

ANNEXURE D

**BROCHURE OF BECON BIO FILTER
PACKAGE PLANT**

PROJECT ENGINEERS IN WATER & WASTEWATER

Our Ref: 5582

19 May 15

VIP Consulting Engineers
88A Pony Street
Tigervallei
Pretoria

Attention: Henk Viljoen

Dear Sir,

Q4 CITY PACKAGE PLANT TREATMENT ENQUIRY

Becon Watertech has been manufacturing, assembling, supplying, installing, commissioning, operating and maintaining this process for over 37 years on a Design and Supply turnkey basis and as an Own Equipment Manufacturer (OEM).

During this period, more than 1,800 units have been installed in Africa and across the Indian Ocean Islands to local & national government departments (including schools, hospitals, small towns and developments, prisons, border posts, shopping malls, police stations etc); private estates; hotels and holiday developments; private sector industrial locations; power stations and mining sites and villages.

Our reference, company profile and other supporting documentation will be included in the electronic submission requested by you.

1. Process Description

The Becon Watertech configuration is based on the Trickle Filter Process and deploys the rotating biological contactor (RBC) derivative. The Becon Watertech process includes the following process stages:

- Primary Phase Separation via septic tanks.
The septic tank allows for the gross removal of organic material by settlement and anaerobic oxidation. In instances where the flow is deemed low, as is the case with the Hills Estate application, no inlet screen is deemed necessary, as screen able material will be collected in the septic tank. The septic tank makes provision for the accumulation of this material and has design features incorporated to ensure that this activity does not cause unnecessary blockages across the tank.

All septic tanks do require servicing and desludging at some stage since the rate of sludge accumulation exceeds the slow growth rate of the anaerobic bacteria and hence their capacity to break down organic material.

- The settled sewage from the septic tank is then discharged under gravity to the RBC stage where further organic reduction and ammonia nitrification is achieved under aerobic conditions. The aerobic conditions are achieved by the rotation of the discs, on which the micro-organisms are attached and growing, at a low speed of approximately 3 to 4 RPM. The Becon Watertech discs are manufactured from a polyurethane base and are 2m diameter discs assembled onto a 60mm steel shaft. The discs are high density and impermeable, and tend to float in the RBC basin, reducing the load imposed on the shaft. End bearings are provided to secure the unit to the RBC basin. The energy requirement per rotor is 0.75kW and each rotor contains around 85 discs, providing adequate surface area for the corresponding organic load
- A secondary settling tank, or humus tank, is required for the collection and removal of surplus bacteria that is removed from the discs by the rotation action of the disc in and out of the water. The Becon Watertech design utilises the standard Dortmund type tank for this application. The collected humus is returned to the septic tank for anaerobic digestion, eliminating the need for sludge drying beds on site. A small desludge pump of approximately 0.35kW is provided for this purpose.
- Since pathogenic bacteria are not removed by the micro-organism population generated in any sewage treatment process by any adequate degree, a tertiary disinfection stage is typically deployed to eliminate these potentially disease forming bacteria. Provision has been made for disinfection (sodium hypochlorite dosage recommended). We do not recommend Ozone disinfection as it is expensive, and an additional mechanical item that requires maintenance and operation is difficult to control

2. Scope of Work

We confirm that the maximum average daily hydraulic load will be no more than 16 m³/day and that the sewage will be typically domestic in nature. Our corresponding raw sewage strength utilised in determining the raw sewage organic load is 550mg/l as Chemical Oxygen Demand (COD), resulting in a raw sewage load of 8.8 kgCOD/day. The Becon Model 75 T is design to process 10 kgCOD/Day

We propose the following process assembly to ensure that a robust, sustainable and accessible system is provided to ensure effective and efficient performance, operation and maintenance:

- i. A primary phase septic tank constructed from reinforced concrete and with a minimum volume of 15m³. We have excluded this from our initial scope, but can offer construction drawings that can be made available to local contractors for the construction thereof.

- ii. Included in the Becon Scope of Supply is the provision of a Becon Model 75 Tank Unit. This unit comprises our standard assembled Becon Bio-Filter rotor comprising a minimum number of 85 plastic polyurethane moulded discs of 2m diameter, fitted and compressed onto a 60mm stub ended steel shaft with our support assembly design. The Becon Bio-Filter rotor is fitted into a copon epoxy coated steel tank and is fitted with self aligning sealed type plumber block bearings at each end. A 380V three phase direct drive combined gear and motor unit is provided to one end to ensure adequate rotation of the rotor. A protective canopy is provided for the Becon Bio-Filter rotor unit.
- iii. Attached to and included in the construction of the Becon Bio-Filter Model 75 Tank Unit is the secondary humus settling tank, which is continuous with the steel rotor basin, constructed as one unit. The secondary humus settling tank internal piping and mechanical equipment is also pre-assembled into the steel settling tank section.
- iv. A weather proof control panel for the gearbox drive and humus return pump is included in the Becon Scope of Supply.

Our cost for the delivery of the Scope of Services as presented is **ZAR 389,000.00**

Excluded from the above installation costs are:

- a) Any excavation and backfill/making good across any paved area, access road or pedestrian walkway.
- b) Provision of a potable water point on the existing site.
- c) Provision of 380V three phase main power supply cable to our electrical control panel.
- d) Lift Pump Station

In addition we offer, and strongly advise the favourable consideration of, a routine maintenance, servicing and assessment service that is provided through our fully trained and equipped local agent, at a cost of **ZAR 1,950.00 per month excl of any applicable taxes**. This service includes an overall assessment of the works condition, the elctro-mechanical component functionality, mechanical equipment servicing, collection of a septic tank and final effluent sample for analysis the interpretation of the analytical data and the presentation of the monthly site inspection, servicing and analytical data in a report format. The above allows for one site visit per month. No equipment repair or replacement is included in the above, but will be offered on a cost plus 10% basis. General engineering consumables inclusive of grease and gearbox oil is included.

The above quoted costs are valid for two weeks, after which they are subject to confirmation on receipt of an order.

Delivery of the Becon Model 75 Tank Unit is 4 to 6 weeks, ex works, on receipt of a valid order.

Payment terms for the supply of the Becon Model 75 Tank Unit is 60% on order, 30% on completion ex works and the balance on final commissioning and handover. Payment terms are strictly 30 days from date of invoice.

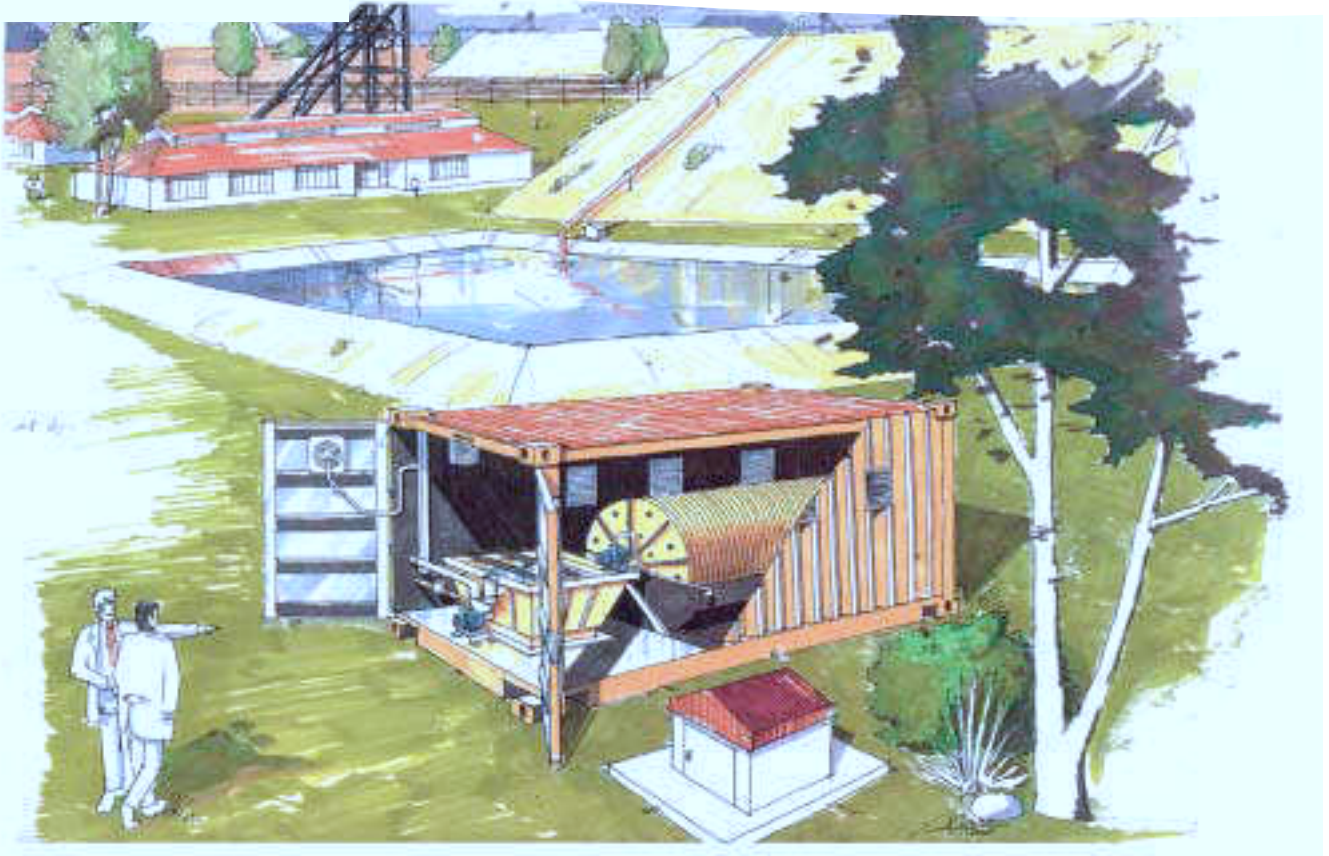
Becon Watertech retains ownership of all equipment until full payment is received.

We trust that we have provided you with adequate information for this potential project. If you require any additional information, please do not hesitate to contact us

Yours faithfully
W Olivier
for Becon Watertech



Becon Bio-Tainer Prefabricated Containerised RBC Wastewater Treatment Plants



The Becon Bio-Filter Container Module comprises of a Bio-Filter Model 150 person RBC unit built into a standard 6m shipping container, complete with own settlement tank and accessories. These plants can become operational immediately on arrival on site, after connecting pipework and power to the units.



Becon Bio-Tainer Exterior



Becon Bio-Tainer Interior

P.O. BOX 912-504
SILVERTON 0127
PRETORIA, SOUTH AFRICA

TEL: (012) 804-1128
FAX: (012) 804-1159
E-MAIL: becwater@icon.co.za

P.O. BOX 2246
CLARKSON WA 6030
PERTH, WESTERN AUSTRALIA

TEL: (08) 9407-8444
FAX: (08) 9407-8444
E-MAIL: becwaterap@bigpond.com

Becon Bio-Tainer RBC plants are compact economical self contained portable packaged sewage and industrial effluent plant units suitable for treatment of flows from Construction Camps, Mines, and Rural Schools, Villages, Shopping Centres, Hotels, and Hospitals.

The units can be easily transported worldwide by road, rail or sea freight as they are constructed into standard ISO shipping containers. The units are fully portable and ideal for temporary sites and can be installed, and removed from any location within a few hours, due to their standard self contained design.

The Becon Bio-Tainer plant accommodates the well known and reliable Becon Bio-Filter Rotating Biological Contactor (RBC) unit of which some 1,500 units have been manufactured and installed since 1975.

The operational process of these Bio-Tainer plants is simple and comprises of a primary combined settlement tank and anaerobic digester, a secondary aerobic process comprising of the Becon Bio-Filter RBC fixed film reactor unit, followed by a humus settlement tank with disinfection section.

The RBC process is simplistic and self compensating to load fluctuations, and requires a minimum of attention. Features of the Becon RBC units are low power demand, noise free operation, low operator skill requirements and low maintenance costs.

Standard Becon Bio-Tainer units are designed to handle a flow from 15 Kl/day (75 persons) upwards. For large flow requirements, multiple units can be installed to operate in parallel.

Bio-Tainer Units with Steel Settlement Tanks



Becon Watertech

Established 1975

LOCAL AGENT



Becon Bio-Filter Rotating Biological Contactor Sewage Purification Plants for Smaller Communities



Typical Bio-Filter Model
300 Person RBC Plant

Becon Bio-Filter RBC plants are most economical for the handling of sewage and effluents from Schools, Hotels, Resorts, Mines and Smaller Villages where flows from 50 persons up to 2500 persons are relevant. The RBC process is also suitable for treating bio-degradable industrial wastewater.

Since 1975 some 1500 Becon Bio-Filter RBC plants have been manufactured and supplied by Becon Watertech.

The operational process of the plants is simple and comprises of a primary combined settlement tank and anaerobic digester, a secondary aerobic process comprising of the Becon Bio-Filter RBC fixed film reactor units, followed by a humus settlement tank and a disinfection tank. Reactor tanks are normally RC structures, but prefabricated skid mounted or containerised units are available for small plants.



Becon Mini RBC Packaged Plant



Becon Standard RBC Plant

P.O. BOX 912-504
SILVERTON 0127
PRETORIA, SOUTH AFRICA

TEL: (012) 804-1128
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PERTH, WESTERN AUSTRALIA

TEL: (08) 9407-8444
FAX: (08) 9407-8444
E-MAIL: becwaterap@bigpond.com

The RBC process is simplistic and requires a minimum of attention. The units can be installed near to buildings and require a minimum space, are clean and aesthetically pleasing, and are designed to produce an effluent to Specified Standards.

Features of the RBC units are low power demand, noise free operation, low operator skill requirements and low maintenance costs.

As the Becon Bio-Filter RBC units are modular, plant extensions are simple. A standard range of plants are available between 10kl/day (50 persons) and 500kl/day (2500 persons) flow capacity.

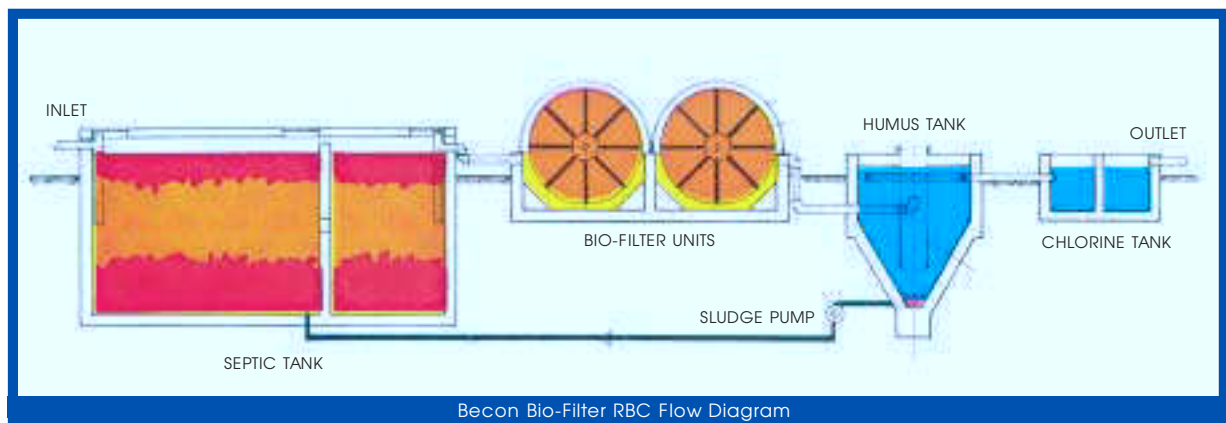
Mini packaged plants are also available for flows from 50 to 300 persons.

The Bio-Filter RBC disc filter units manufactured by Becon Watertech comprise of heavy duty shafts and polyurethane moulded discs, which are assembled to form a high quality heavy duty RBC fixed film reactor unit. The RBC units rotate at 4 rpm and are powered by direct shaft mounted heavy duty geared motors to ensure a long and maintenance free operation of the units.

Becon Watertech offers:

- a) Comprehensive design and advisory service on sewage treatment problems.
- b) Turnkey projects undertaken from initial investigation stage through civil construction stage to commissioning of complete plants.

STANDARD BIO-FILTER PLANTS								
Model No	75	150	300	450	600	750	1000	1500
No of persons	75	150	300	450	600	750	1000	1500
No of rotors	1 x 2m	1 x 2m	2 x 2m	3 x 2m	4 x 2m	5 x 2m	6 x 2m	8 x 2m
Disc area (m ²)	375	750	1500	2250	3000	3750	4500	7500
KW rating of plant (kW)	0,5	0,75	1,5	2,0	3,0	3,75	4,5	6
BOD loading (kg)	4	8	16	24	32	44	54	90
Hydraulic loading (m ³ /day)	15	30	60	90	120	160	200	300
Septic tank volume (m ³)	15	30	60	90	120	160	200	300
Humus tank dia (m)	1,5 x 1,5	1,8 x 1,8	2,500	3,500	3,750	4,000	5,000	6,000
Chlorine tank volume (m ³)	0,60	1,25	2,50	3,75	5,00	6,50	8,00	10,00
Area required for plant (m ²)	150	150	200	400	600	700	800	1200



Becon Watertech
Established 1975

LOCAL AGENT

ANNEXURE E

THE WASTE GROUP PERMITS

RUSTENBURG LOCAL MUNICIPALITY

DIRECTORATE: COMMUNITY DEVELOPMENT
WASTE MANAGEMENT



P O Box 16, Rustenburg, 0300, North West Province, South Africa
Tel: (014) 590 3101 Fax: (014) 590 3107 Email: wse@rustenburg.gov.za

The Waste Group

Attention : Kobus Combrink

LETTER OF PERMISSION TO TRANSPORT WASTE

Rustenburg Municipality (Waste Management) is granting your institution a permission to transport waste within the Rustenburg Municipality jurisdiction.

Waste types that will be transported: General waste, Industrial waste, Hazardous waste, and Recycling.

The transportation of waste should be done in compliance with the Municipal by-laws (Waste by-law).

This memo is valid till March 2015.

Regards

HEAD: WASTE MANAGEMENT

/ mm

2014-10-27



Reference no: TWP 14/0015

Environmental Management Services Department Waste Management Division

WASTE TRANSPORTATION PERMIT

This is to certify that:
THE WASTE GROUP (PTY) LTD

Has been issued with a Permit for removal and transportation of the below mentioned waste within the City of Tshwane Jurisdiction:

- ❖ GENERAL WASTE
- ❖ HAZARDOUS WASTE
- ❖ MEDICAL WASTE

Your company is hereby granted a waste transportation permit in terms of the Solid Waste By – Laws for the City of Tshwane Metropolitan Municipality 2005 for a one (1) year period where after a new permit must be obtained.

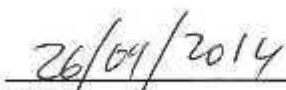
The permit is subject to the conditions as stipulated in the waste permit letter.

Date of Expiry: 30 September 2015

Although this permit is issued in terms of the City of Tshwane Solid Waste By-laws, this permit does not negate the holder from complying with other applicable statutory requirements. Including *inter alia* the requirements of the National Environmental Management: Waste Act, 2008 (Act No.59 of 2008).


Phatuwani Tshivhase

ACTING EXECUTIVE DIRECTOR: WASTE MANAGEMENT


Date



Environmental Management Services Department Waste Management Division

Waste Management | 1st Floor | Nr 11 Francis Baard Street | Pretoria | 0001
PO Box 1454 | Pretoria | 0001
Tel: 012 358 2263 | Tel: 012 358 4755 | Fax: 086 694 2415
Email: AngeliqueM@tshwane.gov.za | www.tshwane.gov.za | www.facebook.com/City of Tshwane

My ref: TWP14/0015
Your ref:
Contact person: Louis Makhubele
Section/Unit: Waste Management Operations

Tel: 012 358 5616
Fax: 086 694 2415
Email: LouisMa@tshwane.gov.za

THE WASTE GROUP (PTY) LTD

PERMIT FOR REMOVAL AND TRANSPORTATION OF WASTE IN THE CITY OF TSHWANE JURISDICTION

The permit is subject to the following conditions:

1. The permit is for collecting and transporting of general, hazardous and medical waste to permitted waste disposal facilities.
2. This permit is applicable to the client information provided in the permit application document. The permit holder must advise the Municipality as soon as possible of any change in the information provided to the Municipality in the application for the permit.
3. Only waste that is stipulated on the issued permit may be transported.
4. It should be noted that any person involved in any way in recycling must comply with the requirements of the National Environmental Management: Waste Act No. 58 of 2008 (NEMA: WA) and the Environmental Impact Assessment (EIA) regulations made under Section 24(5) of the National Environmental Management Act 2008 (NEMA) No. 107 of 1998.
5. The permit holder must ensure that the vehicle/s to which the permit applies does not spill or leak waste materials at any time as stipulated in the permit application.
6. The vehicle, trailers and containers should comply with the provisions of the National Road Traffic Act, 1996.
7. The permit is subject to all applicable National, Provincial, and Local legislation as well as directives of the City of Tshwane.
8. You may be required quarterly to inform this Department of the volumes and types of waste recycled. This information will be used for statistics in the Tshwane region as required by the Department of Environmental Affairs (DEA).

Failure to comply with these requirements could result in the permit being withdrawn.

Kind regards,

Fhatuwani Tshivhase
ACTING EXECUTIVE DIRECTOR: WASTE MANAGEMENT

PROJECT ENGINEERS IN WATER & WASTEWATER

Our ref: 5564-let01-gb

02 March 2015

VIP Consulting Engineers
PO Box 11211
Silver Lakes
0054

Attention: Mr Henk Viljoen

Dear Sir,

SEWAGE TREATMENT PROJECT – PROPOSED Q4 PETROL SITE

We thank you for your interest shown in our technologies and refer to our recent discussion on the above potential project.

We understand from the electronic correspondence received that a sewage treatment facility is required for the above-mentioned development, located on the Rustenburg to Pretoria highway.

The required Average Daily Flow is 29m³/day and is used for the basis of selecting any sewage treatment process and capacity. In addition, the peak flow needs to be considered to ensure that the selected and installed process can receive this peak flow adequately during peak flow periods.

We consider a peak factor of 2.0 for our standard domestic sewage design and applications and is catered for in our standard designs and project implementation. However, when peak flows may be exaggerated due to operating conditions on site, it is typical to provide a suitably sized flow-balancing tank, of which we have provided in the past. Alternatively, the size of the hydraulic load sensitive septic tank and secondary settling tank, in our process layout, can be increased to accommodate these peak flow periods.

Our systems are typically based on a domestic raw sewage strength of between 500 and 600 mg/l of Chemical Oxygen Demand (COD), or an equivalent BOD concentration of approximately 250 to 300mg/l. In addition, and especially where centralised kitchens or fast food outlets are discharging into the sewer, the installation of a suitable fat trap is strongly recommended to remove excess fats, oils and grease that is usually generated on these sites. The domestic raw sewage inflow should not have a fats, oils and grease concentration in excess of 10mg/l.

Our process incorporates a primary phase separation stage, in the form of a septic tank, followed by the Becon Bio-Filter rotating discs, secondary humus settling tank and tertiary disinfection and chlorine contact tank.

Raw sludge is allowed to accumulate in the septic tank where it settles and is stabilised by anaerobic digestion over a long retention period. Annual to two year desludge cycles are the norm and can be executed by utilising the services of a mobile tanker. The sludge can then be removed to a nearby facility that will include a larger, dedicated sludge handling facility; usually a larger municipal wastewater treatment works. There is therefore no need to provide for on-site routine sludge handling.

Secondary sludge produced in the secondary humus settling tank is returned to the septic tank for further oxidation and stabilisation and will accumulate and be removed with the raw sludge

The final effluent produced by the Becon Bio-Filter process is safe for re-use or for discharge to the natural environment and can be designed to satisfy the prevailing legal discharge standard that may be prescribed by the regulator.

Our systems are provided with an Operating and Maintenance Manual that is explained during commissioning. In the event that the client would like routine the provision of on-site operations and maintenance, we can provide a tailor made solution depending on the end user's needs.

Becon Watertech has an established profile and presence in the market, extending across 40 years and across the entire Southern Africa, African continent and the Indian Ocean Islands realm. During this time, Becon Watertech has installed over 1,800 units.

We have various models that can be provided, depending on site conditions and construction needs. These include civil engineered and constructed units, steel skid mounted units and fully containerised units.

We will be happy to provide further details and information as required.

Trust you will find this in order.

Yours faithfully

GJ Brown
for Becon Watertech

Electrical Services Report

Annexure F9

SERVICES REPORT

PROPOSED DEVELOPMENT

Q4 CITY

SERVICES REPORT

**REGARDING THE
ELECTRICITY SUPPLY
NETWORK**

Compiled by: CW Buitendag

Revision: 1

Date: 30 April 2015



PREPARED FOR:

PREPARED BY:

Reference: Q4 City	CUPRO CONSULTING
Date: 30 April 2015	442 Atterbury Road
Author: CW Buitendag	Menlo Park
Revision: 1	Pretoria

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1 EXECUTIVE SUMMARY

The Q4 Highway Facilities filling station is planned to be located on both sides of the N4 platinum highway on the M21 – De Wildt / Soshanguve turn-off. The property descriptions are: REMAINDER OF PORTION 22 (A PORTION OF PORTION2) OF THE FARM SCHIETFONTEIN 437 JQ and Portion of REMAINDER OF PORTION 41 (A PORTION OF PORTION 2) OF THE FARM SCHIETFONTEIN 437 JQ

The power supply to the proposed filling station can be made available either from the Tshwane network, using alternative sources such as solar power, gas and diesel generators or a combination of the two options. .

2 ELECTRICAL ENGINEERING SERVICES

2.1 INTRODUCTION

The electrical connection for the development may be supplied from the local 11kV overhead network, where Tshwane Municipality is responsible for the distribution of electricity. Another option is to supply the development with alternative sources such as solar power, gas and diesel generators.

2.2 SUPPLY OPTIONS

2.2.1 Tshwane Supply

Expected Demand

With a conventional power supply the 2 filling station will have an estimated demand of 250 A, 173 kVA each. The total demand is thus estimated as 346 kVA.

Source of supply

Tshwane has confirmed both verbally and in writing that sufficient capacity is available from the 11 kV line close to the site. The local 11kV overhead line is supplied from the Schietfontein 5 MVA 33/11 kV substation, within 2 km from the development on the M21 / R513 crossing. Schietfontein 33/11 kV substation is in turn supplied from Tshwane's Hartebeespoort 2x40 MVA 88/33 kV substation where Eskom supplies Tshwane with power at 88 kV.

The external supply network design will conform to Tshwane Council's standards and requirements.

Other standards to which the electrical design will adhere include the relevant SABS safety and equipment standards, as well as the NRS 048 quality of supply standard.

2.2.2 Alternative Energy Supply

Expected Demand

With alternative energy as a supply source, the demand will be reduced as far as possible using energy efficient options where appropriate combined with other energy sources such as solar water heating and gas. The expected consumption per station is 500 kWh per day with a maximum demand of 65 kW.

Supply

The supply can be made available using a combination of solar panels and a diesel generator with deep cycle batteries as energy storage. On sunny days the solar panels will supply sufficient electricity for the filling stations and to charge the batteries. The generator will be used as backup and to charge the batteries on cloudy days. The expected amount of solar panels to be installed is 500, covering an area of 300 square metres per site. Solar panels will be located on the roof as far as possible.

The storage capacity for the 48 Volt battery system will be 3000 Ampere hours. This can be achieved with a set of one hundred 2 Volt Gel batteries and 5 kVA battery charger invertors.

The generators will be a 100 kVA unit per site.

2.2.3 Combined Tshwane and Alternative Energy Supply

Using a combination of alternative energy and the Tshwane supply will provide the best solution in terms of flexibility and cost. Using the combination a reduced supply from Tshwane will be sufficient and long term savings on energy costs can be achieved.

2.3 INTERNAL RETICULATION

Power from Tshwane will be obtained from two 200 kVA overhead transformer one at each of the filling stations. From there power will be distributed with a low voltage cable to the Main DB at each of the filling stations. Alternative energy will be supplied from an energy centre where it is distributed with a low voltage cable to the Main DBs per site

2.3.1 Load Flow Parameters

The maximum voltage drop apportionment for the different system components is as follows:

- MV network:-3%
- Transformer (inherent boost): 2%
- LV Network:-5%
- Service cables:-2%
- Maximum design voltage drop: -8%

2.4 BULK SUPPLY CONTRIBUTION

The Tshwane Council bulk contribution to be paid by the developer is expected to be in the region of R 2,200 / kVA in the period July 2014 – Jul 2015.

The load calculated for bulk contribution purposes is 346 kVA. The total value of the developer's bulk contribution is expected to be in the region of R 761,200 (excluding VAT) in addition to the overhead transformer costs (approximately. R 100,000 per filling station).

2.5 EQUIPMENT STANDARDS

General

The equipment will conform to the Tshwane Council requirements.

Medium Voltage Transformers

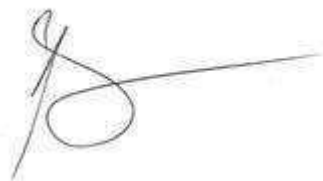
It is proposed that medium voltage transformers be installed with the following characteristics:

- 200 kVA capacity
- Fuse and surge arrester protected
- 11kV / 420 V

LV Network and Services

Power will be reticulated to the filling stations Main DB's by means of 120 and/or 150 mm² 4-core, copper, PVC insulated PVC bedded SWA PVC served cables.

REPORT COMPILED BY CUPRO CONSULTING:



CW Buitendag

From: Conrad Buitendag <conrad@cupro.co.za>
Sent: 22 June 2015 08:29 AM
To: 'Piet van Zyl'
Subject: FW: vulstasies
Attachments: image002.gif; image004.wmz; image010.png; image012.png; image003.wmz; image005.png; image006.png; Services Report Q4 City - Electrical Rev 2 1 May 2015.pdf

Hi Piet,

Hier is die email hieronder en aangeheg die laaste weergawe van ons verslag.

Groete

Conrad

From: Deon Louw [<mailto:DeonL@TSHWANE.GOV.ZA>]
Sent: 30 September 2014 11:07 AM
To: Conrad Buitendag
Cc: Ken Jones
Subject: RE: vulstasies

<<http://banner.tshwane.gov.za/rs/bcq2SmdO>>

More Conrad

Jammer ek het so lank geneem om vir julle die inligting te gee, ek het net gewag vir die vrag lessings op die lyn.

Daar is kapasiteit beskikbaar op die DW lyn van waar die aansluitings moet gedoen word.

Indien nog inligting verlang kan julle my skakel

Groete

<<http://www.tshwane.gov.za/Services/Toponymy/Pages/New-Streetnames.aspx>>

Deon Louw | Consulting Engineer

Electricity Infrastructure Planning and Design | Room 36 | Giovanetti
Offices |

312 Giovanetti street | Nieuw Muckleneuk | PO Box 423 | Pretoria | 0001 | <<http://www.tshwane.gov.za/>>
www.tshwane.gov.za

Tel: 012 358 4220 | Mobile: +27 82 859 5189 | Fax to Email:086 210 1760 |
Email: deonl@tshwane.gov.za

From: Conrad Buitendag [<mailto:conrad@cupro.co.za>]
Sent: 26 September 2014 09:48 AM
To: Deon Louw
Cc: Ken Jones; katrien@cupro.co.za; 'Carien de Klerk'
Subject: FW: vulstasies

Hi Deon,

Kan ek asseblief die inligting kry oor die kapasiteit by die substasie soos ons van Ken gevra het?

Ek sal graag met jou wil gesels. Stuur asseblief jou nommer of bel my by 0823314634.

Baie dankie

Conrad Buitendag

From: Ken Jones [<mailto:KenJ@TSHWANE.GOV.ZA>]

Sent: 19 September 2014 08:34 AM

To: Deon Louw

Cc: conrad@cupro.co.za

Subject: FW: vulstasies

<<http://banner.tshwane.gov.za/rs/bcifWQGC>>

BESKIKBARE KAPASITET.

HI DEON

STUUR ASB OOK AAN VIR CONRAD

conrad@cupro.co.za

K JONES

CITY OF TSHWANE

ROSSLYN DEPOT

CONNECTIONS NORTH

012 358 9417

073 988 1653

http://www.tshwane.gov.za/Pages/Email_disclaimer.aspx

Information from ESET NOD32 Antivirus, version of virus signature database 10438 (20140918)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

http://www.tshwane.gov.za/Pages/Email_disclaimer.aspx

Information from ESET NOD32 Antivirus, version of virus signature database 10486 (20140930)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

_____ Information from ESET NOD32 Antivirus, version of virus signature database 10498 (20141002)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

Agricultural Potential Input

Annexure F10

28 May 2015

To: Mary-Lee van Zyl
Bokamoso
Email: lizelle@mweb.co.za

Contact person	Dr. Johan van der Waals
Tel:	082 570 1297
E-mail:	johan@terrasoil.co.za

MEMO: AGRICULTURE POTENTIAL OF THE Q4 CITY SITE

I, Johan Hilgard van der Waals, conducted the wetland delineation of the Q4 City sites along the N4 Highway. During the wetland delineation exercise a soil survey was conducted. From the soil survey results conclusions can be drawn regarding the agricultural potential of the two sites.

The agricultural potential is as follows:

1. Schietfontein Portion 22: The site has deep red soils grading from the south into structured soils in the north. The soils are considered to consequently range from high potential in the south to moderate potential in the north.
2. Schietfontein Portion 41: The site consists of deep red soils in the north grading to shallower and more rocky soils to the south. The soils are considered to consequently range from high potential in the north to moderate potential in the south.

Both of the sites are small and do not constitute viable agronomic units when viewed in isolation. The presence of the N4 and the smaller road leads to disaggregation and fragmentation of the land.

The climate in the area is somewhat restrictive to regular high yields of agronomic crops and the soils do not have plinthic subsoil layers that could provide moisture to roots. These aspects are borne out by the lack of recent cultivation on the sites when compare to surrounding land.

A more detailed survey can be conducted if necessary.

If there are any further questions or aspects that require clarification please contact me.

Regards



(Signed electronically)
DR. J.H. VAN DER WAALS
Pr.Sci.Nat.

Filling Station Details

Annexure G

Tank Details

Annexure G1

2500 Ø 45 m³ Double Skin Underground Storage Tank

<u>Tank Construction:</u>		
1	Description:	45m ³ UST Double Wall Steel Tank
2	Drawing No:	TBA
3	Construction Code	EN12285-1 / Class A
4	Primary Internal Diameter	2488mm
5	Overall Length	9850mm
6	Cylindrical Length	9000mm
7	Dished End Material	DIN6608
		EN10025
		S235 / 275JR
8	Tank Shell Material	EN10025
		S235 / 275JR
9	Maximum Capacity	46,000ltr
10	Net Working Capacity	93%
11	Atmospheric Pressure	Not Known
12	Operating Temperature	40°C
13	Operating Pressure	Atmospheric
14	Vapour Pressure	0 – 75 kPa
15	Test Pressure	35 kPa
16	Ultrasonic Testing	As per Customer's specification
17	Surface Treatment	Endoprene (Polyurethane) External Coating
18	Test Medium	Compressed Air
19	External Coating Test	Spark Test @ minimum 14kV
20	Internal Surface Preparation	Low Viscosity Oil & White Spirit Mix
21	External Surface Preparation	Grit Blast ISO8501-3 SA2.5
22	Internal Corrosion Protection	As per customer's requirements
23	Product Density	Intended product specification

<u>Fittings / Accessories:</u>		
24	Flanges	ANSI ASA 150 - Flat faced
25	Piping	Schedule 40 / Schedule 10
		As per drawing
26	Bolts & Nuts	M16 x 50 Zinc Plated
27	Gaskets	Nitrile Gasket (Imported)
		Alternative - Klingsil C4430 (Local)
28	Manway Construction	Lid: 12mm Steel Plate
		Lid: OD – 720mm
		Neck: ID - 600mm
		Flange: PCD – 660mm 32 x Ø18.
29	Manway Material	EN10025 S235 / 275JR
30	Filler Line	Refer Drawing
31	Interstitial Monitoring Connection	2 x 25NB nozzles
32	Dip & Vent Nozzle	Refer Drawing
33	Vent Nozzle / ATG auxiliary	Refer Drawing
34	Suction Nozzle	Refer Drawing
35	Interstitial Liquid	10% - 20% MEG & Water Mix
		(Filled at Factory)
36	Interstitial Monitoring	Wet Leak Detection
		LAG 14 ER or similar, Site Fitted on Installation



External Corrosion Protection

Coating material		Min. thickness mm	External surface coating tested to the following minimum test volt- age V
Bitumen	with fabric reinfor- cement	3	14 000
	without reinforce- ment	5	20 000
Epoxy		0,7	6 000
Glassfibre (GRP)		2	15 000
Polyurethane		0,8	6 000
PVC		1,25	10 000

NOTE The minimum test voltages indicated are related to the minimum thickness mentioned in this table. If the thickness is increased, the voltages should also be increased. Coatings can be tested at higher voltage than indicated.

Why Polyurethane ?

Instead of Epoxy or Fibreglass Reinforced Polyester

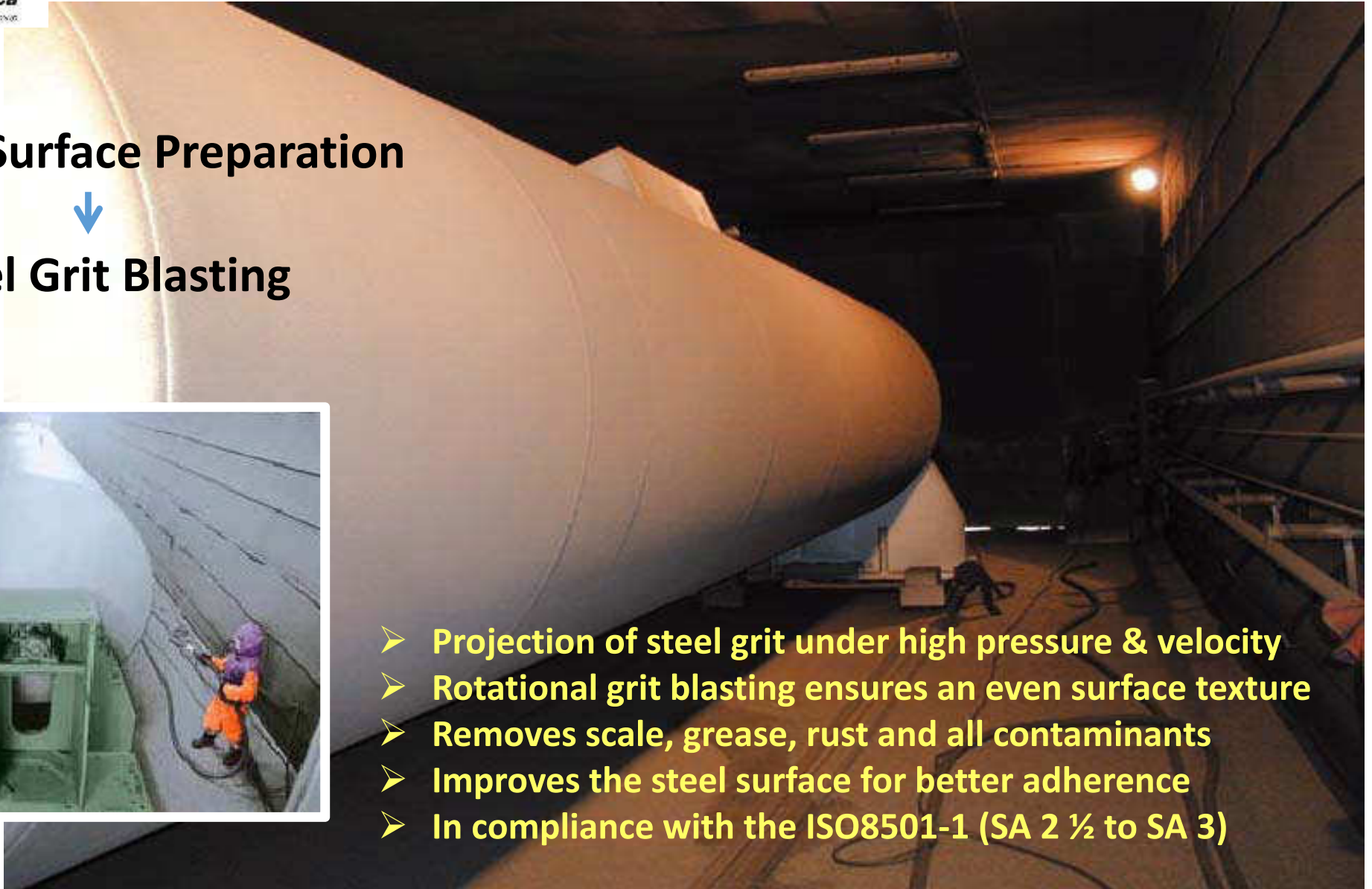
- Excellent hardness and impact resistance
- Good elasticity because of the relative thin coating layer
- Long term resistance to UV and sun light
- Perfect adherence to steel
- Less prone to transport damage
- Easy to see a surface damage
- On site repairable
- Very good resistance to:
 - All fuels
 - Micro-organisms contained in soils
 - Alkaline and Acidic Water Solutions
 - Salt Water



External Surface Preparation



Steel Grit Blasting



- Projection of steel grit under high pressure & velocity
- Rotational grit blasting ensures an even surface texture
- Removes scale, grease, rust and all contaminants
- Improves the steel surface for better adherence
- In compliance with the ISO8501-1 (SA 2 ½ to SA 3)

19 May 2015

TO: Q4 FUEL

RE: UNDERGROUND TANK STANDARDS & SPECIFICATIONS

To whom it may concern,

Petrotank South Africa manufactures underground storage tanks in accordance with and compliant to EN12285-1 specification.

The EN specification allows for multiple surface treatments, i.e. Glass-reinforced polyester (fibreglass), Polyurethane, etc.

The SANS 1535 only refers to Glass-reinforced polyester (fibreglass).

Petrotank South Africa is currently part of a working group at the SABS and have requested that the SANS 1535 specification is revised to allow for Polyurethane coated tanks as well.

Polyurethane is a relative unknown product in South Africa however the coating has been applied in most European countries, the USA, etc.

Petrotank South Africa has already supplied Polyurethane coated tanks to most major oil companies in South Africa as well as private customers. We have also exported numerous tanks across border.

Kindly refer to the attachment on Polyurethane coatings.

With reference to the highlighted points on your attachment please note the following:

Page 1

- j. Refer to point above which elaborates on what our tanks conform to
- k. Petrotank South Africa supplies non-corrosive pipework which also conforms to international standards & specifications.
- l. Petrotank South Africa does supply monitoring wells.
- n. Leak detection systems are only used on double wall / skin tanks and not single skin tanks.
- r. Tanks are pressure tested during manufacturing at 45kPa. Petrotank South Africa is only the manufacturer. It is usually installers who provide services like maintenance and who would assist with this.
- s. Petrotank South Africa does supply an overfill protection device for provision of spillage.

Page 2

- 7.(i) Petrotank South Africa only manufactures tanks and do not provide installation services.
- 7 (ii) With each tank manufactured a "tank passport" is supplied with all relevant documents, i.e. pressure test certificate, calibration chart, etc.

If you should require any additional information, please feel free to contact us.

Thank you,

Johann Stadler
Managing Director

Emergency Plan

Annexure G2

December
2015

Emergency Plan for the Q4 City Filling Stations



BOKAMOSO
LANDSCAPE ARCHITECTS &
ENVIRONMENTAL CONSULTANTS CC
P.O. BOX 11375
MAROELANA
0161

TEL: (012) 346 3810
Fax: 086 570 5659
Email: Lizelleg@mweb.co.za



1. PROJECT OUTLINE

Bokamoso Landscape Architects and Environmental Consultants CC was appointed by **Q4 Chemicals (Pty) Ltd** to compile an Emergency Plan for the proposed Q4 City Filling Stations. The proposed Q4 City Filling Stations will be situated on Part of Remainder of Portion 22 and Part of Remainder of Portion 41 of the Farm Schietfontein 437 JQ, North West Province.

The proposed development will entail two Filling Stations, in total it will comprise of 14 tanks of 46 000ℓ for fuel (petrol and diesel). The total capacity of fuel for the proposed development will be 644 cubic meters. The developable area is approximately 7.6ha and 8.5ha in extent for the two filling stations and is situated within the municipal area of Madibeng Local Municipality, North West Province.

2. RESPONSIBLE PARTIES

Developer (D)

The developer is ultimately accountable for ensuring compliance with the licenses and authorisations. The developer must appoint a manager for the operational phase to ensure that all processes at the filling stations occur according to regulations and in a safe environment.

Manager (M)

The Manager is responsible for the coordination of various activities around the filling stations and ensures compliance with the conditions of all approvals, licenses and authorisations. The Manager of the filling stations need to ensure that in the case of an emergency all personnel know what to do and how to assist the public that is on site. He/she needs to make sure that the emergency is handled in such a way that the environment is not harmed and that injuries are limited, as far as possible.

Contractors (C):

The contractors during the operational phase of the filling stations will include those conducting maintenance works on the buildings as well as infrastructure, such as boreholes, sewerage treatment works etc. All contractors need to be briefed on the emergency plan as an emergency event might occur while they are on site.

Authority (A):

The authorities are the relevant departments that have issued approvals, licenses and authorisations. The authorities are responsible for ensuring that the monitoring (if applicable) and other authorisation documentation is carried out.

Employees (E):

Employees of the filling stations and associated stores and restaurants. All employees should know what to do in case of an emergency.

