne@umsobomvumun.co.za](mailto:dionne@umsobomvumun.co.za). All enquiries i.r.o. the Draft IDP should be referred to the Manager Community Development Services at 051-7530777 or e-mail: [manne@umsobomvumun.co.za](mailto:manne@umsobomvumun.co.za).

Closing date for submissions: 22 April 2011 at 16:30.

### UMSOBOMVU MUNISIPALITEIT: PUBLIEKE INSPEKSIE 2011/12 KONSEP BEGROTING EN 2011/12 KONSEP GOP

Lede van die publiek word hiermee in terme van Hoofstuk 4 van die Plaaslike Regering: Munisipale Sisteem Wet, 2000 (Wet 32 van 2000) in kennis gestel dat die munisipaliteit die Geïntegreerde Ontwikkelingsplan vir die 2011/12 finansiële jaar hersien het. Die publiek word ook in terme van Hoofstuk 4 van die Plaaslike Regering: Munisipale Sisteem Wet, 2000 (Wet 32 van 2000) en Artikel 22 van die Munisipale Finansiële Bestuurswet, 2003 (Wet 56 van 2003) in kennis gestel dat die munisipaliteit 'n Konsep Begroting vir 2011/12 opgestel het. Die Konsep Begroting en die hersiene GOP het gedien voor die Raad op 31 Maart 2011. Die publiek word hiermee in kennis gestel dat die 2011/12 Konsep Begroting en hersiene 2011/12 GOP ter insae lê en word uitgenooi om kommentaar en insette te lewer op die dokumente.

Afskrifte van die dokumente is beskikbaar by die munisipale kantore geleë te Colesberg, Noupport en Norvalspont asook by die Colesberg, Noupport en Mongezi Juda biblioteke. Kommentaar en of insette moet die Munisipale Bestuurder bereik voor of op 22 April 2011 teen sluit van besigheid by die volgende adres: Die Munisipale Bestuurder, Umsobomvu Munisipaliteit, Privatsak X 6, Colesberg, 9795 of per hand by Umsobomvu Munisipale Kantore, 21 A Kerkstraat, Colesberg, 9795. Persone wie nie kan lees of skryf nie kan die Hulpdienste Afdeling van die Raad kontak om bygestaan te word met indiening van insette of kommentaar. Alle navrae rakende die Konsep Begroting moet gerig word aan die Finansiële Bestuurder by tel. 051-7530777 of per e-pos: [dionne@umsobomvumun.co.za](mailto:dionne@umsobomvumun.co.za). Alle navrae rakende die Konsep GOP moet gerig word aan die Bestuurder Gemeenskapontwikkeling by tel. 051-7530777 of per e-pos: [manne@umsobomvumun.co.za](mailto:manne@umsobomvumun.co.za)

Sluitingsdatum vir insette: 22 April 2011 om 16:30.

A.C. MPELA  
MUNICIPAL MANAGER /  
MUNISIPALE BESTURDER

Date / Datum: 1 April 2011  
Notice No. / Kennisgewing No. 13/2011

## Polisie op bedrog klag van R622 000

COLESBERG — Vier vroulike polisie-klerke verskyn môre (Vrydag) weer in die plaaslike landdroshof op klagtes van bedrog waarby R622 000 betrokke is. Die saak spruit uit reis-en-verblyf fondse wat oor 'n tydperk van drie jaar in kontant glo uit die kluis van die plaaslike polisie-kantoor verdwyn het. Die vierkante het verlede jaar reeds by verskeie geleenthede 'n draai in die hof gemaak, maar die saak teen hulle is weens bykomende speurwerk telkens weer uitgestel.

