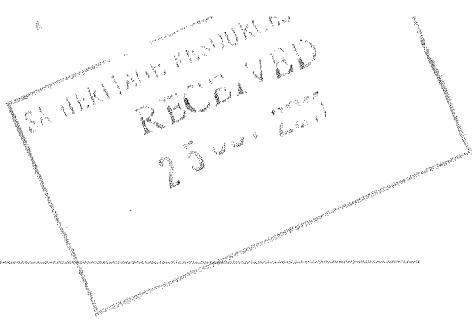


**ENVIRO LOGIC**

Environmental Impact Assessment, Planning and Management Services  
Omgewingsimpakbeoordeling, Beplanning- en Bestuursdienste



D: EA Ref. No: 12/9/11/L705/8

D: E&NC Ref. No: NC/BA/NAM/RIC/LEK2/2011

*Case ref: 1708*

21 October 2011

Dr. M. Galimberti  
APM Impact Assessor  
South African Heritage Resources Agency  
P. O. Box 4637  
CAPE TOWN  
8000

Dear Dr. Galimberti,

**APPLICATION: PROPOSED CONSTRUCTION OF SEWER OXIDATION PONDS  
AND ASSOCIATED INFRASTRUCTURE, LEKKERSING**

Attached please find a copy of the Background Information Document for your information.

The closing date for registration as I&AP and initial comment is Monday 21 November 2011.

Yours faithfully,

A handwritten signature in black ink, appearing to read "Gert Pretorius".

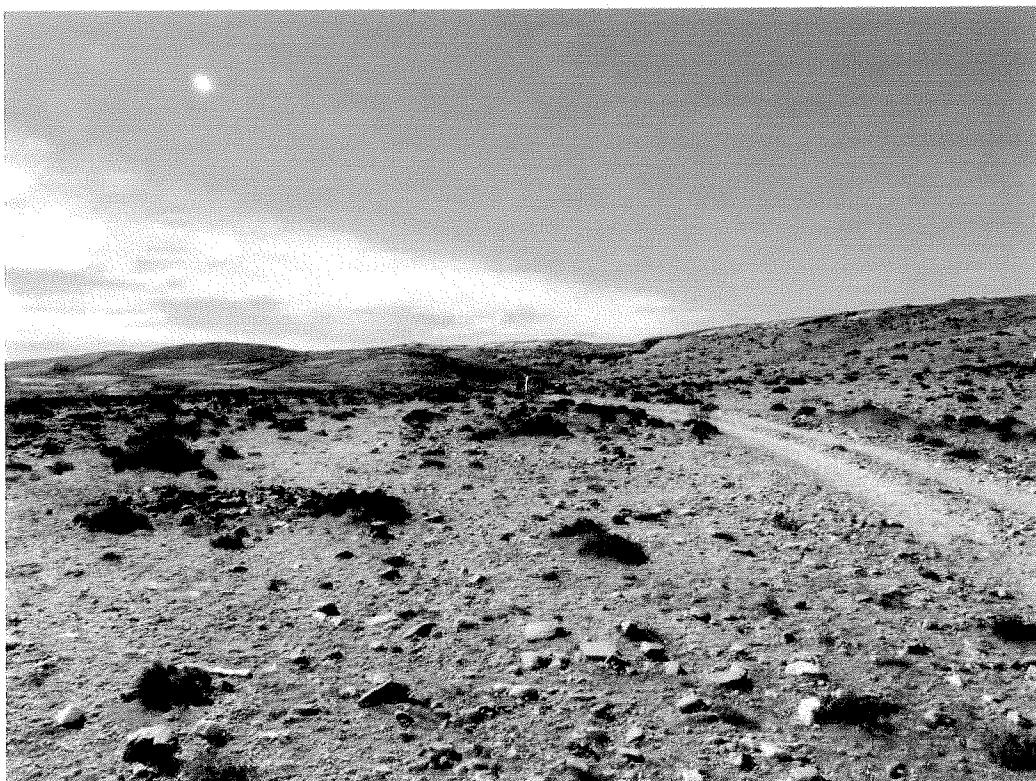
Gert Pretorius (Pr.Sci.Nat.)