3. SITE PLAN

A site plan should be created for the filling stations in their operational phase. This site plan should indicate the location of the pumps, tanks and the tanker when it is on site (the product of each tank should be indicated). Vents, filler points, storage facilities and drains should also be specified on this site plan. The site plan should indicate the position of the emergency stop, sand buckets, other firefighting equipment, evacuation routes as well as the assembly area.

4. EMERGENCY TELEPHONE NUMBERS

The following telephone numbers, in case of an emergency, should be accessible to all:

- The Fire Department

- The Police Station
- The Ambulance Service or Paramedics
- The Local Traffic Department
- Department of Water and Sanitation
- Madibeng Local Municipality
- Murder and Robbery Unit
- The Owner and/or Manager of the Filling Stations
- The Maintenance Contractors or Suppliers

5. VAPOUR RECOVERY PLAN

Organic vapour is released into the atmosphere by petrol and diesel. These hydrocarbons released into the atmosphere/environment are called Volatile Organic Compounds (VOC's). The release of fuel vapour into the atmosphere could create an explosion and therefore it is vital to capture the petrol vapour. The following measures should be adhered to with the aim of limiting the release of vapour into the atmosphere:

- During the unloading of fuel by the tanker trucks, vents should be closed on the tanker as well as the underground storage tank.
- Rubber seals should be used on the dispensing pipe (from the tanker) that runs to the underground storage tanks.
- A modified petrol filling nozzle should be used for refueling. The nozzle could also be modified with a rubber seal.
- An automatic switch valve should be used to cut the flow of fuel when full.
- Install leak detection on the gauge system of the tank.
- Spillages should be cleaned immediately.
- No open containers containing fuel will be allowed.

6. FUEL SPILLAGES

The Regulations of Hazardous Chemical Substances regulates the storage of hazardous substances on various premises.

1. Depending on the quantity of the product spilled, all pumps should be stopped either through an emergency button that switches off all pumps or the electrical distribution board.
2. Fuel should be shut off by the road tanker. Most tanker vehicles have an emergency button that should be hit. The individual compartments valves can also be shut.
3. Customers and bystanders should be kept away from the area and evacuated. An explosion could occur if a vapour cloud is ignited in any manner.
4. Ensure that customer vehicles in the vicinity of the spill will not be started as this may ignite the vapour and cause a fire/explosion.
5. No vehicle may enter the filling station.
6. Any source of ignition in the immediate area should be eliminated.
7. Sand buckets should be placed in the forecourt area and be easily accessible. The sand should be used to soak up the spilt fuel and prevent it from spreading.
8. Fire extinguishers should be removed from the forecourt and area of spillage.
9. Should any neighbours be vulnerable to an explosion at the filling station, they should be warned.
10. Fuel may not be flushed down drains.
11. If anyone had been contaminated with fuel, they should be sprayed with water and their clothing should be removed.
12. Any soil contaminated by the spill should be placed in an empty container such as a drum and removed by a hazardous waste removal company.
13. The Petroleum Company's emergency centre / team should be contacted. They may assist or give advice on the procedure to be followed.

14. With major spills it is important to notify the relevant Departments as well for example the Department of Water and Sanitation.
15. Should a spill catch fire the emergency plan for a fire should be followed.

7. FIRE

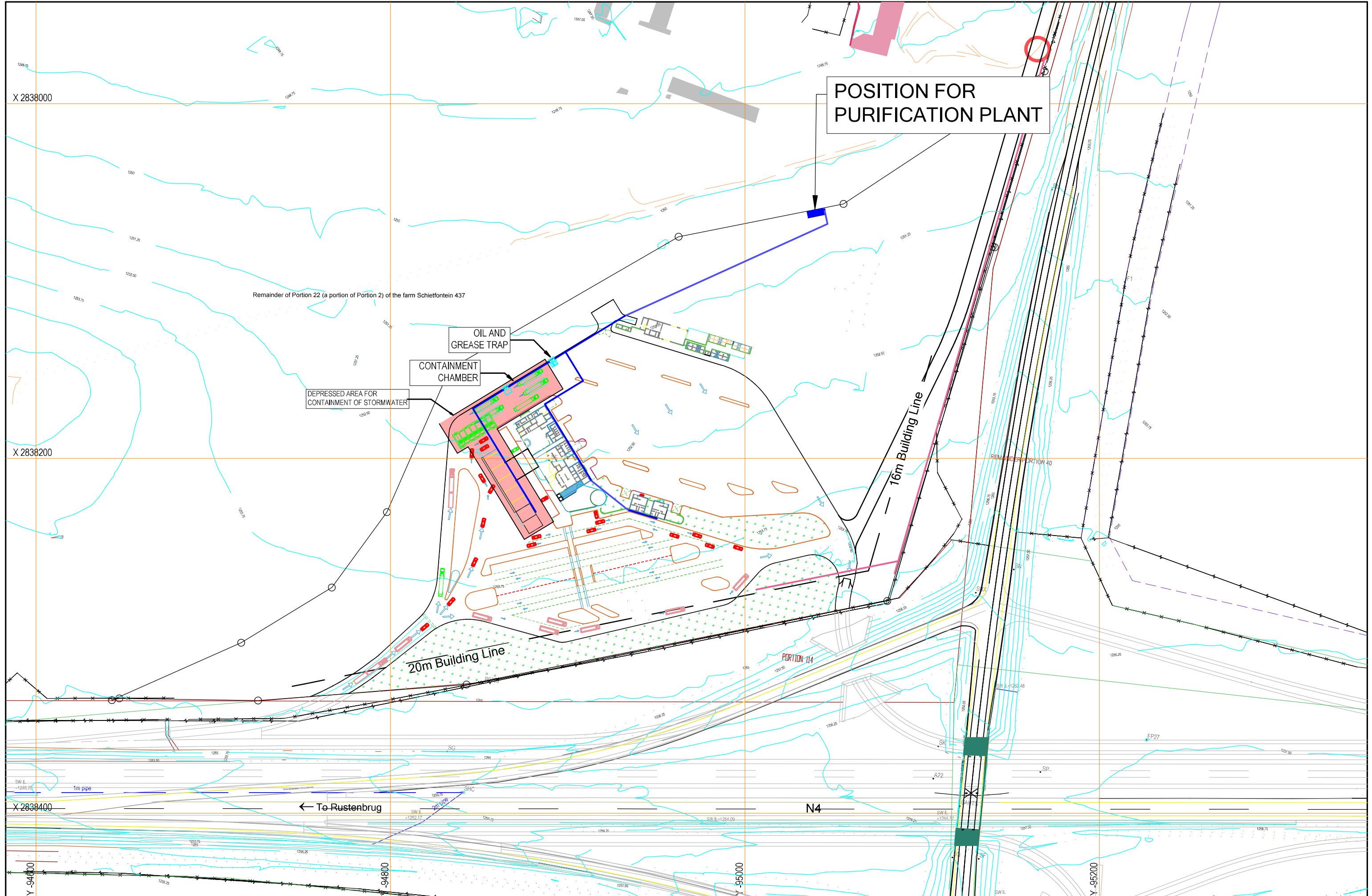
Fire at a filling station is very dangerous and can lead to major injuries and destruction. Fire can be caused by a variety of factors and/or actions. It is important to erect signs at the filling station area to notify the public that no smoking and no cellphones will be allowed around the pump areas and tanks. Fires can also be ignited through petroleum spillages and the release of fuel vapour into the atmosphere. The fire could be in the forecourt area or in any of the buildings. The following procedure can be followed in case of an emergency:

1. Refueling should be stopped immediately at the filling station.
2. The emergency shut-off switch should be activated.
3. If not done simultaneously with the emergency shut-off switch, the electrical supply to all equipment in the immediate area should be isolated at the distribution board.
4. The emergency fire alarm should be activated. There should be a clear indication of where the fire alarm is located.
5. Immediate notification of the manager or owner.
6. The forecourt and/or building should be evacuated of customers and employees, away from the danger area, to a safe assembly area(s).
7. Customers should move their vehicles away from the fire/danger area.
8. Injured people should be guided away from the fire/danger area.
9. The manager or owner to notify the fire brigade and emergency response.
10. If safe to do so an attempt should be made to extinguish the fire by using fire extinguishers.
11. Close the driveways in order to prevent access to the forecourt.

12. Adjacent property owners should be notified of the fire if it is possible that it can spread towards them.
13. The fire emergency services should be assisted when they arrive.
14. The Petroleum Company should be notified immediately by the manager or owner.
15. It is very important that a first aid kit should always be readily accessible on site in case of any emergency.

Oil Separator and Storm Water Plan

Annexure G3



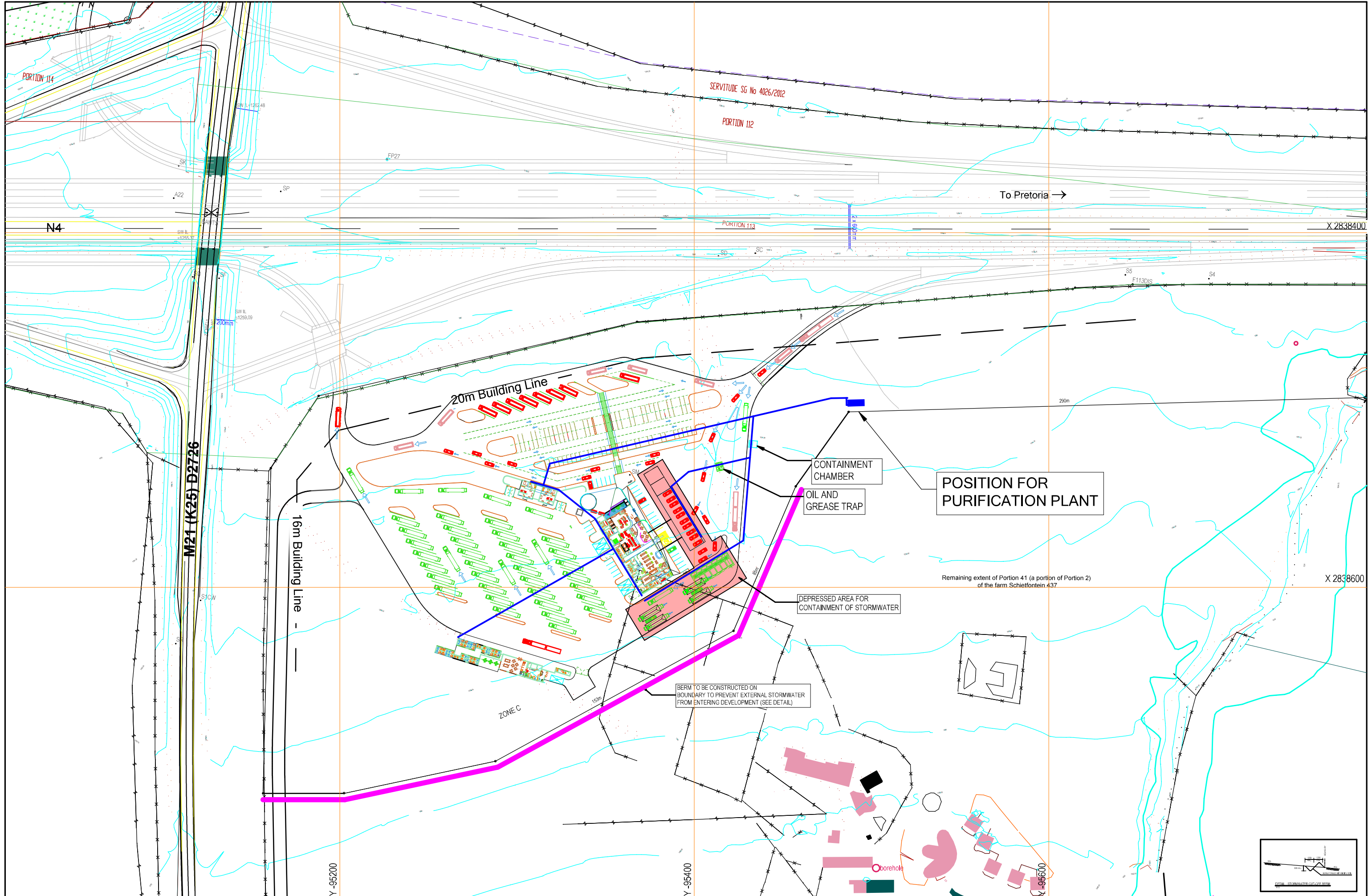
DATE	MAY 2014
DESIGNED	H VILJOEN
DRAWN	H VON WIELLIGH
CHECKED	H VILJOEN

VIP
 PRETORIA
 2nd Floor, Building 98A, Pory Street
 Tiger Vlei Office Park
 P.O. Box 11211, Silver Lakes 0054
 Tel: +27 (0) 12 809 0000
 Fax: +27 (0) 12 809 1435
 E-Mail: pretoria@vipconsulting.co.za
 OTHER OFFICES:
BENONI
VIP CONSULTING ENGINEERS (Pty) Ltd
 Consulting Civil and Structural Engineers
 Reg. No. 570269286/1

No.	REVISION	DRAWN	CHECKED	DATE	PROJECT	SERVICE DETAIL
					Q4 FUEL CITY	LAYOUT PLAN NORTH WEST SIDE OF DEVELOPMENT CONTAINMENT AREA FOR STORMWATER DRAINAGE

CONSULTING ENGINEER
 DIRECTOR
 ENG. DRAWING NUMBER
 2357-V03





DATE	MAY 2014
DESIGNED	H VILJOEN
DRAWN	H VON WIELLIGH
CHECKED	H VILJOEN

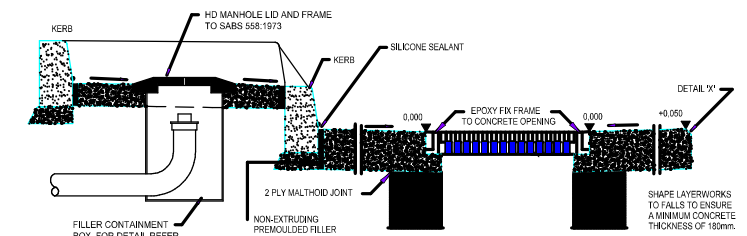
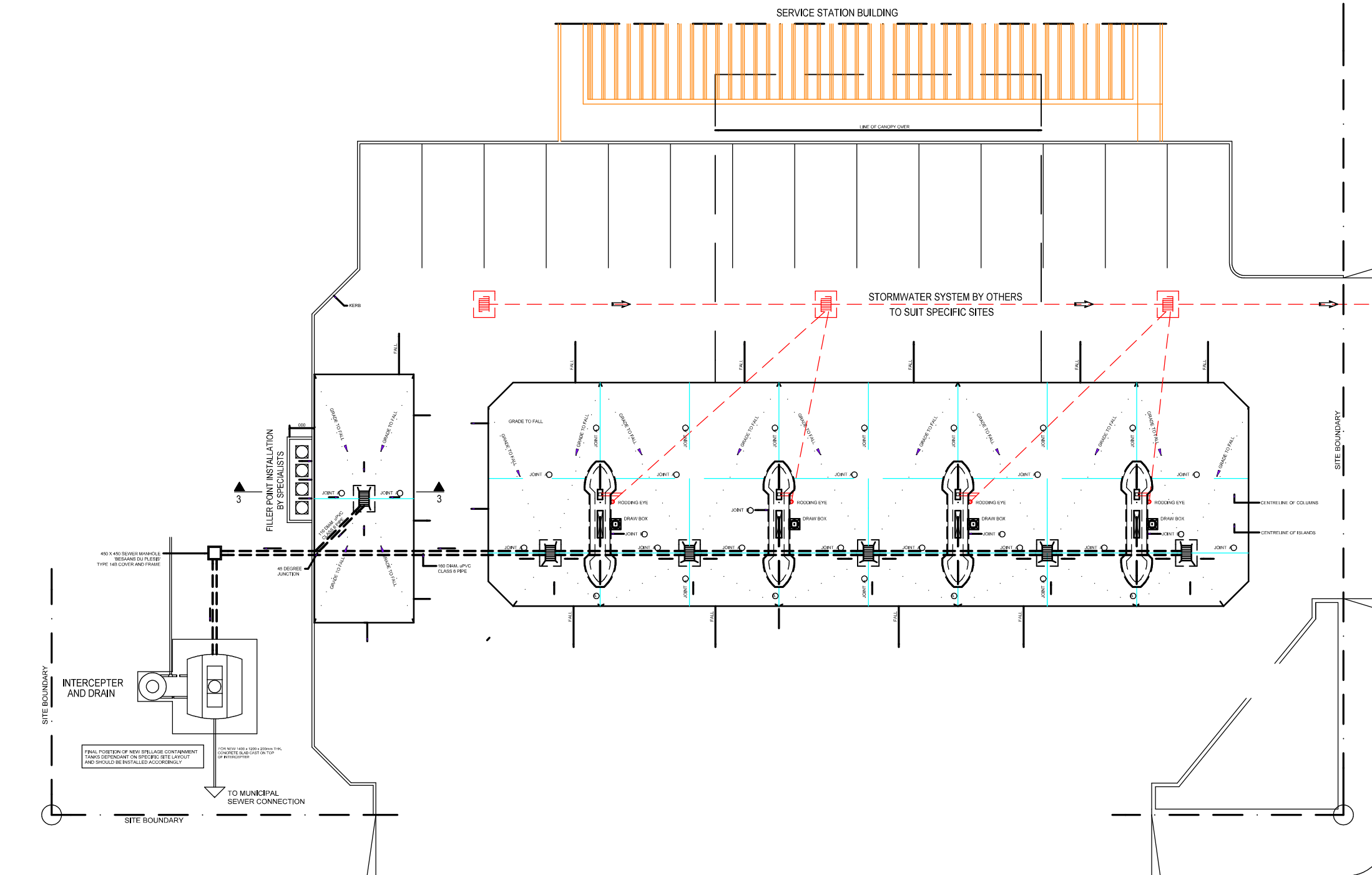
VIP
VIP CONSULTING ENGINEERS (Pty) Ltd
 Consulting Civil and Structural Engineers
 Reg No 97056588/07

No.	REVISION	DRAWN	CHECKED	DATE

PROJECT	Q4 FUEL CITY
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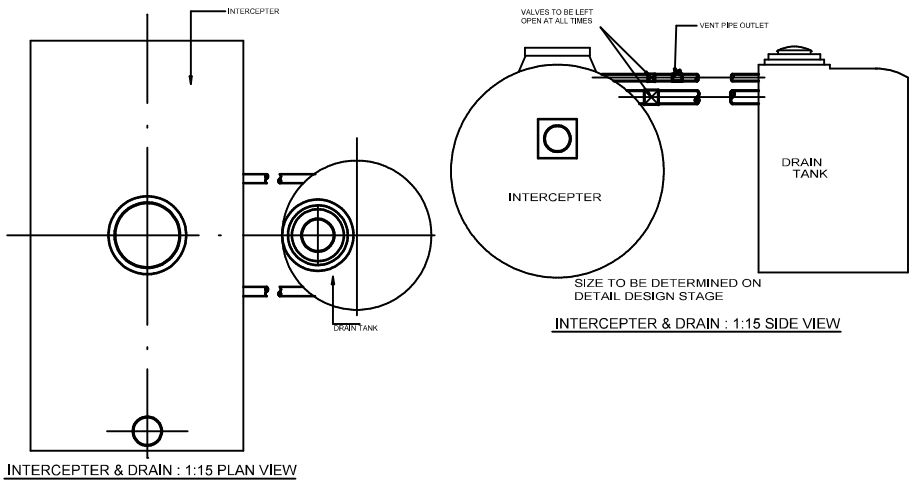
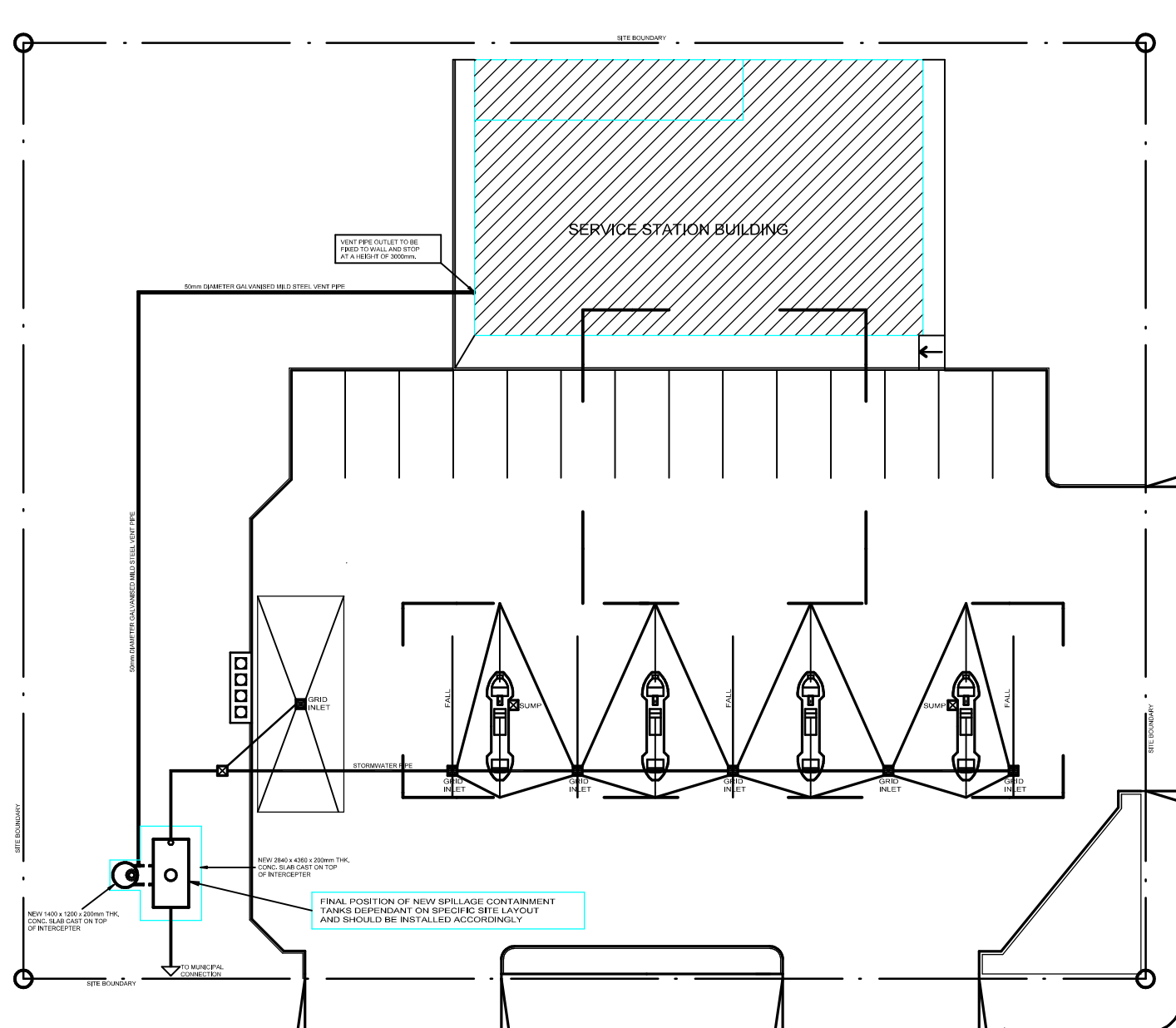
SERVICE DETAIL	LAYOUT PLAN SOUTH EAST SIDE OF DEVELOPMENT CONTAINMENT AREA FOR STORMWATER DRAINAGE
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CONSULTING ENGINEER	
DIRECTOR	
ENG. DRAWING NUMBER	2357-V04



SECTION 3-3
NOT TO SCALE

DATE	MAY 2014	<p>VIP CONSULTING ENGINEERS (Pty) Ltd Consulting Civil and Structural Engineers Reg No 570269867</p>	No.	REVISION	DRAWN	CHECKED	DATE	PROJECT	SERVICE DETAIL	<p>CONSULTING ENGINEER DIRECTOR ENG. DRAWING NUMBER 2357-V05</p>
DESIGNED	H VILJOEN							Q4 FUEL CITY	SPILLAGE MANAGEMENT FORECOURT SLAB DETAIL	
DRAWN	H VON WIELLIGH									
CHECKED	H VILJOEN									

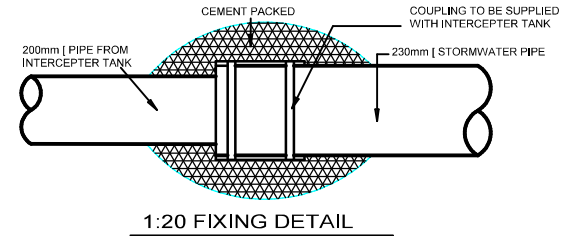
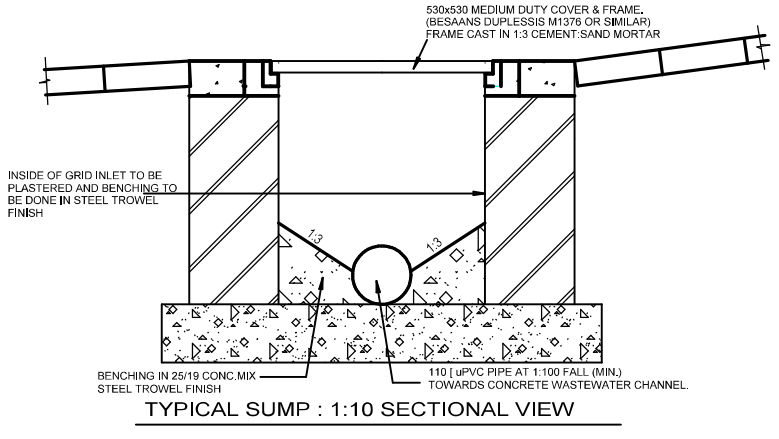
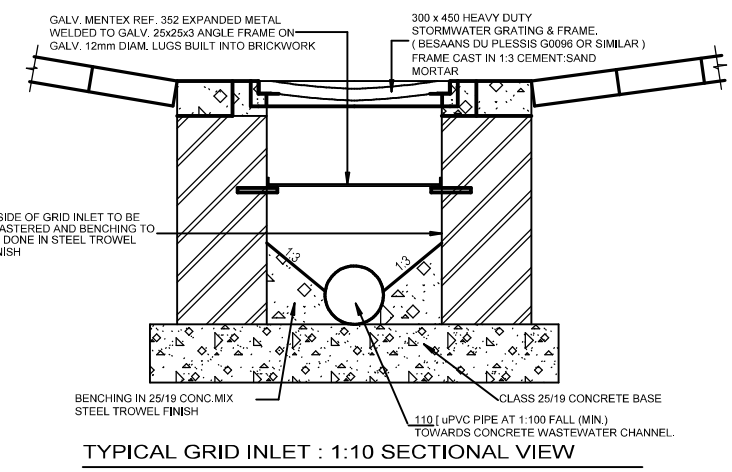


NOTE:
 A PRESSURE TEST SHOULD BE PERFORMED ON FORECOURT CATCHER SYSTEMS IN SITU BY DESIGNATED INSTALLATION CONTRACTOR OR APPOINTED SUB-CONTRACTOR. ALL LEAKS TO BE MARKED WITH WATERPROOF INKS.

PRESSURE TEST PROCEDURE:

THE OBJECT OF THIS EXERCISE IS TO TEST THE INTEGRITY OF THE WELDS AND JOINTS. YOU WILL NOTE THAT THE MAIN INLET & EXIT PORTS ARE SEALED BY A WELDED TEMPORARY PLATE WHICH HAS TO BE REMOVED AFTER THE SUCCESSFUL COMPLETION OF THE TEST.

THE PROCEDURE TO BE FOLLOWED IS:- THE UNIT IS SUPPLIED WITH TWO UNION MOUNTED VALVE ASSEMBLIES, ONE IS THE TEST MEDIUM INPUT AND THE OTHER IS THE MOUNTING POINT FOR THE PRESSURE GAUGE. THE VALVE ASSEMBLIES ARE SCREWED ONTO THE DRAIN-LINES OF THE MAIN TANK AFTER ALL OTHER JOINTS AND ACCESS POINTS ARE SEALED. AIR IS INTRODUCED THROUGH THE OTHER VALVE LINE UNTIL A PRESSURE OF ONE BAR (10Kpa) IS REACHED. ALL JOINTS AND SEALS TO BE PAINTED WITH A SOAPY WATER MIXTURE TO LOOK FOR TELL-TALE BUBBLES DENOTING A LEAK. THIS TEST HAS TO BE REPEATED ON THE SMALLER DRAIN BOX.



1:100 SITE LAYOUT

INTERCEPTER & DRAIN : 1:15 CROSS SECTIONAL VIEW

1:20 FIXING DETAIL

DATE	MAY 2014	<p>VIP CONSULTING ENGINEERS (Pty) Ltd Consulting Civil and Structural Engineers Reg No 57165526/07</p>	<p>PRETORIA 2nd Floor, Building 904, Perry Street Tiger Hills Office Park P.O. Box 11211, Silver Lakes 0054 Tel: +27 (0) 12 800 3010 Fax: +27 (0) 12 800 1435 E-Mail: pretoria@vipconsulting.co.za OTHER OFFICES: BENONI</p>	No.	REVISION	DRAWN	CHECKED	DATE	PROJECT	SERVICE DETAIL	CONSULTING ENGINEER
DESIGNED	H VILJOEN						Q4 FUEL CITY	FORECOURT SPILLAGE CONTAINMENT SYSTEM DETAILS		DIRECTOR	
DRAWN	J. v. R.									ENG. DRAWING NUMBER	
CHECKED	H VILJOEN									2357-V06	

Public Participation

Annexure H

Site Notice

Annexure H1

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

Notice is given of an application for an **Environmental Impact Assessment Process (EIA Phase)** that was submitted to the North West Department of Economic Development, Environment, Conservation and Tourism, in terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing **Environmental Impact Assessment Procedures (Listing Notice: 1, 2 and 3 – Government Notice R544, R545 & R546)** for the following activity:

Reference No: NWP/EIA/80/2013

Project Name: Q4 City Filling Stations

Property Description: On Remainder of Portion 22 and Remainder of Portion 41 of the Farm Schietfontein 437 JQ

Project Description: Two filling stations situated north and south of the N4 Highway with a total fuel capacity of 644 m³. The filling stations with associated uses will serve the N4 traffic between Pretoria and Rustenburg.

Listing Activities Applied for:

GNR 544 (Listing Notice 1), 18 June 2010	Activity 9
GNR 544 (Listing Notice 1), 18 June 2010	Activity 11
GNR 544 (Listing Notice 1), 18 June 2010	Activity 18
GNR 544 (Listing Notice 1), 18 June 2010	Activity 22
GNR 544 (Listing Notice 1), 18 June 2010	Activity 23
GNR 545 (Listing Notice 2), 18 June 2010	Activity 3
GNR 546 (Listing Notice 3), 18 June 2010	Activity 4
GNR 546 (Listing Notice 3), 18 June 2010	Activity 13
GNR 546 (Listing Notice 3), 18 June 2010	Activity 16

Proponent Name: Q4 Chemicals (Pty) Ltd

Location: The two fillings stations will be separated by the N4 Highway between Pretoria and Brits in the North West province. The study area is situated approximately 2.5 km east of the Brits Toll Plaza.

Date of Notice: 6 August 2015 – 7 September 2015

Queries regarding this matter should be referred to:

Bokamoso Landscape Architects and Environmental Consultants CC

Public Participation registration and inquiries: **Juanita De Beer**

Project inquiries: **Mary-Lee van Zyl**

P.O. Box 11375

Maroelana 0161

www.bokamoso.biz

Tel: (012) 346 3810

Fax: (086) 570 5659

E-mail: lizelleg@mweb.co.za

In order to ensure that you are identified as an Interested and/or Affected Party (I&AP) please submit your name, contact information and interest in the matter, in writing, to the contact person given above **within 30 days of this Notice**.

Public Notice

Annexure H2

Q4 City Filling Stations



Locality Map

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

Notice is given of an application for an **Environmental Impact Assessment Process** that was submitted to the North West Department of Economic Development, Environment, Conservation and Tourism, in terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing **Environmental Impact Assessment Procedures (Notice 1, 2 and 3 – Government Notice R544, R545 & R546)** for the following activity:

Reference No: NWP/EIA/80/2013

Project Name: Q4 City Filling Stations

Property Description: On Portions 22 & 41 of the Farm Schietfontein 437 JQ

Project Description: Two filling station situated north and south of the N4 Highway with a total fuel capacity of 644 m³. The filling stations with associated uses will serve the N4 traffic between Pretoria and Rustenburg.

Proponent Name: Q4 Chemicals (Pty) Ltd

Listing Activities Applied: GNR 544 (Listing Notice 1), 18 June 2010 – Activity 9, 11, 18, 22 & 23 and GNR 545 (Listing Notice 2), 18 June 2010 – Activity 3 and GNR 546 (Listing Notice 3), 18 June 2010 – Activity 4, 13 & 16

Location: The two filling stations will be separated by the N4 Highway between Pretoria and Brits in the North West Province. They are situated approximately 2.5 km from the Brits Toll Plaza to the west of the proposed filling stations.

Date of Notice: 22 May 2014 – 30 June 2014

Queries regarding this matter should be referred to:

Bokamoso Landscape Architects and Environmental Consultants CC

Public Participation registration and inquiries: **Juanita De Beer**

Project inquiries: **Mary-Lee van Zyl**

Tel: (012) 346 3810

P.O. Box 11375

Fax: (086) 570 5659

Maroelana 0161

E-mail: lizelleg@mweb.co.za

www.bokamoso.biz



In order to ensure that you are identified as an Interested and/or Affected Party (I&AP) please submit your name, contact information and interest in the matter, in writing, to the contact person given above **within 40 days of this Notice.**

Q4 City Filling Stations



Locality Map

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

Notice is given of an application for an **Environmental Impact Assessment Process (EIA Phase)** that was submitted to the North West Department of Economic Development, Environment, Conservation and Tourism, in terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing **Environmental Impact Assessment Procedures (Notice 1, 2 and 3 – Government Notice R544, R545 & R546)** for the following activity:

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Proponent Name: Q4 Chemicals (Pty) Ltd

Listing Activities Applied: GNR 544 (Listing Notice 1), 18 June 2010 – Activity 9, 11, 18, 22 & 23 and GNR 545 (Listing Notice 2), 18 June 2010 – Activity 3 and GNR 546 (Listing Notice 3), 18 June 2010 – Activity 4, 13 & 16

Location: The two filling stations will be separated by the N4 Highway between Pretoria and Brits in the North West Province. The study area is situated approximately 2.5 km east of the Brits Toll Plaza.

Date of Notice: 6 August 2015 – 7 September 2015

Queries regarding this matter should be referred to:

Bokamoso Landscape Architects and Environmental Consultants CC

Public Participation registration and inquiries: **Juanita De Beer**

Project inquiries: **Mary-Lee van Zyl**

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E-mail: lizelleg@mweb.co.za

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In order to ensure that you are identified as an Interested and/or Affected Party (I&AP) please submit your name, contact information and interest in the matter, in writing, to the contact person given above **within 30 days of this Notice.**

LEBOMBO GARDEN BUILDING
36 LEBOMBO ROAD
ASHLEA GARDENS
0081

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MAROELANA
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Fax: 086 570 5659
E-mail: lizelleg@mweb.co.za
Website: www.bokamoso.biz



Dear Landowner

10 December 2013

Basic Assessment Process in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010 (Version1) for the Q4 City Filling Station in the Madibeng Local Municipality area of North West.

**The following Farms/Properties will be affected:
Portions 22 & 41 of the Farm Schietfontein 437 JQ.**

We hereby confirm that Q4 Chemicals (Pty) Ltd, appointed Bokamoso Landscape Architects and Environmental Consultants cc, to undertake a Basic Assessment Process in terms of the National Environmental Management Act (NEMA), 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment (EIA) Regulations, 2010 for Q4 City Filling Station as listed above.

In terms of the 2010 amended NEMA EIA Regulations, the applicant, if not the land-owner, must notify the land-owner and tenants of a proposed development planned on a property occupied by the land-owner/tenant. In the case of this application the property occupied by you (as the land-owner/ tenant) forms part of the land-parcel earmarked for the above-mentioned project.

This notification therefore represents the formal notification of land-owners and/or tenants of the proposed Q4 City Filling Station in and around the Farm Schietfontein 437 JQ. This notification letter will be submitted as part of the formal application to be submitted to the North West Department of Economic Development, Environment, Conservation and Tourism (DEDECT).

This notification also affords you the opportunity to register (at an early stage) as an Interested and Affected Party (I&AP) in the Basic Assessment Process. In order to register you are requested to fill in your full details on the form supplied below and to fax or e-mail your details to Juanita de Beer (public participation co-ordinator of Bokamoso) for the inclusion of your details onto our public participation database.

Once you are registered as an interested and affected party, we will keep you informed of the progress with the application and we will make all correspondence, documents and other information regarding the application available to you throughout the application process.

Registration as Interested and Affected Party	
Farm Name:	
Erf /Portion Number:	
Street Address:	
Landowner:	Name & Surname: Email address: Telephone: Cell phone: Fax Number: Postal Address:
Tenant Details: (if applicable)	Name & Surname: Email address: Telephone: Cell phone: Fax Number: Postal Address:

Sincerely,

Lizelle Gregory
Bokamoso Landscape Architects and Environmental Consultants cc

Q4 Filling Stations Final

Scoping Report for Review

The period of 21 days allowed for your review and comments is from 16 April – 8 May 2015. Your comments should be sent directly to Bokamoso attention Mary-Lee van Zyl or Juanita De Beer (lizelleg@mweb.co.za or fax: 086 570 5659).

Venue: Tutuwedzo Lodge & Conference Centre

GPS Coordinates: (Lat/Long) - 25.652393/27.952965

Tel: 082 800 9631 (Attention Carien)

Date: 16 April – 8 May 2015 (21 Days)

Also available on our Website: www.bokamoso.biz

Please do not hesitate to contact us if there are any questions in connection with the above mentioned development.

Contact person: **Juanita De Beer**

Tel: 012 346 3810 Fax: 086 570 5659

E-mail: lizelleg@mweb.co.za



LEBOMBO GARDEN BUILDING
36 LEBOMBO ROAD
ASHLEA GARDENS
0081

P.O. BOX 11375
MARCELANA
0161

Tel: (012) 346 3810
Fax: 086 570 5659
E-mail: lizelleg@mweb.co.za
Website: www.bokamoso.biz



Dear Landowner/Tenant

22 May 2014

You are hereby informed that Bokamoso Environmental Consultants were appointed (as EAP) by Q4 Chemicals (Pty) Ltd to conduct the Environmental Impact Assessment Process in terms of the amended 2010 NEMA EIA Regulations for the proposed Q4 City Filling Stations on Portions 22 & 41 of the Farm Schietfontein 437 JQ.

The proposed Land-uses for the study area are as follows:

Two filling stations situated north and south of the N4 Highway with a total fuel capacity of 644 m³. The filling stations with associated uses will serve the N4 traffic between Pretoria and Rustenburg.

In terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing Environmental Impact Assessment Procedures (Notice 1, 2 and 3 – Governing Notice R544, R545 & R546) of the 2010 amended NEMA Regulations, the EAP must inform all landowners and tenants within 100m from the study area of the proposed development.

Bokamoso already supplied you (landowner/Tenant) of the property within 100m with Notification Letter and request that you supply the contact details of any tenants or other interested and affected parties that reside or work on the property to Bokamoso. Bokamoso will then also supply these parties with the necessary Notification Letters.

Alternatively, you are also welcome to distribute copies of your Notification to these parties. We will however require proof that you supplied the Notices to the Tenants, Landowners, and Workers etc. Another option is to act as representative on behalf of these parties.

Please confirm (via email/Fax) that you received the Landowners/Tenant Notification and this Letter. Also indicate in this Confirmation Letter whether you have tenants on your property and you're preferred method of tenant/worker notification.

Regards

.....
Lizelle Gregory/Juanita De Beer

LEBOMBO GARDEN BUILDING
38 LEBOMBO ROAD
ASHLEA GARDENS
0081

P.O. BOX 11376
MARCELANA
0161

Tel: (012) 346 3810
Fax: 086 570 5659
E-mail: lizelleg@mweb.co.za
Website: www.bokamoso.biz



7 July 2014

**THE PROPOSED Q4 CITY FILLING STATION WITH THE TOTAL CAPACITY OF 644M³ ON
THE FARM SCHIETFONTEIN 437 JQ, MADIBENG LOCAL MUNICIPALITY,
Reference Number: NWP/EIA/80/2013**

Dear Interested and Affected Party,

You are hereby informed that Bokamoso Environmental Consultants were appointed (as EAP) by Q4 Chemicals (Pty) Ltd to conduct the Environmental Impact Assessment Process in terms of the amended 2010 NEMA EIA Regulations for the **proposed Q4 City Filling Stations on Portions 22 & 41 of the Farm Schietfontein 437 JQ.**

The proposed land-uses for the study area are as follow:

Two filling stations situated north and south of the N4 Highway with a total fuel capacity of 644 m³. The filling stations with associated uses will serve the N4 traffic between Pretoria and Rustenburg.

In terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing Environmental Impact Assessment Procedures (Notice 1, 2 and 3 – Governing Notice R544, R545 & R546) of the 2010 amended NEMA Regulations, the EAP must inform all landowners and tenants within 100m from the study area of the proposed development. Bokamoso already supplied all these landowners and tenants (within 100m) with a Notification Letter and requested that they supply the contact details of any tenants or other interested and affected parties that reside or work on the property to Bokamoso. Bokamoso will then also supply these parties with the necessary Notification Letters. In this letter they were also encouraged to distribute copies of their Notification to these parties.

Please find the public notice which was distributed to the above-mentioned landowners attached to this letter.

Should you not have been informed of the proposed filling station development we now want to give you the opportunity to register as an Interested and Affected Party on this project. As soon as you register you will be informed of the Draft Scoping Report that will be available for review on our website and future environmental reports on this project.

Kind Regards,

Mary-Lee van Zyl
**Bokamoso Landscape Architects &
Environmental Consultants CC**

Q4 Filling Stations Notification

Acknowledgement of Receipt of land owner notification concerning the proposed Q4 Filling Stations project.

	Name	Address	Contact Details	Signature
1	Theresa Park FARUK	CNR WATER BOK E BLITS ROAD THERESA PARK	Email: sasolepe@gmail.com Fax: 012 542 7368 Tel: 012 542 2700	
2	Bachmann Garage Gert v Vulliam	CNR DOREEN AV FRANS DU TOIT ROESLYN	Email: bachmanns1@absamail.co.za Fax: 012 541 5042 Tel: 012 541 3034	
3	7/7/2014 Roeslyn Petro City	c/o DOREEN + ROESLYN ROADS ROESLYN	Email: rosspetro@worldonline.co.za Fax: 025711888 Tel: 012 541 8000	
4	NES WE NES DE ROOY	SRID. DE ROOY	Email: Fax: Tel: 016 405 9124	
5	TOTAL HARIBEEPOUR	CNR KSII ABETHA STR HARIBEEPOUR	Email: jonks@mweb.co.za Fax: 086 684 6598 Tel: 012 259 3926	
6	EXEL RIETFONTEN	PLOT 184 KAMELODRIFT- WEG VAN PERHOFF	Email: armandofe@konisa.net Fax: 086 212 3838 Tel: 012 237 6419	
7			Email: Fax: Tel:	
8			Email: Fax: Tel:	
9			Email: Fax: Tel:	
10			Email: Fax: Tel:	
11			Email: Fax: Tel:	
12			Email: Fax: Tel:	
13			Email: Fax: Tel:	
14			Email: Fax: Tel:	
15			Email: Fax: Tel:	

Draft Scoping Report for Review



All interested and affected parties are invited to review the development information and to register any issues and concerns to be included and addressed in the Final Scoping Report.

Venue: Tutuwedzo Lodge & Conference Centre

GPS Coordinates: (Lat/Long) - 25.652393/27.952965

Tel: 082 800 9631 (Attention Carien)

Date: 26 November 2014 – 30 January 2015 (Excluding 15 Dec – 2 Jan)

Website: www.bokamoso.biz

Please do not hesitate to contact us if there are any questions in connection with the abovementioned development.

Contact person: **Juanita De Beer**

Tel: 012 346 3810 Fax: 086 570 5659

E-mail: lizelleg@mweb.co.za



List of REGISTERED LETTERS
Lys van GEREgistreERDE BRIEWE
 (With an insurance option/met 'n versekeringsopsie)



Full tracking and tracing/Volledige volg en spoor

Name and address of sender
 Naam en adres van afsender: Bebamase, P.O. Box 11375,
Marcelona 0161
Schietfontein filling station

Enquiries/Vrae
 Toll-free number
 Tolvry nommer
0800 111 502

No	Name and address of addressee Naam en adres van geadresseerde	Insured amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-klëntafskrif	
1	Tenim Investments P.O. Box 1400, Hartbeespoort, 0216					<small>REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 986 ZA</small> CUSTOMER COPY 301028R	
2	Joey Theresa Pretorius P.O. Box 1877, Hartbeespoort, 0216					<small>REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 955 ZA</small> CUSTOMER COPY 301028R	
3							
4							
5							
6							
7							
8							
9							
10							
		Total	Totaal	R	R	R	R

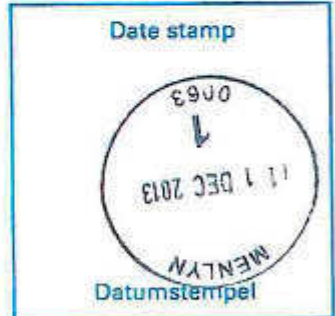
Number of letters posted
 Getal briewe gepos: 2

Signature of client
 Handtekening van kliënt: [Signature]

Signature of accepting officer
 Handtekening van aanneembeampte: [Signature]

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontyang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op binnelandse geregistreeerde briewe van toepassing.