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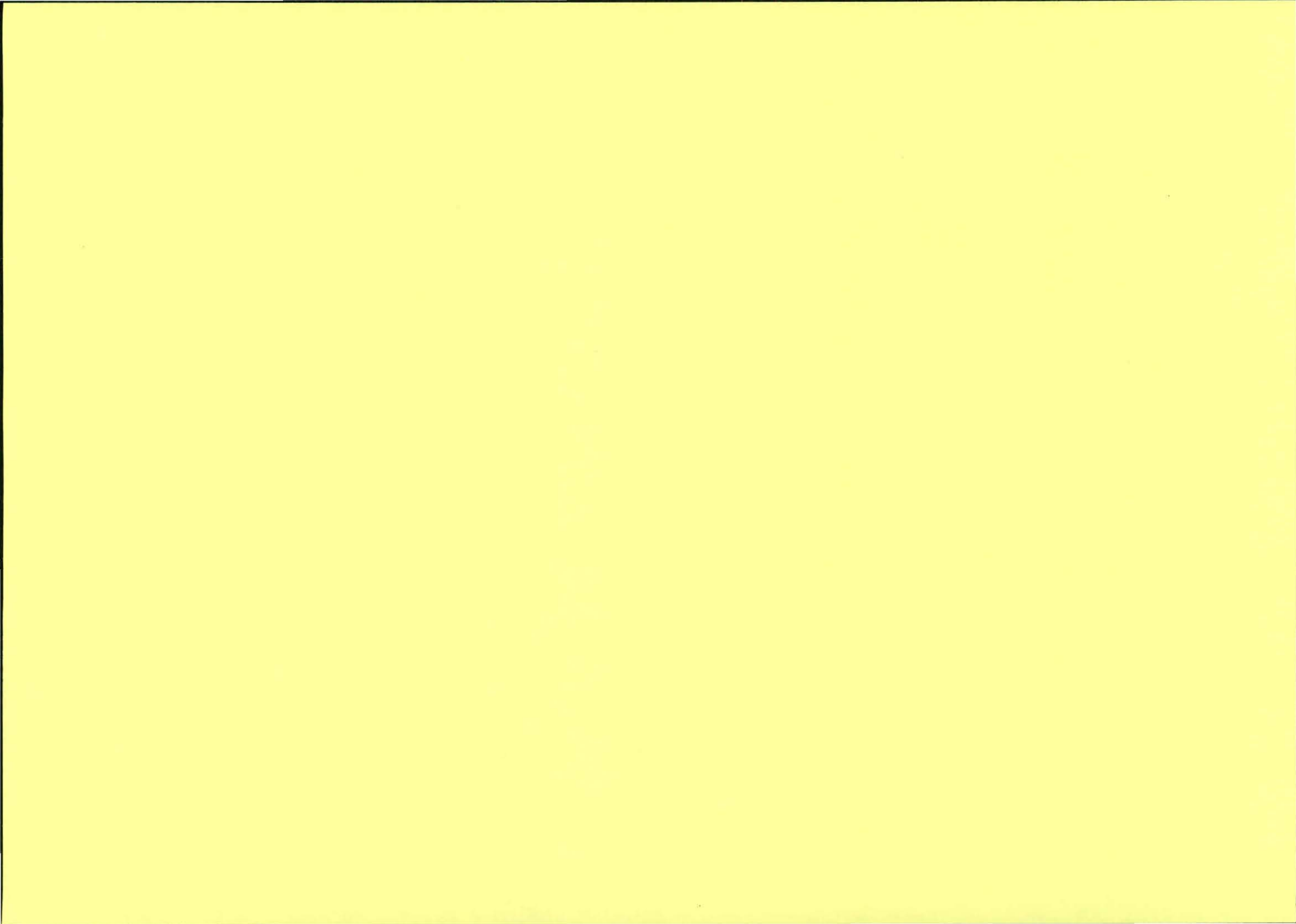
**CCA Environmental Contact Details:**  
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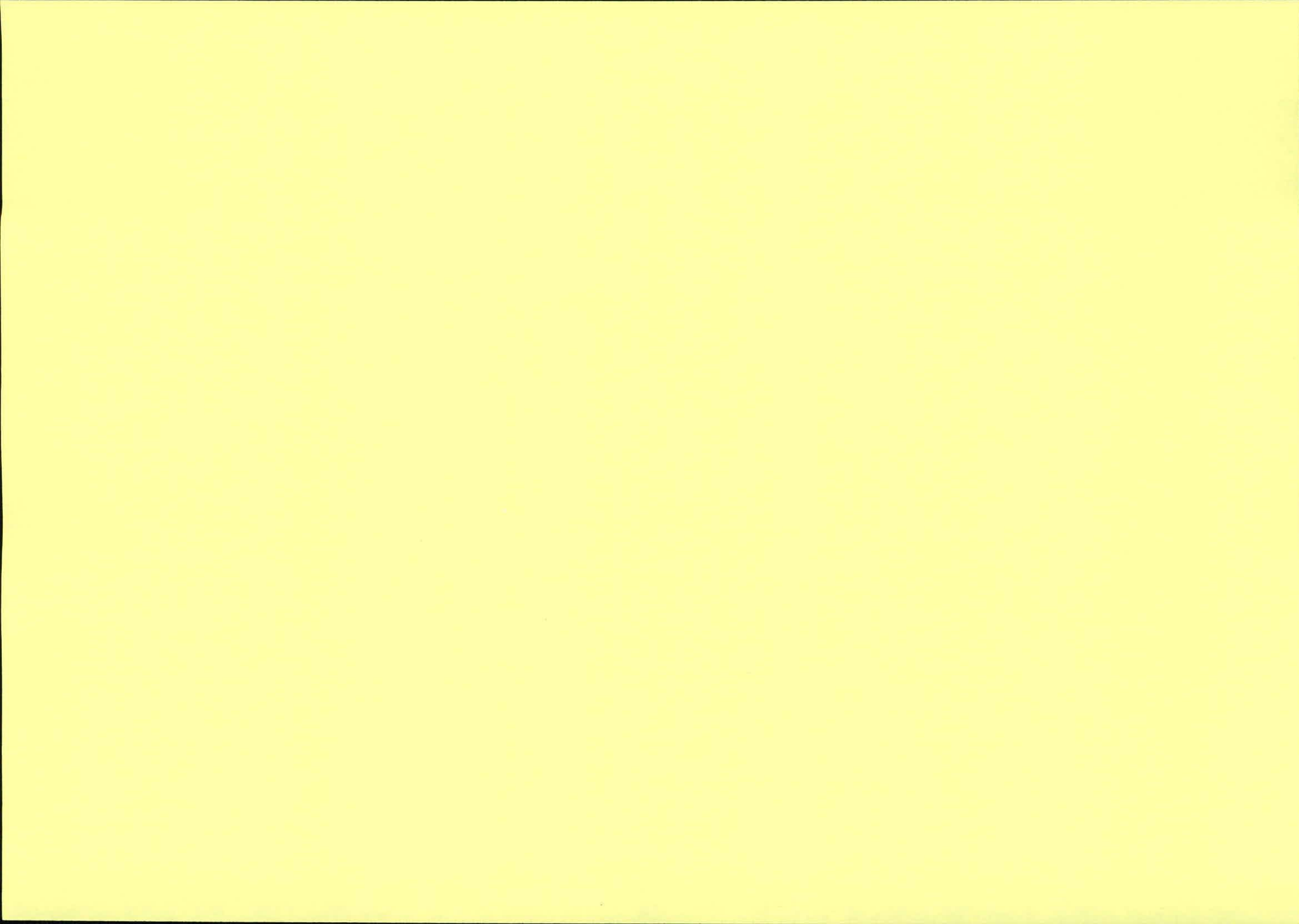
Date of Advertisement: 31 March 2011