**ENVIRONMENTAL IMPACT ASSESSMENT  
PUBLIC PARTICIPATION PROCESS: SCOPING & EIR  
BACKGROUND INFORMATION DOCUMENT**

**PROPOSED SEWER OXIDATION PONDS AND ASSOCIATED INFRASTRUCTURE,  
LEKKERSING**

Department of Environmental Affairs, Reference No: 12/9/11/L705/8  
Department of Environment and Nature Conservation Reference No: NC/BA/NAM/RIC/LEK2/2011

**October 2011**



**OMGEWINGSIMPAKBEOORDELING  
OPENBARE DEELNAMEPROSES: OMVANGBEPALING EN  
OMGEWINGSINVLOEDBEPALINGSPROSES  
AGTERGRONDINLIGTINGSDOKUMENT**

**VOORGESTELDE RIOOL OKSIDASIE DAMME EN VERWANTE INFRASTRUKTUUR,  
LEKKERSING**

Departement van Omgewingsake, Verwysings Nr: 12/9/11/L705/8  
Departement Omgewing en Natuurbewaring, Verwysings Nr: NC/BA/NAM/RIC/LEK2/2011

**Oktober 2011**

## **Background Information Document**

Notice is hereby given of a public participation process in terms of the Environmental Impact Assessment ("EIA") Regulations 2010 promulgated in terms of National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA").

### **1. Introduction**

Delivering proper services in urban areas is one of the key objectives identified in the 2009 Richtersveld Integrated Development Plan. The provision of sanitation that is safe for users as well as the environment is recognised as one of the cornerstones in the effort to produce efficient service delivery in small urban settings. Sound infrastructure forms the backbone for proper long term provision of basic sanitation services.

The proposed development entails the construction of new Oxidation- and Evaporation ponds which are HDPE lined to prevent leakage from the ponds, as well as the construction of a sewer pump station, the excavation of pipe trenches and installation of underground pipelines of ±1.2 km. Adequate fencing will be installed around the ponds for safety and security purposes

*ENVIRO LOGIC* has been appointed by the Richtersveld Municipality as independent Environmental Assessment Practitioners (EAP) to carry out the Environmental Impact Assessment process for the proposed construction of sewer oxidation ponds and associated infrastructure in terms of the *National Environmental Management Act (NEMA) 1998, (Act No. 107 of 1998)* as amended and the *National Environmental Management: Waste Act, 2008 (No. 59 of 2008)*. This is required as the proposed project triggers several of the listed activities identified in the *Environmental Impact Assessment Regulations 2010* as well as the *National Environmental Management: Waste Act, 2008 (No. 59 of 2008)* "List of Waste Management Activities that have, or are likely to have a detrimental effect on the environment." The process will investigate if there are any potential significant detrimental impacts to the receiving environment from the proposal. It will also provide an opportunity for the public and key role players to give input and participate in the process, as well as for specialist input on specific aspects.

An Application for Authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) as amended, and the Environmental Impact Assessment Regulations, 2010 was submitted to the Department of Environment and Nature Conservation, Northern Cape Province. Reference No.: NC/BA/NAM/RIC/LEK2/2011

An application for a new Waste Management Licence in terms of the *National Environmental Management: Waste Act, 2008 (No. 59 of 2008)* was submitted to the Department of Environmental Affairs. Reference No.:12/9/11/L705/8

### **2. Applicant & Consultants**

The Applicant for the proposed development is the **Richtersveld Municipality, Port Nolloth**.

The Consulting Engineers are **BVi Consulting Engineers (Springbok)**.

The Environmental Assessment Practitioner ("EAP") is **ENVIRO LOGIC**.

An Archaeological Impact Assessment will be conducted by the **Agency for Cultural Resource Management (ACRM)**.

A Geohydrological assessment will be carried out by **SRK Consulting**.

### **3. Legal Processes**

Before any development can occur, the applicant has to satisfy the requirements of several sets of legislation. The requirements of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), the National Environmental Management: Waste Act, 2008 (No. 59 of 2008), the National Water Act (No. 36 of 1998) and the National Heritage Resources Act, 1999 (Act No. 25 of 1999) will be satisfied simultaneously with this current EIA process.

- Installation of security/ safety fences around the ponds

## **5.2 Sewer Pipelines and Pump stations**

Construction of a sewer pump station, the excavation of pipe trenches and installation of underground pipelines of lengths ± 1.2 km

## **5.3 Access Roads**

Construction of a gravel access road with a width of 6 meters and ± 0.3 km long.