List of REGISTERED LETTERS
Lys van GEREgistreerde BRIEWE
 (With an insurance option/met 'n versekeringsopsie)



Full tracking and tracing/Volledige volg en spoor

Name and address of sender
 Naam en adres van afsender: Bobamase P.O. Box 11 375,
Mercedesburg 0161
Q4 City Filling Stations

Enquiries/Navrae
 Toll-free number
 Tolvry nommer
0800 111 502

No	Name and address of addressee Naam en adres van geadresseerde	Insured amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-klëntafskrif
1	Lynette Strauss P.O. Box 911430, Rosslyn, 0200					RD 885 057 172 ZA CUSTOMER COPY 301028R
2	Marthinus Nicolaas Ras P.O. Box 121, De Wildt, 0251					RD 885 057 186 ZA CUSTOMER COPY 301028R
3	Primeinvest 323 P.O. Box 95030, Waterkloof, 0145					RD 885 058 495 ZA CUSTOMER COPY 301028R
4	WRT Komponent Dienste P.O. Box 2778, Brits 0250					RD 885 058 500 ZA CUSTOMER COPY 301028R
5	Petrus Johannes Yzel P.O. Box 33, De Wildt, 0251					RD 885 058 473 ZA CUSTOMER COPY 301028R
6	Johannes Jacobus van der Merwe P.O. Box 462, De Wildt, 0251					RD 885 058 487 ZA CUSTOMER COPY 301028R
7	Maddala's Padmark P.O. Box 180, De Wildt, 0251					RD 885 058 456 ZA CUSTOMER COPY 301028R
8	Burgerd Wynaand van Dyk P.O. Box 137, De Wildt, 0251					RD 885 058 460 ZA CUSTOMER COPY 301028R
9	Frederick Johannes Strauss P.O. Box 12050, Queenswood, 0121					RD 885 058 558 ZA CUSTOMER COPY 301028R
10	Harry John Nel P.O. Box 11342, Hatfield, 0028					RD 885 058 561 ZA CUSTOMER COPY 301028R
Total Totaal		R	R	R	R	

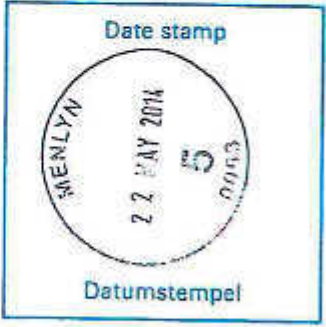
Number of letters posted
 Getal briewe gepos

Signature of client
 Handtekening van klënt

Signature of accepting officer
 Handtekening van aanneembeampte

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing.



List of REGISTERED LETTERS
Lys van GEREGISTREERDE BRIEWE
 (With an insurance option/met 'n versekeringsopsie)



Full tracking and tracing/Volledige volg en spoor

Name and address of sender
 Naam en adres van afsender: Bobamoso P.O. Box 11375,
Marcelona 0161
Q4 City Filing Stations.

Enquiries/Navrae
 Toll-free number
 Tolvry nommer
0800 111 502

No	Name and address of addressee Naam en adres van geadresseerde	Insured amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-kliëntafskrif
1	Marid Elizabeth Mc Lellan P.O. Box 14070, Sinoville, 0129					(with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 535 ZA CUSTOMER COPY 301028R
2	The South African National Roads Agency P.O. Box 415, Pretoria, 0001					(with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 544 ZA CUSTOMER COPY 301028R
3	Tenim Investments P.O. Box 1400, Hartbeespoort, 0216					(with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 513 ZA CUSTOMER COPY 301028R
4	Joey Theresa Pretorius P.O. Box 1877, Hartbeespoort, 0216					(with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 527 ZA CUSTOMER COPY 301028R
5						
6						
7						
8						
9						
10						

Number of letters posted
 Getal briewe gepos

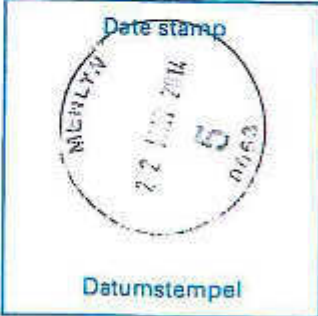
Total Totaal	R	R	R	R
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Signature of client
 Handtekening van klient

Signature of accepting officer
 Handtekening van aanneembeampte

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100,00. No compensation is payable without documentary proof. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only.

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Newspaper Advertisements

Annexure H3

VACANCY

Restaurant Manager

Required at busy established Restaurant in Hartbeespoort

- * 3 years' experience needed
- * Must have own transport
- * Must reside in Hartbeespoort area
- * Must be computer literate
- * Dynamic & Energetic

Send CV to upcc@global.co.za

ALL Recruit *We Recruit Anywhere, Anytime on behalf of Employers* 072 589 9858

Onshore drilling positions available in Mozambique – Oil & Gas fields

- 386. Drilling Project Man 100 – 120k p/m
- 385. Drill Rig Sup90k p/m
- 384. Drill Rig Operator 50k p/m
- 383. Drilling Mud Eng50k p/m

387. Snr Trust admin JHB - 3-Sys related exp, Local & Offshore Trust Management. Salary Neg

Please visit our website www.allrecruit.co.za for more info and specifications

HAW'S Hartbeespoort Animal Welfare Society

www.haw-s.co.za
076 455 0322
kennelmanager@haw-s.co.za

RECRUITING

ARE YOU THE PERFECT FIT?

We are recruiting new Property Specialists in Residential and Agricultural areas. Preference will apply to candidates with the relevant experience, Own transport, laptop/tablet and cell phone is compulsory.

Interested? Please forward your CV to info@realtyhustlers.co.za

Or contact Jono at 082 923 5394 for detailed info.

FINANSIËLE ADMIN POS IN HARTIES

- + Matric + Pastel
- + Excel
- + 2 jaar relevante ondervinding
- + Vlot Afr + Eng
- + R10000 +

STUUR CV NA sulanes@expresspos.co.za met Harties as verwysing 0860 404 949

DRIVER / SUPPORT STAFF

Minimum requirement is a Matric certificate and PDP Drivers licence.

Experience: Must have a minimum of 4 years' working experience and good communication skills. Starting date: September 2015

Applications, including CV's should reach Peconwood College by 14th August 2015. E-mail: cbofimo@peconwoodcollege.co.za

VAKANTE POS

REKENINGKUNDIGE KLERK IN HARTBESPOORT

Voorge ondervinding noodsaaklik. Eie vervoer 'n vereiste. Salaris onderhandelbaar na gelang van ondervinding.

Faks CV asseblief na 086 510 5602

BEAUTY CALLS

we are hiring a Nail Technician

Interested? Please forward your CV to info@sorbet.com

Or contact Jono at 082 923 5394 for detailed info.

HEAD CHEF POSITION AVAILABLE

Southview Recovery Centre, a Private Substance Abuse Rehabilitation Centre in the Hartbeespoort area, requires the services of a Head Chef. Position is available from October onwards.

Responsibilities: Contribute to the effective functioning of the kitchen unit including food preparation & cooking, supervision of kitchen staff, stock control & costing, and menu planning & implementation.

Requirements: 4 years' chef & kitchen management experience. Diploma or certificate appls. Applicants must be willing to work on weekends. Driver's license and own transport.

Remuneration: R12000 negotiable. Live-in opportunity available. Applicants to please forward CV to hr@southviewrecovery.co.za Only shortlisted candidates will be contacted

RESORT DRIVER

Live out position. The candidate must be in possession of a valid driver's license with a clean violation record and have previous experience. Knowledge of Pretoria and Johannesburg routes is compulsory.

Should you wish to apply kindly forward your application to pa@montamantzi.co.za

Closing date 10 August 2015.

VACANCY

Manager required for restaurant in Meerhof. must be bilingual. Must have experience & own transport

Email CV to : wikus@the-windmill.co.za

OFFICES / SHOP SPACE TO LET

ROSVILLE PARK SCHOEMANSVILLE

Popular location Scott Street
80m² and 30m²
AIRCONDITIONED

DANIE 082 742 1008

STORAGE UNITS TO LET

IFAFI 9m x 3m R900.00 p/m

CONTACT 082 4422 635

IFAFI CENTRE

Shops, Offices, Factories
25 min Lanseria, Pretoria, Brits

TO LET From R50.00 m²

80m² 95m² 105m² 203m² 358m²
1185m² 1350m² 1480m²

Henry Gerber 082 889 4972

UPMARKET OFFICES TO LET

BOARDROOM • AIRCONS
RECEPTION • PATIO WITH BRAAI AREA
PLUS STORAGE ROOM

R 60/m²

082 44 22 635

NOTICES

KENNISGEWING

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

Notice is given of an application for an Environmental Impact Assessment Process (EIA Phase) that was submitted to the North West Department of Economic Development, Environment, Conservation and Tourism, in terms of Regulation No. R543 published in the Government Notice No. 35206 of 18 June 2010 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) governing Environmental Impact Assessment Procedures (Listing Notice: 1, 2 and 3 – Government Notice R544, R545 & R546) for the following activity:

Reference No: NWP/EA/02/2015
Project Name: Q4 City Filling Station

Property Description: On Remainder of Portion 22 and Remainder of Portion 41 of the Farm Schietfontein 437 JQ

Project Description: Two filling stations situated north and south of the N4 Highway with a total fuel capacity of 544 m³. The filling stations with associated uses will serve the N4 traffic between Pretoria and Rustenburg.

Listing Activities Applied for: GNR 544 (Listing Notice 1), 18 June 2010 – Activity 9, 11, 18, 22 & 23; GNR 545 (Listing Notice 2), 18 June 2010 – Activity 3 and GNR 546 (Listing Notice 3), 18 June 2010 – Activity 4, 15 & 16

Proponent Name: Q4 Chemicals (Pty) Ltd

Location: The two filling stations will be separated by the N4 Highway between Pretoria and Brits in the North West province. The study area is situated approximately 2.5 km east of the Brits Toll Plaza.

Date of Notice: 6 August 2015 – 7 September 2015

Queries regarding this matter should be referred to:
Bokamoso Landscape Architects and Environmental Consultants CC
Public Participation registration and inquiries: Juanita De Beer
Project inquiries: Mary-Lou van Zyl, Tel: (012) 346 5810
PO, Box 11575; Fax: (086) 510 5659
Hararefano 0161
E-mail: rlzelleg@mvb.co.za • www.bokamoso.biz

In order to ensure that you are identified as an Interested and/or Affected Party (I&AP) please submit your name, contact information and interest in the matter, in writing, to the contact person given above within 30 days of this Notice.

KOSMOS DORPSBEPLANNINGSKEMA 1999

Ingevolge Klausule 5/22 van die Kosmos Dorpsbeplanningkema, 1999, word hiermee aan alle belanghebbendes kennis gegee dat ek, Anne du Plessis Stad- en Streekebeplanner, die ondergetekende, van voornemens is om by die Plaaslike Munisipaliteit van Madibeng aansoek te doen om spesiale toestemming tot die gebruik van Erf 151, Kosmos, geleë te Paul Krugerstraat 121, en bestaande/voorgestelde geboue daarop vir die volgende doeleindes: Gastehuis met maksimum van drie slaapkamers, die elkeen besog om 'n bed en ontbyt fasiliteit te bedryf

Die bestemming van die grond, ingevolge die dorpsbeplanningkema is: "Residensiële T". Planne en / besonderhede aangaande hierdie aansoek lê ter insaagedurende gewone kantoorure te Munisipale Kantore, Van Veldenstraat, Brits. Enige persoon wat beswaar het teen die goedkeuring van hierdie aansoek, moet die beswaar skriftelik indien by beide die Munisipale Bestuurder, Postbus 106, Brits, 0250, en die ondergetekende nie later as 2 September 2015.

NAAM EN POSADRES
Anne du Plessis Stad- en Streekebeplanner, Postbus 657, Brits, 0250, TEL: 082 559 1024

KOSMOS TOWN-PLANNING SCHEME 1999

Notice is hereby given to all whom it may concern that in terms of clause 5/22 of the Kosmos Town-Planning Scheme 1999, I, Anne du Plessis Town and Regional Planner, the undersigned intend applying to the Local Municipality of Madibeng, for special consent to use Erf 151, Kosmos, situated in 121 Paul Kruger Street, and the existing / proposed buildings thereon for the following purposes: Guest House with a maximum of three bedrooms. The owner intends to establish a bed and breakfast facility on the erf. The land is zoned: "Residential T".

Plans and / or particulars relating to the application may be inspected during office hours at the Municipal offices, Van Velden Street, Brits. Any person having any objection to the granting of this application must lodge the objection in writing with both the Municipal Manager, P.O. Box 106, Brits, 0250, and the undersigned not later than 2 September 2015.

NAME AND POSTAL ADDRESS
Anne du Plessis Town- en Streekebeplanner, Postbus 657, Brits, 0250, TEL: 082 559 1024

Vacancies

VACANCY

CASA D'VLIET BARMAN / BARLADY

- Good Communicator Skills /
- Love with customers
- Must be 21 and up
- Sober habits
- Able to manage stock
- Willing to work Saturdays
- Own Transport

Closing Date: 26 May 2014
All CV's can be handed in personally at the offices at Casa D'Vliet or mailed to casad@shafobrokers.co.za

VAKANTE POS

in Hartbeespoort

Tandarts Stoelassistent benodig.

• Onderwysende benodig
Epos CV na
admin@hartbeespoort.co.za
of faks 086 517 7835

Vacancy - Estate Manager

An upmarket Estate on the Crocodile River near Hartbeespoort Dam has a vacancy for an Estate manager.

The job description includes the following:

- General management of the running of the Estate and the implementation of statutory laws and the Estate rules
- Management of Estate finances and human resources
- Management of Estate administration, Estate infrastructure and general maintenance;
- Management of Estate security;
- Resident liaison and well-being;
- Liaison with external stakeholders and third parties

The ideal candidate will be between 35 and 55, with a proven record of competence in general management.

Candidates must exhibit excellent leadership and interpersonal skills and have a working knowledge of project management.

A tertiary qualification and previous experience in Estate management will be regarded as an advantage.

The job requires prospective candidates to be physically fit.

The Estate offers a competitive salary, bonus and other benefits.

Energetic, enthusiastic candidates with keen attention to detail are invited to submit a detailed CV to the Estate

Chairman Dr Corrie Ungerer at:
corrie.ungerer@gmail.com
by 15h00 on Friday 30 May 2014.



Public Notice Madibeng Local Municipality



Notice is hereby given, in terms of Section 19(b) of the Local Government: Municipal Systems Act, 2000 (Act No 32 of 2000), that an ordinary meeting of the Municipal Council of the Madibeng Local Municipality is scheduled for Tuesday, 27 May 2014 at 10:00 in the Council Chambers, Civic Centre, Brits.

In terms of Section 24(1) of the Local Government: Municipal Finance Management Act, 2003 (Act No 56 of 2003), the Municipal Council will consider the approval of the annual budget for the 2014/2015 financial year, as well as the IDP Review for 2014/2015, during this meeting.

This serves as an invitation to attend the said meeting. For further information regarding the Council meetings, please contact the Office of the Speaker of Council at (012) 318-9316 or (012) 318-9450.

T MOTLASHUPING ACTING MUNICIPAL MANAGER

Civic Centre
Van Velden Street
Brits

Notice Number: 21/2014
Reference Number: 3/2/2/2

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

Notice is given of an application for an Environmental Impact Assessment Process that was submitted to the North West Department of Economic Development, Environment, Conservation and Tourism, in terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing Environmental Impact Assessment Procedures (Listing Notice: 1, 2 and 3 – Government Notice R546, R545 & R546) for the following activity:

Reference No: NWP/EIA/00/2013

Project Name: Q4 City Filling Stations

Property Description: On Portions 22 & 41 of the Farm Schichtfontein 437 JQ

Project Description: Two filling stations situated north and south of the N4 Highway with a total fuel capacity of 644 m³. The filling stations with associated uses will serve the N4 traffic between Pretoria and Rustenburg

Listing Activities Applied for: GNR 541 (Listing Notice 1), 18 June 2010 – Activity 9, 11, 18, 22 & 23 and GNR 545 (Listing Notice 2), 18 June 2010 – Activity 3 and GNR 546 (Listing Notice 3), 18 June 2010 – Activity 4, 13 & 16

Proposed Name: Q4 Chemicals (Pty) Ltd

Location: The two filling stations will be separated by the N4 Highway between Pretoria and Brits in the north west province. They are situated approximately 2.5 km from the Brits Toll Plaza to the west of the proposed filling stations.

Date of Notice: 22 May 2014 – 30 June 2014

Queries regarding this matter should be referred to:
Bokamoso Landscape Architects and Environmental Consultants CC

Public Participation registration and inquiries: Juanita De Beer

Project inquiries: Mary-Lee van Zyl; Tel: (012) 346 3810

P.O. Box 11375; Fax: (086) 570 5659

Marcelina 0161 - E-mail: licelleg@mwcb.co.za

www.bokamoso.biz

In order to ensure that you are identified as an Interested and/or Affected Party (I&AP) please submit your name, contact information and interest in the matter, in writing, to the contact person given above within 40 days of this Notice.



InfoGro, a member of the MGK Group, is an information systems services provider. InfoGro provides outstanding opportunities for individuals to develop and to become part of this rapidly expanding company.

There is currently the following position available:

IT TECHNICIAN BRITS (Reference 140062)

The successful candidate will report to the Technical Manager at Brits.

Responsibilities include:

- Call-out and telephonic IT customer support;
- Network trouble shooting installations; and
- Server trouble shooting and support.

Skills, Qualifications and General Requirements:

- A+ and N+ qualifications will be advantageous;
- An MCSE and/or MCITP qualification will be advantageous;
- Experience in a similar position will be advantageous;
- Excellent technical trouble shooting abilities;
- Excellent communication skills, as well as human relations;
- Hardworking, reliable and honest; and
- Own transport essential.

InfoGro offers the appropriate candidate a competitive package based on total cost to company

Interested persons may forward an abbreviated CV to Mauritz Coetzee via e-mail at mauritze@infogro.co.za. Please use the relevant reference number for the position you are applying for.

Closing date: Monday, 26 May 2014.

If you have not heard from us in 30 days, you can assume that your application was unsuccessful.

In line with IT

www.infogro.co.za



InfoGro, a member of the MGK Group, is an information systems services provider. InfoGro provides outstanding opportunities for individuals to develop and to become part of this rapidly expanding company.

There is currently the following position available:

WIRELESS TECHNICIAN BRITS (Reference 140063)

The successful candidate will report to the Wireless Network Manager at Brits.

Responsibilities:

- Site tests and new installations;
- High-site maintenance work; and
- Wireless network trouble shooting.

Skills, Qualifications and General Requirements:

- Grade 12 as well as N+ qualification;
- A valid driver's license;
- Experience in a similar position will be advantageous;
- Technical-minded orientated; and
- Excellent communication skills.

InfoGro offers the appropriate candidate a competitive package based on total cost to company

Interested persons may forward an abbreviated CV to Mauritz Coetzee via e-mail at mauritze@infogro.co.za. Please use the relevant reference number for the position you are applying for.

Closing date: Monday, 26 May 2014.

If you have not heard from us in 30 days, you can assume that your application was unsuccessful.

In line with IT

www.infogro.co.za



Photographs as proof

Annexure H4

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

Notice is given of an application for an **Environmental Impact Assessment Process** that was submitted to the North West Department of Economic Development, Environment, Conservation and Tourism, in terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) governing **Environmental Impact Assessment Procedures (Listing Notice: 1, 2 and 3 – Government Notice R544, R545 & R546)** for the following activity:

Reference No: NWP/EIA/80/2013

Project Name: Q4 City Filling Stations

Property Description: On Portions 22 & 41 of the Farm Schieffontein 437 JQ

Project Description: Two filling stations situated north and south of the N4 Highway with a total fuel capacity of 644 m³. The filling stations with associated uses will serve the N4 traffic between Pretoria and Rustenburg.

Listing Activities Applied for:

GNR 544 (Listing Notice 1), 18 June 2010	Activity 9
GNR 544 (Listing Notice 1), 18 June 2010	Activity 11
GNR 544 (Listing Notice 1), 18 June 2010	Activity 18
GNR 544 (Listing Notice 1), 18 June 2010	Activity 22
GNR 544 (Listing Notice 1), 18 June 2010	Activity 23
GNR 545 (Listing Notice 2), 18 June 2010	Activity 3
GNR 546 (Listing Notice 3), 18 June 2010	Activity 4
GNR 546 (Listing Notice 3), 18 June 2010	Activity 13
GNR 546 (Listing Notice 3), 18 June 2010	Activity 16

Proponent Name: Q4 Chemicals (Pty) Ltd

Location: The two fillings stations will be separated by the N4 Highway between Pretoria and Brits in the north west province. They are situated approximately 2.5 km from the Brits Toll Plaza to the west of the proposed filling stations.

Date of Notice: 22 May 2014 – 30 June 2014

Queries regarding this matter should be referred to:

Bokamoso Landscape Architects and Environmental Consultants CC

Public Participation registration and inquiries: **Juanita De Beer**

Project inquiries: **Mary-Lee van Zyl**

P.O. Box 11375

Maroelana 0161

www.bokamoso.biz

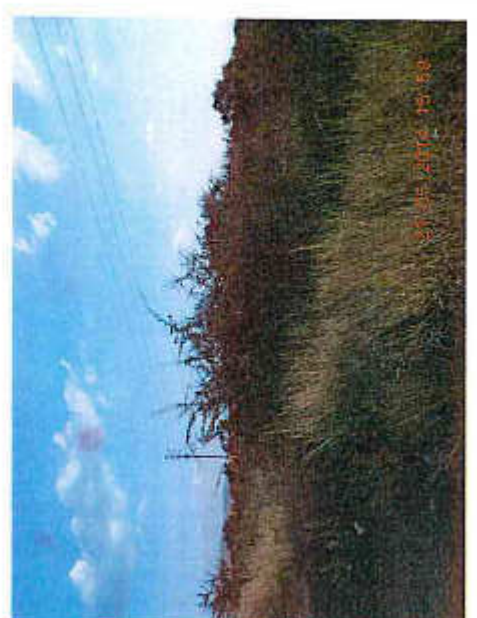
Tel: (012) 346 3810

Fax: (086) 570 5659

E-mail: lizelleg@mweb.co.za

In order to ensure that you are identified as an Interested and/or Affected Party (I&AP) please submit your name, contact information and interest in the matter, in writing, to the contact person given above **within 40 days of this Notice**.





Communication to and from Interested and Affected Parties

Annexure H5

LEBOMBO GARDEN BUILDING
38 LEBOMBO ROAD
ASHLEA GARDENS
0081

P.O. BOX 11375
MAROELANA
0161

Tel: (012) 346 3810
Fax: 086 570 5659
E-mail: lizelleg@mweb.co.za
Website: www.bokamoso.net



De Wildt Helpmekaar Maatskappy NPC
161, De Wildt 0251
Tel. Nr: 012 525 1034
Fax Nr: 086 662 2330

20th November 2015

ATTENTION: Mr Johan Oosthuysen
Director Tshwane and Vice Chairman De Wildt Helpmekaar Company

RE: THE APPLICATION FOR ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED Q4 FILLING STATIONS WITH A TOTAL CAPACITY OF 644m² ON PORTIONS 22 AND 41 OF THE FARM SCHIETFONTEIN 437 JQ, LISTED ACTIVITIES NUMBER 9, 11, 22 AND 23 IN GN. NO R.544 AND 4, 13 AND 16 IN GN. NO. R546, MADIBENG LOCAL MUNICIPALITY, NORTH WEST PROVINCE.

Good day Mr Oosthuysen,

The abovementioned Application as well as your letter dated 25th August 2015, refer. Bokamoso Environmental would like to reassure your Company that we are aware of the fact that a water use license in terms of Section 21 of the National Water Act (Act 36 of 1998), will be required for the Abstraction of water and for the proposed on-site sanitation system. We are in a process of obtaining the water use license.

We would also like to mention that a Q4 – Fuels Water Supply and Baseline Risk Assessment had been conducted on the site of the Proposed Development by a suitably qualified Geo-hydrologist. An Engineering Geological Investigation for this Proposed Development had also been completed. Please take note that we are registering your Company as an Interested & Affected Party in our Water Use License Application Process and we will furnish you with a copy of the Application as soon as it has been completed.

We trust that the above meets with your approval. Should you have any other questions relating to the aforementioned, please do not hesitate to contact us. Also kindly confirm receipt of this letter.

Kind regards,

Loura du Toit (On behalf of MS Anè Agenbacht – Project Manager)

From: Juanita <user3@bokamoso.net>
Sent: 06 August 2015 08:34 AM
To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; 'SiwelaneL@dws.gov.za'; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; 'central@eskom.co.za'; 'paia@eskom.co.za'; 'schmidk@nra.co.za'; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; motlalekgomommope@madibeng.gov.za; loveous.tampane@transnet.net; vanwykJ@nwpg.gov.za; smotsaneng@yahoo.com; 'johan@calcuplan.com'; strausslynette@gmail.com; riamclellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; 'praxis@mweb.co.za'; nkhumalo@sahra.org.za
Subject: Q4 City Filling Station - EIA Public Participation Process
Attachments: Public Notice EIA.pdf

Dear Interested and/or Affected Party Member,

Please refer to the attached Public Notice regarding the Environmental Impact Assessment (EIA) Phase for the proposed **Q4 City Filling Stations** Project.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizalleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: marylee@bokamoso.net
Sent: 07 October 2015 08:53 AM
To: nkhumalo@sahra.org.za
Cc: Bianca Reyneke
Subject: RE: Case 6144 and Case 5702

Hi Nokukhanya,

Case 5702, Q4 City Filling Stations, and your email below has reference.

The Draft EIA Report for Q4 City Filling Stations, which will include specialist studies, has not yet been submitted to the Department or the Interested and Affected Parties. The process is still on going and as soon as the Draft EIA Report is available for review you will be notified.

Another consultant will revert back to you with regards to the other case.

Trust you find the above in order.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



Landscape Architects & Environmental Consultants cc

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.biz

36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Please consider the environment before printing this email

From: Nokukhanya Khumalo [<mailto:nkhumalo@sahra.org.za>]

Sent: 05 October 2015 08:55 AM

To: Bokamoso

Subject: Case 6144 and Case 5702

Good day

This email is to enquire about the following cases on SAHRIS:
Q4 Filling Stations case 5702 Groblersdal X35 Mixed Use Development case 6144

These cases status to submitted however the EIA and the Heritage reports were not submitted to the case. Please let me know if these developments have still in the approvals process, for now I will place the cases back to studies pending until the heritage report are uploaded to the case.

Kind Regards,

--

Ms Nokukhanya Khumalo [BA Hons in Archaeology]
Heritage Officer: Archaeology, Palaeontology & Meteorites Unit
South African Heritage Resources Agency
111 Harrington Street
Cape Town
8001
Tel: 021 462 4502

Direct Line: 021 202 8654
Fax: 021 462 4509

This electronic communication and its content(s) are subject to a disclaimer which can be accessed on the following link:
<http://mail.sabra.org.za/disclaimer.html>

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Scanned. No Viruses Found. Copyright © 2014 iSheriff. All rights reserved.

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 07 August 2015 02:21 PM
To: 'dewildthelpmekaar@gmail.com'
Cc: 'johan@calcuplan.com'
Subject: RE: Q4 City Filling Station - EIA Public Participation Process

Dear DWHM,

Please note that you are registered as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

We will keep you updated regarding the process in the future.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizalleg@mweb.co.za | www.bokamoso.biz
38 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375, Maroelana 0161

From: Johan [<mailto:johan@calcuplan.com>]
Sent: 07 August 2015 10:40 AM
To: 'Bokamoso'
Cc: DWHM
Subject: RE: Q4 City Filling Station - EIA Public Participation Process

Morning Juanita!

Please ensure that DWHM is also registered as I&AP.

Groete / Regards

Johan van Rensburg

**Calcuplan Town Planners/Stadsbeplanners
Environmental Consultants/Omgewingskonsultante
Petroleum Applications/Aansoeke**
C: 083 491 2793

F: 086 647 2640

(no land lines due to cable theft)

[Now on satellite internet]



Calcuplan



Please consider the environment before printing this e-mail.

From: Bokamoso [<mailto:lizelle@mwweb.co.za>]

Sent: 06 August 2015 08:34

To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; Siwelanel@dws.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; central@eskom.co.za; paia@eskom.co.za; schmidk@nra.co.za; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; mottalekqomommope@madibeng.gov.za; loveous.tampane@transnet.net; vanwyk@nwpq.gov.za; smotsaneng@yahoo.com; johan@calcuplan.com; strausslynette@gmail.com; riamcdellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mwweb.co.za; nkhumalo@sahra.org.za

Subject: Q4 City Filling Station - EIA Public Participation Process

Dear Interested and/or Affected Party Member,

Please refer to the attached Public Notice regarding the Environmental Impact Assessment (EIA) Phase for the proposed **Q4 City Filling Stations** Project.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5689 | E: lizelle@mwweb.co.za | www.bokamoso.biz
36 Labombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375, Marolana 0161

From: Bokamoso <lizelleg@mweb.co.za>
Sent: 07 August 2015 01:29 PM
To: jitske@telkomsa.net
Subject: RE: Q4 City Filling Station - EIA Public Participation Process

Good day Jitske,

Please note that this is the public participation period for the EIA phase of the Q4 City Filling Stations project. The Draft EIA Report is not yet available for review. The review period of the Draft EIA Report will be communicated to all Interested and Affected Parties and Stakeholders.

Trust you find the above in order. Please do not hesitate to contact us should you have further questions.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Please consider the environment before printing this email

From: Jitske [<mailto:jitske@telkomsa.net>]
Sent: 07 August 2015 11:04 AM
To: 'Bokamoso'
Cc: gwen.theron@telkomsa.net
Subject: RE: Q4 City Filling Station - EIA Public Participation Process

Hi Lizelle

Thank you very much.

I have checked your website but I don't see the report there, can you otherwise please place it in a dropbox for me.

Kind regards
Jitske

From: Bokamoso [<mailto:lizelleg@mweb.co.za>]
Sent: 06 August 2015 08:34 AM
To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za;

Siwelanel@dws.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; central@eskom.co.za; paia@eskom.co.za; schmidk@nra.co.za; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; motlalekgomommope@madibeng.gov.za; loveous.tampane@transnet.net; vanwykJ@nwpg.gov.za; smotsaneng@yahoo.com; johan@calcuplan.com; strausslynette@gmail.com; riamcdellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za

Subject: Q4 City Filling Station - EIA Public Participation Process

Dear Interested and/or Affected Party Member,

Please refer to the attached Public Notice regarding the Environmental Impact Assessment (EIA) Phase for the proposed **Q4 City Filling Stations** Project.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
38 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Marcellana 0161



This email has been checked for viruses by Avast antivirus software.
www.avast.com

From: Juanita <user3@bokamoso.net>
Sent: 17 August 2015 10:38 AM
To: 'gwen.theron@telkomsa.net'
Subject: RE: Q4 City Filling Station - EIA Public Participation Process

Dear Dr Gwen Theron,

Please note that this is the public participation period for the EIA phase of the Q4 City Filling Stations project. The Draft EIA Report is not yet available for review. The review period of the Draft EIA Report will be communicated to all Interested and Affected Parties and Stakeholders.

Trust you find the above in order. Please do not hesitate to contact us should you have further questions.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 88 570 5659 | E: zelleq@mweb.co.za | www.bokamoso.biz

From: Dr Gwen Theron [<mailto:gwen.theron@telkomsa.net>]
Sent: 16 August 2015 10:32 PM
To: 'Bokamoso'; jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; SiwelaneL@dws.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; central@eskom.co.za; paia@eskom.co.za; schmidk@nra.co.za; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; motlalekgomommope@madibeng.gov.za; loveous.tampane@transnet.net; vanwykJ@nwpg.gov.za; smotsaneng@yahoo.com; johan@calcuplan.com; strausslynette@gmail.com; riamclellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za
Subject: RE: Q4 City Filling Station - EIA Public Participation Process

Juanita
I tried the website indicated on the notice nad it is not reachable
Please revert
Gwen



LEAP

Dr. Gwen Theron • Prt Arch No 97092
Landscape Architect • Environmental Planner
Inkribank cc: 2010/089810/23 • P.O. Box 13185, Hatfield 0028
012 343 2751 tel • cell 083 302 2116
086 606 6130 fax • gwen.theron@telkomsa.net



From: Bokamoso [<mailto:lizelleg@mweb.co.za>]

Sent: 06 August 2015 08:34 AM

To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; Siwelanel@dws.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; central@eskom.co.za; paia@eskom.co.za; schmidk@nra.co.za; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; mottalekgomommope@madibeng.gov.za; loveous.tampane@transnet.net; vanwykJ@nwpg.gov.za; smotsaneng@yahoo.com; johan@calcuplan.com; strausslynette@gmail.com; riamclellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za

Subject: Q4 City Filling Station - EIA Public Participation Process

Dear Interested and/or Affected Party Member,

Please refer to the attached Public Notice regarding the Environmental Impact Assessment (EIA) Phase for the proposed **Q4 City Filling Stations** Project.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita <user3@bokamoso.net>
Sent: 17 August 2015 10:43 AM
To: 'gwen.theron@telkomsa.net'
Cc: 'jgrobler@geoscience.org.za'; 'asalomon@sahra.org.za'; 'justicem@dwaf.gov.za'; 'keetm@dwaf.gov.za'; 'Siwelanel@dws.gov.za'; 'siwelanel@dwa.gov.za'; 'tshifaror@dwa.gov.za'; 'MathebeT@dwa.gov.za'; 'central@eskom.co.za'; 'paia@eskom.co.za'; 'schmidk@nra.co.za'; 'mmpshe@randwater.co.za'; 'nkoneigh@randwater.co.za'; 'motlalekgomommope@madibeng.gov.za'; 'loveous.tampane@transnet.net'; 'vanwykJ@nwpg.gov.za'; 'smotsaneng@yahoo.com'; 'johan@calcuplan.com'; 'strausslynette@gmail.com'; 'riamclellan11@gmail.com'; 'andre@adtrp.co.za'; 'tph@tph.co.za'; 'netpet@lantic.net'; 'frans@fuelarama.co.za'; 'kallie@erasmuslaw.com'; 'jitske@telkomsa.net'; 'praxis@mweb.co.za'; 'nkhumalo@sahra.org.za'
Subject: RE: Q4 City Filling Station - EIA Public Participation Process

Dear Dr Gwen Theron,

Please note that this is the public participation period for the EIA phase of the Q4 City Filling Stations project. The Draft EIA Report is not yet available for review. The review period of the Draft EIA Report will be communicated to all Interested and Affected Parties and Stakeholders.

Trust you find the above in order. Please do not hesitate to contact us should you have further questions.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleq@mweb.co.za | www.bokamoso.biz

From: Dr Gwen Theron [<mailto:gwen.theron@telkomsa.net>]

Sent: 16 August 2015 10:32 PM

To: 'Bokamoso'; jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; Siwelanel@dws.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; central@eskom.co.za; paia@eskom.co.za; schmidk@nra.co.za; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; motlalekgomommope@madibeng.gov.za; loveous.tampane@transnet.net; vanwykJ@nwpg.gov.za; smotsaneng@yahoo.com; johan@calcuplan.com; strausslynette@gmail.com; riamclellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za;

kallie@erasmuslaw.com; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za

Subject: RE: Q4 City Filling Station - EIA Public Participation Process

Juanita

I tried the website indicated on the notice nad it is not reachable

Please revert

Gwen



LEAP

Dr. Gwen Theron • P/LArch No 97082
Landscape Architect • Environmental Planner
Imbrilix cc 2010/088610/23 • P.O. Box 13185 Hatfield 0028
012 343 2751 tel • cell 083 302 2116
086 606 6130 fax • gwen.theron@telkomsa.net



From: Bokamoso [<mailto:lizelleg@mweb.co.za>]

Sent: 06 August 2015 08:34 AM

To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; Siwelanel@dws.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; central@eskom.co.za; paia@eskom.co.za; schmidk@nra.co.za; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; motlalekgomommope@madibeng.gov.za; loveous.tampame@transnet.net; vanwykJ@nwpg.gov.za; smotsaneng@yahoo.com; johan@calcuplan.com; strausslynette@gmail.com; riamcclellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za

Subject: Q4 City Filling Station - EIA Public Participation Process

Dear Interested and/or Affected Party Member,

Please refer to the attached Public Notice regarding the Environmental Impact Assessment (EIA) Phase for the proposed **Q4 City Filling Stations** Project.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Labombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroetana 0161

From: Juanita <user3@bokamoso.net>
Sent: 25 November 2014 03:55 PM
To: 'johan@calcuplan.com'; 'strausslynette@gmail.com'; riamclellan11@gmail.com; andre@adtrp.co.za; 'tph@tph.co.za'; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; 'jitske@telkomsa.net'; 'praxis@mweb.co.za'; nkhumalo@sahra.org.za
Subject: Q4 City Filling Stations - Review Notice
Attachments: Review Notice.pdf

Dear Interested and/or Affected Party Members,

Please refer to the attached Review Notice Invitation regarding the proposed Q4 City Filling Stations Project.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

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36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita <user3@bokamoso.net>
Sent: 25 November 2014 03:49 PM
To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; 'central@eskom.co.za'; 'paia@eskom.co.za'; 'schmidk@nra.co.za'; mmpshe@randwater.co.za; 'nkoneigh@randwater.co.za'; loveous.tampane@transnet.net; vanwykJ@nwpg.gov.za; smotsaneng@yahoo.com
Subject: Q4 City Filling Stations - Review Notice
Attachments: Review Notice.pdf

Dear Interested and/or Affected Party Members,

Please refer to the attached Review Notice Invitation regarding the proposed Q4 City Filling Stations Project.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@web.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375, Maroelana 0161

juanita@bokamoso.net

From: Bokamoso <lizelleg@mweb.co.za>
Sent: 27 November 2014 11:53 AM
To: jitske@telkomsa.net
Cc: gwen.theron@telkomsa.net
Subject: RE: Q4 City Filling Stations - Review Notice

Jitske,

Here is the Dropbox Link:

https://www.dropbox.com/s/sfg4ovr0rtdrqt7/Draft%20Scoping%20Report_Q4%20City2.pdf?dl=0

On this side the report can be opened and accessed from the Bokamoso website but for your convenience I send you the link.

Trust this is in order, please let us know whether you are now able to review the report.

Kind Regards.

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Please consider the environment before printing this email

From: Bokamoso [mailto:lizelleg@mweb.co.za]
Sent: 27 November 2014 09:38 AM
To: user2@bokamoso.net
Cc: user1@bokamoso.net
Subject: FW: Q4 City Filling Stations - Review Notice

From: Jitske [mailto:jitske@telkomsa.net]
Sent: 27 November 2014 09:35 AM
To: 'Bokamoso'
Cc: gwen.theron@telkomsa.net
Subject: RE: Q4 City Filling Stations - Review Notice

Good day Mary

When I click on the link it says that the page cannot be displayed. Can you please send me the dropbox link

Kind regards
Jitske

From: Bokamoso [<mailto:lizelleg@mweb.co.za>]
Sent: 27 November 2014 07:23 AM
To: jitske@telkomsa.net
Subject: RE: Q4 City Filling Stations - Review Notice

Good day Jitske,

The Draft Scoping Report is available on our website. Can you not access it there?

Alternatively we can provide you with a Dropbox link?

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Please consider the environment before printing this email

From: Jitske [<mailto:jitske@telkomsa.net>]
Sent: 25 November 2014 05:03 PM
To: 'Bokamoso'
Cc: gwen.theron@telkomsa.net
Subject: RE: Q4 City Filling Stations - Review Notice

Good day Juanita / Lizelle

Can you please provide our offices with an electronic copy of the Draft Scoping Report.

Kind regards
Jitske

From: Bokamoso [<mailto:lizelleg@mweb.co.za>]
Sent: 25 November 2014 03:55 PM
To: johan@calcuplan.com; strausslynette@gmail.com; riamcicellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za
Subject: Q4 City Filling Stations - Review Notice

Dear Interested and/or Affected Party Members,

Please refer to the attached Review Notice Invitation regarding the proposed Q4 City Filling Stations Project.

Kind Regards/Vriendelike Groete

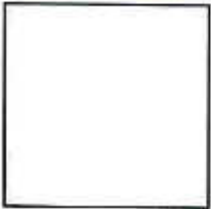
Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 88 570 5659 | E: lizelle@mwweb.co.za | www.bokamoso.net
39 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroefana 0181



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This email is free from viruses and malware because [avast! Antivirus](#) protection is active.

juanita@bokamoso.net

From: Bokamoso <lizelleg@mweb.co.za>
Sent: 27 November 2014 07:23 AM
To: jitske@telkomsa.net
Subject: RE: Q4 City Filling Stations - Review Notice

Good day Jitske,

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Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

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From: Jitske [<mailto:jitske@telkomsa.net>]
Sent: 25 November 2014 05:03 PM
To: 'Bokamoso'
Cc: gwen.theron@telkomsa.net
Subject: RE: Q4 City Filling Stations - Review Notice

Good day Juanita / Lizelle

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Kind regards
Jitske

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Sent: 25 November 2014 03:55 PM
To: johan@calcuplan.com; strausslynette@gmail.com; riamcledlan1@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za
Subject: Q4 City Filling Stations - Review Notice

Dear Interested and/or Affected Party Members,

Please refer to the attached Review Notice Invitation regarding the proposed Q4 City Filling Stations Project.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

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38 Labombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161



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Interim Comment

In terms of Section 38(8) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Q4 Chemicals (Pty) Ltd

Two filling stations situated north and south of the N4 Highway with a total fuel capacity of 644 m3. The filling stations with associated uses will serve the N4 traffic between Pretoria and Rustenburg.

Thank you for notifying SAHRA on the proposed Q4 City Filling Station in Schietfontein, north of the Magaliesburg mountain range, located on a Part of Portion 22 and a part of Portion 41 of the farm Schietfontein 437 JQ, Madibeng Local Municipality, North-West Province. The development consists of rezoning of 7 hectares of agricultural land for both portions of land for the filling stations on both sides of the N4 Freeway and the M21 Lucas Mangope Drive.

In terms of the National Heritage Resources Act, no 25 of 1999, heritage resources, including archaeological or palaeontological sites over 100 years old, graves older than 60 years, structures older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resources authority. This means that before such sites are disturbed by development it is incumbent on the developer to ensure that the heritage authority is informed of the development and, where deemed necessary by the heritage authority, a **Heritage Impact Assessment** is done. This may include the archaeological component (Phase 1) any other applicable heritage components. Appropriate (Phase 2) mitigation, which involves recording, sampling and dating sites that are to be destroyed, must be done as required.

This development lies in the wider surrounding area where there is known archaeological resources, so there is a likelihood of there being archaeological resources on the site proposed for development. Thus a Heritage Impact Assessment is requested by SAHRA to assess and find any potential heritage resources on the development site and to determine the impacts the development might have on those resources.

SAHRA exempts this project from a Palaeontological Impact Assessment, because the location of the filling station development lies on land that has a negligible palaeontological sensitivity.

SAHRA APM Unit will make further comment on this case, once the following documents are submitted to this case:

- A full HIA report document that includes a AIA (Archaeological Impact Assessment), this report must follow the SAHRA minimum standards of HIA reports

(
<http://www.sahra.org.za/sites/default/files/website/articledocs/ASG2-2%20SAHRA%20A%26PIAs%20MIN%20STDS%20Ph1-2%2016May07.pdf>). Click on this link if you are not sure of the minimum standards. However this report and assessment must be done by a professional archaeologist, who is already familiar with the minimum standards. If you are not sure of where to find an archaeologist, we suggest searching in



Q4 City Filling Stations

Our Ref:

Enquiries: Nokukhanya Khumalo
Tel: 021 462 4502
Email: nkhumalo@sahra.org.za
CaseID: 5702

Date: Friday October 17, 2014

Page No: 2



<http://www.asapa.org.za/uploads/files/crm-list-october.pdf>.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully



Nokukhanya Khumalo
Heritage Officer
South African Heritage Resources Agency



Colette Scheermeyer
SAHRA Head Archaeologist
South African Heritage Resources Agency

ADMIN:

Direct URL to case: <http://www.sahra.org.za/node/164367>
(DEDECT, Ref: NWP/EIA/80/2013)



The South African Heritage Resources Agency

Street Address: 111 Harrington Street, Cape Town 8000 * Postal Address: PO Box 4637, Cape Town 8000
* Tel: +27 21 462 4502 * Fax: +27 21 462 4509 * Web: <http://www.sahra.org.za>

LEBOMBO GARDENS BUILDING
36 LEBOMBO ROAD
ASHLEA GARDENS
0081

P.O. BOX 11375
MAROELANA
0161

Tel: (012) 346 3810
Fax: 086 570 5659
E-mail: lizolleg@mweb.co.za
Website: www.bokamoso.biz



Landscape Architects, Environmental Consultants,
Environmental Auditing, Water License Applications

**Madibeng Local Municipality
Department of Community Services
Civic Centre
53 Van Velden Street
Brits
0250**

Tel: 012 318 9100

**ATTENTION: Mpho Magasa
Email: mphomagasa@madibeng.gov.za**

15 August 2014

**RE: PROPOSED ENVIRONMENTAL IMPACT ASSESSMENT ON PORTIONS 22
AND 41 OF THE FARM SCHIETFONTEIN 437 JQ**
Reference number: NWP/EIA/80/2013

Your letter dated 27 May 2014 has reference.

Thank you for your comments on the project.