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UWP  
ENP CONSULTING

Bergstan  
SOUTH AFRICA  
CONSULTING





## BORROW PIT SITE NOTICES



Borrow Pit 9 DR3080/5.0/0.2L



## KENNISGEWING : VOORGESTELDE LEENGROEFONTWIKKELING

**KENNIS GESKIED HIERMEE IN TERME VAN DIE WET OP DIE ONTWIKKELING VAN MINERALE- EN PETROLEUMHULPBRONNE (NO. 28 VAN 2002) VAN DIE SUID-AFRIKAANSE NASIONALE PADAGENTSAP (SANRAL) SE VOORSTEL OM 'N LEENGROEF OP ERF 1733, COLESBERG (PLAAS COLESBERGKOP) TE ONTWIKKEL.**

BELANGSTELLELENDE & BELANGHEBBENDE PARTYE WAT ADDISIONELE INLIGTING WIL VERSOEK OF KOMMENTAAR WIL INDIEN VIR INSLUITING IN DIE OMGEWINGSBESTUURS-PROGRAM MOET DIT **NIE LATER NIE AS 3 MEI 2011** DOEN BY DIE ONDERSTAANDE KONTAKBESONDERHEDE

**CCA Environmental Kontakbesonderhede:**  
Kontakpersoon: Eloise Costandius  
Posbus 10145, Caledonplein, KAAPSTAD, 7905  
Tel: (021) 461 1118 Faks: (021) 461 1120  
E-pos: [eloise@ccaenvironmental.co.za](mailto:eloise@ccaenvironmental.co.za)





Borrow Pit 11 N9\_7/90.1/0.9R



## KENNISGEWING : VOORGESTELDE LEENGROEFONTWIKKELING

**KENNIS GESKIED HIERMEE IN TERME VAN DIE WET OP DIE ONTWIKKELING VAN MINERALE- EN PETROLEUMHULPBRONNE (NO. 28 VAN 2002) VAN DIE SUID-AFRIKAANSE NASIONALE PADAGENTSAP (SANRAL) SE VOORSTEL OM 'N LEENGROEF OP ERF 1272, COLESBERG (PLAAS GRASSRIDGE) TE ONTWIKKEL.**

BELANGSTELLELENDE & BELANGHEBBENDE PARTYE WAT ADDISIONELE INLIGTING WIL VERSOEK OF KOMMENTAAR WIL INDIEN VIR INSLUITING IN DIE OMGEWINGSBESTUURS-PROGRAM MOET DIT **NIE LATER NIE AS 3 MEI 2011** DOEN BY DIE ONDERSTAANDE KONTAKBESONDERHEDE

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