## **5.4 The activities on site will be as follows.**

Sewage waste of about 55 m<sup>3</sup>/day will be pumped daily to the oxidation ponds. A pump station with a sump will be constructed near the town where the sewage from the sewer network will converge to be pumped to the oxidation ponds. The inlet structures of the ponds is located at ponds 1 & 2 (anaerobic ponds). From ponds 1 & 2 the sewage will flow through to pond 3 (primary pond) and finally through to ponds 4 & 5 (evaporation ponds). (See Site Layout Plan: Appendix B).

## **6. Environmental considerations**

Various environmental considerations will be taken into account through the Scoping Process. A specialist Geohydrologist and Archaeologist will be appointed to access potential impacts within their specialty field.

## **7. Project Location**

The village of Lekkersing is situated in the Northern Cape and falls within the Richtersveld Municipal area.

## **8. Alternatives**

### **8.1 Alternative 1 (Preferred Alternative)**

The proposed sewer oxidation and evaporation ponds will be located more than 1000m west of the town of Lekkersing with underground pipelines and other associated infrastructure to be brought on towards and in the town itself.

Coordinates: 29° 0' 14.73" S  
17° 4' 47.56" E

(See Location Plan Alternative 1: Appendix A).

### **8.2 Alternative 2**

An alternative site for the construction of the sewage oxidation ponds and associated infrastructure has been identified about 3,2 km south of the Alternative 1 site.

Coordinates: 29° 1' 45.75" S  
17° 4' 46.74" E

(See Location Plan Alternative 2: Appendix A).

### **8.3 "No-Go" Alternative**

The "No-Go" Alternative although always considered, will only be recommended if severe issues cause the project to become problematic.

Any alternatives put forward through written comment by Interested and Affected Parties will be considered.

## **9. Registration**

**ENVIRO LOGIC** has invited registration and comments of I&AP's through written means by advertisements placed in "Die Plattelander" and the "NAMAKWA Weekblad / Weekly" of 21 October 2011. This Background Information Document will be made available to Interested and

## **Agtergrondinligtingsdokument**

Kennis word hiermee gegee van 'n openbare deelname proses ingevolge die Omgewingsimpakbepalingsregulasies 2010 uitgevaardig in terme van artikel 24 (5) van die Wet op Nasionale Omgewingsbestuur, 2008 (Wet Nr. 107 van 1998).

### **1. Inleiding**

Voldoende dienslewering vir dorpe word as 'n belangrike kwessie identifiseer in die 2009 Richtersveld Geintigreerde Ontwikkelingsplan. Die voorsiening van sanitasie wat veilig is vir gebruikers sowel as vir die omgewing word beklemtoon as een van die hoekstene in die poging om doeltreffende dienslewering te bewerkstellig. Geskikte infrastruktuur vorm die ruggraat vir die voldoende langtermyn verskaffing van basiese sanitasie dienste.

Die voorgestelde projek behels die konstruksie van riool oksidasie- en verdampingsdamme wat belyn is met "HDPE" om lekasse vanaf dié damme te voorkom, asook die konstruksie van 'n rioolpompstasie en die installering van 'n ondergrondse riool-pyplyn van ± 1.2km. Draad omheinings sal rondom die riool fasiliteit aangebring word vir sekuriteits en veiligheids doeleinades.

*ENVIRO LOGIC* is deur die Munisipaliteit Richterveld aangestel as die onafhanklike omgewingsassesserings praktisyens om die Omgewingsinvloedbepalings proses te onderneem vir die voorgestelde projek in terme van die Wet op Nasionale Omgewingsbestuur (NEMA) 1998, (Wet Nr. 107 van 1998) soos gewysig, asook die Wet op Nasionale Omgewingsbestuur: Wet op Afval, 2008 (Wet Nr. 59 van 2008). Dit word vereis omdat die voorgestelde projek verskeie gelyste aktiwiteite aktiveer wat geïdentifiseer is in die Omgewingsinvloedbepalings Regulasies van 2010, asook in die Wet op Nasionale Omgewingsbestuur: Wet op Afval, 2008 (Wet Nr. 59 van 2008), "Lys van Afval Bestuursaktiwiteite wat, of wat waarskynlik, 'n nadelige uitwerking op die omgewing kan hê." Die proses sal bepaal of die voorgestelde projek enige betekenisvolle nadelige impak op die omliggende omgewing mag hê. Dit sal ook 'n geleentheid vir die publiek en sleutel rolspelers bied om insette te lewer en deel te neem aan die proses, sowel as vir spesialis insette oor spesifieke aspekte.