In your letter it is queried whether all the filling stations in Brits town was taken into consideration, you refer to ± 18 existing filling stations and five proposed filling stations. Filling stations in the surrounding area was notified as part of the Public Participation process, however could you kindly provide us with these existing and proposed filling stations to ensure that all have been notified?

On the last page of your letter there is a comment stating that all environmental related documentations such as the Madibeng EMF 2010 and Madibeng SDF 2009 should be taken into consideration when conducting the reports. Would you please provide us with copies of these documents?

Your response in this regard will be greatly appreciated.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mary-Lee van Zyl', with a small dot at the end.

Mary-Lee van Zyl

**Bokamoso Landscape Architects
and Environmental Consultants CC**

TRANSMISSION REPORT

P.1

(MON) SEP 29 2014 14:27

User /Account :
DESTINATION : Fax
DEST. NUMBER : 0123189203
F-CODE :
SELF-TEL # : 0124607070
PAGES : 3page
RESULT : OK

DOCUMENT # : 7619634-061
TIME STORED : SEP 29 14:19
TX START : SEP 29 14:25
DURATION : 1min.27sec
COM. MODE : G3

LEBOMBO GARDEN BUILDING
38 LEBOMBO ROAD
ASHLEA GARDENS
0081

P.O. BOX 11376
MARCELINA
0161

Tel: 0121 346 3810
Fax: 086 570 6659
E-mail: lxh@leg@arweb.co.za
Website: www.bekammosine.net



Fax Sheet. Fax Sheet. Fax Sheet. Fax Sheet.

29 September 2014

ATTENTION Mpho Magasa

LEBOMBO GARDEN BUILDING
36 LEBOMBO ROAD
ASHLEA GARDENS
0081

P.O. BOX 11375
MAROELANA
0161

Tel: (012) 346 3810
Fax: 086 570 5659
E-mail: lizelleg@mweb.co.za
Website: www.bokamoso.net



Fax Sheet. Fax Sheet. Fax Sheet. Fax Sheet.

29 September 2014

ATTENTION Mpho Magasa

Madibeng Local Municipality
Department of Community Services
Tel: 012 318 9100
Fax: 012 318 9203
Email: mphomagasa@madibeng.gov.za

Pages: 3 (Including cover page)

**RE: PROPOSED ENVIRONMENTAL IMPACT ASSESSMENT ON PORTIONS 22 AND 41
OF THE FARM SCHIETFONTEIN 437 JQ**
Reference number: NWP/EIA/80/2013

Yours faithfully,

Lizelle Gregory
Bokamoso Landscape Architects and Environmental Consultants CC

From: Juanita <user3@bokamoso.net>
Sent: 15 July 2014 12:15 PM
To: 'kallieerasmus@gmail.com'; 'kallie@icon.co.za'
Subject: Q4 Filling Stations - Filling Station Notification
Attachments: Interested and Affected Party Letter.pdf; Public Notice EIA.pdf

Dear Interested and/or Affected Party Members,

Please refer to the attached Public Notice & Letter regarding the proposed Q4 Filling Stations.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleq@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita <user3@bokamoso.net>
Sent: 07 July 2014 10:41 AM
To: 'totalbrits@lantic.net'; 'sasolbrits@webmail.co.za'; 'sasolcentral@gmail.com';
'umfula@pecico.co.za'; 'finance@dreierscc.co.za'; 'rosspetro@worldonline.co.za';
'fmpoelie@mweb.co.za'; 'sasoldor@mweb.co.za'; 'jjvuuren@eris.co.za'; 'theo549
@gmail.com'
Subject: Q4 Filling Stations - Filling Station Notification
Attachments: Interested and Affected Party Letter.pdf; Public Notice EIA.pdf

Dear Interested and/or Affected Party Members,

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Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
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36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita <user3@bokamoso.net>
Sent: 08 July 2014 01:53 PM
To: 'netpet@lantic.net'
Subject: RE: APPEAL AGAINST Q4 FILLING STATIONS
Attachments: Public Notice EIA.pdf

Dear P.J.J Pienaar Brandstofgroep,

Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

I have noted your comments on our Issues and Comments Register.

Please refer to the attached Public Notice for more information regarding the proposed development.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
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T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Pine Pienaar [<mailto:netpet@lantic.net>]
Sent: 08 July 2014 01:19 PM
To: lizelleg@mweb.co.za
Subject: APPEAL AGAINST Q4 FILLING STATIONS

Hereby P.J.J Pienaar Brandstofgroep lodge a formal appeal against the erecting of the Q4 Filling Station on/or next to the N4 – between Pretoria and Rustenburg.

P.J.J Pienaar Brandstofgroep

Tel - 012 252 7961

Cell - 082 789 5131

Faks - 086 270 7492

Email - netpet@lantic.net



juanita@bokamoso.net

From: Bokamoso <lizelle@mweb.co.za>
Sent: 14 July 2014 08:45 AM
To: netpet@lantic.net
Cc: totalbrits@lantic.net
Subject: RE: Q4 - FILLING STATIONS

Good day,

The telephonic conversation this morning with Daleen Swanepoel has reference.

Thank you for your comment on the public notice.

I did have another look at the notice and noted that it states that the Brits Toll Plaza is to the west of the proposed filling stations (study site). However, the proposed filling stations is also east of the Toll Plaza. Therefore both statements are correct, depending on whether it is taken from the toll plaza or the study site.

Trust you find the above in order.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Please consider the environment before printing this email

From: Juanita [mailto:user3@bokamoso.net]
Sent: 11 July 2014 02:53 PM
To: user2@bokamoso.net
Subject: FW: Q4 - FILLING STATIONS

From: Bokamoso [mailto:lizelle@mweb.co.za]
Sent: 08 July 2014 01:52 PM
To: user3@bokamoso.net

Cc: user1@bokamoso.net

Subject: FW: Q4 - FILLING STATIONS

From: Pine Pienaar [<mailto:netpet@lantic.net>]

Sent: 08 July 2014 01:23 PM

To: lizelleq@mweb.co.za

Subject: Q4 - FILLING STATIONS

The notice is not correct, it is 2.5 km EAST of the Brits Toll Plaza.....and not WEST.....

P.J.J Pienaar Brandstofgroep

Tel - 012 252 7961

Cell - 082 789 5131

Faks - 086 270 7492

Email - netpet@lantic.net



From: Juanita <user3@bokamoso.net>
Sent: 16 April 2015 09:06 AM
To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; 'central@eskom.co.za'; 'paia@eskom.co.za'; 'schmidk@nra.co.za'; mmpshe@randwater.co.za; 'nkoneigh@randwater.co.za'; 'motlalekgomompope@madibeng.gov.za'; loveous.tampane@transnet.net; vanwykj@nwpg.gov.za; smotsaneng@yahoo.com; 'johan@calcuplan.com'; strausslynette@gmail.com; riamclellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za
Subject: Q4 City Filling Stations - Final Review Invitation Notice
Attachments: Review Notice.pdf

Dear Interested and/or Affected Party Member,

Please refer to the attached Final Review Invitation Notice regarding the proposed **Q4 City Filling Stations** Project.

The period of 21 days allowed for your review and comment is from Today, 16 April 2015 - 8 May 2015.

Your comments should be sent directly to Bokamoso attention Mary-Lee van Zyl or Juanita de Beer before the expiring date.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

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Subject: BID Information - Q4 City Filling Stations
Attachments: Q4 City_BID Oct 2014.pdf

Dear Interested and/or Affected Party Member,

Please refer to the attached BID (Background Information Document) regarding the proposed *Q4 City Filling Stations* Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

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water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Provincial Operations: North West, Cnr Dr. James Moroka Drive and Sekame Road, Megacity Shopping Centre, Unit no. 99, Ground Floor, Private Bag x5, Mmabatho, 2735; Tel (018) 387 9500, Fax: (018) 392 2998/384 0913, www.dwa.gov.za

Fax: (012) 207 9914	✉ P/B X357	✉ Thabakgolo Bopape
Cell: 083 854 1937	HARTBEESPOORT	☎ (012) 207 9911
Email bopapet@dwa.gov.za	0216	📁 16/2/7/A210/B616

Bokamoso Environmental Consultants
P.O. Box 11375
Maroelana
0161
Tel: (012) 346 3810
Fax: (086) 570 5659
Email: Lizelleg@mweb.co.za

Attention: Mary-Lee van Zyl

RE: DRAFT SCOPING REPORT FOR THE PROPOSED Q4 CITY FILLING STATION WITH THE TOTAL CAPACITY OF 644M3 ON THE FARM SCHIETFONTEIN 437 JQ MADIBENG LOCAL MUNICIPALITY; REF NUMBER: NWP/EIA/80/2013

Reference is made to Draft Scoping Report and the letter dated 26 November 2014 submitted to this office requesting comments.

In order to make an informed decision, the following details must be provided in the final Environmental Impact Assessment Report:

1. The impact of the proposed development on the receiving environment as well as the proposed mitigation.
2. Detailed information with regard to the source of water for the above mentioned development.
3. Detailed information of sewage treatment and disposal method during construction and operational phases of the project.
4. Detailed information of the storm water management plan/system and erosion control measures.
5. A detailed site layout plan indicating ecologically sensitive areas must be submitted to this Department
6. Identification of any environmental sensitive area and water resources such as wetlands, streams, rivers, etc. as well as possible pollution impacts and mitigation measures of such water resources.

7. Management of solid waste and hazardous waste materials generated during construction, operational and post construction phase.
8. Environmental Management Plan
9. Spillage contingency plans
10. Geotechnical investigation report
11. Detailed information regarding the 1:100 year flood line.

This Department await for the above details in order to provide more detailed comments

Should you require any further assistance or clarity with regard to the information required, please do not hesitate to contact this office at the contact details provided.

Yours Sincerely



.....
PROVINCIAL HEAD: NORTH WEST OPERATION

DATE: 22/04/15



Madibeng

Local Municipality

PO Box 106
BRITS
0250
Tel: 012 318 9100
Fax: 012 318 9203
e-mail:
registry@madibeng.gov.za

Reference	18/1/3/2/5
Contact Person	M.T Magasa

Civic Centre
53 Van Velden Street
BRITS

13th January 2015

Bokamoso Landscape Architects,
Environmental Consultants CC
PO Box 11375
Maroelana
0161

TEL : 012 346 3810
FAX : 086 570 5659

Email : lizelleq@mweb.co.za

Sir/Madam

DRAFT SCOPING REPORT FOR THE PROPOSED Q4 CITY FILLING STATION WITH THE TOTAL CAPACITY OF 644m³ ON THE FARM SCHIETFOTEIN 437 JQ, MADIBENG LOCAL MUNICIPALITY, REF NUM: NWP/EIA/80/2013

Your document dated 26 November 2014 with reference number. NWP/EIA/80/2013 has reference.

The Department of Community Services within the Madibeng Local Municipality (Waste and Environmental Management division) received the report on the 15 December 2014 and evaluated the report in terms of National Environmental Management Act (Act 107 of 1998), EIA Regulations and other legislations governing the EIA Regulations.

The Draft Scoping received from Bokamoso Landscaping Architects & Environmental Consultants refers:

Description of the Project:

The proposed activity involves the construction of two filling stations adjacent to the Bakwena Platinum Freeway. The construction will take place concurrently on portion 22 and 41 of the Farm Schietfotein 437 JQ, North West Province.

The distance mentioned in the report of Petroport being 80KM from the site is incorrect. Petroport is approximately 40km from the site.

Description of Alternatives:

Four alternatives, namely: locality alternative, land use alternative, layout alternative and the no-go alternative have been compared and discussed in the report. However, it is not clear from the Report which alternative is preferred one.

Description and assessment of the identified environmental issues:

The review of the report confirms that the methods followed in the identification and assessment of the impacts is considered to be adequate. In addition, the impacts associated with the proposed development are assessed in terms of the different phases of the proposed development. However, the report states that more detailed assessment will be done during the EIA phases.

Evaluation and presentation of the mitigation measures:

The proposed mitigation measures suggested in the report are inadequate since they are discussed in passing. In addition, no specialist studies are included in the report. However, the report states that Specialist studies will be undertaken and included in the EIA Report which the municipal will be awaiting.

Public Participation Process:

The Public Participation Process was not undertaken in accordance with the EIA regulations. No site photographs are attached in the report showing the 8 cardinal directions.

NB: Please note that in addition to providing information as required by EIA Regulation the following must also be included in the Environmental Impact Assessment Report (EIAR)

- a. Design drawing of the proposed development clearly detailing the following aspects:
 - I. Storm water management;
 - II. Plans to separate clean and dirty storm water;
 - III. Spill management measures;
 - IV. Information on whether that tanks will be single or double walled ; and
 - V. Safety features and mitigation measures.
- b. Discussion on the operation and efficiency of the separator and the type of effluent streams to be treated in the separator and the disposal thereof;
- c. The proposed project must comply with all applicable Sections and Regulations of the National Water Act, 1998 (Act 36 of 1998) and Water Services Act, 1997 (Act 108 of 1997);
- d. Commitment that all storm water to be discharged directly into sewer system will comply with the requirements of Madibeng Local Municipality and the Department of Water Affairs (DWA);
- e. Streams nearby should not be disturbed, should there be a major need to do anything on them, the Department of Water Affairs should be informed.
- f. Written confirmation from the oil company/supplier that the tanks are manufactured in accordance with SANS standards, and that the installation will conform to such standards;

- g. Commitment to comply with the requirements of the Occupational Health and Safety Act 1993 (Act No 83 of 1993);
- h. A detailed discussion on the waste disposal methods (both General waste and hazardous waste) during construction, operation and decommissioning phases of the proposed activity;
- i. Incident Management Plan, including Emergency/Fire Response and Spill response plans approved by the qualified risk consultant and/or local Authority;
- j. Vapour recovery plan, including reporting thereof;
- k. The location of wells and boreholes on site and neighboring properties with an indication of the level of reliance of the neighboring properties on groundwater resources;
- l. The groundwater monitoring boreholes should be drilled and groundwater samples taken for analysis and recorded for reference quality, prior to the operation of the filling station;
- m. Proof that Local Authority confirming waste removal during all stages of the project must be attached in the final EIA report for review;
- n. For all hazardous (and non-hazardous) materials/waste taken off the site for disposal (or incineration or other treatment or reuse) by the proponent or a contractor, the proponent must keep record of details including the type of material, quality, name and other important details tracking the contractor, dates and time of collection of the material and details of use/reuse and "safe disposal certificates;"
- o. A description of the compatibility of the soil type to this type of development, as well as the depth of ground water on site. Attention must be given to expansion and stability properties;
- p. A detailed discussion on the proximity of the proposed area to the perennial and non-perennial rivers and likely impacts that the proposed development might have on these streams; and
- q. A Comprehensive Environmental Management Plan (EMP) for various phases of the proposed activity (i.e. construction, operational and decommissioning phases). The EMP must include a discussion on mitigation measures for all potential impacts as well as the persons responsible for implementing such measures.

Should you have any queries please feel free to contact this office through the details provided above

Yours faithfully



For Municipal Manager

NEM/mtm

juanita@bokamoso.net

From: User1 <user1@bokamoso.net>
Sent: 24 February 2015 03:06 PM
To: user2@bokamoso.net
Subject: FW: SERWETIETPAD

Anè Agenbacht

Senior Environmental Assessment Practitioner / Manager

Tel: 012-346 3810

Cell: 083 533 0420

Email: lizelleg@mweb.co.za (Attention: Anè)



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Bokamoso [<mailto:lizelleg@mweb.co.za>]
Sent: Tuesday, February 24, 2015 9:14 AM
To: user3@bokamoso.net
Cc: user1@bokamoso.net
Subject: FW: SERWETIETPAD

From: Carien De Klerk [<mailto:carien@q4.co.za>]
Sent: 24 February 2015 08:58 AM
To: lizelleg@mweb.co.za
Subject: FW: SERWETIETPAD

More Julie!

Sien hieronder skrywe van padgebruikers soos versoek.

Thanx

Carien de Klerk
Project Manager



carien@g4.co.za

Tel : +27 12 361 5151

Fax : +27 12 361 5150

Cel : +27 82 800 9631

From: jannie gouws [<mailto:janniegouws@yahoo.com>]

Sent: 24 February 2015 07:06 AM

To: Carien De Klerk

Subject: Fw: SERWETIETPAD

Virgin Active Personal Trainer

Jannie Gouws

076 706 2402

janniegouws@virginactive.co.za

On Monday, February 23, 2015 4:53 PM, Ria McLellan <riamclellan11@gmail.com> wrote:

AAN WIE DIT MAG AANGAAN

Hiermee wil ek u graag in kennis stel dat mev ME McLELLAN en die inwoners op Plot 104, Schietfontein, gereelde gebruikers is van die pad ter sprake.

Wees asseblief bewus van die feit dat die pad ons gemeenskap moet toegang gee tot hul huise.

Mag ek onder u aandag bring dat afrit 68 die oorspronklike serwetietpad is en nie die een wat ons tans gebruik nie. Afrit 68 het so verval geraak dat motors nie meer daar kan ry nie.

Groete

Ria McLellan



This email is free from viruses and malware because [avast! Antivirus](#) protection is active.

From: Bokamoso <lizelleg@mweb.co.za>
Sent: 22 May 2014 01:26 PM
To: user1@bokamoso.net; user2@bokamoso.net; user3@bokamoso.net
Subject: FW: Automatic reply: Q4 City Filling Stations - Public Participation Process

From: Central [mailto:Central@eskom.co.za]
Sent: 22 May 2014 11:46 AM
To: Bokamoso
Subject: Automatic reply: Q4 City Filling Stations - Public Participation Process

Dear Eskom Customer

Thank you for using Eskom's e-mail facility. We acknowledge receipt of your e-mail request.

Please note that your request will be resolved within our committed service standards.

Please do not reply to this Automated Response.

Alternatively:

For your convenience, you are welcome to register on our Eskom web Site (www.eskom.co.za) or our Mobile Channel, Customer Service Mobile (**Dial *120*6937566#**) to report faults directly or to submit any query. Our automated system will provide you with a reference number.

Other contact channels include:

Tel No: 8600 ESKOM / 0860037566

Fax No: + 27 86 697 9065

Our **sms** lines are as follows:

Vodacom: + 27 82 941 3707

Cell C: + 27 84 655 5778

MTN: + 27 83 647 1951

I'm part of the 49Million initiative.

<http://www.49Million.co.za>

NB: This Email and its contents are subject to the Eskom Holdings Limited EMAIL LEGAL NOTICE which can be viewed at http://www.eskom.co.za/e-mail_legalnotice

ANDRE DU TOIT**TOWN AND REGIONAL PLANNERS
Property Development Consultants**

Fax/Tel: (014) 576 - 2293
 Fax: 086 - 671 - 6588
 Cell No.: 083-659-4037
 E-mail: andre@adrip.co.za

P.O. Box 1125
 Rant en Dal
 1751

Our Ref.: 6863

Date: - Friday, 06 June 2014

Bokamoso Landscape Architects and Environmental Consultants CC
P.O.BOX 11375
Maroelana
0161

Attention: - Mary-Lee van Zyl

Tell: 012 346 3810
 Fax: 086 570 6659
 Email: lizelle@mweb.co.za

Ref: NWP/EIA/80/2013

**REGISTRING AS INTERESTED AND AFFECTED PARTY TO THE ENVIRONMENTAL
 IMPACT ASSESMENT NOTIFICATION PLACED IN BEELD
 ON 22/05/2014.**

Property Description: - Portion 22 & 41 of the farm Schietfontein 437 JQ
EIA Process - Registration as interested and affected party

1. We register as an interested and affected party to the subject EIA process on behalf of our client Engen Petroleum Limited.
2. We request the Basic Assessment Report (BAR) for the Subject project. Once received we will be in a position to elaborate and comment in the interim in this respect.
3. We reserve our client's right to address your firm or the relevant department on the detail relating to the representations and to further comment and elaborate pertaining to our reasons for registering as I&AP.
4. We await your reply confirming our registration as I&AP's in this regard.
5. It is imperative that you acknowledge receipt of this document in the space provided. Fax the same to 086 671 6588

REGARDS



ANDRE DU TOIT
 TRP (SA) ACTRP/CP

Acknowledge Receipt: -

Signature: _____

Name & Surname: _____

Date: _____

juanita@bokamoso.net

From: Bokamoso <lizelle@mweb.co.za>
Sent: 08 July 2014 01:52 PM
To: user3@bokamoso.net
Cc: user1@bokamoso.net
Subject: FW: Q4 - FILLING STATIONS

Flag Status: Flagged

From: Pine Pienaar [mailto:netpet@lantic.net]
Sent: 08 July 2014 01:23 PM
To: lizelle@mweb.co.za
Subject: Q4 - FILLING STATIONS

The notice is not correct, it is 2.5 km EAST of the Brits Toll Plaza.....and not WEST.....

P.J.J Pienaar Brandstofgroep

Tel - 012 252 7961
Cell - 082 789 5131
Faks - 086 270 7492
Email - netpet@lantic.net



juanita@bokamoso.net

From: Bokamoso <lizelle@mweb.co.za>
Sent: 06 May 2015 03:10 PM
To: user3@bokamoso.net; user2@bokamoso.net
Cc: user1@bokamoso.net
Subject: FW: Q4 City Filling Stations - Final Review Invitation Notice
Attachments: Scoping Report comments 6 May 2015.pdf

Importance: High

From: Beverly Oosthuizen [mailto:tph@tph.co.za]
Sent: 06 May 2015 11:47 AM
To: 'Bokamoso'
Cc: bea@tph.co.za
Subject: RE: Q4 City Filling Stations - Final Review Invitation Notice
Importance: High

[Attention: Mary-Lee / Juanita](#)

Attached hereto for your kind attention please see our letter dated 6 May 2015.

Kindly confirm receipt hereof.

Thank you,

Regards,

Beverly Oosthuizen
The Town Planning Hub CC
Tel: (012) 809 2229
Fax: (012) 809 2090

CONFIDENTIALITY NOTICE: This e-mail may contain confidential information and is intended only for the use of the recipient named above. Should you receive this e-mail in error, please forward it to [tph@tph.co.za] and delete from your in-box. Any disclosure, copying, distribution or action on the contents of this e-mail is strictly prohibited.



From: Bokamoso [mailto:lizelle@mweb.co.za]
Sent: 16 April 2015 09:06
To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; central@eskom.co.za; paia@eskom.co.za; schmidk@nra.co.za; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; motlalekgomommope@madibeng.gov.za; loveous.tampane@transnet.net; vanwykJ@nwpg.gov.za;

smotsaneng@yahoo.com; johan@calcuplan.com; strausslynette@gmail.com; riamclellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za

Subject: Q4 City Filling Stations - Final Review Invitation Notice

Dear Interested and/or Affected Party Member,

Please refer to the attached Final Review Invitation Notice regarding the proposed *Q4 City Filling Stations* Project.

The period of 21 days allowed for your review and comment is from Today, 16 April 2015 - 8 May 2015.

Your comments should be sent directly to Bokamoso attention Mary-Lee van Zyl or Juanita de Beer before the expiring date.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.biz
36 Labombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

6 MAY 2015

OUR REF: TPH14027
YOUR REF: NWP/EIA/80/2013

Tel: (012) 809 2229
Fax: (012) 809 2090
E-mail: bea@tph.co.za

PO Box 11437
SilverLakes
0054
98 Pony Street
TijgerValleiOffice Park
SilverLakes
0054

BOKAMOSO LANDSCAPE ARCHITECTS AND ENVIRONMENTAL CONSULTANTS
PO BOX 11374
MAROELANA
0161

FINAL SCOPING REPORT
PORTION 22 AND 41 OF THE FARM SCHIETFONTEIN 437JQ

With reference to the aforementioned matter.

Kindly be advised that our office has worked through your final Scoping Report, however cannot give informed comments as vital information is still not available on the project.

Please keep our office (on behalf of Total South Africa) listed as an Interested and Affected Party to the application for Environmental Authorisation. We would require a copy of the following documentation:

- Feasibility Study
- Geotechnical Study
- Wetland Study
- Fauna and Flora Study
- Services Report

The following points of concern are raised.

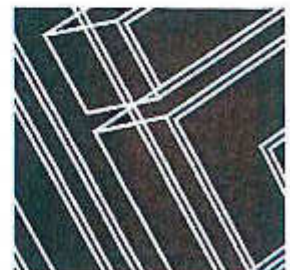
- The application site(s) are earmarked for high grazing potential.
- The application site(s) will negatively affect from the existing filling stations along the N4 highway. The Feasibility is required to be informed on what the estimate fuel losses will be.

Trust you find this in order.

Regards,



BEA FLETCHER (TRP)SA
THE TOWN PLANNING HUB CC



juanita@bokamoso.net

From: Bokamoso <lizelleg@mweb.co.za>
Sent: 16 April 2015 09:36 AM
To: user3@bokamoso.net
Cc: user1@bokamoso.net
Subject: FW: Q4 City Filling Stations - Final Review Invitation Notice

From: Siwelane Lilian (PTA) [mailto:SiwelaneL@dws.gov.za]
Sent: 16 April 2015 09:32 AM
To: Bokamoso
Subject: RE: Q4 City Filling Stations - Final Review Invitation Notice

Good day

Please provide us with the Basic Assessment or EIA report once it is available.

Regards

Lillian

From: Bokamoso [mailto:lizelleg@mweb.co.za]
Sent: 16 April 2015 09:06 AM
To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; Maluleke Justice (GAU); Keet Marius (GAU); Siwelane Lilian (PTA); Tshifaro Rabelani; Mathebe Tshepo (GAU); central@eskom.co.za; paia@eskom.co.za; schmidk@nra.co.za; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; motlalekgomommope@madibeng.gov.za; loveous.tampene@transnet.net; vanwyk@nwpg.gov.za; smotsaneng@yahoo.com; johan@calcuplan.com; strausslynette@gmail.com; riamcleveland11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za
Subject: Q4 City Filling Stations - Final Review Invitation Notice

Dear Interested and/or Affected Party Member,

Please refer to the attached Final Review Invitation Notice regarding the proposed **Q4 City Filling Stations** Project.

The period of 21 days allowed for your review and comment is from Today, 16 April 2015 - 8 May 2015.

Your comments should be sent directly to Bokamoso attention Mary-Lee van Zyl or Juanita de Beer before the expiring date.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12-346 3910 | F: (+27) 86-570-5659 | E: lizalleg@mweb.co.za | www.bokamoso.biz
38 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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Madibeng

Local Municipality

PO Box 106
BRITS
0250
Tel: 012 318 9100
Fax: 012 318 9203
e-mail:
registry@madibeng.gov.za

Reference	18/1/3/2/5
Contact Person	M.T Magasa

Civic Centre 53 Van Velden Street BRITS

27th May 2014

Bokamoso Landscape Architecta
And Environmental Consultants CC
PO Box 11375
Maroelana
0161

TEL : 012 346 3810
FAX : 086 570 5659

Email : lizelleg@rweb.co.za

Sir/Madam

BID-NOTICE OF PROPOSED ENVIRONMENTAL IMPACT ASSESSMENT ON PORTIONS 22 AND 41 OF THE FARM SCHIETFONTEIN 437 JQ.

Your document dated 22 May 2014 with reference number. NWP/EIA/114/2013 has reference.

The Department of Community Services within the Madibeng Local Municipality (Waste and Environmental Management division) received the report on the 23 May 2014 and evaluated the report in terms of National Environmental Management Act (Act 107 of 1998), EIA Regulations and other legislations governing the EIA Regulations and comments are as follows:

- ❖ Kindly register us as interested and affected party in your database.
- ❖ Adjacent landowners to the proposed site must be informed about the proposed project as stipulated in the EIA regulation.
- ❖ All records pertaining to the Public participation Process, meetings and reports must be submitted to the Department of Community services.
- ❖ When the Filing Station Feasibility Study was conducted, were other filing stations within Brits town taken into consideration as the town itself has approximately +- 18 existing service stations and five other still proposed or at the final stage?.

- ❖ All legislations, regulations and laws governing (EIA) (BAR) must be adhered too.
- ❖ All specialist studies which may be required to complete the application must be done and submitted to this Department for comments.
- ❖ If water will be sourced from any borehole/river/stream/ dam to accommodate the proposed project, a water use license must be applied for with the Department of Water Affairs and the following must be done in relation to the boreholes if borehole water will be used:
 - Borehole yielding capability and recharge rate must be done for all boreholes.
 - Borehole census must within the 500m radius of the site.
 - A groundwater monitoring program must be implemented once the operation of the broiling house commence.
- ❖ The proposed filling stations must comply with the following too:
 - Design for the new tanks must be submitted with the report to this department for comments.
 - In case of pollution incident the following offices, Madibeng Local Municipality (Waste and environmental management office) and Department of Water Affairs must be informed immediately.
 - All sections and regulations of the Waste Management Act, 2008 (Act 59 of 2008) and Madibeng Local Municipality Waste By-Laws pertaining to the disposal of waste must be adhered to.
 - The storage tanks must comply with the relevant SANS/SABS Codes of practices.
 - The installation must comply with local authority By-Laws.
 - The tanks must be designed so as to reduce the risk of soil and groundwater contamination.
 - Emergency Response Plan must be drafted, submitted to Madibeng Local Municipality, Fire and Disaster Management Office for approval and must be followed in case of emergency.
 - The tanks must be dipped daily and reconciliation against volume to check for losses due to leakage.
 - The tanks and product lines must be pressure tested prior to commissioning.
 - The storage tanks, pumps, fillers, vents, monitoring wells and dispensers must comply with all relevant SANS/SABS Codes of practices (SANS 10089-2 and Sans 10089-3)
- ❖ The proposed project must comply with all applicable Sections and Regulations of the National Water Act, 198 (Act 36 of 1998) and water Services Act, 1997 (Act 108 of 1997).
- ❖ The Madibeng Local Municipality must approve of the stormwater connection to the existing Municipal infrastructure.
- ❖ Appropriate measures must be made on site to prevent any leachate. In the events of such leachate occurring, immediate steps must be taken for clean-up.

- ❖ No developments may take place on the area of concern without the necessary permits/approvals and/or services agreements, from all relevant authorities.
- ❖ For all hazardous (and non-hazardous) material/waste taken off the site for disposal (or incineration or other treatment or reuse) by the proponent or a contractor, the proponent must keep record of details including the type of material; quantity; name and other important details tracking the contractor, date and time of collection of the material and details of use/reuse and "safe disposal certificates".
- ❖ A Comprehensive Environmental Management Plan (EMP) for various phases of the proposed activity (i.e. construction, operational, decommissioning phases) must be submitted to the department of community Services at Madibeng Local Municipality. The EMP must include a discussion on mitigation measures for all potential impacts as well as the person responsible for implementing such measures.
- ❖ All environmental related documentations e.g. Madibeng EMF 2010, Madibeng SDF 2009 and any other related documentation should be taken into consideration when developing reports.
- ❖ If general waste will be taken to the municipal landfill site, all receipt of dumping should be kept so that as to avoid illegal dumping from your service providers.

Should you have any queries please feel free to contact this office through the details provided above

Yours faithfully



For Municipal Manager

NEM/mtm

juanita@bokamoso.net

From: Mary-Lee <user2@bokamoso.net>
Sent: 28 July 2014 02:04 PM
To: 'Juanita'
Subject: FW: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province
Attachments: Public Notice EIA.pdf; Site Notice EIA.pdf
Flag Status: Flagged

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mwweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Please consider the environment before printing this email

From: Mary-Lee [<mailto:user2@bokamoso.net>]
Sent: 28 July 2014 01:54 PM
To: 'gwen.theron@telkomsa.net'
Subject: RE: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province

Good day Gwen,

Please find attached the notices you requested.

Please note that the Background Information Document (BID) will be sent to you as soon as possible. The Draft Scoping Report, which will contain the application form, is also in the process of being finalised and you will be notified when this report is available for review and comments.

Trust you find all the above in order.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Please consider the environment before printing this email

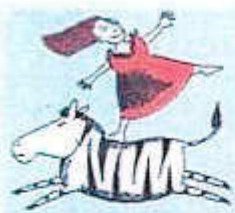
From: Bokamoso [<mailto:lizelleg@mweb.co.za>]
Sent: 25 July 2014 10:26 AM
To: user2@bokamoso.net
Cc: user1@bokamoso.net
Subject: FW: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province

From: Dr Gwen Theron [<mailto:gwen.theron@telkomsa.net>]
Sent: 25 July 2014 10:14 AM
To: 'Bokamoso'; jitske@telkomsa.net
Subject: RE: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province

Dear Juanita

Can you provide me with the Application form, the BID document and any advertisements that had been distributed to date

best Gwen



LEAP

Dr. Gwen Theron • PrLArch No 97082
Landscape Architect • Environmental Planner
Imbrimx cc 2010/086610/23 • P.O. Box 13185, Hatfield 0028
012 343 2751 tel • cell 083 302 2116
086 606 6130 fax • gwen.theron@telkomsa.net



From: Bokamoso [<mailto:lizelleg@mweb.co.za>]
Sent: 25 July 2014 08:25 AM
To: jitske@telkomsa.net
Cc: gwen.theron@telkomsa.net
Subject: RE: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province

Dear Jitske Botes,

Thank you for your response, I have registered Dr. Gwen Theron as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 345 5810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0151

From: Jitske [<mailto:jitske@telkomsa.net>]

Sent: 24 July 2014 03:19 PM

To: 'Bokamoso'

Cc: gwen.theron@telkomsa.net

Subject: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province

Good day Lizelle

We herewith would like to confirm whether Dr. Gwen Theron of LEAP has been registered as an Interested and Affected Party with regards to the above mentioned project, as per the letter from Andre Du Toit dated 02 July 2014.

Herewith confirmation of LEAP's contact details. Please confirm registration in writing:

- Dr. Gwen Theron
- Tel: (012) 343 2751
- Cell: 083 302 2116
- Email: gwen.theron@telkomsa.net
- Fax: 086 606 6130

Please also forward correspondence to jitske@telkomsa.net

Please also provide us with all information with regards to the above mentioned project.

Kind regards,



LEAP

Jitske Boies • UNISA Env Man
Environmental Assessment Practitioner

Imbrilinx cc 2010/089810/23 • P.O. Box 13185, Hatfield 0028

012 343 2751 tel • cell 061 220 2414

086 606 6130 fax • jitske@telkomsa.net



juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 28 July 2014 02:04 PM
To: 'andre@adtrp.co.za'
Cc: 'gwen.theron@telkomsa.net'; jitske@telkomsa.net
Subject: FW: Q4 City Filling Stations - Public Participation Process
Attachments: RE: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province

Dear Andre du Toit,

Please refer to the email below regarding your registration as Interested and/or Affected Party Member and the attached email responding to Dr Gwen Theron.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 348 3810 | F: (+27) 86 570 5659 | E: izelle@mwweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Mamelona 0161

From: Juanita [<mailto:user3@bokamoso.net>]
Sent: 09 June 2014 01:28 PM
To: andre@adtrp.co.za
Subject: Q4 City Filling Stations - Public Participation Process

Dear Andre du Toit,

Thank you for your response, I have registered you (Town and Regional Planners) as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@web.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Marolana 0161

juanita@bokamoso.net

From: Bokamoso <lizelle@mweb.co.za>
Sent: 17 November 2014 10:50 AM
To: motlalekgomommope@madibeng.gov.za; Mpho Magasa
Cc: registry@madibeng.gov.za
Subject: FW: Q4 City Filling Stations
Attachments: SKMBT_C36014081508230.pdf, SKMBT_C36014092914340.pdf

Good day,

Please refer to the below emails as well as the attached letter that was sent to your department on 15 August 2014.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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From: Mary-Lee [mailto:user2@bokamoso.net]
Sent: 29 September 2014 02:32 PM
To: 'mphomagasa@madibeng.gov.za'
Cc: 'registry@madibeng.gov.za'
Subject: FW: Q4 City Filling Stations

Good day Mpho,

Please see the attached letter that was sent to your office on 15 August 2014. Attached is the fax receipt for the letter that was faxed through to your office.

We have not yet received any feedback from your Department.

Hope to hear from you soon.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Please consider the environment before printing this email

From: Mary-Lee [<mailto:user2@bokamoso.net>]
Sent: 15 August 2014 02:59 PM
To: 'mphomagasa@madibeng.gov.za'
Subject: Q4 City Filling Stations

Good morning,

Please find attached to this email a letter for your reference.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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From: Juanita <user3@bokamoso.net>
Sent: 10 June 2014 09:12 AM
To: 'registry@madibeng.gov.za'
Subject: Q4 City Filling Stations - Public Participation Process

Dear M.T Magasa,

Thank you for your response, I have registered Madibeng Local Municipality as an Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

I have noted all your comments on our Issues and Comments Register.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizalleg@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 09 June 2014 01:28 PM
To: andre@adtrp.co.za
Subject: Q4 City Filling Stations - Public Participation Process

Dear Andre du Toit,

Thank you for your response, I have registered you (Town and Regional Planners) as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@nweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 17 November 2014 08:52 AM
To: 'vanwykJ@nwpg.gov.za'
Subject: Q4 City Filling Stations - Public Participation Process
Attachments: Public Notice EIA.pdf; Q4 City_BID Oct 2014.pdf

Dear Interested and/or Affected Member,

Please refer to the attached Public Notice & Background Information Document (BID) regarding the proposed Q4 Filling Stations Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@nwpg.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita <user3@bokamoso.net>
Sent: 22 May 2014 11:46 AM
To: jgrobler@geoscience.org.za; asalomon@sahra.org.za;
'maphata.ramphele@gauteng.gov.za'; 'justicem@dwaf.gov.za';
'keetm@dwaf.gov.za'; 'siwelanel@dwa.gov.za'; 'tshifaror@dwa.gov.za';
'mathebeT@dwa.gov.za'; 'central@eskom.co.za'; 'paia@eskom.co.za';
'schmidk@nra.co.za'; 'kumen.govender@gauteng.gov.za';
mmpshe@randwater.co.za; 'nkoneigh@randwater.co.za';
'motlalekgomommope@madibeng.gov.za'; 'daniel.ramokone@transnet.net';
'loveous.tampane@transnet.net'; 'casperm@tshwane.gov.za';
'smotsaneng@yahoo.com'
Subject: Q4 City Filling Stations - Public Participation Process
Attachments: Public Notice EIA.pdf

Dear Interested and/or Affected Party Member,

Please refer to the attached Public Notice regarding the **two filling stations situated north and south of the N4 Highway with a total fuel capacity of 644 m³. The filling stations with associated uses will serve the N4 traffic between Pretoria and Rustenburg** for the proposed Q4 City Filling Stations Project.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mwweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 19 November 2014 09:21 AM
To: 'johan@calcuplan.com'; strausslynette@gmail.com; riamclellan11@gmail.com; andre@adtrp.co.za; 'tph@tph.co.za'; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za
Subject: Q4 City Filling Stations

Dear Interested and/or Affected Party Member,

Please note that the Draft Scoping Report will soon be available for review.

We will send you a review notice that will contain more details regarding the review process in due course.

Hope this finds you well.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Juanita <user3@bokamoso.net>
Sent: 19 November 2014 09:17 AM
To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; 'central@eskom.co.za'; 'paia@eskom.co.za'; 'schmidk@nra.co.za'; mmpshe@randwater.co.za; 'nkoneigh@randwater.co.za'; 'motlelekgomommope@madibeng.gov.za'; loveous.tampane@transnet.net; vanwykj@nwpg.gov.za; 'smotsaneng@yahoo.com'
Subject: Q4 City Filling Stations

Dear Interested and/or Affected Party Member,

Please note that the Draft Scoping Report will soon be available for review.

We will send you a review notice that will contain more details regarding the review process in due course.

Hope this finds you well.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27) 12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mwweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 08 July 2014 01:53 PM
To: 'netpet@lantic.net'
Subject: RE: APPEAL AGAINST Q4 FILLING STATIONS
Attachments: Public Notice EIA.pdf

Dear P.J.J Pienaar Brandstofgroep,

Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

I have noted your comments on our Issues and Comments Register.

Please refer to the attached Public Notice for more information regarding the proposed development.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5859 | E: lizalleg@mweb.co.za | www.bokamoso.net
38 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Pine Pienaar [<mailto:netpet@lantic.net>]
Sent: 08 July 2014 01:19 PM
To: lizalleg@mweb.co.za
Subject: APPEAL AGAINST Q4 FILLING STATIONS

Hereby P.J.J Pienaar Brandstofgroep lodge a formal appeal against the erecting of the Q4 Filling Station on/or next to the N4 – between Pretoria and Rustenburg.

P.J.J Pienaar Brandstofgroep

Tel - 012 252 7961
Cell - 082 789 5131
Faks - 086 270 7492
Email - netpet@lantic.net



juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 02 February 2015 04:05 PM
To: 'mphomagasa@madibeng.gov.za'
Subject: RE: comments for Q4 filling station

cc

Dear Mpho Magasa,

Thank you for your response, we have noted your comments on our Issues and Comments Register.

Kind Regards/Vriendelike Groete
Juanita De Beer
Public Participation Consultant

Landscape Architects &
Environmental Consultants

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

-----Original Message-----

From: Mpho Magasa [mailto:mphomagasa@madibeng.gov.za]
Sent: 02 February 2015 10:30 AM
To: lizelleg@mweb.co.za
Subject: comments for Q4 filling station

Please receive attached comments from Madibeng Local municipality

Regards

Mpho Magasa
Environmental Specialist:EIA's and Non- Compliance Madibeng Local
Municipality P O Box 106, Brits,0250
Tel: (012) 318 9299 Fax: 086 265 3616 Cell: (072) 4890099
www.madibeng.gov.za

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<http://www.avast.com>

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 13 October 2014 03:24 PM
To: 'nkhumalo@sahra.org.za'
Subject: RE: Environmental information for Case ID 5702 on SAHRIS

Dear Nokukhanya Khumalo,

Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

Please note that we have downloaded the Background Information Document (BID) on your website with more information regarding the proposed Q4 City Filling Stations Project.

Rooihuiskraal X29 – Case 5737 –the same procedure.

We will notify you when the report will be available on your website.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mwweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0181

From: Nokukhanya Khumalo [mailto:nkhumalo@sahra.org.za]
Sent: 13 October 2014 10:57 AM
To: lizelle@mwweb.co.za
Subject: Re: Environmental information for Case ID 5702 on SAHRIS

Morning again

I would like for you to include 5737, it also has no other supporting documents to it, we do require more substantiating information than just a Public Notice letter.

Thank you
Nokukhanya Khumalo

From: "Nokukhanya Khumalo" <nkhumalo@sahra.org.za>
To: lizelleg@mweb.co.za
Sent: Monday, 13 October, 2014 10:52:54 AM
Subject: Environmental information for Case ID 5702 on SAHRIS

Good morning

I am Nokukhanya Khumalo of the SAHRA Archaeology, Paleontology and Meteorites Unit.

I am currently assessing the case Q4 City Filling Stations, Case ID 5702. I was wondering if there is any further information of this development and environmental information. As it stands, we cannot process this case as it has no information on the development footprint and environmental information for us to comment on. For us to complete assessing this case we need further information as soon as it is available, and for it to be uploaded to this case.

Kind regards,
Nokukhanya Khumalo



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juanita@bokamoso.net

From: Bokamoso <lizelle@mweb.co.za>
Sent: 19 February 2015 09:02 AM
To: nkhumalo@sahra.org.za
Subject: RE: Heritage reports for the Q4 filling station

Good day Nokukhanya,

Please note that we are currently in the Scoping phase and the Draft Scoping report was submitted to you for comments. All specialist studies, including the heritage impact assessments, will form part of the EIA phase and will be attached to the Draft EIA report. The Draft EIA report will again be submitted to you for comments.

Trust you find the above in order.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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From: Nokukhanya Khumalo [<mailto:nkhumalo@sahra.org.za>]
Sent: 18 February 2015 04:25 PM
To: Bokamoso
Subject: Heritage reports for the Q4 filling station

Good day

Have the heritage impact assessment been conducted yet.
The case was submitted but the heritage reports that were requested were not submitted.
Please clarify.

Thank you

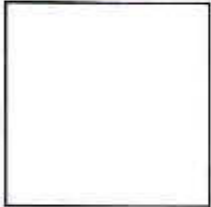
Nokukhanya Khumalo

—
Ms Nokukhanya Khumalo
Heritage Officer: Archaeology, Palaeontology & Meteorites Unit
South African Heritage Resources Agency
111 Harrington Street
Cape Town

8001
Tel: 021 462 4502
Direct Line: 021 202 8654
Fax: 021 462 4509

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juanita@bokamoso.net

From: Bokamoso <lizelle@mweb.co.za>
Sent: 14 July 2014 08:45 AM
To: netpet@lantic.net
Cc: totalbrits@lantic.net
Subject: RE: Q4 - FILLING STATIONS

Good day,

The telephonic conversation this morning with Daleen Swanepoel has reference.

Thank you for your comment on the public notice.

I did have another look at the notice and noted that it states that the Brits Toll Plaza is to the west of the proposed filling stations (study site). However, the proposed filling stations is also east of the Toll Plaza. Therefore both statements are correct, depending on whether it is taken from the toll plaza or the study site.

Trust you find the above in order.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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From: Juanita [<mailto:user3@bokamoso.net>]
Sent: 11 July 2014 02:53 PM
To: user2@bokamoso.net
Subject: FW: Q4 - FILLING STATIONS

From: Bokamoso [<mailto:lizelle@mweb.co.za>]
Sent: 08 July 2014 01:52 PM
To: user3@bokamoso.net

Cc: user1@bokamoso.net

Subject: FW: Q4 - FILLING STATIONS

From: Pine Pienaar [<mailto:netpet@lantic.net>]

Sent: 08 July 2014 01:23 PM

To: lizelleg@mweb.co.za

Subject: Q4 - FILLING STATIONS

The notice is not correct, it is 2.5 km EAST of the Brits Toll Plaza.....and not WEST.....

P.J.J Pienaar Brandstofgroep

Tel - 012 252 7961

Cell - 082 789 5131

Faks - 086 270 7492

Email - netpet@lantic.net



TOTAL



sasol
reaching new frontiers

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 25 July 2014 08:25 AM
To: 'jitske@telkomsa.net'
Cc: 'gwen.theron@telkomsa.net'
Subject: RE: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province

Dear Jitske Botes,

Thank you for your response, I have registered Dr. Gwen Theron as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mwweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Jitske [<mailto:jitske@telkomsa.net>]
Sent: 24 July 2014 03:19 PM
To: 'Bokamoso'
Cc: gwen.theron@telkomsa.net
Subject: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province

Good day Lizelle

We herewith would like to confirm whether Dr. Gwen Theron of LEAP has been registered as an Interested and Affected Party with regards to the above mentioned project, as per the letter from Andre Du Toit dated 02 July 2014.

Herewith confirmation of LEAP's contact details. Please confirm registration in writing:

- Dr. Gwen Theron
- Tel: (012) 343 2751
- Cell: 083 302 2116
- Email: gwen.theron@telkomsa.net
- Fax: 086 606 6130

Please also forward correspondence to jitske@telkomsa.net

Please also provide us with all information with regards to the above mentioned project.

Kind regards,



From: Juanita <user3@bokamoso.net>
Sent: 25 July 2014 08:25 AM
To: 'jitske@telkomsa.net'
Cc: 'gwen.theron@telkomsa.net'
Subject: RE: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province

Dear Jitske Botes,

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We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mwweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Jitske [<mailto:jitske@telkomsa.net>]
Sent: 24 July 2014 03:19 PM
To: 'Bokamoso'
Cc: gwen.theron@telkomsa.net
Subject: Q4 City Filling Stations - Farm Schietfontein 437 JQ - Farm Schietfontein - North West Province

Good day Lizelle

We herewith would like to confirm whether Dr. Gwen Theron of LEAP has been registered as an Interested and Affected Party with regards to the above mentioned project, as per the letter from Andre Du Toit dated 02 July 2014.

Herewith confirmation of LEAP's contact details. Please confirm registration in writing:

- Dr. Gwen Theron
- Tel: (012) 343 2751
- Cell: 083 302 2116
- Email: gwen.theron@telkomsa.net
- Fax: 086 606 6130

Please also forward correspondence to jitske@telkomsa.net

Please also provide us with all information with regards to the above mentioned project.

Kind regards,



LEAP

Jitske Botes • UNSA Env Man
Environmental Assessment Practitioner

Imbrilix cc 2010/089810/23 • P.O. Box 13185, Hatfield 0028

012 343 2751 tel • cell 061 220 2414

086 606 6130 fax • jitske@telkomsa.net



juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 06 May 2015 03:19 PM
To: 'tph@tph.co.za'
Subject: RE: Q4 City Filling Stations - Final Review Invitation Notice

Dear Beverley Oosthuizen,

Thank you for your response, we have noted your comments on our Issues and Comments Register.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5859 | E: izelleo@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Beverley Oosthuizen [<mailto:tph@tph.co.za>]
Sent: 06 May 2015 11:47 AM
To: 'Bokamoso'
Cc: bea@tph.co.za
Subject: RE: Q4 City Filling Stations - Final Review Invitation Notice
Importance: High

Attention: [Mary-Lee / Juanita](#)

Attached hereto for your kind attention please see our letter dated 6 May 2015.

Kindly confirm receipt hereof.

Thank you,

Regards,

Beverley Oosthuizen
The Town Planning Hub CC
Tel: (012) 809 2229

Fax: (012) 809 2090

CONFIDENTIALITY NOTICE: This e-mail may contain confidential information and is intended only for the use of the recipient named above. Should you receive this e-mail in error, please forward it to [tph@tph.co.za] and delete from your in-box. Any disclosure, copying, distribution or action on the contents of this e-mail is strictly prohibited.



From: Bokamoso [<mailto:lizelle@mwweb.co.za>]

Sent: 16 April 2015 09:06

To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; justicem@dwaf.gov.za; keetm@dwaf.gov.za; siwelanel@dwa.gov.za; tshifaror@dwa.gov.za; MathebeT@dwa.gov.za; central@eskom.co.za; paia@eskom.co.za; schmidk@nra.co.za; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; motlalekgomomope@madibeng.gov.za; loveous.tampane@transnet.net; vanwykJ@nwpg.gov.za; smotsaneng@yahoo.com; johan@calcuplan.com; strausslynette@gmail.com; riamclellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mwweb.co.za; nkhumalo@sahra.org.za

Subject: Q4 City Filling Stations - Final Review Invitation Notice

Dear Interested and/or Affected Party Member,

Please refer to the attached Final Review Invitation Notice regarding the proposed **Q4 City Filling Stations** Project.

The period of 21 days allowed for your review and comment is from Today, 16 April 2015 - 8 May 2015.

Your comments should be sent directly to Bokamoso attention Mary-Lee van Zyl or Juanita de Beer before the expiring date.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 6659 | E: lizelle@mwweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

juanita@bokamoso.net

From: Bokamoso <lizelle@mweb.co.za>
Sent: 17 April 2015 12:02 PM
To: SiwelaneL@dws.gov.za
Subject: RE: Q4 City Filling Stations - Final Review Invitation Notice

Good day,

Thank you for the feedback.

Please note that we did submit a copy of the Final Scoping Report to your Department's office in Hartebeestpoortdam as Ms. Lethabo Ramashala is the responsible official.

Trust you find the above in order. Please contact our office if you have any queries in this regard.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

Please consider the environment before printing this email.

From: Siwelane Lilian (PTA) [<mailto:SiwelaneL@dws.gov.za>]
Sent: 16 April 2015 09:32 AM
To: Bokamoso
Subject: RE: Q4 City Filling Stations - Final Review Invitation Notice

Good day

Please provide us with the Basic Assessment or EIA report once it is available.

Regards

Lillian

From: Bokamoso [<mailto:lizelle@mweb.co.za>]
Sent: 16 April 2015 09:06 AM
To: jgrobler@geoscience.org.za; asalomon@sahra.org.za; Maluleke Justice (GAU); Keet Marius (GAU); Siwelane Lilian (PTA); Tshifaro Rabelani; Mathebe Tshepo (GAU); central@eskom.co.za; paia@eskom.co.za; schmidk@nra.co.za; mmpshe@randwater.co.za; nkoneigh@randwater.co.za; motlalekgomommope@madibeng.gov.za; loveous.tampane@transnet.net; vanwykj@nwpq.gov.za; smotsaneng@yahoo.com; johan@calcuplan.com;

strausslynette@gmail.com; riamclellan11@gmail.com; andre@adtrp.co.za; tph@tph.co.za; netpet@lantic.net; frans@fuelarama.co.za; kallie@erasmuslaw.com; gwen.theron@telkomsa.net; jitske@telkomsa.net; praxis@mweb.co.za; nkhumalo@sahra.org.za

Subject: Q4 City Filling Stations - Final Review Invitation Notice

Dear Interested and/or Affected Party Member,

Please refer to the attached Final Review Invitation Notice regarding the proposed **Q4 City Filling Stations** Project.

The period of 21 days allowed for your review and comment is from Today, 16 April 2015 - 8 May 2015.

Your comments should be sent directly to Bokamoso attention Mary-Lee van Zyl or Juanita de Beer before the expiring date.

Kind Regards/Vriendelike Groete

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizalleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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www.avast.com

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 04 June 2014 10:58 AM
To: 'riamclellan11@gmail.com'
Subject: RE: Q4 CITY FILLING STATIONS

Dear Ria Mclellan,

Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleq@mweb.co.za | www.bokamoso.net
36 Labombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Ria Mclellan [<mailto:riamclellan11@gmail.com>]
Sent: 04 June 2014 09:56 AM
To: lizelleq@mweb.co.za
Subject: Q4 CITY FILLING STATIONS

Reference No: NWP/EIA/80/2013

TO WHOM IT MAY CONCERN

Good day

I refer to the abovementioned notice and would like to bring under your attention that the property of the undersigned is close to your project of the proposed two filling stations next to the N4 Highway.

Regards

MRS ME McLELLAN

PLOT 104 SCHIETFONTEIN

Cell nr. 083 953 1800

e-mail: riamclellan11@gmail.com

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 02 June 2014 08:27 AM
To: 'strausslynette@gmail.com'
Subject: RE: Q4 CITY FILLING STATIONS

Geagte Lynette Strauss,

Baie dankie vir jou terugvoering, jy en Johan Strauss is geregistreer as belanghebbende persone vir die voorgestelde Q4 City Filling Stations Projek.

Ons sal julle ophoogte hou in verband met die verdere proses.

Hoop dit is in orde.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.net
38 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Lynette Strauss [<mailto:strausslynette@gmail.com>]
Sent: 01 June 2014 06:21 PM
To: lizelleg@mweb.co.za
Subject: Q4 CITY FILLING STATIONS

Wie dit mag aangaan

Hiermee erken ons ontvangs van u kennisgewings rakende "Q4 City Filling Stations"

Ons is gelee aan die noordelike grens van gedeelte 22 en teen die M21.

Johan Strauss kan gekontak word by 073 655 0585 of per

e-pos by strausslynette@gmail.com

Sal graag verneem van die vordering.

Groete

--

Lynette Strauss

082 6978090



This email is free from viruses and malware because [avast! Antivirus](#) protection is active.

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 19 September 2014 02:31 PM
To: 'praxis@mweb.co.za'
Cc: 'kallieerasmus@gmail.com'; 'kallie@icon.co.za'
Subject: RE: Q4 Filling Stations - Filling Station Notification

Geagte Danie Neumann,

Baie dankie vir jou terugvoering, jy is geregistreer as belanghebbende persoon vir die voorgestelde Q4 Filling Stations Projek.

Ons sal jou ophoogte hou in verband met die verdere proses in die toekoms.

Hoop alles is in orde.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 348 3810 | F: (+27) 86 570 5659 | E: lizalleg@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Danie Neumann [<mailto:praxis@mweb.co.za>]
Sent: 19 September 2014 01:48 PM
To: lizalleg@mweb.co.za
Cc: kallieerasmus@gmail.com; kallie@icon.co.za
Subject: Q4 Filling Stations - Filling Station Notification
Importance: High

Middag Juanita

Ek verwys na ons telefoon gesprek vroeër vanmiddag.

PRAXIS is gevra om saam met Mnr Erasmus deel te vorm van die publieke deelname proses op hierdie projek.

Kan jy my asb dus op hoogte hou van die vordering van die publieke deelname van die projek.

Hou asb Mnr Erasmus ook op hoogte.

Groete

Danie Neumann

MSc, Med. Sci., Pr. Sci. Nat.

MANAGING DIRECTOR

PRAXIS THEORY ENACTED

EQUALITI Health Impact Practitioners (Pty) Ltd t/a PRAXIS - Theory Enacted

P O Box 212

WIERDA PARK

0149

Cell: 074 092 3602

E-Mail: praxis@mweb.co.za

From: **Bokamoso** <lizelle@mweb.co.za>

Date: Tue, Jul 15, 2014 at 12:15 PM

Subject: Q4 Filling Stations - Filling Station Notification

To: kallieerasmus@gmail.com, kallie@icon.co.za

Dear Interested and/or Affected Party Members,

Please refer to the attached Public Notice & Letter regarding the proposed Q4 Filling Stations.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleq@mweb.co.za | www.bokamoso.net
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juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 16 July 2014 08:13 AM
To: 'kallie@erasmuslaw.com'
Subject: RE: Q4 Filling Stations - Filling Station Notification

Dear Kallie Erasmus,

Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

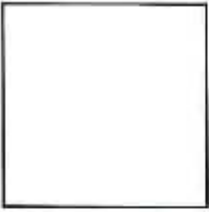
T: (+27)12 346 3810 | F: (+27) 86 570 5689 | E: jjzelleq@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: kallie@erasmuslaw.com [mailto:kallie@erasmuslaw.com] **On Behalf Of** Gideon (Kallie) Erasmus
Sent: 15 July 2014 12:37 PM
To: Bokamoso
Subject: Re: Q4 Filling Stations - Filling Station Notification

Hi!

Thank you.

Please register us (Erasmus Attorneys) as interested and affected parties.



On Tue, Jul 15, 2014 at 12:15 PM, Bokamoso <lizelleg@mweb.co.za> wrote:

Dear Interested and/or Affected Party Members,

Please refer to the attached Public Notice & Letter regarding the proposed Q4 Filling Stations.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



Landscape Architects &

Environmental Consultants

T: [\(+27\)12 346 3810](tel:+27123463810) | F: [\(+27\) 86 570 5659](tel:+27865705659) | E: lizelleg@mweb.co.za | www.bokamoso.net

36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Bokamoso <lizelle@mweb.co.za>
Sent: 17 July 2014 12:14 PM
To: frans@fuelarama.co.za
Subject: RE: Q4 FILLING STATIONS - N4 NEAR BRITS

Dear Frans,

Please note that the Background Information Document (BID) will be sent to you as soon as possible which will contain some of the information you require. The Draft Scoping Report is also in the process of being finalised and you will be notified when this report is available for review and comments.

From previous experiences we have learned that we cannot make information available for one interested and affected party (I&AP) and not for the other, therefore the BID will be made available to all as soon as possible and then the Draft Scoping Report will be made available for comments to all as well.

Trust you find all the above in order.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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From: Bokamoso [<mailto:lizelle@mweb.co.za>]
Sent: 17 July 2014 11:05 AM
To: user2@bokamoso.net
Cc: user1@bokamoso.net
Subject: FW: Q4 FILLING STATIONS - N4 NEAR BRITS
Importance: High

From: Frans Lombard [<mailto:frans@fuelarama.co.za>]
Sent: 17 July 2014 10:36 AM
To: 'Bokamoso'
Cc: anton@petroland.co.za; lourens@fuelarama.co.za; gerrie@fuelarama.co.za; William SEBIDLA; Daniel MOSHOLI;

andre.cloete@total.co.za; jonks@mweb.co.za

Subject: Q4 FILLING STATIONS - N4 NEAR BRITS

Importance: High

Dear Mary-Lee

Please can you let me have whatever documents you can disclose dealing with the proposed development – i.e. plans, exact location, proposed storage capacity etc. Most of the information we require should appear from the:

Application Form for Environmental Authorisation in terms of National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010, as amended (version 2)

[this is the Form used in Gauteng to launch the application, and there should be a similar form for North-West if the proposed site falls outside Gauteng].

I look forward to hearing from you.

Regards

Frans

Fuelarama
Group

Fuelarama (Pty) Ltd. Reg No: 2012/060020/07. Vat No: 4840139028
Fuelarama Retail (Pty) Ltd. Reg No: 2012/188032/07. Vat No: 4840158572
Fuelarama Admin Trust. Reg No: IT284/2012. Vat No: 4280260318
Head Office: 2nd Floor Standard Bank Centre, 304 Oak Ave, Randburg, South Africa
P.O. Box 69119, Bryanston, 2021
Directors: G.J.H. Snyman, L.J. Lombard & F.J.S. Lombard

Tel: (011) 781-8312/4/7
Fax: (011) 781-3616
E-mail: fuelarama@worldonline.co.za

From: Bokamoso [<mailto:lizelle@mweb.co.za>]

Sent: Thursday, July 17, 2014 8:26 AM

To: frans@fuelarama.co.za

Subject: RE: Q4 FILLING STATIONS - N4 NEAR BRITS

Good day Frans,

My apologies for the prolonged response on your email.

With regards to the CIPC registration number for the abovementioned project, here it is: Q4 Chemicals (Pty) Ltd 2000/012825/07

Trust you find the above in order.

Kind Regards,

Mary-Lee van Zyl

Senior Environmental Assessment Practitioner



**Landscape Architects &
Environmental Consultants cc**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.biz
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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From: Juanita [<mailto:user3@bokamoso.net>]
Sent: 09 July 2014 02:06 PM
To: 'frans@fuelarama.co.za'
Subject: RE: Q4 FILLING STATIONS - N4 NEAR BRITS

Dear Frans Lombard,

Thank you for your response, I have registered Fuelarama (Pty) Ltd trading as Total Petroport Magalies as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

Our Project Consultant, Anè Agenbacht, will be back in the office on Monday, 14 July 2014. She will then assist your question regarding the CIPC Registration Number as soon as possible.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86-570 5659 | E: lizelleg@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Frans Lombard [<mailto:frans@fuelarama.co.za>]

Sent: 09 July 2014 12:59 PM

To: lizelle@mweb.co.za

Cc: William SEBIDLA; Daniel MOSHOLI; lourens@fuelarama.co.za; gerrie@fuelarama.co.za; andre.cloete@total.co.za; anton@petroland.co.za

Subject: Q4 FILLING STATIONS - N4 NEAR BRITS

Importance: High

THE PROPOSED Q4 CITY FILLING STATION WITH THE TOTAL CAPACITY OF 644M³ ON THE FARM SCHIETFONTEIN 437 JQ, MADIBENG LOCAL MUNICIPALITY.

Reference Number: NWP/EIA/80/2013

Dear Madam

1. We operate Total Petroport Magalies in close proximity to the proposed new development and intend to object to this development. Please register Fuelarama (Pty) Ltd trading as Total Petroport Magalies as an interested party, e-mail frans@fuelarama.co.za .
2. We have done a CIPC Search and according to CIPC's records there is no entity registered under the name of Q4 Chemicals (Pty) Ltd (the Proponent as set out in your EIA Public Notice). Please let us have the CIPC Registration Number for the Proponent to enable us to investigate the matter further.
3. All our rights are reserved.

Yours faithfully

Frans Lombard



Fuelarama (Pty) Ltd. Reg No: 2012/060020/07. Vat No: 4840139028
Fuelarama Retail (Pty) Ltd. Reg No: 2012/188032/07. Vat No: 4840158572
Fuelarama Admin Trust. Reg No: IT284/2012. Vat No: 4280260318
Head Office: 2nd Floor Standard Bank Centre, 304 Oak Ave, Randburg, South Africa
P.O. Box 69119, Bryanston, 2021
Directors: G.J.H. Snyman, L.J. Lombard & F.J.S. Lombard

Tel: (011) 781-8312/4/7
Fax: (011) 781-3616
E-mail: fuelarama@worldonline.co.za

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 09 July 2014 02:06 PM
To: 'frans@fuelarama.co.za'
Subject: RE: Q4 FILLING STATIONS - N4 NEAR BRITS

Dear Frans Lombard,

Thank you for your response, I have registered Fuelarama (Pty) Ltd trading as Total Petroport Magalies as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

Our Project Consultant, Anè Agenbacht, will be back in the office on Monday, 14 July 2014. She will then assist your question regarding the CIPC Registration Number as soon as possible.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelleq@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0181

From: Frans Lombard [<mailto:frans@fuelarama.co.za>]
Sent: 09 July 2014 12:59 PM
To: lizelleq@mweb.co.za
Cc: William SEBIDLA; Daniel MOSHOLI; lourens@fuelarama.co.za; gerrie@fuelarama.co.za; andre.cloete@total.co.za; anton@petroland.co.za
Subject: Q4 FILLING STATIONS - N4 NEAR BRITS
Importance: High

THE PROPOSED Q4 CITY FILLING STATION WITH THE TOTAL CAPACITY OF 644M³ ON THE FARM SCHIETFONTEIN 437 JQ, MADIBENG LOCAL MUNICIPALITY.

Dear Madam

1. We operate Total Petroport Magalies in close proximity to the proposed new development and intend to object to this development. Please register Fuelarama (Pty) Ltd trading as Total Petroport Magalies as an interested party, e-mail frans@fuelarama.co.za.
2. We have done a CIPC Search and according to CIPC's records there is no entity registered under the name of Q4 Chemicals (Pty) Ltd (the Proponent as set out in your EIA Public Notice). Please let us have the CIPC Registration Number for the Proponent to enable us to investigate the matter further.
3. All our rights are reserved.

Yours faithfully
Frans Lombard



Fuelarama (Pty) Ltd. Reg No: 2012/060020/07. Vat No: 4840139028
Fuelarama Retail (Pty) Ltd. Reg No: 2012/188032/07. Vat No: 4840158572
Fuelarama Admin Trust. Reg No: IT284/2012. Vat No: 4280260318
Head Office: 2nd Floor Standard Bank Centre, 304 Oak Ave, Randburg, South Africa
P.O. Box 69119, Bryanston, 2021
Directors: G.J.H. Snyman, L.J. Lombard & F.J.S. Lombard

Tel: (011) 781-8312/4/7
Fax: (011) 781-3616
E-mail: fuelarama@worldonline.co.za

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 23 May 2014 09:41 AM
To: 'johan@calcuplan.com'
Subject: RE: Q4 Schietfontein

Geagte Johan van Rensburg,

Baie dankie vir jou terugvoering, jy is geregistreer as belanghebbende persoon vir die voorgestelde Q4 City Filling Stations Projek.

Ons sal jou ophoogte hou in verband met die verdere proses in die toekoms.

Hoop dit is in orde.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 88 570 5859 | E: lizelle@mweb.co.za | www.bokamoso.net
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Johan [<mailto:johan@calcuplan.com>]
Sent: 23 May 2014 09:26 AM
To: lizelle@mweb.co.za
Subject: Q4 Schietfontein

Registreer my asseblief as ge-intereseerde party as inwoner van hierdie gebied.

With kind regards / Met vriendelike groete

Johan van Rensburg

**Calcuplan Town Planners/Stadsbeplanners
Environmental Consultants/Omgewingskonsultante
Peroleum Licencing Applications**

C: 083 491 2793

F: 086 647 2640

(no land lines due to cable theft)

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PO Box/Posbus 598, Hartbeespoort, 0216



Calcuplan

juanita@bokamoso.net

From: Juanita <user3@bokamoso.net>
Sent: 09 June 2014 01:47 PM
To: 'tph@tph.co.za'
Subject: RE: Register as an I&AP - Q4 City Filling Station Farm Schietfontein 437JQ

Dear Beverley Oosthuizen,

Thank you for your response, I have registered Town Planning Hub CC as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.

Please note that we have noted all your issues on our Issues and Comments Register.

We will keep you updated regarding the process in the future.

Hope this finds you well.

Kind Regards

Juanita De Beer

Public Participation Consultant



**Landscape Architects &
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: lizelle@nwweb.co.za | www.bokamoso.net
38 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

From: Beverley Oosthuizen [<mailto:tph@tph.co.za>]
Sent: 09 June 2014 12:34 PM
To: lizelle@nwweb.co.za
Cc: 'Bea Fletcher'
Subject: Register as an I&AP - Q4 City Filling Station Farm Schietfontein 437JQ
Importance: High

Good day Juanita

With reference to the aforementioned new EIA submitted to the NWDEDECT. Kindly note that our office, The Town Planning Hub CC wishes to register as an Interested and Affected Party on behalf of Total SA.

The concerns of Total SA, but not limited to, will be listed below:

- * Total has an existing filling station along the N4, approximately 2,5km west of the intersection of the N4/R556
- * Total's filling station serves the west bound traffic on the N4
- * Filling stations along highways should be limited. Total's existing filling station is approximately 30km away from the proposed 2 new filling stations

It is requested that our office be registered as an I&AP and be notified of public participation meetings and be placed in possession of a copy of the EIA submission to DEDECT.

Kindly confirm receipt hereof.

Thank you,

Regards,

Beverley Oosthuizen
The Town Planning Hub CC
Tel: (012) 809 2229
Fax: (012) 809 2090

CONFIDENTIALITY NOTICE: This e-mail may contain confidential information and is intended only for the use of the recipient named above. Should you receive this e-mail in error, please forward it to [tph@tph.co.za] and delete from your in-box. Any disclosure, copying, distribution or action on the contents of this e-mail is strictly prohibited.

List of Interested and Affected Parties

Annexure H6

Nr	Registered Parties	Contact details
Stakeholders		
1	Council Geo-Science	igrobler@geoscience.org.za
2	SAHRA	asalomon@sahra.org.za nndobochani@sahra.org.za
3	DWA	justicem@dwaf.gov.za keetm@dwaf.gov.za siwelanel@dwa.gov.za tshifaror@dwa.gov.za mathebet@dwa.gov.za
4	Eskom	central@eskom.co.za paia@eskom.co.za
5	SANRAL	schmidk@nra.co.za
6	Randwater	mmpshe@randwater.co.za nkoneigh@randwater.co.za
7	Madibeng Local Municipality	motlalekgomommope@madibeng.gov.za
8	Spoornet	daniel.ramokone@transnet.net loveous.tampane@transnet.net
9	J van Wyk Department Public Works and Roads North-West	vanwykJ@nwpq.gov.za Cell: 082 546 6925
10	Ward Councillor Simon Motsanen	smotsaneng@yahoo.com Cell: 083 750 6489
Interested and Affected Parties		

Comments and Responses Report

Annexure H7

**COMMENT AND RESPONSE REPORT-
FOR THE PROPOSED Q4 CITY FILLING STATIONS
NWP/EIA/80/2013**

Issue	Commentator and Date	Response
<ol style="list-style-type: none"> 1. We register as an interested and affected party to the subject EIA process on behalf of our client Engen Petroleum Limited. 2. We request the Basic Assessment Report (BAR) for the Subject project. Once received we will be in a position to elaborate and comment in the interim in this respect. 3. We reserve our client's right to address your firm or the relevant department on the detail relating to the representations and to further comment and elaborate pertaining to our reasons for registering as I&AP. 4. We await your reply confirming our registration as I&AP's in this regard. 5. It is imperative that you acknowledge receipt of this document in the space provided. Fax the same to 086 671 6588. 	<p>Andre du Toit Town and Regional Planners (On behalf of Engen Petroleum Limited) andre@adtrp.co.za 6 June 2014</p>	<p>Noted.</p> <p>Thank you for your response, I have registered you (Town and Regional Planners) as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.</p> <p>We will keep you updated and inform you when the Draft Scoping Report is available for review and keep you updated on the progress made throughout the remainder of the process.</p>
<p>With reference to the aforementioned new EIA submitted to the NWDEDECT. Kindly note that our office, The Town Planning Hub CC wishes to register as an Interested and Affected Party on behalf of Total SA.</p> <p>The concerns of Total SA, but not limited to, will be listed below:</p> <ul style="list-style-type: none"> • Total has an existing filling station along the N4, approximately 2,5km west of the intersection of the N4/R556; • Total's filling station serves the west bound traffic on the N4; • Filling stations along highways should be limited. Total's existing filling station is approximate 30km away from the proposed 2 new filling stations. <p>It is requested that our office be registered as an I&AP and be notified of public participation meetings and be placed in possession</p>	<p>Beverley Oosthuizen Town Planning Hub CC (on behalf of Total SA) toh@toh.co.za 9 June 2014</p>	<p>Thank you for your response, I have registered Town Planning Hub CC as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.</p> <p>Please note that we have noted all your issues on our Issues and Comments Register. We will keep you updated regarding the process in the future.</p> <p>During the EIA phase a feasibility study will be included which will take into account the surrounding filling stations.</p>

<p>of a copy of the EIA submission to DEDECT.</p> <p>Kindly confirm receipt hereof.</p>		
<p>Your document dated 22 May 2014 with reference number. NWP/EIA/114/2013 has reference.</p> <p>The Department of Community Services within the Madibeng Local Municipality (Waste and Environmental Management division) received the report on the 23 May 2014 and evaluated the report in terms of National Environmental Management Act (Act 107 of 1998), EIA Regulations and other legislations governing the EIA Regulations and comments are as follows:</p> <ul style="list-style-type: none"> • Kindly register us as interested and affected party in your database. • Adjacent landowners to the proposed site must be informed about the proposed project as stipulated in the EIA regulation. • All records pertaining to the Public Participation Process, meetings and reports must be submitted to the Department of Community services. • When the Filling Station Feasibility Study was conducted, were other filling stations within Brits town taken into consideration as the town itself has approximately +- 18 existing service stations and five other still proposed or at the final stage? • All legislations, regulations and laws governing (EIA)(BAR) must be adhered too. • All specialist studies which may be required to complete the application must be done and submitted to this Department for comments. • If water will be sourced from any borehole/river/stream/dam to accommodate the proposed project, a water use license must be applied for with the Department of Water Affairs and the following must be done in relation to the boreholes if boreholes water will be used: 	<p>M.T Magasa Madibeng Local Municipality registry@madibeng.gov.za 27 May 2014</p>	<p>Noted.</p> <p>The public participation process information was included in the Draft Scoping Report.</p> <p>Please note that the feasibility study will form part of the EIA phase together with all other specialist studies. One of the major components of a feasibility study is to specifically look at all the other existing filling stations as well as the new proposed filling stations.</p> <p>Your comment regarding water sourced from a borehole is noted and a water use license application process will be conducted.</p>

<ul style="list-style-type: none"> - Borehole yielding capability and recharge rate must be done for all boreholes. - Borehole census must within the 500m radius of the site. - A groundwater monitoring program must be implemented once the operation of the broiling house commence. • The proposed filling stations must comply with the following too: <ul style="list-style-type: none"> - Design for the new tanks must be submitted with the report to this department for comments. - In case of pollution incident the following offices, Madibeng Local Municipality (Waste and environmental management office) and Department of Water Affairs must be informed immediately. - All sections and regulations of the Waste Management Act, 2008 (Act 59 of 2008) and Madibeng Local Municipality Waste By-Laws pertaining to the disposal of waste must be adhered to. - The storage tanks must comply with the relevant SANS/SABS Codes of practices. - The installation must comply with local authority By-Laws. - The tanks must be designed so as to reduce the risk of soil and groundwater contamination. - Emergency Response Plan must be drafted, submitted to Madibeng Local Municipality, Fire and Disaster Management Office for approval and must be followed in case of emergency. - The tanks must be dipped daily and reconciliation against volume to check for losses due to leakage. - The tanks and product lines must be pressure tested prior to commissioning. - The storage tanks, pumps, fillers, vents, monitoring wells and dispensers must comply with all relevant SANS/SABS Codes of practices (SANS 10089-2 and Sans 10089-3) • The proposed project must comply with all applicable 		<p>Designs will form part of the EIA process.</p> <p>Noted.</p> <p>Noted.</p> <p>Tanks will be designed to reduce the risk of soil or groundwater pollution and will comply with the relevant standards.</p> <p>This will form part of the EIA Phase.</p> <p>Noted.</p> <p>Noted.</p> <p>Noted.</p> <p>Noted.</p>
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<p>Sections and Regulations of the National Water Act, 198 (Act 36 of 1998) and water Services Act, 1997 (Act 108 of 1997).</p> <ul style="list-style-type: none"> • The Madibeng Local Municipality must approve of the stormwater connection to the existing Municipal Infrastructure. • Appropriate measures must be made on site to prevent any leachate. In the events of such leachate occurring, immediate steps must be taken for clean-up. • No developments may take place on the area of concern without the necessary permits/approvals and/or services agreements, from all relevant authorities. • For all hazardous (and non-hazardous) material/waste taken off the site for disposal (or incineration or other treatment or reuse) by the proponent or a contractor, the proponent must keep record of details including the type of material; quantity; name and other important details tracking the contractor, date and time of collection of the material and details of use/reuse and "safe disposal certificates". • A Comprehensive Environmental Management Plan (EMP) for various phases of the proposed activity (i.e. construction, operational, decommissioning phases) must be submitted to the department of community Services at Madibeng Local Municipality. The EMP must include a discussion on mitigation measures for all potential impacts as well as the person responsible for implementing such measures. • All environmental related documentations e.g. Madibeng EMF 2010, Madibeng SDF 2009 and any other related documentation should be taken into consideration when developing reports. • If general waste will be taken to the municipal landfill site, all receipt of dumping should be kept so that as to avoid illegal dumping from your service providers. <p>Should you have any queries please feel free to contact this office through the details provided.</p>		<p>Noted, more information on the stormwater will form part of the EIA phase.</p> <p>Noted. Mitigation measures will be in place to reduce the risk of leachate.</p> <p>Noted.</p> <p>Noted.</p> <p>The EMP will form part of the EIA phase.</p> <p>Noted.</p> <p>Noted.</p>
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<p>Hereby P.J.J Pienaar Brandstofgroep lodge a formal appeal against the erecting of the Q4 Filling Station on/or next to the N4 – between Pretoria and Rustenburg.</p> <p>The notice is not correct, it is 2.5 km EAST of the Brits Toll Plaza..... and not WEST.....</p>	<p>Pine Pienaar P.J.J Pienaar Brandstofgroep netpet@lantic.net 8 July 2014</p>	<p>Noted.</p> <p>The telephonic conversation this morning with Daleen Swanepoel has reference.</p> <p>Thank you for your comment on the public notice.</p> <p>We did have another look at the notice and noted that it states that the Brits Toll Plaza is to the west of the proposed filling stations (study site). However, the proposed filling stations are also east of the Toll Plaza. Therefore both statements are correct, depending on whether it is taken from the toll plaza or the study site.</p>
<ol style="list-style-type: none"> 1. We operate Total Petroport Magalies in close proximity to the proposed new development and intend to object to this development. Please register Fuelarama (Pty) Ltd trading as Total Petroport Magalies as an interested party, e-mail: frans@fuelarama.co.za 2. We have done a CIPC Search and according to CIPC's records there is no entity registered under the name of Q4 Chemicals (Pty) Ltd (the proponent as set out in your EIA Public Notice). Please let us have the CIPC Registration Number for the Proponent to enable us to investigate the matter further. 3. All rights are reserved. 	<p>Frans Lombard Fuelarama (Pty) Ltd trading as Total Petroport Magalies frans@fuelarama.co.za 9 July 2014</p>	<p>Thank you for your response; I have registered Fuelarama (Pty) Ltd trading as Total Petroport Magalies as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.</p> <p>Our Project Consultant, Anè Agenbacht, will be back in the office on Monday, 14 July 2014. She will then assist your question regarding the CIPC Registration Number as soon as possible.</p> <p>We will keep you updated regarding the process in the future.</p>

		<p>Good day Frans,</p> <p>My apologies for the prolonged response on your email.</p> <p>With regards to the CIPC registration number for the abovementioned project, here it is: Q4 Chemicals (Pty) Ltd 2000/012825/07.</p> <p>Trust you find the above in order.</p>
<p>Please can you let me have whatever documents you can disclose dealing with the proposed development – i.e. plans, exact location, proposed storage capacity etc. Most of the information we require should appear from the:</p> <p><i>Application Form for Environmental Authorities in terms of National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010, as amended (version 2).</i></p> <p>[this is the form used in Gauteng to launch the application, and there should be a similar form for North-West if the proposed site falls outside Gauteng.</p> <p>I look forward to hearing from you.</p>		<p>Please note that the Background Information Document (BID) will be sent to you as soon as possible which will contain some of the information you require. The Draft Scoping Report is also in the process of being finalized and you will be notified when this report is available for review and comments.</p>
<p>Can you provide me with the Application form, the BID document and any advertisements that had been distributed to date.</p>	<p>Dr Gwen Theron Gwen.theron@telkomsa.net 25 July 2014</p>	<p>Please find attached the notices you requested.</p>

		<p>Please note that the Background Information Document (BID) will be sent to you as soon as possible. The Draft Scoping Report, which will contain the application form, is also in the process of being finalized and you will be notified when this report is available for review and comments.</p>
<p>Juanita,</p> <p>Ek verwys na ons telefoon gesprek vroeër vanmidaag.</p> <p>PRAXIS is gevra om saam met Mnr Erasmus deel te vorm van die publieke deelname proses op hierdie projek.</p> <p>Kan jy my asb dus op hoogte hou van die vordering van die publieke deelname van die projek.</p> <p>Translation:</p> <p><i>Juanita,</i></p> <p><i>I refer to our telephonic conversation earlier this afternoon.</i></p> <p><i>PRAXIS, together with Mr. Erasmus, had been asked to form part of the IAP process of this Project.</i></p> <p><i>Could you keep me informed regarding the progress of this project's public participation.</i></p>	<p>Danie Neumann praxis@mweb.co.za 19 September 2014</p>	<p>Baie dankie vir jou terugvoering, jy is geregistreer as belanghebbende persoon vir die voorgestelde Q4 Filling Stations Projek.</p> <p>Ons sal jou op hoogte hou rakende die proses vorentoe en die status van die projek.</p> <p>Translation:</p> <p><i>Thank you for your feedback, you are registered as an IAP for the proposed Q4 Filling Station Project.</i></p> <p><i>We will keep you informed regarding the progress and status of the project.</i></p>
<p>I refer to the abovementioned notice and would like to bring under your attention that the property of the undersigned is close to your project of the proposed two filling stations next to the N4 Highway.</p>	<p>Ria Mclellan Riamclellan11@gmail.com 4 June 2014</p>	<p>Thank you for your response, I have registered you as Interested and/or Affected Party for the proposed Q4 City</p>

		<p>Filling Stations Project.</p> <p>We will keep you updated regarding the process in the future.</p>
<p>Hereby we received your public notice regarding the Q4 City Filling Stations.</p> <p>We are situated north border of Portion 22 and next to the M21.</p> <p>You can contact Johan Strauss by 073 655 0585 or via email strausslynette@gmail.com</p> <p>We would like to be updated.</p>	<p>Lynette Strauss strausslynette@gmail.com 1 June 2014</p>	<p>Thank you for your response, I have registered you as Interested and/or Affected Party for the proposed Q4 City Filling Stations Project.</p> <p>We will keep you updated regarding the process in the future.</p>
<p>Please register us (Erasmus Attorneys) as interested and affected parties.</p>	<p>Kallie Erasmus Kallie@erasmuslaw.com Erasmus Attorneys 15 July 2014</p>	<p>Thank you for your response, I have registered you as Interested and/or Affected Party for the proposed Q4 City Filling Stations Project.</p> <p>We will keep you updated regarding the process in the future.</p>
<p>Please register me as Interested and/or Affected Party Member.</p>	<p>Johan van Rensburg johan@calcuplan.com 23 May 2014</p>	<p>Registered.</p>
<p>I am Nokukhanya Khumalo of the SAHRA Archaeology, Paleontology and Meteorites Unit.</p> <p>I am currently assessing the case Q4 City Filling Stations, Case ID 5702. I was wondering if there is any further information of this</p>	<p>Nokuhanya Khumalo nkhumalo@sahra.org.za SAHRA</p>	<p>Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Q4 City Filling Stations Project.</p>

<p>development and environmental information. As it stands, we cannot process this case as it has no information on the development footprint and environmental information for us to comment on. For us to complete assessing this case we need further information as soon as it is available, and for it to be uploaded to this case.</p> <p>I would like for you to include 5737, it also has no other supporting documents to it, we do require more substantiating information than just a Public Notice.</p>		<p>Please note that we have downloaded the Background Information Document (BID) on your website with more information regarding the proposed Q4 City Filling Stations Project.</p> <p>We will notify you when the report will be available on your website.</p>
<p>Thank you for notifying SAHRA on the proposed Q4 City Filling Station in Schietfontein, north of the Magaliesburg mountain range, located on a Part of Portion 22 and a part of Portion 41 of the Farm Schietfontein 437 JQ. Madibeng Local Municipality, North-West Province. The development consists of rezoning of 7 hectares of agricultural land for both portions of land for the filling stations on both sides of the N4 Freeway and the M21 Lucas Mangope Drive.</p> <p>In terms of the National Heritage Resources Act, no 25 of 1999, heritage resources, including archaeological or palaeontological sites over 100 years old, graves older than 60 years, structures older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resources authority. This means that before such sites are disturbed by development and, where deemed necessary by the heritage authority, a Heritage Impact Assessment is done. This may include the archaeological component (Phase 1) any other applicable heritage components. Appropriate (Phase 2) mitigation, which involves recording, sampling and dating sites that are to be destroyed, must be done as required.</p> <p>This development lies in the wider surrounding area where there is known archaeological resources, so there is a likelihood of there being archaeological resources on the site proposed for development. Thus a Heritage Impact Assessment is requested by SHARA to assess and find any potential heritage resources on the development site and to determine the impacts the development</p>	<p>Nokukhanya Khumalo nkhumalo@sahra.org.za</p>	<p>Noted. A Heritage Impact Assessment will be conducted by a specialist and form part of the EIA phase together with all the other specialist reports.</p>

<p>might have on those resources.</p> <p>SAHRA exempts this project from a Palaeontological Impact Assessment, because the location of the filling station development lies on land that has a negligible palaeontological sensitivity.</p> <p>SAHRA APM Unit will make further comment on this case, once the following documents are submitted to this case:</p> <p>However this report and assessment must be done by a professional archaeologist, who is already familiar with the minimum standards. If you are not sure of where to find an archaeologist, we suggest searching in (http://www.asapa.org.za/uploads/files/crm-list-october.pdf)</p>		
After Draft Scoping Review Process		
<p>Can you please provide our offices with an electronic copy of the Draft Scoping Report.</p>	<p>Jlitske jlitske@telkomsa.net</p>	<p>The Draft Scoping Report is available on our website. Can you not access it there?</p> <p>Alternatively we can provide you with a Dropbox link?</p>
<p>When I click on the link it says that the page cannot be displayed. Can you please send me the dropbox link.</p>		<p>Here is the Dropbox Link: https://www.dropbox.com/s/sfo4ovr0rtdrgt7/Draft%20Scoping%20Report_Q4%20City2.pdf?dl=0</p> <p>On our side the report can be opened and accessed from the Bokamoso website but for your convenience I send you the link.</p> <p>Trust this is in order, please let us know</p>

		whether you are now able to review the report.
<p>Your document dated 26 November 2014 with reference number: NWP/EIA/80/2013 has reference.</p> <p>The Department of Community Services within the Madibeng Local Municipality (Waste and Environmental Management division) received the report on the 15 December 2014 and evaluated the report in terms of National Environmental Management Act (Act 107 of 1998), EIA Regulations and other legislations governing the EIA Regulations.</p> <p>The Draft Scoping received from Bokamoso Landscaping Architects & Environmental Consultants refers:</p> <p>Description of the Project: The proposed activity involves the construction of two filling stations adjacent to the Bakwena Platinum Freeway. The construction will take place concurrently on portion 22 and 41 of the Farm Schietfontein 437 JQ, North West Province.</p> <p>The distance mentioned in the report of Petroport being 80km from the site is incorrect. Petroport is approximately 40km from the site.</p> <p>Description of Alternatives: Four alternatives, namely: locality alternatives, land use alternative, layout alternative and the no-go alternative have been compared and discussed in the report. However, it is not clear from the Report which alternative is preferred one.</p> <p>Description and assessment of the identified environmental issues: The review of the report confirms that the methods followed in the identification and assessment of the impacts is considered to be adequate. In addition, the impacts associated with the proposed</p>	<p>M.T. Magasa mphomagasa@madibeng.gov.za Madibeng Local Municipality</p>	<p>This has been noted and corrected in this Report.</p> <p>It clearly states that the Land Use Alternative 5.2.2, a Filling station with training facility – alternative 2 – is the preferred alternative.</p> <p>Noted.</p>

development are assessed in terms of the different phases of the proposed development. However, the report states that more detailed assessment will be done during the EIA phases.

Evaluation and presentation of the mitigation measures:

The proposed mitigation measures suggested in the report are inadequate since they are discussed in passing. In addition, no specialist studies are included in the report. However, the report states the Specialist studies will be undertaken and included in the EIA Report which the municipal will be awaiting.

Public Participation Process:

The Public Participation Process was not undertaken in accordance with the EIA regulations. No site photographs are attached in the report showing the 8 cardinal directions.

NB: Please note that in addition to providing information as required by EIA Regulation the following must also be included in the Environmental Impact Assessment Report (EIAR):

- a. Design drawing of the proposed development clearly detailing the following aspects:
 - i. Storm water management;
 - ii. Plans to separate clean and dirty storm water;
 - iii. Spill management measures;
 - iv. Information on whether that tanks will be single or double walled; and
 - v. Safety features and mitigation measures.
- b. Discussion on the operation and efficiency of the separator and the type of effluent streams to be treated in the separator and the disposal thereof;
- c. The proposed project must comply with all applicable Sections and Regulations of the National Water Act, 1998 (Act 36 of 1998) and Water Services Act, 1997 (Act 108 of 1997);
- d. Commitment that all storm water to be discharged directly into sewer system will comply with the requirements of

The EIA phase contains more specific mitigation measures as there are then specialist reports to work with. The specialists highlight impacts and provide the mitigation measures for such impacts.

Noted.

All the required documents and information that should be attached to the EIA report is noted.

Madibeng Local Municipality and the Department of Water Affairs (DWA);

- e. Streams nearby should not be disturbed, should there be a major need to do anything on them, the Department of Water Affairs should be informed.
- f. Written confirmation from the oil company/supplier that the tanks are manufactured in accordance with SANS standards, and that the installation will conform to such standards;
- g. Commitment to comply with the requirements of the Occupational Health and Safety Act 1993 (Act No 83 of 1993);
- h. A detailed discussion on the waste disposal methods (both General waste and hazardous waste) during construction, operation and decommissioning phases of the proposed activity;
- i. Incident Management Plan, including Emergency/Fire Response and Spill response plans approved by the qualified risk consultant and/or local Authority;
- j. Vapour recovery plan, including reporting thereof;
- k. The location of wells and boreholes on site and neighboring properties with an indication of the level of reliance of the neighboring properties on groundwater resources;
- l. The groundwater monitoring boreholes should be drilled and groundwater samples taken for analysis and recorded for reference quality, prior to the operation of the filling station;
- m. Proof that Local Authority confirming waste removal during all stages of the project must be attached in the final EIA report for review;
- n. For all hazardous (and non-hazardous) materials/waste taken off the site for disposal (or incineration or other treatment or reuse) by the proponent or a contractor, the proponent must keep record of details including the type of material, quality, name and other important details tracking the contractor, dates and time of collection of the material and details of use/reuse and "safe disposal certificates";
- o. A description of the compatibility of the soil type to this type of development, as well as the depth of ground water on site.