'n Aansoek om Omgewingsmagtiging in terme van die Wet op Nasionale Omgewingsbestuur (NEMA) 1998, (Wet Nr. 107 van 1998) soos gewysig, asook die Omgewingsinvloedbeoordeling Regulasies van 2010 is by die Departement van Omgewing en Natuurbewaring (Noord-Kaap), ingedien. Verwysingsnommer: NC/BA/NAM/RIC/LEK2/2011.

'n Aansoek vir 'n Afvalbestuurslisensie in terme van die Wet op Nasionale Omgewingsbestuur: Wet op Afval, 2008 (Wet Nr. 59 van 2008) is by die Departement van Omgewingsake ("D:EA") ingedien. Verwysingsnommer: 12/9/11/L705/8.

### **2. Aansoeker & Konsultante**

Die Aansoeker vir die voorgestelde ontwikkeling is die **Richtersveld Munisipaliteit, Port Nolloth**.

Die Raadgewende Ingenieurs is **BVi Raadgewende Ingenieurs (Springbok)**.

Die Omgewingsbeoordelingspraktisyen ("OBP") is **Enviro Logic**.

'n Argeologiese ondersoek sal deur die **"Agency for Cultural Resource Management (ACRM)"** gedoen word.

'n Geohidrologiese ondersoek sal deur **SRK Raadgewend** gedoen word.

### **3. Wetlike Prosesse**

Voordat enige ontwikkeling aanvang kan neem, moet daar deur die Aansoeker aan verskeie wetlike vereistes voldoen word. Die vereistes van die Wet op Nasionale Omgewingsbestuur ("NEMA") 1998, (Wet Nr. 107 van 1998) soos gewysig; die Wet op Nasionale Omgewingsbestuur, Wet op Afval 2008 (Wet Nr. 59 van 2008); die Nasionale Waterwet, 1998 (Wet Nr. 36 van 1998) en die Nasionale Erfenishulpbronnewet, 1999 (Wet Nr. 25 van 1999) sal nagekom word tydens die huidige Omgewingsinvloedbepalingsproses.

## **5. Projek Voorstel:**

### **5.1 Oksidasie damme:**

- Konstruksie van nuwe riool oksidasiedamme, met verdampingsdamme.
- Die konstruksie van die nuwe in-en uitlaat strukture om water van een dam na 'n ander te lei.
- Installering van "HDPE" voering om lekkasie van die damme te voorkom.
- Oprig van sekuriteits / veiligheids omheinings by die nuwe riooldamme.

### **5.2 Pyplyn en pompstatsie:**

- Konstruksie van 'n rioolpompstasie, die grawe van slote en die installering van 'n ondergrondse rioolpyplyn van ± 1.2 km.

### **5.3 Die aktiwiteite op die terrein sal soos volg wees.**

Riool afval van ongeveer 55 m<sup>3</sup> / dag sal daagliks na die riool oksidasie damme gepomp word. 'n Pompstasie met 'n rioolvilput sal gebou word naby die dorp waar die riool vanaf die rioolnetwerk sal konvergeer en gepomp word na die oksidasie damme. Die inlaat strukture is geleë by damme 1 & 2 (anaerobiese damme). Vanaf damme 1 & 2 sal die riool vloei deur dam 3 (primêre dam) en uiteindelik tot in damme 4 & 5 (verdampings damme). (Sien **Terrein Uitlegplan: Bylae B**)

## **6.Omgewing oorwegings**

Verskeie omgewings oorwegings sal in ag geneem word tydens die Omvangbepalingsproses. 'n Argeoloog en Geohidroloog sal aangestel word om die potensiële impakte in hulle spesialiteitsveld te asseseer.

## **7. Projek Ligging**

Die dorp Lekkersing is in die Noord-Kaap geleë en val binne die Richtersveld Munisipale gebied.

## **8. Alternatiewe**

### **8.1 Alternatief 1 (Voorkeur Alternatief)**

Die voorgestelde riool oksidasie en verdampings damme sal meer as 1000m wes van die dorp Lekkersing geleë wees met pyleidings en ander verwante infrastruktuur na en in die dorp self.