<p>Attention must be given to expansion and stability properties;</p> <p>p. A detailed discussion on the proximity of the proposed area to the perennial and non-perennial rivers and likely impacts that the proposed development might have on these streams; and</p> <p>q. A Comprehensive Environmental Management Plan (EMP) for various phases of the proposed activity (i.e. construction, operational and decommissioning phases). The EMP must include a discussion on mitigation measures for all potential impacts as well as the persons responsible for implementing such measures.</p> <p>Should you have any queries please feel free to contact this office through the details provided above.</p>		
<p>Have the heritage impact assessment been conducted yet. The case was submitted but the heritage reports that were requested were not submitted. Please clarify.</p>	<p>Nokukhanya Khumalo nkhumalo@sahra.org.za</p>	<p>Please note that we are currently in the Scoping phase and the Draft Scoping report was submitted to you for comments. All specialist studies, including the heritage impact assessments, will form part of the EIA phase and will be attached to the Draft EIA report. The Draft EIA report will again be submitted to you for comments.</p>
<p><u>The following communication is from an I&AP to the developer:</u></p> <p>Hereby I want to inform that Mrs. McLellan and the Residents on Plot 104, Schietfontein, is regular users of the road that is involved.</p> <p>Please take cognizance of the fact that this road must provide access to our community to all the houses.</p> <p>May I bring under your attention that off-ramp 68 is the original servitude road and that is not the road that we use at the moment.</p>	<p>Jannie Gouws janniegouws@yahoo.com Ria McLellan riamclellan11@gmail.com</p>	<p>Noted.</p> <p>Three alternative roads are added to the Final Scoping report. The preferred road will be identified in the EIA Phase when the impacts are assessed.</p>

Off-ramp 68 is degraded and the motors can't drive there anymore.		
After Final Scoping Review Process		
<p>Please provide us with the Basic Assessment or EIA report once it is available.</p>	<p>Lillian Siwelane SiwelaneL@dws.gov.za Department of Water and Sanitation</p>	<p>Thank you for the feedback.</p> <p>Please note that we did submit a copy of the Final Scoping Report to your Department's office in Hartebeestpoordam as Ms. Lethabo Ramashala is the responsible official.</p> <p>Trust you find the above in order. Please contact our office if you have any queries in this regard.</p>
<p>With reference to the aforementioned matter.</p> <p>Kindly be advised that our office has worked through your final Scoping Report, however cannot give informed comments as vital information is still not available on the project.</p> <p>Please keep our office (on behalf of Total South Africa) listed as Interested and Affected Party to the application for Environmental Authorization. We would require a copy of the following documentation:</p> <ul style="list-style-type: none"> • Feasibility Study • Geotechnical Study • Wetland Study • Fauna and Flora Study • Services Report <p>The following points of concern are raised.</p> <ul style="list-style-type: none"> • The application site(s) are earmarked for high grazing potential. 	<p>Beverley Oosthuizen The Town Planning Hub CC tph@tph.co.za</p>	<p>The Draft EIA Report will contain all the available specialist reports.</p> <p>The Draft EIA Report will be made available for review once the Department approves the Scoping Report.</p> <p>The Draft EIA Report will contain the Agricultural Potential and Feasibility Report.</p>

<ul style="list-style-type: none"> The application site(s) will negatively affect from the existing filling stations along the N4 highway. The Feasibility is required to be informed on what the estimate fuel losses will be. 		
<p>Reference is made to Draft Scoping Report and the letter dated 26 November 2014 submitted to this office requesting comments.</p> <p>In order to make an informed decision, the following details must be provided in the final Environmental Impact Assessment Report:</p> <ol style="list-style-type: none"> The impact of the proposed development on the receiving environment as well as the proposed mitigation. Detailed information with regard to the source of water for the above mentioned development. Detailed information of sewage treatment and disposal method during construction and operational phases of the project. Detailed information of the storm water management plan/system and erosion control measures. A detailed site layout plan indicating ecologically sensitive areas must be submitted to this Department. Identification of any environmental sensitive area and water resources such as wetlands, streams, rivers, etc. as well as possible pollution impacts and mitigation measures of such water resources. Management of solid waste and hazardous waste materials generated during construction, operational and post construction phase. Environmental Management Plan. Spillage contingency plans. Geotechnical investigation report. Detailed information regarding the 1:100 year flood line. <p>This Department await for the above details in order to provide more detailed comments.</p>	<p>Thabakgolo Bopape Department of Water and Sanitation bopape1@dwa.gov.za</p>	<p>All the requested information will form part of the Environmental Impact Assessment Report.</p>

EIA Process

<p>I have checked your website but I don't see the report there, can you otherwise please place it in a dropbox for me.</p>	<p>Jitske jitske@telkomsa.net</p>	<p>Please note that this is the public participation period for the EIA phase of the Q4 City Filling Stations project. The Draft EIA Report is not yet available for review. The review period of the Draft EIA Report will be communicated to all Interested and Affected Parties and Stakeholders.</p> <p>Trust you find the above in order. Please do not hesitate to contact us should you have further questions.</p>
<p>Please ensure that DWHM is also registered as I&AP.</p>	<p>Johan van Rensburg johan@calcuplan.com</p>	<p>Email sent to DWHM, Cc'd Johan van Rensburg</p> <p>Please note that you are registered as Interested and/or Affected party Member for the proposed Q4 City Filling Stations Project.</p> <p>We will keep you updated regarding the process in the future.</p>
<p>I tried the website indicated on the notice and it is not reachable.</p>	<p>Dr. Gwen Theron Gwen.theron@telkomsa.net</p>	<p>Please note that this is the public participation period for the EIA phase of the Q4 City Filling Stations project. The Draft EIA Report is not yet available for review. The review period of the Draft EIA Report will be communicated to all Interested and Affected Parties and Stakeholders.</p>

		Trust you find the above in order. Please do not hesitate to contact us should you have further questions.
<p>This email is to enquire about the following cases on SAHRIS. Q4 Filling Stations case 5702.</p> <p>This case status to submit however the EIA and the EIA and the Heritage report was not submitted to the case. Please let me know if these developments have still in the approvals process, for now I will place the case back to studies pending until the heritage report are uploaded to the case.</p>	<p>Nokukhanya Khumalo Sahra nkhumalo@sahra.org.za</p>	<p>The Draft EIA Report for Q4 Filling Stations, which will include specialist studies, has not yet been submitted to the Department or the Interested and Affected Parties. The process is still on going and as soon as the Draft EIA is available for review you will be notified.</p> <p>Another consultant will revert back to you with regarding to the other case.</p>
<p>As De Wildt Helpmekeer Maatskappy NPC we wish to object to this application.</p> <p>Our objection is based on the fact that ground water is extremely scarce in this area. We therefore require the applicant to obtain a water use license. We need to be registered as a participant in such a water use license application. The cancelling of our objection will depend on the outcome of such an application.</p> <p>The area of the proposed township is 7.55 ha. The proposed township is located in the quaternary catchment area A21J. Please refer to General Authorizations of 26 March 2004. As we understand Table 1.2 "Groundwater Taking Zones", extraction of 45 cu m per annum per ha is allowed in this catchment area and also extraction for Small Industrial Users. Should your development fall under the last heading we wish to be kept fully informed concerning the application for for a water use license.</p>	<p>Johan Oosthuizen dewildthelpmekeer@gmail.com De Wildt Helpmekeer</p>	<p>Noted.</p> <p>The abovementioned Application as well as your letter dated 25th August 2015, refer. Bokamoso Environmental would like to reassure your Company that we are aware of the fact that a water use license in terms of Section 21 of the National Water Act (Act 36 of 1998), will be required for the Abstraction of water and for the proposed on-site sanitation system. We are in a process of obtaining the water use license.</p> <p>We would also like to mention that a Q4 – Fuels Water Supply and Baseline Risk Assessment had been conducted on the site of the Proposed Development by a suitably qualified Geo-hydrologist. An Engineering Geological Investigation for this</p>

		<p>Proposed Development had also been completed. Please take note that we are registering your Company as an Interested & Affected Party in our Water Use License Application Process and we will furnish you with a copy of the Application as soon as it has been completed.</p> <p>We trust that the above meets with your approval. Should you have any other questions relating to the aforementioned, please do not hesitate to contact us. Also kindly confirm receipt of this letter.</p>
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Background Information Document (BID)

Annexure H8

LEBOMBO GARDEN BUILDING
38 LEBOMBO ROAD
ASHLEA GARDENS
0081

P.O. BOX 11375
MARCELANA
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E-mail: lizelleg@mweb.co.za
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Background Information Document for a SCOPING/EIA PROCESS

Application for the **Scoping/Environmental Impact Assessment (EIA) process** Authorization
for the proposed **Q4 City Filling Stations**

October 2014

PROJECT BACKGROUND

Notice is given, in terms of the new 2010 EIA Regulations published in Government Notice No. R544, R545, and R546 of the National Environmental Management Act (Act No. 107 of 1998), of intent to carry out a **Scoping/EIA Process (i.f.o. Listing Notice 1, 2 & 3 – G.N. R544, R545 & R546)**.

Bokamoso Environmental Consultants were appointed by **Q4 Chemicals (Pty) Ltd** to undertake a **Scoping/EIA Process** for the proposed **Q4 City Filling Stations**.

THE PROPOSED PROJECT

The proposed project will consist of the following:

The establishment of the Q4 City Filling Stations, this will require the transformation of agricultural land. Approximately seven hectares in the south-eastern corner of Portion 22 and approximately 7 hectares in the north-western corner of Portion 41 is planned to be developed into a filling station with associated uses on both sides of the N4 highway. The infrastructure associated with the proposed development (i.e. Roads, Storm water, Sewer, Water) will also be addressed as part of this application.

THE PROPOSED SITE

Part of Portion 22 of the farm Schietfontein 437 JQ, Schietfontein.
Part of Portion 41 of the farm Schietfontein 437 JQ, Schietfontein.

LOCATION

The study area lies at the crossing of the N4 Highway and road M21 (Lucas Mangope Drive) on the farm Schietfontein 437 JQ with portion 22 located in the north-western quadrant of the crossing and portion 41 located diagonally opposite the south-eastern quadrant of the crossing.

LEGAL ASPECT OF PROJECT

In terms of Regulation No. R543 published in the Government Notice No. 33306 of 18 June 2010 of the National Environment Management Act, 1998 (Act No. 107 of 1998) a specific list of activities was identified which could have a detrimental impact on the receiving environment. These listed activities require Environmental Authorization from the Competent Authority, i.e. the North West Province Department of Economic Development, Environment, Conservation and Tourism (DEDECT).

The application was submitted for the following activities in terms of the Government Listing Notice 1 and 3 (R544, R545 & R546), 18 June 2010:

Indicate the number and date of the relevant notice:	Activity No (s) (in terms of the relevant notice) :	Describe each listed activity as per project description!:
<p>Listing Notice 1, R544, 18 June 2010</p>	<p>9</p>	<p>The construction of facilities or infrastructure exceeding 1000 meters in length for the bulk transportation of water, sewage or storm water –</p> <ul style="list-style-type: none"> (i) With an internal diameter of 0,36 meters or more; or (ii) With a peak throughput of 120 liters per second or more; <p>excluding where:</p> <ul style="list-style-type: none"> a. Such facilities or infrastructure are for bulk transportation of water, sewage or storm water drainage inside a road reserve; or <p>Where such construction will occur within urban areas but further than 32 meters from a watercourse, measured</p>

		from the edge of the watercourse.
R544, (Listing Notice 1), 18 June 2010	11	<p>The construction of:</p> <ul style="list-style-type: none"> i. Canals; ii. Channels; iii. Bridges; iv. Dams; v. Weirs; vi. Bulk storm water outlet structures; vii. Marinas; viii. Jetties exceeding 50 square metres in size; ix. Slipways exceeding 50 square metres in size; x. Buildings exceeding 50 square metres in size; or xi. Infrastructure or structures covering 50 square metres or more <p>Where such construction occurs within a watercourse or within 32 metres of a watercourse, excluding where such construction will occur behind the development set back line.</p>
R544, (Listing Notice 1), 18 June 2010	18	<p>The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 5 cubic metres from:</p> <ul style="list-style-type: none"> i. A watercourse; ii. The sea; iii. The seashore; iv. The littoral active zone, an estuary or a distance of 100 metres inland of the high-water mark of the sea or an estuary, whichever distance is the greater – <p>But excluding where such infilling, depositing, dredging, excavation, removal or moving:</p> <ul style="list-style-type: none"> a. Is for maintenance purposes undertaken in accordance with a management plan agreed to by the relevant environmental authority; or b. Occurs behind the development setback line.
R544, (Listing Notice 1), 18 June 2010	22	<p>The construction of a road, outside urban areas:</p> <ul style="list-style-type: none"> i. With a reserve wider than 13, 5 metres; or ii. Where no reserve exists where the road is wider than 8 metres; or iii. For which an environmental authorization was obtained for the route determination in terms of activity 5 in Government Notice 387 of 2006 or activity 18 in Notice 545 of 2010.
R544, (Listing Notice 1), 18 June 2010	23	<p>The transformation of undeveloped, vacant or derelict land to –</p> <ul style="list-style-type: none"> i. Residential, retail, commercial, recreational, industrial or institutional use, inside an urban area, and where the total area to be transformed is 5

		<p>ii. hectares or more, but less than 20 hectares; or Residential, retail, commercial, recreational, industrial or institutional use, outside an urban area and where the total area to be transformed is bigger than 1 hectare but less than 20 hectares; -</p> <p>Except where such transformation takes place –</p> <p>a. For linear activities; or</p> <p>b. For purpose of agriculture or afforestation, in which case Activity 16 of Notice No. R545 applies</p>
R545, (Listing Notice 2), 18 June 2010	3	The construction of facilities or infrastructure for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.
GNR 546, (Listing Notice 3), 18 June 2010	4	<p>The construction of a road wider than 4 metres with a reserve less than 13.5 metres.</p> <p>(c) In North-West:</p> <p>i. Outside urban areas, in:</p> <p>(aa) ...</p> <p>(bb) ...</p> <p>(cc) ...</p> <p>(dd) ...</p> <p>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional reserves;</p> <p>(ff) ...</p> <p>(gg) ...</p> <p>(hh) ...</p>
GNR 546, (Listing Notice 3), 18 June 2010	13	<p>The clearance of an area of 1 hectare or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation.</p> <p>(e) In North-West:</p> <p>i. Outside urban areas in:</p> <p>(aa) ...</p> <p>(bb) ...</p> <p>(cc) ...</p> <p>(dd) ...</p> <p>(ee) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional reserves;</p> <p>(ff) ...</p> <p>(gg) ...</p> <p>(hh) ...</p>
GNR 546, (Listing Notice 3), 18 June 2010	16	<p>The construction of:</p> <p>i. ...</p> <p>ii. ...</p> <p>iii. Buildings with a footprint exceeding 10 square metres in size; or</p>

		<p>iv. Infrastructure covering 10 square metres or more</p> <p>Where such construction occurs within a watercourse, measured or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</p> <p>(c) In North-West:</p> <p>i. Outside urban areas, in:</p> <p>(aa) ...</p> <p>(bb) ...</p> <p>(cc) ...</p> <p>(dd) ...</p> <p>(ee) ...</p> <p>(ff) Critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional reserves;</p> <p>(gg) ...</p> <p>(hh) ...</p>
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Accordingly, the proposed project requires authorisation from DEDECT via the Scoping/EIA process outlined in Regulation 543 published in the Government Notice No. 33306 of 18 June 2010 of NEMA.

After DEDECT have issued the decision, Interested and Affected Parties (I&AP's) will be notified of the decision and of the opportunity to appeal to the MEC of DEDECT.

THE PUBLIC PARTICIPATION PROCESS

A Public Participation Process was conducted in terms of Chapter 6 in Regulation 543, published in the Government Gazette No. 33306 of 18 June 2010, of the National Environmental Management Act, 1998 (Act No 107 of 1998). The Public Participation Guideline in the Integrated Environmental Management Guideline Series (Guideline 7) is also used, as published in Government Gazette No. 35769 on 10 October 2012.

1. Site notices were erected (21 May 2014) at prominent points on and around the study area.
2. Flyers were distributed (21 May 2014) to the neighboring properties and estates/developments that may be affected by the proposed development. Not all these properties could be reached due to a lack of sufficient access to them and therefore these flyers, together with this Background Information Document will be sent via email to a preset list of possible interested an/or affected parties and surrounding landowners via email & registered mail.

3. Registered mail was send to all surrounding land owners within a 100m radius of the study area.
4. Notices regarding the project was e-mailed or faxed to the councilors in the area and possible stakeholders (including authorities, SANRAL, PRAF, Eskom, etc.) in the area.
5. An advertisement was placed in "Beeld and Kormorant" newspapers on 22 May 2014.
6. Additionally, all filling stations within a radius of 20km were notified via email or hand-delivered notices on 7 July 2014.

THE ENVIRONMENT

Topography

Portion 41 has a gentle slope towards the southern side and it drains by means of sheetwash and along the river which runs northerly along the terrain. In general, the topography of both Portion 22 and 41 of the site is flat terrain in the valley north of the Magaliesberg Mountain range.

Vegetation

There are five vegetation study units which were identified on site namely: *Peltophorum – Dichrostachys* thicket; *Acacia robusta – Clerodendrum* savanna; Mixed alien and indigenous vegetation; *Eragrostis – Digitaria* fields; and Drainage line vegetation.

The *Peltophorum – Dichrostachys* thicket study unit on portion 22 of the study site and the Drainage line vegetation are considered sensitive and should be excluded from development and where possible, corridors must be created to other natural vegetation areas on the neighbouring properties to facilitate connectivity.

The Marula trees and the *Harpagophytum zeyheri* subsp. *zeyheri* should be conserved in situ and the damaged Marula trees treated by a tree surgeon to ensure their survival

Wetlands

The only wetland feature that could be identified on site is the drainage depression on the eastern boundary of the site in Portion 41. No sign of lateral feeding mechanisms through the soils could be observed and it is therefore it is concluded that the main driver of the wetland/watercourse feature is surface runoff water from the site as well as upslope in the feature's catchment.

A buffer was not included as the best buffer concept on the site is adequate storm water management measures for any developments to take place on the site. An ecological buffer can be included and this should be the outcome of any ecological assessment of the site.

It is therefore concluded that there is no wetland on site.

Soil conditions

A Geological Site Investigation has been done by Holland-Muter Associate cc. for the proposed fuel station. The site is situated in the area that is underlined between sedimentary rocks of Pretoria group which are located on the south of the terrain and the igneous rocks of the Bushveld located to the north of terrain.

The sites' terrain mainly consists of transported material containing thick horizons of colluvium and residual soils comprising of decomposed highly weathered sandstone. These materials are underlain by residual soils or in-situ rocks at depth.

The general soil profile is mainly of thick horizons of transported soils have been derived from the nearby Magaliesburg mountain ridge and they varying between sand clay and clayey sand. The site's terrain has a fairly good internal drainage.

ISSUES AND CONCERNS RAISED BY THE PUBLIC

Possible concerns to be addressed:

- Visibility
- Noise
- Dust
- Safety and Security
- Maintenance of road
- Increase in traffic
- Socio-economic
- Ecological Surroundings
- "Sense of place"
- Impacts on Surrounding Filling Stations
- Availability of Services

PURPOSE OF THIS DOCUMENT

The purpose of this document is to provide information regarding proposed **Q4 Filling Station** and to provide possible Interested and Affected Parties (I&APs) and Stakeholders with an opportunity to register and to add their comments and issues to our final reports that will be submitted to the North West Province Department of Economic Development, Environment, Conservation and Tourism (DEDECT).

In order to ensure that you are identified as an Interested and/or Affected Party (I&AP) please submit your name, contact information and concerns regarding the proposed development.

Figure 1: Locality Map

Figure 2: Aerial Map

Figure 1: Locality Map

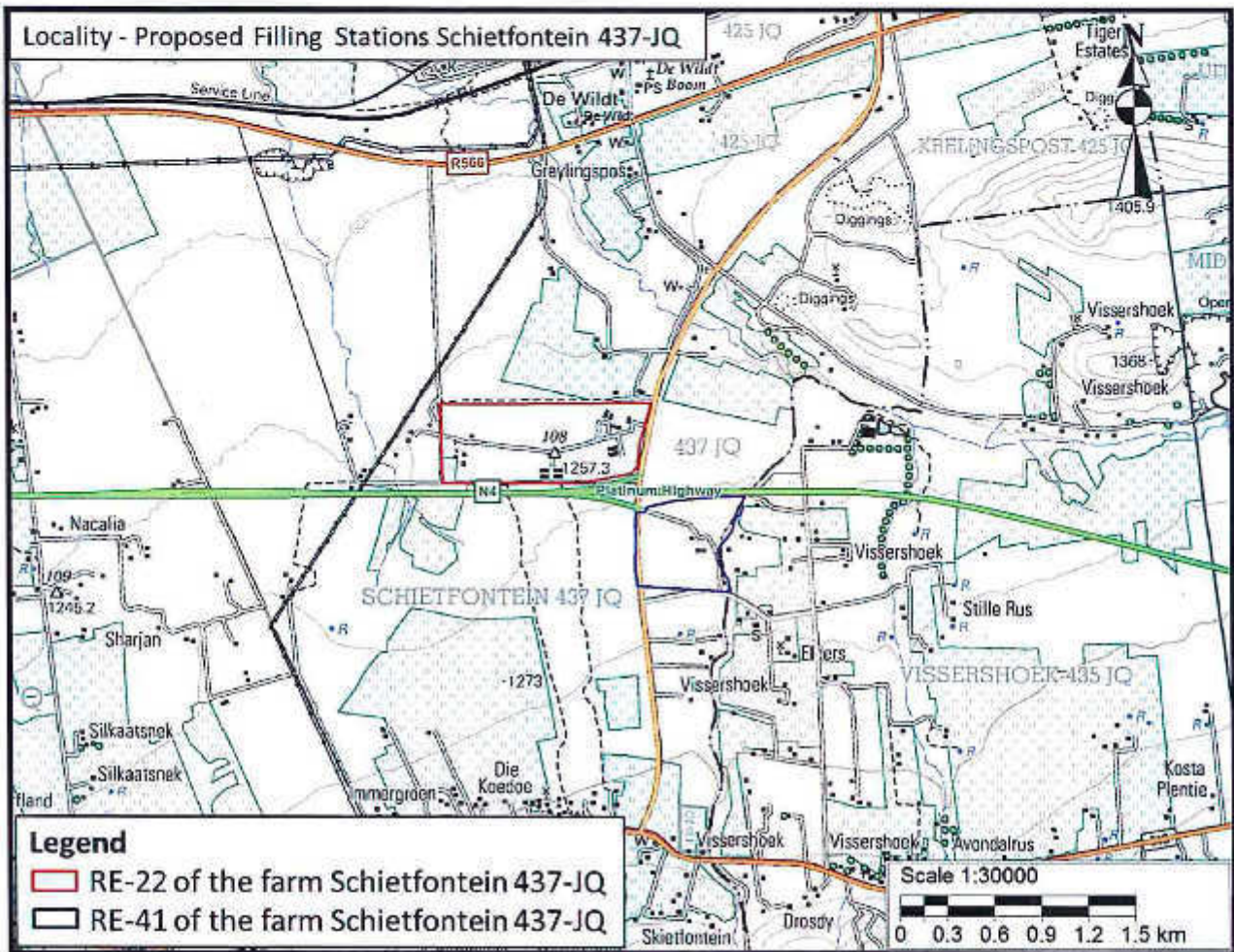
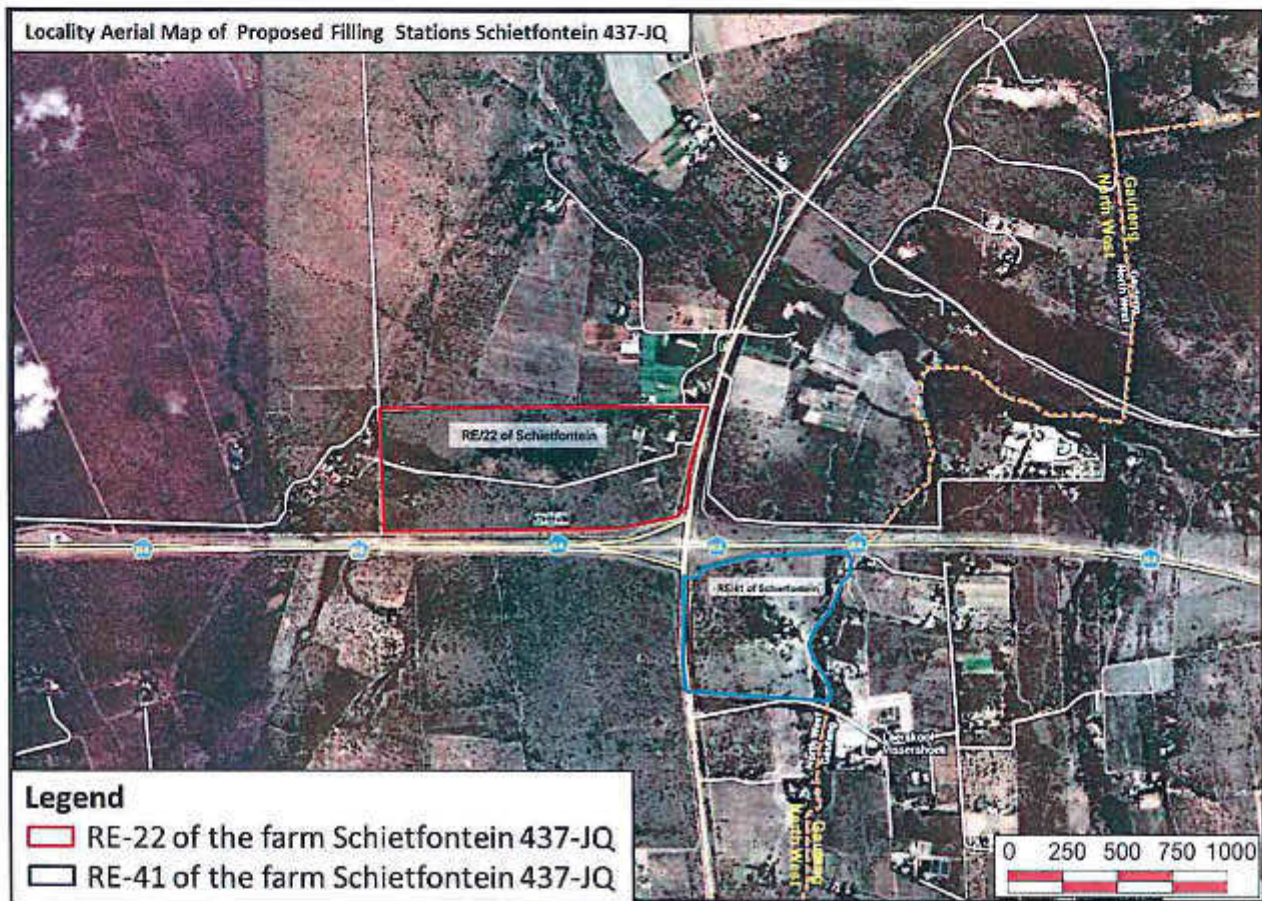


Figure 2: Aerial Map



Site Photographs

Annexure I







Environmental Management Programme

Annexure J

December
2015

Draft Environmental Management Programme (EMPr) for the proposed Q4 City Filling Stations, North- West Province

Ref nr: NWP/EIA/80/2013

BOKAMOSO
LANDSCAPE ARCHITECTS &
ENVIRONMENTALCONSULTANTS CC
P.O. BOX 11375
MAROELANA
0161

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1 Project Outline

1.1 Background

Bokamoso Landscape Architects and Environmental Consultants CC was appointed by **Q4 Chemicals (Pty) Ltd** to facilitate the application for Environmental Authorisation (EA) for the proposed Q4 City Filling Stations in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) and the 2010 Environmental Impact Assessment (EIA) Regulations. The proposed Q4 City Filling Stations will be situated on Part of Remainder of Portion 22 and Part of Remainder of Portion 41 of the Farm Schietfontein 437 JQ, North West Province. This Environmental Management Programme forms part of this application for an EA and had been prepared to comply with Section 32 of the National Environmental Management Act (NEMA), 1998 (Act 107 of 1998).

1.2 Project description

The proposed development will entail two Filling Stations, in total it will comprise of 14 tanks of 46 000ℓ for fuel (petrol and diesel). The total capacity of fuel for the proposed development will be 644 cubic meters.

The developable area is approximately 7.6ha and 8.5ha in extent for the two filling stations and is situated within the municipal area of **Madibeng Local Municipality; North West Province. (Refer to Figures 1, Locality Map and Figure 2, Aerial Map).**

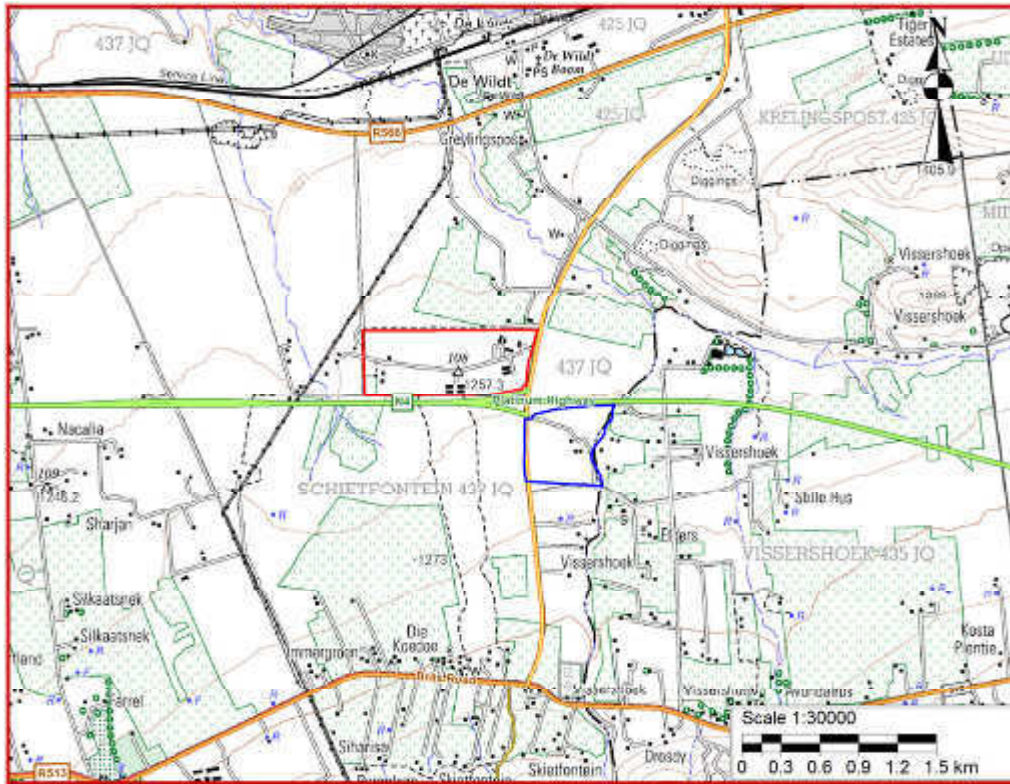


Figure 1 – Locality Map

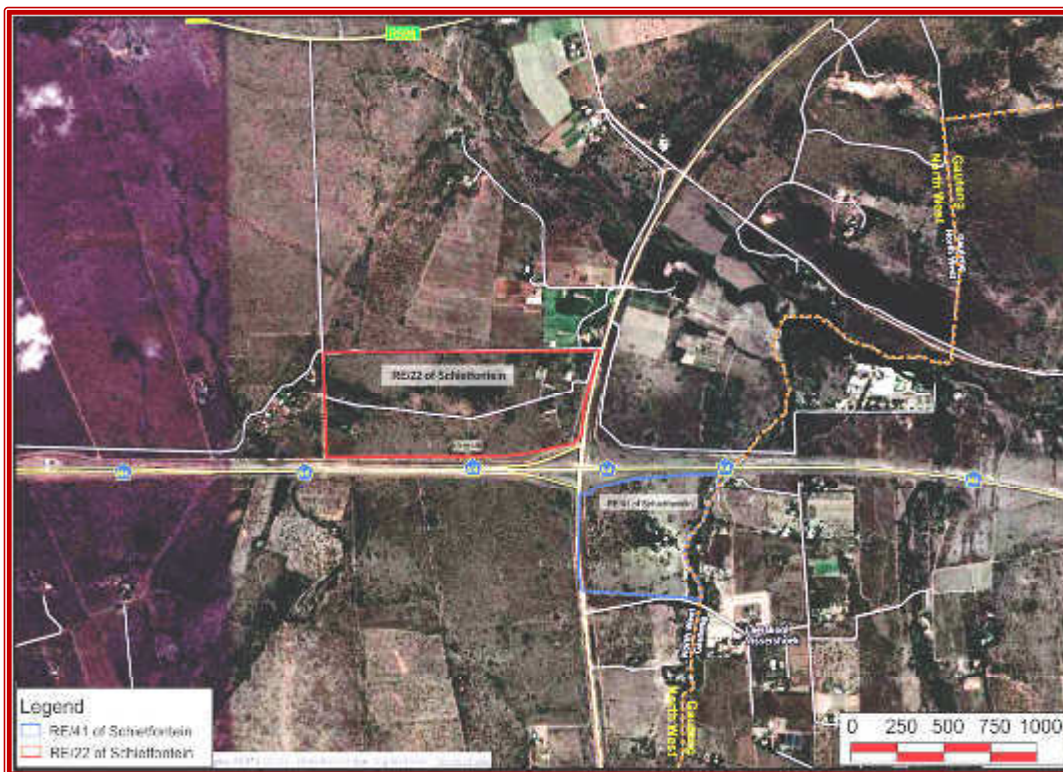


Figure 2 – Aerial Map

Timeframe for construction:

The construction of the proposed filling stations will commence as soon as approval for the proposed development has been secured from the relevant authorities.

The EMPr will be a binding document for purposes of compliance.

1.3 Receiving Environment

Geology:

- The site is situated in the area that is underlined between sedimentary rocks of Pretoria group which are located on the south of the terrain and the igneous rocks of the Bushveld complex located to the north of terrain.
- The proposed study area and the nearby surrounding environments are predominantly of basic igneous geology (ferrogabbro, ferrodiorite, diorite, gabbro, norite and anorthosite) with limited and enclosed quartzite, hornfels and shale.
- The general soil profile of the southern filling station is mainly of thick horizons of transported soils have been derived from the nearby Magaliesburg mountain ridge and they varying between sand clay and clayey sand. The northern filling station has soils were of the Hutton, Shortlands and Arcadia forms. None of the soils exhibited any morphological signs of wetness (hydromorphism).
- The site's terrain has a fairly good internal drainage. The sites' terrain mainly consists of transported material containing thick horizons of colluvium and residual soils comprising of decomposed highly weathered sandstone. These materials are underlain by residual soils or in-situ rocks at depth.

Hydrology:

- In general the southern site (Remainder of Portion 22) drains gently towards the north-west and the same for the northern site (Remainder of Portion 41), in general both are rather flat with the slight slope.
- No distinct drainage features are expected to be observed on the northern portion. The surrounding area outside the site is characterised by two drainage depressions that qualify as water courses with associated riparian zones. Due to the geology and specific soils these features also do not exhibit distinct signs of wetness (hydromorphism). The only wetland feature that could be identified is the drainage depression on the eastern boundary of the site on Remainder of Portion 41.
- It is expected that the slope will be sufficient to allow for natural storm water drainage as well as for the installation of essential services. The topographical characteristics will have no detrimental effect on the development potential of the site.
- Due to the specific geology and other soil forming factors and processes soils in basic igneous geology environments has no wetness in the form of mottles. The only

reliable indicator of saturation in the soils is grey low chroma matrix colours, which occur in drainage depressions only. There was no distinct drainage depressions identified on the proposed site.

Fauna and flora:

- The Drainage line vegetation on the Remainder of Portion 41 is deemed sensitive and should be excluded from development where possible.
- The Marula trees and the *Harpagophytum zeyheri* subsp. *zeyheri* should be conserved *in situ*.
- No protected or endangered Fauna were found on the site.
- It is concluded that no Red Data avifaunal species are likely to occur within the study area due to lack of suitable habitat.

Cultural /Historical:

- The site is of a low cultural significance. It should be noted that the subterranean presence of archaeological and/or historical sites, features or artifacts is always a distinct possibility. Care should therefore be taken when development commences that if any of these are discovered, a qualified archaeologist be called in to investigate the occurrence.

Visual:

- Due to the topography, the proposed development will have some visual impact and it will be visible from the N4 Highway (Rustenburg route).

Noise:

- Noise impacts from normal construction works.
- The operational phase will not have a significant noise impact on the surrounding residents.

Dust:

- Dust could impact the surrounding residences if the construction will be done during the dry and windy months. It is proposed that regular damping down of the study area must be done if constructed during dry and windy months.

Light:

- The lights from the proposed development could have an impact on the surrounding land owners.

2 EMPr Objectives and context

Objectives

The objectives of this document are to:

- Identify the possible environmental impacts of the proposed activity;
- Develop measures to minimise, mitigate and manage these impacts;
- Meet the requirements of the Environmental Authorisation (EA) and other Authorities; and
- Monitor the project.

EMPr context

This EMPr fits into the overall planning process of the project by carrying out the conditions of consent set out by the NWREAD. In addition, all mitigation measures recommended in the EIA report are included in the EMPr.

This EMPr addresses the following four phases of the development:

- Pre-construction planning phase;
- Construction phase; and
- Operational phase.

3 Monitoring

In order for the EMPr to be successfully implemented all the role players involved must have a clear understanding of their roles and responsibilities in the project.

These role players may include the Authorities (A), other Authorities (OA), Developer/proponent (D), Environmental Control Officer (ECO), Project Manager (PM), Contractors (C), Environmental Assessment Practitioner (EAP) and Environmental Site Officer (ESO). Landowners, interested and affected parties and the relevant environmental and project specialists are also important role players.

3.1 Roles and responsibilities

Developer (D)

The developer is ultimately accountable for ensuring compliance with the EMPr and conditions contained in the EA. The developer must appoint an independent Environmental Control Officer (ECO), for the duration of the pre-construction and construction phases, to ensure compliance with the requirements of this EMPr. The developer must ensure that the ECO is integrated as part of the project team.

Project Manager (PM)

The Project Manager is responsible for the coordination of various activities and ensures compliance with this EMPr through delegation of the EMPr to the contractors and monitoring of performance as per the Environmental Control Officer's monthly reports.

Environmental Control Officer (ECO)

An independent Environmental Control Officer (ECO) shall be appointed, for the duration of the pre-construction and construction phase of the services and bulk infrastructure, by the developer to ensure compliance with the requirements of this EMPr.

Contact details of appointed ECO

ECO details will be available as soon as developer appointed a company.

- The Environmental Control Officer shall ensure that the contractor is aware of all the specifications pertaining to the project.
- Any damage to the environment must be repaired as soon as possible after consultation between the Environmental Control Officer, Consulting Engineer and Contractor.
- The Environmental Control Officer shall ensure that the developer staff and/or contractor are adhering to all stipulations of the EMPr.
- The Environmental Control Officer shall be responsible for monitoring the EMPr throughout the project by means of site visits and meetings. This should be documented as part of the site meeting minutes.
- The Environmental Control Officer shall be responsible for the environmental training program.
- The Environmental Control Officer shall ensure that all clean up and rehabilitation or any remedial action required, are completed prior to transfer of properties.
- A post construction environmental audit is to be conducted to ensure that all conditions in the EMPr have been adhered to.

Contractor (C):

The contractors shall be responsible for ensuring that all activities on site are undertaken in accordance with the environmental provisions detailed in this document and that sub-contractor and laborers are duly informed of their roles and responsibilities in this regard.

The contractor will be required, where specified to provide Method Statements setting out in detail how the management actions contained in the EMPr will be implemented.

The contractors will be responsible for the cost of rehabilitation of any environmental damage that may result from non-compliance with the environmental regulations.

Environmental Site Officer (ESO):

The ESO is appointed by the developer as his/her environmental representative to monitor, review and verify compliance with the EMPr by the contractor. The ESO is not an independent appointment but must be a member of the contractor's management team. The ESO must ensure that he/she is involved at all phases of the construction (from site clearance to rehabilitation).

Authority (A):

The authorities are the relevant environmental department that has issued the Environmental Authorisation. The authorities are responsible for ensuring that the monitoring of the EMPr and other authorization documentation is carried out by means of reviewing audit reports submitted by the ECO and conducting regular site visits.

Other Authorities (OA):

Other authorities are those that may be involved in the approval process of the EMPr.

Environmental Assessment Practitioner (EAP):

According to section 1 of NEMA the definition of an environmental assessment practitioner is "the individual responsible for the planning, management and coordination of environmental impact assessments, strategic environmental assessments, environmental management plans or any other appropriate environmental instruments through regulations".

3.2 Lines of Communication

The Environmental Control Officer in writing should immediately report any breach of the EMP to the Project Manager. The Project Manager should then be responsible for rectifying

the problem on-site after discussion with the contractor. Should this require additional cost, then the developer should be notified immediately before any additional steps are taken.

3.3 Reporting Procedures to the Developer

Any pollution incidents must be reported to the Environmental Control Officer immediately (within 12 hours). The Environmental Control Officer shall report to the Developer on a regular basis (site meetings).

3.4 Site Instruction Entries

The site instruction book entries will be used for the recording of general site instructions as they relate to the works on site. There should be issuing of stop work order for the purposes of immediately halting any activities of the contractor that may pose environmental risk.

3.5 ESA/ESO (Environmental Site Officer) Diary Entries

Each of these books must be available in duplicate, with copies for the Engineer and Environmental Site Officer. These books should be available to the authorities for inspection or on request. All spills are to be recorded in the ESA/Environmental Site Officer's diary.

3.6 Methods Statements

Methods statements from the contractor will be required for specific sensitive actions on request of the authorities or ESA/ESO (Environmental Site Officer). All method statements will form part of the EMPr documentation and are subject to all terms and conditions contained within the EMPr document. For each instance wherein it is requested that the contractor submit a method statement to the satisfaction of ESA/ESO, the format should clearly indicate the following:

- What – a brief description of the work to be undertaken
- How- a detailed description of the process of work, methods and materials
- Where- a description / sketch map of the locality of work; and
- When- the sequencing of actions with due commencement dates and completion date estimate.

The contractor must submit the method statement before any particular construction activity is due to start. Work may not commence until the method statement has been approved by the ESA/ESO.

3.7 Record Keeping

All records related to the implementation of this management plan (e.g. site instruction book, ESA/ESO diary, methods statements etc.) must be kept together in an office where it is safe and can be retrieved easily. These records should be kept for two years at any time be available for scrutiny by any relevant authorities.

3.8 Acts

1. The National Water Act, 1998 (Act No: 36 of 1998)

The purpose of this Act is to ensure that the nation's water resources are protected, used, developed, conserved, managed and controlled in ways that take into account, amongst other factors, the following:

- Meeting the basic human needs of present and future generations;
- Promoting equitable access to water;
- Promoting the efficient, sustainable and beneficial use of water in the public interest;
- Reducing and preventing pollution and degradation of water resources;
- Facilitating social and economic development; and
- Providing for the growing demand for water use.

In terms of the Section 21 of the National Water Act, the developer must obtain water use licenses if the following activities are taking place:

- a) Taking water from a water resource;
- b) Storing water;
- c) Impeding or diverting the flow of water in a watercourse;
- d) Engaging in a stream flow reduction activity contemplated in section 36;
- e) Engaging in a controlled activity identified as such in section 37(1) or declared under section 38(1);
- f) Discharging waste or water containing waste into a water resource through a pipe, canal, sewer, sea outfall or other conduit;
- g) Disposing of waste in a manner which may detrimentally impact on a water resource;
- h) Disposing in any manner of water which contains waste from or which has been heated in any industrial or power generation process;
- i) Altering the bed, banks, course or characteristics of a water course;
- j) Removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people; and
- k) Using water for recreational purposes.

The National Water Act also required that (where applicable) the 1:50 and 1:100 year flood line be indicated on all the development drawings (even the drawings for the external services) that are being submitted for approval.

Impact on proposed Development:

Significant – Section 21 Water Use Licenses will be required for the proposed filling stations as water will be abstracted for domestic use.

2. National Environmental Management: Air Quality Act (Act No. 39 of 2004)

The NEMA: Air Quality Act, 2004 (here after referred to as NEM:AQA) repealed the Atmospheric Pollution Prevention Act, 1965 (Act 45 of 1965) ('APPA'), and came into effect on 11 September 2005. However Part 2 of this act is still applicable. Part 2 of the act is however still applicable and deals with the control of noxious or offensive gases. The proposed development will not release any of the listed gases into the atmosphere and this act is therefore not applicable to the proposed development. The list of activities which may result in atmospheric emissions which have a detrimental effect on the environment was amended and published on 22 November 2013 under Government Notice No. 893 in Gazette No. 37054.

The Air Quality Act regulates air quality in order to protect the environment. It provides reasonable measures for the prevention of pollution and ecological degradation and for securing ecological sustainable development while promoting justification economic and social development.

The purpose of the Act is "To reform the law regulating air quality in order to protect the environment by providing reasonable measures for the prevention of pollution and ecological degradation and for securing ecologically sustainable development while promoting justifiable economic and social development; to provide for national norms and standards regulating air quality monitoring, management and control by all spheres of government; for specific air quality measures; and for matters incidental thereto."

Amongst other things, it is intended that the setting of norms and standards will achieve the following:

- The protection, restoration and enhancement of air quality in South Africa ;
- Increased public participation in the protection of air quality and improved public access to relevant and meaningful information about air quality;
- The reduction of risks to human health and the prevention of the degradation of air quality.

The Act describes various regulatory tools that should be developed to ensure the implementation and enforcement of air quality management plans. These include:

- Priority Areas, which are air pollution "hot spots"

- Listed activities, which are 'problem' processes that require an Atmospheric Emission License;
- Controlled emitters, which includes the setting of emission standards for 'classes' of emitters, such as motor vehicles, incinerators, etc.
- Control of noise;
- Control of odours.

Impact on proposed Development:

Significant – It is not foreseen that the proposed filling station would contribute significantly in terms of pollution by smoke. Dust pollution could be a concern primarily during the construction phase of the proposed project. Dust control would be adequately minimised during this phase by way of water spraying and possible dust-nets, when working close to existing residential dwellings.

3. National Environmental Management Act (Act 107 of 1998)

The NEMA is primarily an enabling Act in that it provides for the development of environmental implementation plans and environmental management plans. The principles listed in the act serve as a general framework within which environmental management and implementation plans must be formulated.

The principles in essence state that environmental management must place people and their needs at the forefront of its concern and that development must be socially, environmentally and economically sustainable.

The Minister of Environmental Affairs, promulgated and passed in (April 2006) Environmental Impact Assessment Regulations (the new regulations) in terms of Chapter 5 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA). When these regulations came into effect on 3 July 2006 they replaced the Environmental Impact Assessment Regulations that were promulgated in terms of the Environmental Conservation Act, 1989 (Act No. 73 of 1989) (ECA) in 1997, and introduced new provisions for EIAs.

The National Environmental Management Amendment Act, 2008 (Act 62 of 2008) (NEMAA), that was promulgated on 9 January 2009 (came into effect on 1 May 2009), made a number of significant amendments to the general provisions applicable to EIA's. On 2 August 2010 the Amended EIA Regulations came into effect and replaced the previous EIA Regulations that were promulgated on 21 April 2006. Please note that amendments were made to the NEMA EIA Regulations on 4 December 2014 which came into effect on 8 December 2014.

Impact on proposed Development:

Significant – The proposed filling stations development is a listed activity in terms of the 2010 NEMA EIA Regulations, and thus should subsequently be considered, assessed and reported to the competent authority prior to commencement.

4. National Veld and Forest Fire Act, 1998 (Act No. 101, 1998)

The purpose of this Act is to prevent and combat veld, forest and mountain fires throughout the Republic. Furthermore the Act provides for a variety of institutions, methods and practices for achieving the prevention of fires.

Impact on proposed Development:

Significant – Fires of construction workers may only be lit in the designated site camp as indicated in assistance with the ECO. It is important that a site development camp be located on a part of the application site that is already disturbed. The camp should not be located in close proximity of natural veld grass areas or the drainage channel which connects to the surrounding open spaces in the direct vicinity.

5. National Environmental Management Act: Biodiversity Act (Act No. 10 of 2004)

The purpose of the Biodiversity Act is to provide for the management of South Africa's biodiversity within the Framework of the NEMA and the protection of species and ecosystems that warrant National protection. As part of the implementation strategy, the National Spatial Biodiversity Assessment was developed.

Under this Act notices are published in terms of alien and invasive species or threatened ecosystems in order to promote the biodiversity of natural resources and protect species endemic to South Africa. Specialist studies need to be conducted for the study area.

Impact on proposed Development:

Significant – The sites are not characterised as sensitive areas. However, the vegetation type they fall in, Marikana Thornveld, is considered vulnerable.

6. National Road Traffic Act, 1996 (Act No. 93 of 1996)

This Act provides for all road traffic matters which shall apply uniformly throughout the Republic and for matters connected therewith.

Not Significant – the proposed filling station development will comply with the National Road Traffic Act.

7. Environmental Conservation Act: Noise Regulations, 1989 (Act no.73 of 1989)

The purpose of this Act is to provide measures and management relating Noise levels. This Act enables Noise levels to be acceptable to standards within a specific area and community.

Impact on proposed Development:

Significant – The proposed development may include some noisy activities.

8. The National Heritage Resources Act, 1999 (Act 25 of 1999) (NHRA)

The NHRA requires heritage resources impact assessments for various categories of development stipulated in section 38 of the Act. It also provides for the grading of heritage resources and the implementation of a three-tier level of responsibilities and functions for heritage resources to be undertaken by the State, Provincial authorities, depending on the grade of the heritage resource. The Act defines cultural significance, archaeological and paleontological sites and materials (section 35), historical sites and structures (section 34), and graves and burial sites (section 36) that fall under its jurisdiction. Archaeological sites and material are generally those resources older than a hundred years, including gravestones and grave dressing. Procedures for managing graves and burial grounds are set out in section 36 of the NHRA. Graves older than 100 years are legislated as archaeological sites and must be dealt with accordingly. Section 38 of the NHRA makes provision for application by developers for permits before any heritage resource may be damaged or destroyed.

Impact on proposed Development:

Not Significant - No graves or structures of cultural importance have been identified on the areas proposed for the filling stations development. A Heritage Impact Assessment was done for the farm portions of this proposed development. If any remains/cultural resources are exposed or uncovered during the construction phase, it should immediately be reported to the South African Heritage Resources Agency (SAHRA) and construction should be ceased until a specialist was on site. Burial remains should not be disturbed or removed until inspected by an archaeologist.

9. National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008):

The Waste Management Act which was finally Gazetted on 10 March 2009, is to give effect to the White Paper on Integrated Pollution and Waste Management and the National Waste Management Strategy (NWMS). The list of triggered activities was amended and published on 29 November 2013.

Purpose:

To reform the law regulating waste management in order to protect the health and the environment by providing reasonable measures for the prevention of pollution and ecological degradation and for securing ecologically sustainable development; to provide for institutional arrangements and planning matters; national norms and standards for regulating the management of waste by all spheres of government; to provide for specific waste management measures; to provide for the licensing and control of waste management activities; to provide for the remediation of contaminated land; to provide for the national waste information system; to provide for compliance and enforcement; and to provide for matters connected therewith.

Impact on proposed Development:

Not significant - Should the development trigger any of the listed activities in the Act, relevant authorizations will be required.

10. The National Environmental Management: Protected Areas Act, 2003 (Act No 57 of 2003)

The purpose of this Act is to provide for the protection, conservation and management of ecologically viable areas representative of South Africa's biological diversity and its natural landscapes and seascapes, for the management of those areas in accordance to national norms and standards, as well as for the intergovernmental co-operation and public consultation in matters concerning protected areas. Protected areas are to be conserved for their biodiversity and ecological integrity.

Impact on proposed Development:

Not significant- The proposed filling stations do not fall within any protected areas.

11. The Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983)

The Act provides for the control over the utilisation of Natural Agricultural resources of South Africa, in order to promote the conservation of soil, water sources and vegetation, as well as combating of weeds and invader plants and for matters connecting therewith.

Impact on proposed Development:

Not significant- According to a GIS desktop study, the study area has high grazing potential. Bokamoso are however of the opinion that as the development site is considered small and located adjacent to the N4 highway, it would not be viable to utilise the site alternatively for the purpose of agriculture.

4 Project activities

4.1 Pre-Construction Phase

TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
General	Project contract	To make the EMPr enforceable under the general conditions of the contract.	The EMPr document must be included as part of the tender documentation for all contractor appointments	The EMPr is included as part of the tender documentation	Developer	-
	Storm water design	To prevent and restrict erosion, siltation and groundwater pollution	<p>1) A detailed storm water management plan must be approved by the Local Authority prior to commencement of construction activities. Must be implemented according to guidelines provided by the relevant Local Authority Departments.</p> <p>2) The storm water design for the proposed development must be designed to: Reduce and/ or prevent siltation, erosion and water pollution.</p> <p>3) Storm water runoff should not be concentrated as far as possible and sheet flow should be implemented.</p> <p>4) Energy dissipaters must be installed on the study area to break the speed of the water.</p> <p>5) Surface storm water generated as a result of the development must not be channeled directly into any natural drainage system or wetland.</p> <p>6) The storm water management plan should be designed in a way that aims to ensure that post development runoff does not exceed predevelopment values in:</p> <ul style="list-style-type: none"> - Peak discharge for any given storm; - Total volume of runoff for any given 	Compilation and approval of storm water management plan	Engineer Individual Developer	-

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			storm; - Frequency of runoff; and - Pollutant and debris concentrations reaching water courses.			
			Storm water management on site and around all fuel/oil bearing infrastructure should aim the fast and efficient disposal of water into the surrounding and existing drainage systems.	Compilation and approval of storm water management plan	Engineer Individual Developer	
	Light pollution	To minimise light pollution	Street and security lighting must be designed in order not to spread light into the eyes of oncoming traffic on adjacent the N4 Platinum Highway. Internal streets and security lighting should also be designed not to disturb land owners at night. Light beams must face downwards and not higher than a 45 degree angle from the ground.	Lighting effectively designed.	Architect	-
Climate	Extreme change in micro climate temperatures	To prevent the extreme change in micro climate temperatures	Where open parking bays are involved, at least one indigenous tree for every two open parking bays shall be indicated on the Site Development Plan which shall be approved by the Local Authority and Design Review Committee, if any.	Landscape Development Plan complies	Landscape Architect	-
Fauna and flora	Floral biodiversity and ecological health	To ensure that the species introduced to the area, are compatible with the current and future quality of the ecological processes.	1) The landscape development plan (LDP) for the proposed development shall be submitted to the local authority for approval. 2) The LDP should include all formal landscaping including proposed plant species, quantities, sizes and densities. At least 80% of the plant species on site should be indigenous or endemic species.	The landscape development plan submitted to the local authority for approval.	Landscape Architect	-
Preparing Site Access	Environmental integrity	To avoid erosion and disturbance to indigenous	Designated routes shall be determined for the construction vehicles and designated areas for storage of equipment. Clearly mark the site access point and	Access to site is erosion free. Minimum	Contractor	Continuous

Environmental Management Programme (EMPr) for the proposed Q4 City Filling Stations

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
		vegetation	routes on site to be used by construction vehicles and pedestrians. Provide an access map to all contractors whom in turn must provide copies to the construction workers. Instruct all drivers to use access point and determined routes.	disturbance to surrounding vegetation. Vehicles make use of established access routes.		
	Waste storage	To control the temporary storage of waste.	Temporary waste storage points on site shall be determined. These storage points shall be accessible by waste removal trucks and these points should not be located in sensitive areas/areas highly visible from the properties of the surrounding land-owners/tenants/in areas where the wind direction will carry bad odours across the properties of adjacent tenants or landowners.		Contractor ESO	-
		Ensure waste storage area does not generate pollution	Build a bund around waste storage area to stop overflow into storm water.		Contractor	-

4.2 Construction Phase

<i>TYPE</i>	<i>Environmental risk or issue</i>	<i>Objective or requirement</i>	<i>Mitigation measure</i>	<i>Performance indicator</i>	<i>Responsibility</i>	<i>Frequency of Action</i>
Contractor's Camp	Loss of Vegetation and topsoil	To minimize damage to and loss of vegetation and retain quality of topsoil	1) Site to be established under supervision of ECO/ESO.	Minimal vegetation removed/ damaged during site activities.	Contractor	Before any construction activity commences and as and when required
	Surface and ground water pollution	To minimize pollution of surface and groundwater resources.	<p>1) Sufficient and temporary facilities including ablution facilities must be provided for construction workers operating on the site.</p> <p>2) A minimum of one chemical toilet shall be provided per 10 construction workers. The contractor shall keep the toilets in a clean, neat and hygienic condition. Toilets provided by the contractor must be easily accessible and a maximum of 50m from the works area to ensure they are utilized. The contractor (who must use reputable toilet-servicing company) shall be responsible for the cleaning, maintenance and servicing of the toilets. The contractor (using reputable toilet-servicing company) shall ensure that all toilets are cleaned and emptied before the builders' or other public holidays.</p> <p>3) No person is allowed to use any other area than chemical toilets.</p> <p>4) No French drain systems may be installed.</p> <p>5) No chemical or waste water must be allowed to contaminate the run-off on site. This could possibly contaminate the drainage channel.</p> <p>6) Avoid the clearing of the site camp (of specific phase) or paved surfaces with soap. This could drain into the drainage channel</p>	<p>Effluents managed Effectively.</p> <p>No pollution of water resources from site.</p> <p>Workforce use toilets provided.</p>	Contractor ESO	As and when required

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			on site and contaminate to open space system in the area.			
		To minimize pollution of surface and groundwater resources due to spilling of materials.	1) Drip trays and/ or lined earth bunds must be provided under vehicles and equipment, to contain spills of hazardous materials such as fuel, oil and cement. 2) Repair and storage of vehicles only within the demarcated site area. 3) Spill kits must be available on site. 4) Oils and chemicals must be confined to specific secured areas within the site camp. These areas must be bunded with adequate containment (at least 1.5 times the volume of the fuel) for potential spills or leaks. 5) All spilled hazardous substances must be contained in impermeable containers for removal to a licensed hazardous waste site. 6) No leaking vehicle shall be allowed on site. The mechanic/ the mechanic of the appointed contractor must supply the environmental officer with a letter of confirmation that the vehicles and equipment are leak proof. 7) No bins containing organic solvents such as paints and thinners shall be cleaned on site, unless containers for liquid waste disposal are placed for this purpose on site.	No pollution of the environment	Contractor ESO	Daily
		To minimize pollution of surface and groundwater resources by cement	The mixing of concrete shall only be done at specifically selected sites, as close as possible to the entrance, on mortar boards or similar structures to prevent run-off into drainage line, streams and natural vegetation.	No evidence of contaminated soil on the construction site.	Contractor ESO	Daily
		To minimize pollution of surface and Groundwater	No effluent (including effluent from any storage areas) may be discharged into any water surface or ground water resource.	No evidence of contaminated water resources.	Contractor ESO	Daily

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
		resources due to effluent.				
		To prevent spillages and leakages	<ul style="list-style-type: none"> • Leak detection facilities must be installed around the storage tanks and vapour samples must be taken according to a six monthly monitoring programme. • On-site monitoring boreholes should be installed, during the construction phase of the filling stations and should be monitored closely. This should be done to protect the perched aquifer, which is vulnerable to pollution: <ul style="list-style-type: none"> - The surface water head and runoff should be monitored with the groundwater levels. For this purpose a continuous water level recorder should be installed in at least one of the monitoring boreholes. - The surface and groundwater quality should be monitored, especially surface water releases from industrial and other activities upstream. • To limit groundwater pollution areas around the perimeter of all structures should be appropriately paved, this also applies to areas used for the proposed storage tanks and peripheral infrastructure as it would limit/ prevent groundwater contamination after spillage. A flexible sealant should be applied to joints between paved areas and the walls of buildings to prevent moisture reaching foundations. • The construction camps as well as sanitation facilities should be correctly positioned to ensure that no wastewater runs freely into naturally vegetated areas 	Groundwater monitoring boreholes installed	Engineer Contractor	

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			or surrounding streets.			
		To prevent spillages	All pipes and connections to the proposed tanks must be provided with flexible coupling.	Flexible couplings provided	Contractor	
		To prevent spillages	All fuel dispensers must include a shut-off valve.	Shut-off valve in fuel dispensers.	Developer Contractor	
	Pollution of the environment	To prevent unhygienic usage on the site and pollution of the natural assets.	<p>1) Weather proof waste bins must be provided and emptied regularly.</p> <p>2) The contractor shall provide laborers to clean up the contractor's camp and construction site on a daily basis.</p> <p>3) Temporary waste storage points on the site should be determined. THESE AREAS SHALL BE PREDETERMINED AND LOCATED IN AREAS THAT IS ALREADY DISTURBED. These storage points should be accessible by waste removal trucks and these points should be located in already disturbed areas /areas not highly visible from the properties of the surrounding land-owners/ in areas where the wind direction will not carry bad odours across the properties of adjacent landowners. This site should comply with the following:</p> <ul style="list-style-type: none"> • Skips for the containment and disposal of waste that could cause soil and water pollution, i.e. paint, lubricants, etc.; • Small lightweight waste items should be contained in skips with lids to prevent wind littering; • Bunded areas for containment and holding of dry building waste. <p>4) No solid waste may be disposed of on the site.</p> <p>5) No waste materials shall at any stage be disposed of in the open veld of adjacent</p>	<p>No waste bins overflowing</p> <p>No litter or building waste lying in or around the site</p>	Contractor ESO	Daily Weekly

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			<p>properties.</p> <p>6) The storage of solid waste on the site, until such time as it may be disposed of, must be in a manner acceptable to the local authority and DWS.</p> <p>7) Cover any wastes that are likely to wash away or contaminate storm water.</p>			
		<p>Recycle material where possible and correctly dispose of unusable wastes</p>	<p>1) Waste shall be separated into recyclable and non-recyclable waste, and shall be separated as follows:</p> <ul style="list-style-type: none"> • General waste: including (but not limited to) construction rubble, • Reusable construction material. <p>2) Recyclable waste shall preferably be deposited in separate bins.</p> <p>3) All solid waste including excess spoil (soil, rock, rubble etc.) must be removed to a permitted waste disposal site on a weekly basis.</p> <p>4) No bins containing organic solvents such as paints and thinners shall be cleaned on site, unless containers for liquid waste disposal are placed for this purpose on site.</p> <p>5) Keep records of waste reuse, recycling and disposal for future reference. Provide information to ESO.</p>	<p>Sufficient containers available on site</p> <p>No visible signs of pollution</p>	<p>Contractor ESO</p>	<p>Daily Weekly</p>
	<p>Fauna and Flora</p>	<p>To ensure protection of existing fauna and flora</p>	<p>Dumping of builder's rubble and other waste in the areas earmarked for exclusion must be prevented through fencing or other management measures. These areas must be properly managed throughout the lifespan of the project in terms of fire, eradication of exotics, entrance of vehicles, etc. to ensure continuous biodiversity. All alien species must be eradicated from the study area;</p> <p>The removal of Category 1 Declared</p>	<p>Existing fauna and flora protected</p>	<p>Contractor ESO</p>	<p>Continuously</p>

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			invaders from the property is mandatory and Category 2 Declared invaders must be controlled in terms of the Conservation of Agricultural Resources Act, 1983 and Section 28 of NEMA, 1998. An invasive control plan should be implemented every 3 months after construction.			
		To protect the existing fauna and flora.	1) Snaring and hunting of fauna by construction workers on or adjacent to the study area are strictly prohibited and offenders shall be prosecuted. 2) Where possible, work should be restricted to one area at a time. 3) Noise should be kept to a minimum and the development should be done in phases to allow faunal species to temporarily migrate into the conservation areas in the vicinity. 4) The integrity of remaining wildlife should be upheld, and no trapping or hunting by construction personnel should be allowed on clumps and natural grassland areas to be retained and incorporated within the proposed development formal landscaping, must be marked and demarcated before any commencement of construction activities.	No measurable signs of habitat destruction	Contractor ESO	As and when required
	Increased fire risk to site and surrounding areas	To decrease fire risk.	1) Fires shall only be permitted in specifically designated areas and under controlled circumstances. 2) Food vendors shall be allowed within specified areas. 3) Fire extinguishers to be provided in all vehicles and fire beaters must be available on site. 4) Emergency numbers/ contact details must	No open fires on site that have been left unattended	Contractor	Monitor daily

Environmental Management Programme (EMPr) for the proposed Q4 City Filling Stations
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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			be available on site, where applicable.			
Construction site	Geology and soils	To prevent the damaging of the existing soils and geology.	<p>1) The top layer of all areas to be excavated for the purposes of construction shall be stripped and stockpiled in areas where this material will not be damaged, removed or compacted.</p> <p>2) All surfaces that are susceptible to erosion, shall be protected either by cladding with biodegradable material or with the top layer of soil being seeded with grass seed/planted with a suitable groundcover.</p>	<p>Excavated materials correctly stockpiled</p> <p>No signs of erosion</p>	Contractor	Monitor daily
		<p>To prevent the loss of topsoil</p> <p>To prevent siltation & water pollution.</p>	<p>1) Stockpiling will only be done in designated places where it will not interfere with the natural drainage paths of the environment.</p> <p>2) In order to minimize erosion and siltation and disturbance to existing vegetation, it is recommended that stockpiling be done/ equipment is stored in already disturbed/ exposed areas.</p> <p>3) Cover stockpiles and surround downhill sides with a sediment fence to stop materials washing away.</p> <p>4) Remove vegetation only in areas designated during the planning stage and for the purpose of construction.</p> <p>5) Rehabilitation/ landscaping to be done immediately after the involved works are completed (will prevent erosion of the topsoil layer on site).</p> <p>6) All compacted areas should be ripped prior to them being rehabilitated/ landscaped by the contractor.</p> <p>7) The top layer of all areas to be excavated must be stripped and stockpiled in areas where this material will not be damaged, removed or compacted. This stockpiled</p>	<p>Excavated materials correctly stockpiled</p> <p>No visible signs of erosion and sedimentation</p> <p>Minimal invasive weed growth</p> <p>Vegetation only removed in designated areas</p>	Contractor of Developer	Monitor daily

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			<p>material should be used for the rehabilitation of the site and for landscaping purposes.</p> <p>8) Strip topsoil at start of works and store in stockpiles no more than 1,5 m high in designated materials storage area.</p> <p>9) During the laying of any cables, pipelines or infrastructure (on or adjacent to the site) topsoil shall be kept aside to cover the disturbed areas immediately after such activities are completed. Rehabilitation of these areas shall be done directly after infill of the trenches. No rocks shall be placed on the topsoil after re-filling.</p> <p>10) Temporary storm water management measures need to be implemented during the construction phase.</p>			
		To ensure stability of structures	<ul style="list-style-type: none"> • The foundation recommendations supplied by the involved Geotechnical Engineers must be implemented; ▪ All foundations excavations should be inspected by an experienced engineer prior to casting of concrete. 			
		To ensure safety during blasting activities (if required)	<ul style="list-style-type: none"> • Blasting may only be done by specialists in the field and should be limited to localised areas. • Surrounding land-owners of properties in close proximity of blasting exercises must be informed/ warned (at least one week in advance) of blasting exercises that will take place on the study area. • Warning signs to warn site workers and members of the public of blasting exercises must be erected at strategic points on the study area and the area where the blasting exercises will take place must be fenced off with barrier tape The necessary precautions must be 	<p>Mitigation measures in place</p> <p>Surrounding residents notified</p>	<p>Contractor</p> <p>Engineers</p> <p>ESO</p>	When required

Environmental Management Programme (EMPr) for the proposed Q4 City Filling Stations

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			<p>in place when blasting takes place;</p> <ul style="list-style-type: none"> Surrounding residents must be notified of any blasting activities. 			
	Storm water, Erosion and siltation	To prevent erosion and siltation	<ol style="list-style-type: none"> Mark out the areas to be excavated. Large exposed areas during the construction phases should be limited. Where possible areas earmarked for construction during later phases should remain covered with vegetation coverage until the actual construction phase. This will prevent unnecessary erosion and siltation in these areas. Unnecessary clearing of flora resulting in exposed soil prone to erosive conditions should be avoided. The eradication of alien vegetation should be followed up as soon as possible by replacement with indigenous vegetation to ensure quick and sufficient coverage of exposed areas. Storm water outlets shall be correctly designed to prevent any possible soil erosion. All surface run-offs shall be managed in such a way so as to ensure erosion of soil does not occur. Implementation of temporary storm water management measures that will help to reduce the speed of surface water. 	<p>No erosion scars</p> <p>No loss of topsoil</p> <p>All damaged areas successfully rehabilitated</p>	Contractor ESO	Monitor daily
		To minimise pollution of soil, surface and groundwater	<ol style="list-style-type: none"> Increased run-off during construction must be managed using berms and other suitable structures as required to ensure flow velocities are reduced. The contractor shall ensure that excessive quantities of sand, silt and silted water do not enter the storm water system. 	<p>No visible signs of erosion.</p> <p>No visible signs of pollution</p>	Contractor	Monitor daily
		Groundwater	<ul style="list-style-type: none"> Sub-surface drainage measures should 			

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
		seepage	<p>be installed prior to any construction work in wet areas.</p> <ul style="list-style-type: none"> • Groundwater should be removed from excavations. • Adequate drainage and services precautions should be implemented to reduce the risk associated with the expected shallow seasonal water table. • Proper damp proofing precautions should be taken and cognizance should be taken of the presence of shallow water in the design of underground containers. Subsurface containers will have to be anchored or weighted down to prevent uplift when emptied during the wet season. 			
		To minimise damage to environment during wet periods	<p>Construction workers and construction vehicles and machinery must stay out of the soggy areas during the wet periods. Barrier tape should be used to demarcate the areas that are drenched with water and it should only be removed when the appointed Environmental Control Officer (ECO)/ site supervisor/ project manager/ main contractor regard the conditions in the affected areas as favorable.</p>		Contractor	
		To reduce altered surface water flows	<ul style="list-style-type: none"> • Construction activities should preferably take place during the winter months • If it is not possible for construction activities to take place during the winter months, construction activities should take place in phases in order to prevent large exposed areas that will cause an increase in the speed of surface water. • When storm water planning is done, every attempt possible should be made to keep the post construction and pre- 		Contractor	

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			construction flows similar.			
	Insufficient drainage systems		<ul style="list-style-type: none"> Implement temporary storm water management measures that will help to reduce the speed of surface water. These measures will also assist with the prevention of water pollution, erosion and siltation. No excavated materials should be dumped in or near drainage channels. Sandbags and hay bales can be used as temporary measures to assist with storm water management and erosion control. 			
	Fauna and flora	To protect the existing fauna and flora.	1) All exotic invaders and weeds must be eradicated on a continuous basis.		Contractor ESO/ Design Review Committee	As and when required Every 6 months
Social	Noise impact		<ul style="list-style-type: none"> Site workers must comply with the Provincial noise requirements as outlined. Construction site yards, workshops, concrete batching plants, and other noisy fixed facilities should be located well away from noise sensitive areas. Once the proposed final layouts are made available by the contractor(s), the sites must be evaluated in detail and specific measures designed into the system. All construction vehicles, plant and equipment are to be kept in good repair. Truck traffic should be routed away from noise sensitive areas, where possible. Noisy operations should be combined so that they occur where possible at the same time. 	No complaints from surrounding residents and I & AP's	Contractor	Monitored daily

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			<ul style="list-style-type: none"> • Blasting operations (if required) are to be strictly controlled with regard to the size of explosive charge in order to minimize noise and air blast, and timings of explosions. The number of blasts per day should be limited, blasting should be undertaken at the same times each day and no blasting should be allowed at night. • Construction activities are to be contained to reasonable hours during the day and early evening. Night-time activities near noise sensitive areas should not be allowed. No construction should be allowed on weekends from 14h00 on Saturday afternoons to 06h00 the following Monday morning. • With regard to unavoidable very noisy construction activities in the vicinity of noise sensitive areas, the contractor should liaise with local residents on how best to minimize impact, and the local population should be kept informed of the nature and duration of intended activities. Very noisy activities will need to be screened off specifically for those in the office and apartment buildings before the structures are cladded. • As construction workers operate in a very noisy environment, it must be ensured that their working conditions comply with the requirements of the Occupational Health and Safety Act (Act No 85 of 1993). Where necessary ear protection gear should be worn. 			

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
	Dust impact	Minimise dust from the site	<p>1) Dust pollution could occur during the construction works, especially during the dry months. Regular and effective damping down of working areas (especially during the dry and windy periods) must be carried out to avoid dust pollution that will have a negative impact on the surrounding environment.</p> <p>2) When necessary, these working areas should be damped down in the mornings and afternoons.</p> <p>3) Sweeping of the construction site, clearing of builders' rubble and debris as well as the regular watering of the construction site (storage areas, roads etc.) must take place at least once a day.</p>	<p>No visible signs of dust pollution</p> <p>No complaints from surrounding residents and I & AP's</p>	Contractor ESO	Monitored daily
	Heritage Sites	To ensure protection of possible heritage sites	<ul style="list-style-type: none"> • If construction takes place and any archaeological sites are exposed, it should immediately be reported to a museum, preferably one at which an archaeologist is available, so that an investigation and evaluation of the finds can be made. • It should be noted that in terms of the South African Resources Act (Act 25 of 1999) Section 35(4) no person may, without a permit issued by the responsible heritage resources authority destroy, damage, excavate, alter, deface or otherwise disturb any archaeological or palaeontological site or material. • Also important is that Section 34(1) of this act states that no person may alter or demolish any structure or part of a structure, which is older than 60 years without a permit, issued by the relevant 	Archaeological site protected if occurs.	Contractor Developer ESO	Continuously

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			provincial heritage resources authority.			
	Safety and security	To ensure the safety and security of the public.	<p>1) Although regarded as a normal practice, it is important to erect proper signs indicating the operations of heavy vehicles in the vicinity of dangerous crossings and access roads or even in the development site if necessary.</p> <p>2) With the exception of the appointed security personnel, no other workers, friend or relatives will be allowed to sleep on the construction site (weekends included)</p> <p>3) Construction vehicles and activities to avoid peak hour traffic times</p> <p>4) Presence of law enforcement officials at strategic places must be ensured</p> <p>5) Following actions would assist in management of safety along the road</p> <ul style="list-style-type: none"> ▪ Adequate road marking ▪ Adequate roadside recovery areas ▪ Allowance for pedestrians and cyclists where necessary ▪ Although regarded as a normal practice, it is important to erect proper signs indicating the danger of the excavation in and around the development site. Putting temporary fencing around excavations where possible. 	No incidences reported	Contractor ECO	Monitored daily
	Influx of people from other areas	In order to limit the influx of people from other areas	It is recommended that (where possible) only people from the local communities in and around the application site are employed.	People from local community employed.	Contractor	When required
		Installation of services	<ul style="list-style-type: none"> • Determine areas where services will be upgraded and relocated well in advance. • Discuss possible disruptions with affected parties to determine most convenient 	No complaints from I & AP's	Contractor ESO	When required

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			<p>times for service disruptions and warn affected parties well in advance (48 hours before the disruption) of dates that service disruptions will take place</p> <ul style="list-style-type: none"> • The use of non-ferrous metal pipes or plastic pipes is recommended for wet services. • Neighbouring land owners should be notified of the commencement of construction of the filling stations. It should also be brought under their attention that there might be a possibility of services interruptions during the construction phase. • Neighbouring land owners should be notified of services interruptions at least 24 hours before the potential interruption. 			
	Visual impact	In order to minimise the visual impact	<p>1) The disturbed areas shall be rehabilitated immediately after the involved construction works are completed.</p> <p>2) Shade cloth must be used to conceal and minimise the visual impact of the site camps and storage areas.</p>	Visual impacts minimized	Contractor ESO	Monitor daily
			Advertisements and/or sign boards shall not be erected or displayed on the property without the approval of the municipality and SANRAL first being obtained in terms of municipal by-laws for outdoor advertising.	Visual impacts minimized	Contractor Manager	
			<ul style="list-style-type: none"> • Roof materials used for buildings and structures must be non-reflective materials and not bright. • Suitable plant materials should be used at strategic points to screen off impacts caused by roofs and cars in the parking areas. • All equipment and materials should be stored in a designated area indicated by 	Visual impacts minimized	Contractor Manager	

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			<p>the ECO.</p> <ul style="list-style-type: none"> • All areas must be kept neat and tidy and waste should be stored in the designated areas and removed on a weekly basis. • The proposed development will be seen from a distance and therefore the roofs should not reflect the sun or be covered with roofing materials that have bright colours. • Landscaping should be done in concurrence with the building construction in order to create an instant visual enhancement of the development. • The landscaping of the proposed development should blend in with the natural vegetation of the area. Trees, shrubs and groundcovers that are endemic to the area and/or indigenous should preferably be used – landscaping that is in line with the natural vegetation of the area will not only help to reduce the visual impact of the development, but it will also create habitats for fauna and flora species. • The landscaping shall be completed by completion of the development. The continued maintenance of the landscaped development shall be to the satisfaction of the Municipality. 			
	Vegetation	Landscaping	<p>1) When planting trees, care should be taken to avoid the incorrect positioning of trees and other plants, to prevent the roots of trees planted in close proximity to the line of water-bearing services from causing leaking in, or malfunctioning of the services. 2) The proposed planting materials for the</p>	Landscaping done according to landscape development plan	Landscape architect Contractor	When required

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			<p>areas to be landscaped should preferably be endemic and indigenous.</p> <p>3) All new trees and shrubs to be planted on the study area shall be inspected for pests and diseases prior to them being planted.</p> <p>4) The inspection shall be carried out by the maintenance contractor at the property of the supplier and not on the study area.</p> <p>5) All trees to be planted shall be in 20L containers with a height of approximately 1,8 metres and a main stem diameter of approximately 300 mm.</p>			
		Loss of plants	<p>1) Aerate compacted soil and check and correct pH for soils affected by construction activities.</p> <p>2) Make sure plant material will be matured enough and hardened off ready for planting. Water in plants immediately as planting proceeds.</p> <p>3) Apply mulch to conserve moisture Plant according to the layout and planting techniques specified by the Landscape Architect in the Landscape Development plans for the site.</p> <p>4) Where possible, trees naturally growing on the site should be retained as part of the landscaping;</p> <p>5) Measures to ensure that the Protected trees on site (Marula tree) survive the physical disturbance from the development should be implemented. A tree surgeon should be consulted in this regard.</p> <p>6) Vegetation should only be removed in areas designated for construction.</p>	Landscaping done according to landscape development plan	Landscape architect Contractor	When required
		Spread of weeds	<ul style="list-style-type: none"> Ensure that materials used for mulching and topsoil/ fertilisers are certified weed free. Collect certifications where 	Weed growth controlled	Landscape architect Contractor	When required

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			<p>available.</p> <ul style="list-style-type: none"> Control weed growth that appears during construction. The removal of Category 1 Declared invaders from the property is mandatory and Category 2 Declared invaders must be controlled in terms of the Conservation of Agricultural Resources Act, 1983 and Section 28 of NEMA, 1998. An invasive control plan should be implemented every 3 months after construction. Ensure that materials used for mulching and topsoil/ fertilisers are certified weed free. Collect certifications where available. Control weed growth that appears during construction. 			
		To ensure rehabilitation of the site	<ol style="list-style-type: none"> 1) Compacted soils shall be ripped at least 200mm. 2) All clumps and rocks larger than 30mm diameter shall be removed from the soil to be rehabilitated 3) The soil shall be leveled before seeding 4) Hydro-seed the soil with Potch mixture or plant with suitable indigenous ground covering as specified) 5) Watering shall take place at least once per day for the first 14 days until germination of seeds have taken place 6) Thereafter watering should take place at least for 20 minutes every 4 days until grass have hardened off. 7) The top layer of all areas to be excavated must be stripped and stockpiled in areas where this material will not be damaged, removed or compacted. This stockpiled material should be used for the rehabilitation 	Grass have hardened off	Landscape architect Contractor	Once a day Then every 4 days

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Performance indicator	Responsibility	Frequency of Action
			of the site and for landscaping purposes. 8) Weeds and exotic invaders should be eradicated on a continuous basis			
	Fauna	To prevent loss of fauna species	<ul style="list-style-type: none"> • The integrity of the remaining wildlife should be upheld, and no trapping or hunting by construction personnel should be allowed; • During the construction phase, noise should be kept to a minimum to reduce the impact of the development on the fauna. • Vegetation should only be removed in areas designated for construction. • Where possible, work should be restricted to one area at a time. 	No fauna species lost	Contractor Site manager	

4.3 Operational Phase

TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Responsibility	Frequency of Action
SITE CLEAN UP AND PREPARED FOR USE	Storm water pollution	Do not allow any materials to wash into the storm water system.	Remove erosion and sediment controls only if all bare soil is sealed, covered or re-vegetated. Sweep roadways clean and remove all debris from kerb and gutter areas. Do not wash into drains.	Contractor	-
		Minimise waste	Decontaminate and collect waste in storage area ready for off-site recycling or disposal. Arrange for final collection and removal of excess and waste materials.	Contractor	-
ESTABLISHING PLANTS	Slow or no re-vegetation to stabilise soil; loss or degradation of habitat	To ensure re-vegetation to stabilize soil	Agreed schedule for regular follow-up watering, weed control, mulch supplements and amenity pruning, if needed. Replace all plant failures within three month period after planting.	Contractor	To be agreed
MATERIALS FAILURE	Structural damage. Loss of site materials.		Inspect all structures monthly to detect any cracking or structural problems. Confirm with designer if there are design problems. Rectify with materials to match, or other agreed solution.	Contractor	-
DRAINAGE FAILURE	On-site and downstream drainage pollution or flooding	Storm water management plan	<ul style="list-style-type: none"> Inspect all site drainage works and repair any failures. Confer with design engineer and to correct site problems. Compilation of a storm water management plan that will address storm water management during the operational phases of the project. 	Contractor	-
SITE AUDIT	Eventual project failure	Successful project establishment	Routinely audit the works and adjust maintenance schedule accordingly.	Contractor	-
GENERAL	Fires		Open fires and smoking during maintenance works are strictly prohibited.	Contractor	-
			All general emergency fire system should be in place, including hose reels, fire main rings etc.	Contractor	
	On-site	To prevent	<ul style="list-style-type: none"> It is the recommended that the on-site 	Contractor	

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Responsibility	Frequency of Action
	sewerage system	spillages	<p>sewerage systems be bunded or in an enclosed area.</p> <ul style="list-style-type: none"> The on-site sewerage systems should be monitored on a daily basis and should any spills be noticed on site the supplier should be contacted for maintenance and rectification of this issue. Contaminated soil should be properly disposed of. 	Owner/ Manager	
GEOLOGY	Erosion of topsoil	Prevent topsoil erosion	Due to loose topsoil, the soil must be covered by means of re-seeding and vegetation with suitable ground covering.	Engineer / Contractor /	Once off
		To ensure effective storm water management	<ul style="list-style-type: none"> Storm water throughout the site should be managed to accommodate the higher quantities of run off; Sheet flow should be encouraged as far as possible, and channels should be designed to sufficiently address the problem of erosion; and Bio-swale system could be implemented to filter water from paved areas and especially from roads and parking areas to sufficiently clean water of heavy metals and other hazardous materials in storm water on a natural manner. This will further provide an opportunity for water to infiltrate the soil, break the energy of storm water and keep the water on site for longer. 	Owner / Manager	
	Fauna and Flora	To ensure protection of existing fauna and flora	An invasive control plan should be implemented every 3 months after construction.	Owner/ Manager	Every 3 months
	Visual impact		<ul style="list-style-type: none"> Advertisements and/or sign boards shall not be erected or displayed on the property without the approval of the municipality and SANRAL first being obtained in terms of 		

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Responsibility	Frequency of Action
			<p>municipal by-laws for outdoor advertising.</p> <ul style="list-style-type: none"> Architectural and landscaping guidelines must be adhered to and the proposed Architectural theme must blend in with the surrounding area. 		
Social	Job opportunities	To limit influx of people and ensure job opportunities for local community	In order to limit the influx of people from other areas, it is recommended that 70 – 80 % of job opportunities be offered to the local communities in and around the site area.		
	Noise pollution		<p>In general the design process of the new Development is to consider, inter alia, the following aspects:</p> <ul style="list-style-type: none"> The enclosure of noisy plant activities in buildings where possible and practical. The design of the buildings to minimize the transmission of noise from the inside to the outdoors. The insulation of particularly noisy plant and equipment. The design, placement and orientation of the extractor fans for the ventilation of the buildings must take the noise impact aspect into consideration. Equipment with the best noise rating should be used. Roof mounted fans may further require attenuators and need to be screened from noise sensitive areas. High quality air-conditioning equipment should be installed. Equipment with the best noise rating should be used. Where required, high quality refrigeration compressors should be installed. Equipment with the best noise rating should be used. Outside building installation should be acoustically encapsulated. All mechanical equipment is to be well 		

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Responsibility	Frequency of Action
			<p>maintained.</p> <ul style="list-style-type: none"> • Music sound emission levels from speakers planned in the proposed filling stations development are to be maintained at reasonable levels. The setting of the levels and quality of sound is subject to the design and size of the room/space involved and needs to be established when the design of the proposed development is finalized (only if applicable). • The delivery times for trucks should be limited to the hours of between 07h00 and 20h00 on weekdays and between 08h00 and 14h00 on Saturdays (only if applicable). 		
	Light Pollution		<ul style="list-style-type: none"> • The generation of light by night events, security lighting and other lighting shall be effectively designed so as not to spill unnecessary outward into the oncoming traffic or into the yards of the neighbouring properties or open spaces. • Flood lights or spot lights used to illuminate buildings or signs, should be positioned as such that none of the light spills onto adjacent properties or shines into the eyes of motorists or pedestrians. 		
Filling Stations		To prevent spillages and leakages	<ul style="list-style-type: none"> • Leak detection facilities must be installed around the storage tanks and vapour samples must be taken according to a six monthly monitoring programme. • On-site monitoring boreholes should be monitored closely. This should be done to protect the perched aquifer, which is vulnerable to pollution: <ul style="list-style-type: none"> - The surface water head and runoff should be monitored with the groundwater levels. For this purpose a continuous water level recorded should be installed in at least one 	Groundwater monitoring boreholes installed	Engineer Contractor

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Responsibility	Frequency of Action
			<p>of the monitoring boreholes.</p> <p>- The surface and groundwater quality should be monitored, especially surface water releases from industrial and other activities upstream.</p> <ul style="list-style-type: none"> • To limit groundwater pollution areas around the perimeter of all structures should be appropriately paved, this also applies to areas used for the proposed storage tanks and peripheral infrastructure as it would limit/prevent groundwater contamination after spillage. A flexible sealant should be applied to joints between paved areas and the walls of buildings to prevent moisture reaching foundations. • In case of any spillages or leakages, the associated authorities should be notified. • Weekly monitoring of groundwater levels of each of the boreholes to ensure sustainable water use. • Quarterly groundwater monitoring must be conducted to ensure that there is no contamination of groundwater resources. 		
	Safety Water pollution	To ensure safety and minimise water pollution	<p>An Emergency Plan must be implemented:</p> <p>VAPOUR RECOVERY PLAN</p> <p>Organic vapour is released into the atmosphere by petrol and diesel. These hydrocarbons released into the atmosphere/environment are called Volatile Organic Compounds (VOC's). The release of fuel vapour into the atmosphere could create an explosion and therefore it is vital to capture the petrol vapour. The following measures should be adhered to with the aim of limiting the release of vapour into the atmosphere:</p>		

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Responsibility	Frequency of Action
			<ul style="list-style-type: none"> • During the unloading of fuel by the tanker trucks, vents should be closed on the tanker as well as the underground storage tank. • Rubber seals should be used on the dispensing pipe (from the tanker) that runs to the underground storage tanks. • A modified petrol filling nozzle should be used for refueling. The nozzle could also be modified with a rubber seal. • An automatic switch valve should be used to cut the flow of fuel when full. • Install leak detection on the gauge system of the tank. • Spillages should be cleaned immediately. • No open containers containing fuel will be allowed. <p>FUEL SPILLAGES</p> <p>The Regulations of Hazardous Chemical Substances regulates the storage of hazardous substances on various premises.</p> <ol style="list-style-type: none"> 1. Depending on the quantity of the product spilled, all pumps should be stopped either through an emergency button that switches off all pumps or the electrical distribution board. 2. Fuel should be shut off by the road tanker. Most tanker vehicles have an emergency button that should be hit. The individual compartments valves can also be shut. 3. Customers and bystanders should be 		

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			<p>kept away from the area and evacuated. An explosion could occur if a vapour cloud is ignited in any manner.</p> <ol style="list-style-type: none"> 4. Ensure that customer vehicles in the vicinity of the spill will not be started as this may ignite the vapour and cause a fire/explosion. 5. No vehicle may enter the filling station. 6. Any source of ignition in the immediate area should be eliminated. 7. Sand buckets should be placed in the forecourt area and be easily accessible. The sand should be used to soak up the spilt fuel and prevent it from spreading. 8. Fire extinguishers should be removed from the forecourt and area of spillage. 9. Should any neighbours be vulnerable to an explosion at the filling station, they should be warned. 10. Fuel may not be flushed down drains. 11. If anyone had been contaminated with fuel, they should be sprayed with water and their clothing should be removed. 12. Any soil contaminated by the spill should be placed in an empty container such as a drum and removed by a hazardous waste removal company. 13. The Petroleum Company's emergency centre / team should be contacted. They may assist or give advice on the procedure to be followed. 14. With major spills it is important to notify the relevant Departments as well for example the Department of Water and Sanitation. 15. Should a spill catch fire the emergency plan for a fire should be followed. 		

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			<p>FIRE</p> <p>Fire at a filling station is very dangerous and can lead to major injuries and destruction. Fire can be caused by a variety of factors and/or actions. It is important to erect signs at the filling station area to notify the public that no smoking and no cellphones will be allowed around the pump areas and tanks. Fires can also be ignited through petroleum spillages and the release of fuel vapour into the atmosphere. The fire could be in the forecourt area or in any of the buildings. The following procedure can be followed in case of an emergency:</p> <ol style="list-style-type: none"> 1. Refuelling should be stopped immediately at the filling station. 2. The emergency shut-off switch should be activated. 3. If not done simultaneously with the emergency shut-off switch, the electrical supply to all equipment in the immediate area should be isolated at the distribution board. 4. The emergency fire alarm should be activated. There should be a clear indication of where the fire alarm is located. 5. Immediate notification of the manager or owner. 6. The forecourt and/or building should be evacuated of customers and employees, away from the danger area, to a safe assembly area(s). 7. Customers should move their vehicles away from the fire/danger area. 		