Koördinate: 29° 0' 14.73" S

17° 4' 47.56" O

(Sien Liggingsplan Alternatief 1: Bylae A)

### **8.2 Alternatief 2**

'n Alternatiewe terrein vir die oprigting van die riool oksidasie damme en verwante infrastruktuur is ongeveer 350 m noord oos van die huidige terrein geïdentifiseer.

Koördinate: 29° 1' 45.75" S

17° 4' 46.74" E

(Sien Liggingsplan Alternatief 2: Bylae A)

### **8.3 "Status quo" (bestaande situasie) Alternatief**

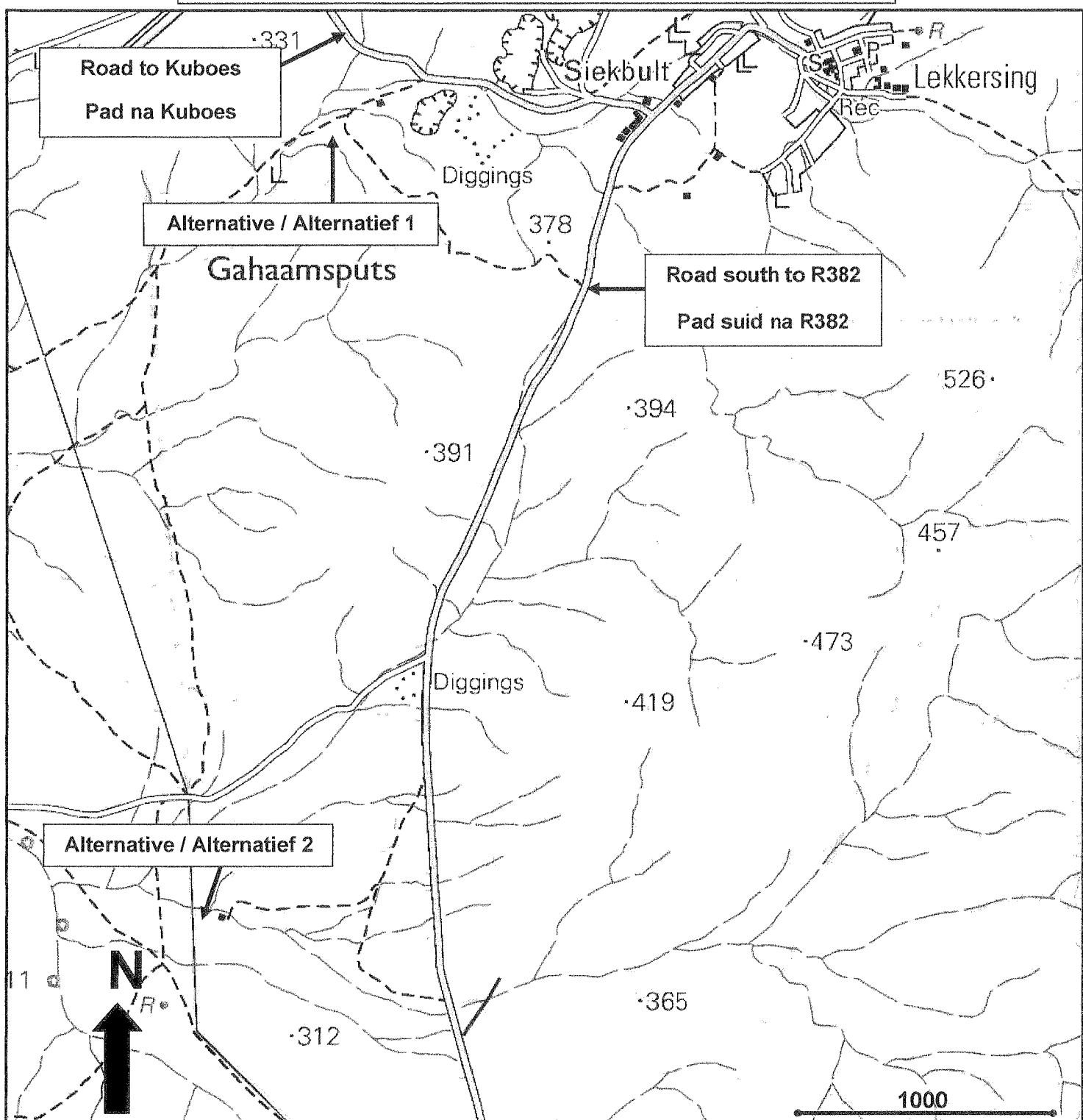
Die "Status quo" (bestaande situasie) alternatief hoewel dit altyd oorweeg word, sal slegs aanbeveel word as ernstige probleme veroorsaak dat die projek te problematies word.

Enige alternatiewe na vore gebring deur middel van skriftelike kommentaar deur Belanghebbende en/of Geaffekteerde Partye sal oorweeg word.

## **9. Registrasie**

Belanghebbende en Geaffekteerde Partye is deur middel van kennisgewings in die in "Die Plattelander" en die "NAMAKWA Weekblad / Weekly van 21 Oktober 2011 ENVIRO LOGIC uitgenooi om te regisreer en om skriftelik kommentaar te lewer op die voorgestelde ontwikkeling.

Lekkersing: Proposed sewage site / Voorgestelde riool terrein



Locality Plan / Liggingsplan

Scale 1:50 000

Alternative/Alternatief 1: 29° 0' 14.73" S / 17° 4' 47.56" E/O

Alternative/Alternatief 2: 29° 1' 45.75" S / 17° 4' 46.74" E/O

## COMMENT SHEET (BID)

### PROPOSED SEWER OXIDATION PONDS AND ASSOCIATED INFRASTRUCTURE LEKKERSING

Department of Environmental Affairs Ref. No: 12/9/11/L705/8

Department of Environment and Nature Conservation Ref. No: NC/BA/NAM/RIC/LEK2/2011

Please complete the following details and Fax to (021) 919 4048 or mail to **ENVIRO LOGIC** (Lekkersing), P.O.Box 3731, Tyger Valley, 7536 or E-mail: gpec12@telkomsa.net, to reach us before or on **Monday 21 November 2011**.

**Name:**.....

**Organisation:**.....

**Address:**.....

.....**Postcode:**.....

**Phone number:** .....

**Cellphone number:** .....

**Fax number:** .....

**E-mail:** .....

**Date:** .....

**Should your details change during this process it is your responsibility to send us updated information.**

How would you prefer to receive future project information?

Please tick the appropriate box: Post  Fax  E-mail

Do you have any direct interest in the approval or refusal of the proposed project by the environmental authorities? Please tick the appropriate box/es below.

#### BUSINESS/ FINANCIAL

Competing business Yes  No

Neighbouring business Yes  No

Potential employment opportunities Yes  No

Service provision Yes  No

#### PERSONAL

Neighbour to proposed project site Yes  No

**OTHER** (please explain) ..... Yes  No

**Signature:**.....**Date:** .....

## KOMMENTAARBLAD (AID)

### VOORGESTELDE RIOOL OKSIDASIE DAMME EN VERWANTE INFRASTRUKTUUR LEKKERSING

Departement van Omgewingsake Verw. Nr: 12/9/11/L705/8

Departement van Omgewing en Natuurbewaring Verw. Nr: NC/BA/NAM/RIC/LEK2/2011

Voltooï asseblief en faks aan 021- 919 4048 óf pos dit aan **ENVIRO LOGIC** (Lekkersing),  
Posbus 3731, Tygervallei, 7536 óf E-pos: [gpec12@telkomsa.net](mailto:gpec12@telkomsa.net), om ons te bereik voor of op  
**Maandag 21 November 2011.**

**Naam:**.....

**Organisasie:**.....

**Posadres:**.....

.....**Poskode:** .....

**Telefoonnummer:** .....

**Selfoonnombmer:** .....

**Faksnommer:** .....

**E-pos:** .....

**Sou u kontak besonderhede gedurende die Omgewingsimpakproses verander, is dit u verantwoordelikheid om die opgedateerde inligting aan ENVIRO LOGIC te voorsien.**

Hoe sal u verkieë om inligting oor die projek in die toekoms te ontvang?

Merk asseblief die toepaslike blok: Pos  Faks  E-pos

Het u enige direkte belang in die goedkeuring of afkeuring van die voorgestelde projek deur die betrokke omgewingsowerhede? Merk asseblief die toepaslike blok hieronder.

#### BESIGHEID/ FINANSIEËL

Kompeterende Besigheid Ja  Nee

Aangrensende besigheid Ja  Nee

Potentiële werkgeleenthede Ja  Nee

Dienste voorsiening Ja  Nee

#### PERSOONLIK

Aangrensend tot projek terrein Ja  Nee

**ANDER** (verduidelik asseblief) ..... Ja  Nee

**HANDEKENING:**..... **DATUM:**.....