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TYPE	Environmental risk or issue	Objective or requirement	Mitigation measure	Responsibility	Frequency of Action
			<ol style="list-style-type: none"> 8. Injured people should be guided away from the fire/danger area. 9. The manager or owner to notify the fire brigade and emergency response. 10. If safe to do so an attempt should be made to extinguish the fire by using fire extinguishers. 11. Close the driveways in order to prevent access to the forecourt. 12. Adjacent property owners should be notified of the fire if it is possible that it can spread towards them. 13. The fire emergency services should be assisted when they arrive. 14. The Petroleum Company should be notified immediately by the manager or owner. 15. It is very important that a first aid kit should always be readily accessible on site in case of any emergency. 		
		To prevent water pollution	<ul style="list-style-type: none"> • A Spill response kit comprising of absorbent fibres and associated waste containers should be available on site. All materials for clearing of surface spillages should be stored in a container and moved on a regular basis by an approved contractor to a hazardous waste disposal site. • Appropriate damp proofing and drainage precautions must be implemented beneath all fuel storage areas to prevent groundwater pollution during periods of sustained rainfall. • All pipes and connections to the proposed tanks must be provided with flexible coupling to prevent spillages. • To mitigate any expanding or shifting soils, 		

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			<p>the tank excavation should be backfilled with coarse grained river sand. The river sand will act as a stabilizer which will allow for expansion and contraction in the surrounding soils without affecting the tank.</p> <ul style="list-style-type: none"> • Storm water management on site and around all fuel/ oil bearing infrastructure should aim the fast and efficient disposal of water into the surrounding and existing drainage systems. • Paving must be provided around the perimeter of all structures. Joints between paved areas and the walls of the buildings should be sealed with a flexible sealant to prevent moisture reaching the foundations. • All materials and installations shall comply with the relevant standards and regulations as imposed by the South African Bureau of Standards (SABS) and the Occupational Health and Safety Act (Act 85 of 1993). 		
		To prevent water pollution	All surface areas utilized for the proposed storage tanks and peripheral infrastructure must be appropriately paved to prevent ingress of contaminated water into the ground.	Contractor Manager	
		To prevent water pollution	A complete waste handling and separation procedure for the operational phase should be implemented due to the handling, storing and disposal of hazardous chemicals. An oil/water separator should be installed on site, which will allow for the processing and separation of insoluble fuel hydrocarbons and the storm and wash down water of the current dispensing area. Only processed water will be allowed and directed to the local sewage system. Under no circumstances may processed water be directed to the storm water system.	Contractor Manager	
		To prevent	All fuel dispensers must include a shut-off valve.	Contractor	

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<i>TYPE</i>	<i>Environmental risk or issue</i>	<i>Objective or requirement</i>	<i>Mitigation measure</i>	<i>Responsibility</i>	<i>Frequency of Action</i>
		pollution and ensure safety		Manager	

4.4 Decommissioning Phase

- A Decommissioning Plan must be prepared for the decommissioning phase, stipulating the necessary management and monitoring for the specific decommissioning activity.
- Abandoned or broken underground tanks must be removed by experienced contractors.
- The likelihood of contaminated soil around the tanks is often high and this must be correctly removed and disposed of.
- Groundwater is at risk from contamination by defunct tanks and it is advised that monitoring of the groundwater should be undertaken if large quantities of fuel have been lost.
- The forecourt underground area as well as the area surrounding the USTs will be bunded/ encased with an impermeable material. With decommissioning, soil contamination will be restricted to these two contained areas.
- Careful removal and proper disposal of any petroleum products, USTs and pipework will be necessary to avoid unnecessary contamination. Any hazardous waste must be disposed of at a recognized hazardous waste disposal facility.
- With closure of the site, it is recommended that a **contamination assessment** be undertaken to determine if any contamination has taken place, which will indicate whether any rectification and site rehabilitation will be needed. Considering the design of the facility (underground encasings) it will possible to restrict the contamination assessment to the two described areas.
- Any other legislative requirements at the time of decommissioning should be complied with.

5 Procedures for environmental incidents

5.1 Leakages & spills

- Identify source of problem.
- Stop goods leaking, if safe to do so.
- Contain spilt material, using spills kit or sand.
- Notify Environmental Control Officer
- Remove spilt material and place in sealed container for disposal (if possible).
- Environmental Control Officer to follow Incident Management Plan.

5.2 Failure of erosion/sediment control devices

- Prevent further escape of sediment.
- Contain escaped material using silt fence, hay bales, pipes, etc.
- Notify ECO.
- Repair or replace failed device as appropriate.
- Dig/scrape up escaped material; take care not to damage vegetation.
- Remove escaped material from site.
- ECO to follow Incident Management plan.
- Monitor for effectiveness until re-establishment.

5.3 Bank/slope failure

- Stabilize toe of slope to prevent sediment escape using aggregate bags, silt fence, logs, hay bales, pipes, etc.
- Notify ECO.
- ECO to follow Incident Management plan.
- Divert water upslope from failed fence.
- Protect area from further collapse as appropriate.
- Restore as advised by ECO.
- Monitor for effectiveness until stabilized.

5.4 Discovery of rare or endangered species

- Stop work.
- Notify ECO.
- If a plant is found, mark location of plants.
- If an animal, mark location where sighted.
- ECO to identify or arrange for identification of species and or the relocation of the species if possible.
- If confirmed significant, ECO to liaise with Endangered Wildlife Trust.
- Recommence work when cleared by ECO.

5.5 Discovery of archeological or heritage items

- Stop work.
- Do not further disturb the area.
- Notify ECO.
- ECO to arrange appraisal of specimen.
- If confirmed significant, ECO to liaise with National, Cultural and History Museum.
P.O. Box 28088
SUNNYSIDE
0132
Contact Mr. J. van Schalkwyk
or
Mr. Naude
- Recommence work when cleared by ECO.

6 EMP review

1. The Site supervisor is responsible for ensuring the work crew is complying with procedures, and for informing the work crew of any changes. The site supervisor is responsible for ensuring the work crew is aware of changes that may have been implemented by NWREAD before starting any works.
2. If the contractor cannot comply with any of the activities as described above, they should inform the ECO with reasons within 7 working days.

Waste Management Plan

Annexure K

December
2015

Waste Management Plan (WMP) for the Q4 City Filling Stations

NWP/EIA/80/2013

VERY IMPORTANT: This waste management plan is applicable to the Construction and Operational Phases of the filling station development. A copy of this plan must be attached to all tender documents, it must be supplied to all contractors and sub-contractors to work on the site and it must be supplied to all tenants and land-owners prior to them entering the site/ renting any building/ premises on the study area. Such parties must confirm (in writing) that they take cognisance of the contents of this document and that they will comply with the waste management actions as supplied in the document.

If not possible for any party to comply with any of the actions as set out, the EAP/ ECO must be informed within 24 hours. The EAP/ECO will then discuss the matter with the relevant authority and the party involved and the way forward will then be communicated by the EAP/ECO to all involved.

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Table 1: Mitigation Measures and Guidelines for Waste Management

1. Project Outline

Bokamoso Landscape Architects & Environmental Consultants CC was appointed as independent Environmental Assessment Practitioner (EAP) to compile an updated Waste Management Plan (WMP), for the **Q4 City Filling Stations**. The proposed Q4 City Filling Stations will be situated on a Part of Remainder of Portion 22 and Part of Remainder of Portion 41 of the Farm Schietfontein 437 JQ, North West Province. Please refer to Figure 1: Locality Map and Figure 2: Aerial Map.

The purpose of this WMP is to address the construction and operational phase Waste Management, because waste management was regarded as one of the most crucial issues to consider throughout all the development phases.

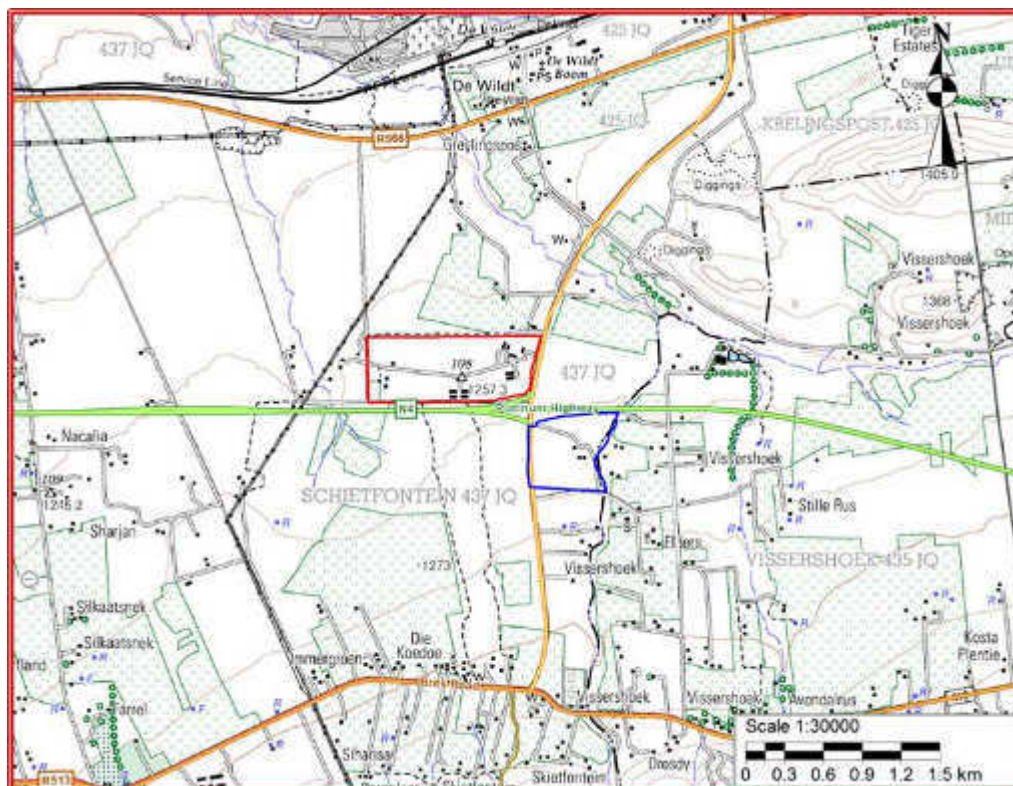


Figure 1 – Locality Map

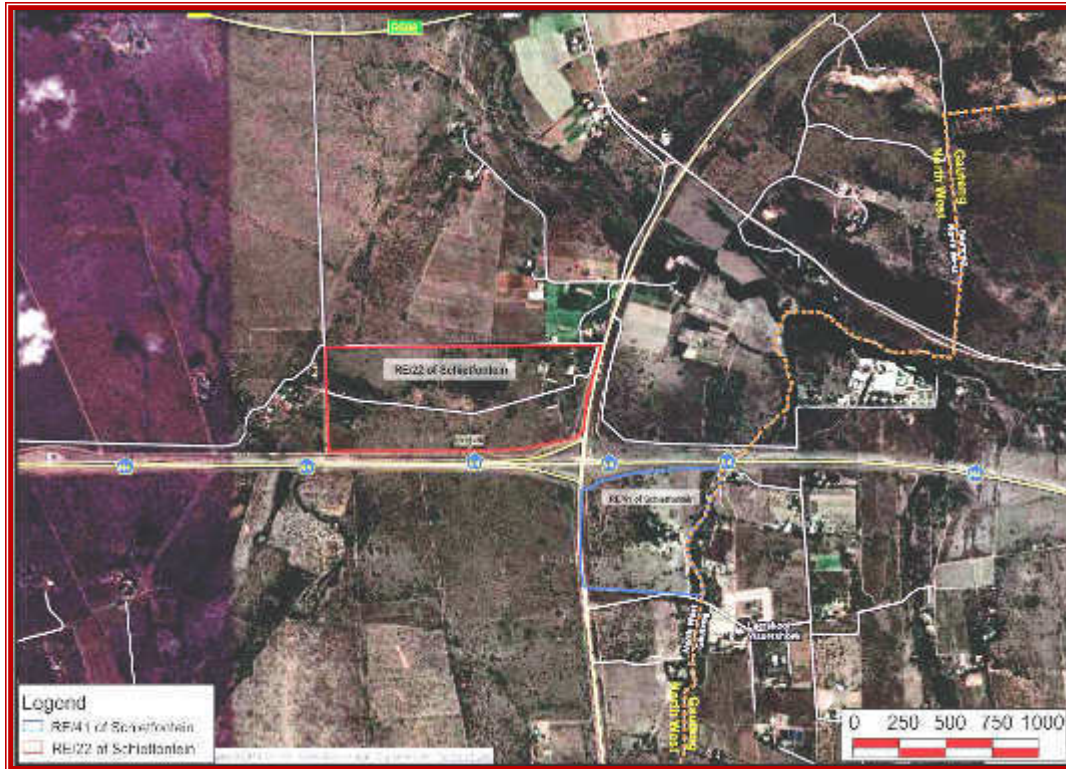


Figure 2 – Aerial Map

2. WMP Objectives and Context

2.1 Objectives and Principles

The primary objective of this WMP is to address the waste management of the study area during the construction and operational phases of the project. This WMP will aim to:

- 1) prevent pollution;
- 2) reduce waste;
- 3) promote recycling, recovering and the re-use of materials; and
- 4) to ensure the safe storage, transport and disposal of waste generated during the operational and construction phases of the project.

This WMP will also assist with the establishment of an effective waste management system (in line with the local, provincial and national legislative requirements) throughout the construction and operational phases of the development. In terms of the existing waste management legislation, the generator of waste is responsible for the waste from “cradle to grave” and this WMP also aims to make the generators of the waste aware of this new legislative requirement.

It is also important to note that the Chapter 8, Part 4 of The National Environmental Management: Waste Act, Act 59 of 2008 (NEM:WA) addresses contaminated land. The implications of this Chapter of NEM:WA are far reaching, because the provisions of this section of the act can be retrospectively applied and will i.e. play a very important role when the property/ portions of the property is sold. If the Minister expects that there is any contaminated land on a study area, it can be requested that the land-owner proof that there is no contamination.

It is important that any plan, once implemented, is evaluated and where necessary reviewed to ensure that the respective objectives are being met. Furthermore, it is important to share success stories achieved through additional initiatives and to identify problem areas associated with the existing WMP.

2.2 WMP context

Waste management during the construction phase will take place in conjunction with site clearance, ground works and the erection of structures and the development of infrastructure. Many contractors and sub-contractors will be present on the study area during this phase and it is therefore very important that all workers and managers on the site be well informed of the construction phase waste management measures and all parties involved must comply with all the guidelines and measures as supplied in this WMP.

The waste management during the operational phase is aimed at the managers of convenience, restaurant and take-aways stores that will manage the various

facilities of the filling stations. The intention is to make the operational phase managers aware of the waste management strategies and goals of this development from the outset and to ensure that the requirements of this plan are incorporated into the ownership/management agreements, waste management and removal contracts etc.

If any of the shops/restaurants are to be sold, the WMP must be attached to the purchasing contract of the property in order to inform the potential buyer of the requirements of the WMP and all its supplementary and associated revisions and reports. The buyer and any subsequent buyers of a particular property/ building must also confirm (by means of a signature) that he/she is aware of the requirements of the WMP and the associated plans and documents, which supplies guidelines regarding the construction, operational and decommissioning phase waste management.

The proposed waste management during the construction phase requires temporary measures and it must aim to set short term goals that will have immediate positive effects and it will end just before the operational phase of the Q4 City Filling Stations development.

2.3 Roles and Responsibilities

Developer (D)

This is the applicant of the Q4 City Filling Stations development. The role of the applicant in the waste management process during the construction and operational phases will be discussed with the site manager. The applicant will supply the details of the parties responsible for the implementation of the WMP to the North West Department of Rural, Environment and Agricultural Development (NWREAD) prior to commencement with the waste management that will be in accordance with the approved WMP.

Waste Project Manager (WPM)

The Waste Project Manager is responsible for the coordination of various activities during the construction phase waste management and all other waste management activities and must ensure compliance with this WMP, even if contractors and sub-contractors are appointed to assist with the waste management. The WPM will also be responsible to ensure that the appointed contractors are suitably qualified to perform the waste management activities that they are appointed for. If required, the WPM must appoint a suitably qualified specialist with the necessary legal expertise to assist with the appointment, scrutiny, monitoring and management of the activities on the study area, at the landfill sites that will receive the waste and the activities associated with the tasks delegated to suitably qualified contractors and sub-contractors.

Waste Project Manager Operational Phase (WPMOP)

The Waste Project Manager Operational Phase (WPMOP) is responsible for the coordination of various activities during the operational phase waste management and all other waste management activities and must ensure compliance with this WMP, even if contractors and sub-contractors are appointed to assist with the waste management. If the development establish a management company for the project, such company will be responsible for the appointment of the WPMOP. If the developer/ management company decide to sell sections of the project/ the entire project, the responsibility of the appointment of the WPMOP must be transferred (in writing) to the new management company/ies.

The WPMOP will also be responsible to ensure that the appointed contractors are suitably qualified to perform the waste management activities that they are appointed for. If required, the WPMOP must appoint a suitably qualified specialist with the necessary legal expertise to assist with the appointment, scrutiny, monitoring and management of the activities on the study area, at the landfill sites

that will receive the waste and the activities associated with the tasks delegated to suitably qualified contractors and sub-contractors.

During the operational phase the WPMOP/s will also be responsible for the following activities on a daily basis: He/she must keep record of the following:

- Compliance with the plan;
- Incidents that occurred;
- Waste reduction data and details;
- Data regarding dumping at registered landfill sites (quantities, types of waste, waste disposal intervals, transport vehicle and equipment details etc.); and
- Problems experienced with the execution of the plan.

Site Supervisor (SS)

Site Supervisor, who will only be appointed for the construction phase, will monitor the waste and recycling activities on a daily basis. He/she must keep record of the following:

- Compliance with the plan;
- Incidents that occurred;
- Waste reduction data and details;
- Data regarding dumping at registered landfill sites (quantities, types of waste, waste disposal intervals, transport vehicle and equipment details etc.); and
- Problems experienced with the execution of the plan.

Waste Control Officer (WCO)

An independent Waste Control Officer (WCO) will examine the waste management and removal activities on the site to ensure compliance with the requirements of this WMP.

Authority (AU):

The authorities are the relevant government departments that are responsible for the issuing of authorizations, licenses, permits etc. for waste related activities that require application processes and authorizations. In the case of the possible discovery of Hazardous Wastes, the National Department of Environmental Affairs (DEA) will also become involved in the remedying exercises. If only domestic waste is discovered, the NWREAD waste management division will remain responsible.

Environmental Assessment Practitioner (EAP):

According to section 1 of NEMA the definition of an environmental assessment practitioner is “the individual responsible for the planning, management and coordination of environmental impact assessments, strategic environmental assessments, environmental management plans or any other appropriate environmental instruments through regulations”. In this case the EAP responsible for the EIA application for the Q4 City Filling Stations development is Bokamoso Landscape Architects and Environmental Consultants CC.

Building Contractors (BC):

This includes all the contractors of the various disciplines associated with the construction of the filling stations development including all the site workers. Take note, that the building contractors will only be allowed to commence with the construction works on the site once the pre-construction waste management activities have been completed. The WPM appointed for the construction phase, the EAP and ESO must first give the go-ahead (in writing) before any building contractors will be allowed to commence with construction on site. The pre-construction waste management activities will not be regarded as construction.

Waste Disposal Contractors (WDC)

This will be the approved and signed contractor/s or sub-contractor/s responsible for specified waste management and removal activities as addressed in the WMP.

3. Legislative Framework

On a National, Provincial and Local Level

The following environmental legislation should be taken into consideration during the planning and execution of waste management activities and processes:

- The Constitution of the Republic of South-Africa, Act No. 108 of 1996 Section 24, 33, Schedule 4 Part 8, Schedule 5: Part B, and Section 156(1);
- The National Environmental Management Act (NEMA), Act No. 107 of 1998 with specific reference to the principles of NEMA;
- Hazardous Substances Act, Act 15 of 1973;
- The National Water Act, Act 36 of 1998 (Sections 19 and 21);
- National Environmental Management: Air quality Act, Act 39 of 2004;
- The National Road Traffic Act, Act No. 93 of 1996;
- The Nuclear Energy Act, Act No. 46 of 1999;
- The National Environmental Management: Waste Act, Act 59 of 2008;
- The National Environmental Management: Waste Amendment Act, Act 26 of 2014;
- Chapter 8, Part 4 of The National Environmental Management: Waste Act, Act 59 of 2008 that addresses contaminated land;
- The National Environmental Management: Waste Act, Act 59 of 2008 –GN No. 37083, List of Waste Management Activities that have, or that are likely to have a detrimental effect on the environment, November 2013;

- The National Environmental Management: Waste Act, Act 59 of 2008 GN No. 625, National Waste Information Regulations, 13 August 2012;
- The National Environmental Management: Waste Act, Act 59 of 2008 – GN No. 634, Waste Classification and Management Regulations, August 2013;
- The National Environmental Management: Waste Act, Act 59 of 2008 – GN. No. 635, National Norms and Standards for the Assessment of Waste for Landfill Disposal, August 2013;
- The National Environmental Management: Waste Act, Act 59 of 2008 – GN. No. 636, National Norms and Standards for the Disposal of Waste to Landfill, August 2013;
- The National Environmental Management: Waste Act, Act 59 of 2008 – GN, No. 926, November 2013, National Norms and Standards for the Storage of Waste;
- The National Environmental Management: Waste Act, Act 59 of 2008 – GN No. 777, National policy on the Thermal Treatment of General Waste and Hazardous Waste, July 2009;
- The National Environmental Management: Waste Act, Act 59 of 2008 – GN. No. 331, National Norms and Standards for the Remediation of Contaminated Land and Soil Quality, May 2014.
- “The Minimum Requirements for Waste Disposal to Landfill”, Second Edition 1998.

General Background:

“**waste**” means any substance, whether or not that substance can be reduced, re-used, recycled and recovered-

(a) that is surplus, unwanted, rejected, discarded, abandoned or disposed of;

(b) which the generator has no further use of for the purposes of production;

(c) that must be treated or disposed of; or

- (d) that is identified as a waste by the Minister by notice in the Gazette, and includes waste generated by the mining, medical or other sector, but –
- (i) a by-product is not considered waste; and
 - (ii) any portion of waste, once re-used, recycled and recovered, ceases to be waste.

4. Waste Classification

In order to formalize the characterization and separation of waste at source during the construction and operational phases of the development, it is essential that existing waste on the site be formally classified prior to the removal of such wastes in accordance with the provisions of the waste classification system as per National Waste Management Strategy (NWMS) and the applicable legislation.

The following inputs will be required prior to the commencement of construction with any of the development phases. Such measures are also applicable prior to the operational phase of any of the completed phases. The information to be collected must be in writing and must also be forwarded to NWREAD for record keeping purposes:

- Identification of waste storage areas during the construction phase (must be identified on a plan);
- Identification of possible waste license/ air emissions licenses that could be triggered;
- Preliminary estimate of amount of waste to be removed (in m³);
- Preliminary classification of waste to be stored during the construction and operational phases;
- Supply proposed methods of waste removal and management;

- Supply, where necessary, additional waste management guidelines and mitigation measures;
- Identify waste removal/ handling actions required that will require authorizations, permits etc.;
- Recommend suitably qualified specialists/contractors to assist with the construction and operational phase waste management;
- Confirm the waste sites that are suitable for the receiving of the waste that must be removed from the site.

Continuous waste monitoring will need to take place during all the phases of the proposed development and the waste storage and handling information must be updated on a regular basis.

The following types of waste could be identified:

Hazardous Waste

Hazardous waste is in terms of NEMWA waste which “*owing to its inherent physical, chemical or toxicological characteristics*” has a detrimental impact on human health and the environment. Hazardous waste is subsequently categorized accordingly in nine different classes which are designated as hazard ratings.

General Waste

NEMWA refers to general waste as “*Waste that does not pose an immediate hazard or threat to health or the environment, and includes (a) domestic waste; (b) building waste; (c) business waste; (d) inert waste*”. General waste can in turn be sub-divided into paper, metals, glass, plastics, organic and inert wastes as per the NWMS.

5. Waste Management Plan

Measures will be applied to ensure optimal cleaning and removal of waste that is currently on the site. At this stage it is envisaged that only domestic waste will be stored on the site during the construction and operational phases of the development. If any potentially hazardous waste is to be stored (on a temporary basis) on the site (during the construction or operational phase of the development), the National Department of Environmental Affairs (DEA) and NWREAD must be notified of this.

It is also important to determine prior to the construction and operational phases whether any of the activities, facilities, processes and storage methods of waste could trigger any activities as listed in the NEM:WA. If any activities are triggered, it will be necessary to follow a BA/ EIA process and to apply for a waste license of the activities as listed, prior to commencement with such activities.

5.1 The Applicability of the WMP

As already mentioned, this WMP is applicable to the construction and operational phases.

5.1.1 The Construction Phase:

At present most construction waste at construction sites goes to landfill sites or are illegally dumped on vacant land that are not that visible to passersby or surrounding neighbours. Construction wastes constitutes almost one quarter of the materials sent to landfills, a large majority of which is recyclable and/or re-usable.

The waste management activities during the construction phase will be temporary of nature and the different types of contractors and sub-contractors that will work on the site will generate different types of waste.

As already mentioned, the waste management plan must be made available to the project manager, all site workers, contractors, sub-contractors, architects, planners, engineers, quantity surveyors and any other members of the project team/ contractor's team for perusal, prior to commencement with construction/ with the specific activities for which the contractors/ sub-contractors are appointed.

5.1.1.1 Preparation and Planning for Construction Waste Disposal

The following method should be used when preparing and planning for construction waste disposal:

- Identify waste types (i.e. bricks, concrete, rocks etc.) that could be generated during the construction phase and identify storage areas on site for such waste;
- Conduct waste estimates for the construction phase and confirm the various registered landfill sites that have the capacity to receive the waste products as identified;
- Identify waste that can potentially be recycled and identify storage areas for such wastes;
- Identify recyclers to contact for the collection of such waste;
- Identify potentially hazardous waste¹ (if any) to be generated during the construction phase and investigate such waste prior to the commencement of the waste management works on the study area;
- Confirm the threshold for the storage of hazardous waste on the study area and establish bunded areas for the storage of such waste products;

¹ I.e. Empty paint containers, used oil, solvents or any other potentially hazardous waste that could be generated during the construction phase.

- Waste management must be incorporated into the bills of quantities of all the tenders to be compiled for the proposed development and the appointed civil and building contractors and their sub-contractors must make provision for compliance with this waste management plan when they complete the tenders;
- The project manager, the WPMCP and tenderers must estimate the quantities and types of waste that will be generated during the construction phase and must determine a schedule of how and when the various types of wastes will be removed/ recycled, handled etc.;
- Order sealable containers for the storage of dangerous waste products and place such containers in the bunded areas;
- Order waste registers (must be in duplicate) and place one register in the site office and one register in the office of the project manager/ developer on each of the filling station sites. Such waste registers will be used to record all waste generated by the different contractors and must also include the following information:
 - ✚ All the waste collections that took place and the details of the waste collectors;
 - ✚ The amount of waste that were removed;
 - ✚ The types of waste that were removed;
 - ✚ Details of the waste removal intervals;
 - ✚ The date and time of waste removal;
 - ✚ Details of the registered landfill site/ sites/ recycler etc. that will receive the waste;
 - ✚ The signature of the generator of the waste (i.e. contractor), the signature of the WPMCP and the signature of the person responsible for the waste removal;
 - ✚ The waste manifests to be supplied by the waste contractor/ collector must also be attached to this waste register. The waste manifests must be supplied to the WPMCP on a weekly basis; and

- ✚ It is recommended that the data of the waste register be captured in electronic format in order to ensure the long term protection of such documents.
- Install oil traps/ provide drip trays for oil related waste in the bunded areas;
- No waste activities (storage of waste, sorting of waste, collection of waste etc.) will be allowed below the 1:100 year flood line area, within a watercourse, within a watercourse buffer or within any ecologically sensitive area;
- Waste must preferably be stored in temporary waste skips and such skips must be removed on a weekly basis/ as soon as full;
- Provision must be made for at least two days emergency storage of waste in skips in order to provide for unforeseen waste collection problems;
- The waste management sequence must correlate with the proposed development phases;
- Waste storage areas must preferably be located in areas that are screened from the surrounding neighbours and that are already disturbed/ exposed by human activities/ by the pre-construction activities.

5.1.1.1a Most Common Construction Waste Types

There are many different types of waste that can result from construction activities. It is important to get to know the various classifications together with their disposal options. To follow are examples of the most common construction waste types:

- Rocks/ Clean fill;
- Topsoil;
- Waste associated with erosion and siltation;
- Solid waste generated from trees and shrubs removed during land clearing, and building construction;
- Packaging materials including wood, paper and plastic;

- Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces and masonry products;
- Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes;
- Construction wastes including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts, Styrofoam and other materials used to transport and package construction materials;
- Old and used builder's tools;
- Left over finishing materials and solvents (i.e. paint);
- Construction vehicles and machinery maintenance waste (including oil, diesel etc.);
- Waste caused by onsite fires; and
- Sanitation waste (on site and in chemical toilets).

Possible hazardous construction waste and suitable waste disposal methods and disposal permits requirements must be identified even before the construction phases commence.

5.1.2 The Operational Phase:

Waste sorting bins placed along pedestrian movement corridors and public gathering areas will furthermore promote recycling and it will also assist with environmental education.

If well planned and managed, the implementation of the WMP during the operational phase of the filling stations development will encourage the public, managers, suppliers and employees to reduce waste and to recycle.

Targets of opportunity include:

- Wood Pallets

- Plastic packaging
- Paper
 - Mixed paper
 - Office Paper
- Corrugated cardboard packaging
- Food outlet waste
 - Glass, metal, and plastic beverage containers
 - Food Waste
- Yard/ garden waste

5.1.2.1 Establishment of a Successful Recycling Programme

If there is an opportunity (starting at the pre-construction phase) the following preliminary steps should be followed for the establishment of a successful longer term recycling program:

- Appoint a Waste Control Officer to act as recycling coordinator;
- Identify materials to be collected;
- Identify waste collection points within the waste streams;
- Determine waste sorting methods; and
- Determine collection programme logistics.

Table 1. Mitigation measures and guidelines for Waste Management on the proposed site

Mitigation Measures/ Guidelines	Purpose of Guideline/ Mitigation Measure	Time Frame	Responsible Party
CONSTRUCTION PHASE			
WASTE MANAGEMENT			
<p>Specialist to compile a construction phase waste management framework, based on the final development layout and phases. The framework must amongst others address/include the following:</p> <ul style="list-style-type: none"> - Identify waste types (i.e. bricks, concrete, rocks etc.) that could be generated during the construction phase and identify storage areas on site for such waste; - Conduct waste estimates for the construction phase and confirm the various registered landfill sites that have the capacity to receive the waste products as identified; - Identify waste that can potentially be recycled and identify storage areas for such wastes; - Identify recyclers to contact for the collection of 	<p>To establish a waste management framework that will be used throughout the construction phase waste management</p>	<p>Before construction commences</p>	<p>Appointed waste management specialist</p> <p>Contractor</p>

<p>such waste;</p> <ul style="list-style-type: none"> - Identify potentially hazardous waste² (if any) to be generated during the construction phase and investigate such waste prior to the commencement of the waste management works on the study area; - Confirm the threshold for the storage of hazardous waste on the study area and establish bunded areas for the storage of such waste products; - The waste management sequence must correlate with the proposed development phases; - Waste storage areas must preferably be located in areas that are screened from the surrounding neighbours and that are already disturbed/exposed by human activities/ by the pre-construction activities; - Preliminary estimate of amount of waste to be removed (in m³); - Supply proposed methods of waste removal and management; - Supply, where necessary, additional waste 			
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² I.e. Empty paint containers, used oil, solvents or any other potentially hazardous waste that could be generated during the construction phase.

<p>management guidelines and mitigation measures;</p> <ul style="list-style-type: none"> - Identify waste removal/ handling actions required that will require authorisations, permits etc.; - Confirm the waste sites that are suitable for the receiving of the waste that must be removed from the site. 			
<p>Special Waste Management Requirements For The Construction Phase:</p> <ul style="list-style-type: none"> - Waste must preferably be stored in temporary waste skips and such skips must be removed on a weekly basis/ as soon as full; - Provision must be made for at least two days emergency storage of waste in skips in order to provide for unforeseen waste collection problems; - Order sealable containers for the storage of dangerous waste products and place such containers in the bunded areas; - Order waste registers (must be in duplicate) and place one register in the site office and one register in the office of the project manager/ developer on each site. Such waste registers will be used to record 	<p>Planning of waste management procedures and methods</p>	<p>On-Going during the construction phase</p>	<p>EAP, ESO, Developer, Contractors, WPMCP, Sub-Contractors</p>

<p>all waste generated by the different contractors and must also include the following information:</p> <ul style="list-style-type: none"> ✦ All the waste collections that took place and the details of the waste collectors; ✦ The amount of waste that were removed; ✦ The types of waste that were removed; ✦ Details of the waste removal intervals; ✦ The date and time of waste removal; ✦ Details of the registered landfill site/ sites/ recycler etc. that will receive the waste; and ✦ The signature of the generator of the waste (i.e. contractor), the signature of the WPMCP and the signature of the person responsible for the waste removal; ✦ The waste manifests to be supplied by the waste contractor/ collector must also be attached to this waste register. The waste manifests must be supplied to the WPMCP on a weekly basis; ✦ It is recommended that the data of the waste register be captured in electronic format in 			
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<p>order to ensure the long term protection of such documents.</p> <ul style="list-style-type: none"> - Install oil traps/ provide drip trays for oil related waste in the bunded areas; - No waste activities (storage of waste, sorting of waste, collection of waste etc.) will be allowed below the 1:100 year flood line area, within a watercourse, within a watercourse buffer or within any ecologically sensitive area; - Waste management must be incorporated into the bills of quantities of all the tenders to be compiled for the proposed development and the appointed civil and building contractors and their sub-contractors must make provision for compliance with this waste management plan when they complete the tenders; - The project manager, the WPMCP and tenderers must estimate the quantities and types of waste that will be generated during the construction phase and must determine a schedule of how and when the various types of wastes will be removed/ recycled, handled etc.; 			
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<ul style="list-style-type: none"> - Topsoil and sub-soil generated during the construction phase should not be regarded as waste; - The topsoil must be stored in heaps that are no higher than 1.2m, above the 1:100 year flood line, away from watercourses and their associated buffer areas; - Sub-soil must be stored in heaps no higher than 2.5m, above the 1:100 year flood line, away from watercourses and their associated buffer areas; - All bricks and rocks that can be re-used as filling material, must also be stored on the site, above the 1:100 year flood line, away from watercourses and their associated buffer areas. 			
<p>Waste Management contractors that tender for the various types of waste management during the construction phase must visit the site and compile method statements for the waste management of the construction phase waste</p> <p>-Waste Management Contractors must compile and supply their own waste management strategy, plan and monitoring methods. This plan must complement and fit in</p>	<p>In order to ensure that all the important aspects are covered on all levels</p>	<p>Before/ at the start of construction phase</p>	<p>Tendering Waste Management Contractors</p>

with this holistic and more comprehensive WMP.			
-Appointment of Waste Management Contractor/s and sub-Contractors (including landscaping contractors)	Pre-Waste Management Preparation	At the start of the construction phase	Developer, QS
-Confirmation to NWREAD, DEA (if required) and DWS of appointments of waste management team and notification of commencement with implementation of WMP.	Notification of and consultation with relevant organs of state	Prior to commencement with implementation of plan	
-Identify and fence sensitive Ecological areas that must be protected from mechanical waste management equipment. -No soil is to be removed from the water course or water course buffer areas without the consent of the relevant EAP and organs of state. -The EAP/ESO must identify the areas that are regarded as no-go areas for such activities and where required a conservation fence must be erected to prevent any workers from entering these sensitive areas. -No vehicles or machinery will be allowed in the watercourse areas or in sensitive areas.	Protection of watercourse, wetland, other Ecologically sensitive areas	Prior to waste management activities	EAP. ESO, Developer, Contractor, WPM
-Compilation of list of names and details of all workers that	Keep record of all	On-going	Developer,

<p>will assist with the construction waste management</p>	<p>workers on site</p>		<p>ESO, WPM, Contractors, Sub- Contractors</p>
<p>-Establishment of site office for safety clothing, on site WMP and site instruction and incident booklets. -Names of workers must also be kept on site and attendance register to be completed on a daily basis by all parties to enter study area. -First Aid Kit must also be kept in this office. -At least 1 person must have applicable first aid training. -All vehicles must have the necessary licenses, permits, noise muffing devices, safety measures in order to execute the tasks allocated for such vehicles and equipment. -Waste slips collected at registered dumping sites must also be kept at these offices and must be available at request. -Records of volumes of waste already removed must also be kept at the office. -Office must be equipped with fire management equipment. -Duplicates of all documents kept in the site office must also</p>	<p>Keep record of all applicable documents and plans on the site for inspection purposes and ensure that all vehicles and equipment comply with the relevant standards and requirements, including the transport of waste</p>	<p>On -going</p>	<p>Developer, ESO, WPM, Contractors, Sub- Contractors</p>

be kept at the office of the developer. This is for both the filling stations development.			
-Rehabilitate all exposed areas in accordance with the layout, landscaping and storm water management plan.	In order to prevent erosion, siltation water pollution	After waste removal	Developer, ESO, WPM, Landscape Architect/ EAP, SS, Landscape Contractor
-Proof of disposal to landfill sites or register disposal facility (for hazardous waste) should be kept and copies of such proof slips need to be provided to the client.	Rectification of both the current waste issues	As soon as possible. Prior to construction.	Waste Management Contractor, WPM, ESO
-No waste shall be burned on site or at the approved solid waste disposal site. Waste that qualifies for incineration may only be incinerated at waste management facilities that have the required licenses and permits for such actions. The required licenses must be supplied to the waste management contractor prior to incineration.	Pollution Prevention and Legal Compliance	On-Going	WCO, Contractor, Specialist, EAP, ESO
NOISE AND AIR POLLUTION			
The applicant shall endeavor to keep noise and vibration	Limit noise pollution	On-Going	Contractor

generating activities to a minimum. Noisy construction activities that could cause a major disturbance shall only be conducted during daylight working hours (6am – 6pm).			
All waste management vehicles and operational machinery used on site shall be kept in good repair to prevent unnecessary noise.	Limit noise pollution	On-Going	Contractor
Waste storage areas should be covered or stored in such a way that it cannot be distributed away from the storage by wind.	Limit air pollution	On-Going	Contractor
HEALTH AND SAFETY			
A Spill Contingency or Emergency Response Plan should include the actions that need to be in the event of spillages of chemical, fuels etc., during the pre-construction waste management phase of the Q4 City Filling Stations.	Health and Safety compliance, Pollution Prevention	On-Going	Contractor
A proper Pest Management Plan should be implemented at the facility as the storage of various waste items in different areas leads to large populations of rodents and cats that may lead to such quantities that it becomes a pest.	Health and Safety compliance	On-Going	Contractor
OTHER WASTE MANAGEMENT REQUIREMENTS			
1) Weather proof waste bins must be provided and emptied regularly.	Pollution and littering prevention	On-going	Management

<p>2) The contractor shall provide laborers to clean up the contractor's camp and construction site on a daily basis.</p> <p>3) Temporary waste storage points on the site should be determined. These areas shall be predetermined and located in areas that are already disturbed. These storage points should be accessible by waste removal trucks and these points should be located in already disturbed areas /areas not highly visible from the properties of the surrounding land-owners/ in areas where the wind direction will not carry bad odours across the properties of adjacent landowners. This site should comply with the following:</p> <ul style="list-style-type: none"> • Skips for the containment and disposal of waste that could cause soil and water pollution, i.e. paint, lubricants, etc.; • Small lightweight waste items should be contained in skips with lids to prevent wind littering; • Bunded areas for containment and holding of dry building waste. <p>4) No solid waste may be disposed of on the site.</p> <p>5) No waste materials shall at any stage be disposed of in the open veld of adjacent properties.</p>			<p>Building Contractor</p> <p>WCO</p>
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<p>6) The storage of solid waste on the site, until such time as it may be disposed of, must be in a manner acceptable to the local authority and DWS.</p> <p>7) Cover any wastes that are likely to wash away or contaminate storm water.</p>			
<p>1) Waste shall be separated into recyclable and non-recyclable waste, and shall be separated as follows:</p> <ul style="list-style-type: none"> • General waste: including (but not limited to) construction rubble; • Reusable construction material. <p>2) Recyclable waste shall preferably be deposited in separate bins.</p> <p>3) Building rubble must be recycled before the unrecyclable materials are disposed of by the waste management/removal company.</p> <p>4) All solid waste including excess spoil (soil, rock, rubble etc.) must be removed to a permitted waste disposal site on a weekly basis.</p> <p>5) No bins containing organic solvents such as paints and thinners shall be cleaned on site, unless containers for liquid waste disposal are placed for this purpose on site.</p>	<p>Pollution and littering prevention</p> <p>Recycling</p>	<p>On-going</p>	<p>Management</p> <p>Building Contractor</p> <p>WCO</p> <p>Recycling company</p>

<p>6) Keep records of waste reuse, recycling and disposal for future reference. Provide information to WCO.</p>			
<p>1) Rubble must be removed from the construction site frequently and be disposed of at an approved dumping/ disposal site.</p> <p>2) Sufficient and covered containers must be available on the construction site.</p> <p>3) Such containers are to be emptied frequently.</p> <p>4) All liquid effluent is to be disposed of in a manner approved of by the Local Authority.</p> <p>5) Material to be used as backfill during a later stage of the building construction must be covered with a layer of soil to prevent litter from being blown over the site and to prevent unhygienic conditions.</p> <p>6) Chemical containers and packaging brought onto the site must be removed for disposal at a suitable site.</p> <p>7) The burning of waste is prohibited.</p> <p>8) Where possible, waste must be separated into clearly marked containers and subsequent recycling thereof must be a priority.</p>	<p>Pollution and littering prevention</p> <p>To keep the site clean and tidy.</p>	<p>On-going</p>	<p>Management</p> <p>Building Contractor</p> <p>WCO</p>
<p>On completion of the construction phase at the Filling</p>	<p>Pollution prevention</p>	<p>At completion of</p>	<p>Management</p>

Stations Development, all litter and building rubble need to be removed from the site immediately and disposed of at a registered disposal facility. Should the development be completed in phases, litter and rubble need to be removed from the site as soon as a phase or section is signed off from construction activities.		construction	Building Contractor WCO
This Waste Management Plan (WMP) includes various measures to limit or reduce waste disposal during the construction phase, including recycling.	Reduce waste disposal	On-going	Management Building Contractor WCO
OPERATIONAL PHASE			
GENERAL WASTE MANAGEMENT			
Assess the development's anticipated waste stream prior to operation and re-assess waste stream during operation.	Data Collection, Monitoring	Prior to implementation of operational waste management and on-going during operation	Management
Identify materials to be collected	Data Collection,	Prior to	Management

	Monitoring	implementation of operational waste management and on-going during operation	Workers
Identify waste collection points within the waste streams	Waste and Recycling Monitoring, to make Waste Recycling Possible	Prior to implementation of operational waste management	Management Workers
Determine waste sorting methods	Waste and Recycling Monitoring, to make Waste Recycling Possible	Prior to the implementation of operational waste management	Management Workers
Select a recycling service provider	Compliance with Legislation	Prior to implementation of operational waste management and on-going during the operational phase	Management

Confirmation is needed from the local registered landfill site that they do have the capacity to receive the waste (which is not being recycled) generated by the operational phase of the Q4 City Filling Stations.	Pro-Active Planning, Identification of Alternatives	Prior to implementation of operational waste management	Management
Solid waste must be sent through the waste stream to specific waste collection points (waste must be sorted on the site), thereafter the waste must be collected by a registered waste removal and/or recycling company.	Awareness, Waste Reduction, Recycling of Waste	During the operational phase – on-going	Management
The storage of solid waste on site, until such time that it may be disposed of, must be in a manner acceptable to the Local Authority, NWREAD and The National Department of Water and Sanitation (DWS).	Compliance with Legislation, policies, Frameworks, By-Laws etc.	During the operational phase – on-going	Management
Place clearly marked separate bins (with lids) for paper, metal, glass, plastic and other material on the sites to ensure sorting of materials to be recycled from an early stage.	Recycling, Waste Minimization, Ensuring the Cooperation of Workers, Ensuring Compliance with Plan	During the operational phase – on-going	Management Workers
Keep records of waste reuse, recycling and disposal for future reference.	Monitoring, Data Collection,	During the operational phase –	Management Workers

	Recycling, Waste reduction	on-going	
Prevent unhygienic usage on site and pollution of the natural assets. Develop a central waste temporary holding site to be used during the operational phase. These sites should comply with the following: <ul style="list-style-type: none"> Skips for the containment and disposal of waste that could cause soil and water pollution, i.e. paint, lubricants, etc.; Small lightweight waste items should be contained in skips with lids to prevent wind littering. 	Pollution Prevention, Ensuring Compliance with Plan	During the operational phase – on-going	Management
During transportation, waste must be covered at all times to prevent wind from blowing away waste causing air pollution and to prevent spillages (especially in the case of collisions and other accidents).	Pollution Prevention, Ensuring Compliance with Plan and Legislation	During the operational phase – on-going	Waste Company and Management
Waste storage area should be covered to prevent waste washing away or contaminate storm water systems during the rainfall season.	Pollution Prevention	During the operational phase – on-going	Management
No waste water or water containing waste is to be discharged into the existing storm water drainage system.	Pollution Prevention	During the operational phase – on-going	Management

Implement and manage waste reduction and recycling plan.	To guarantee success of Plan	During the operational phase – on-going	Management
Determine whether waste reduction and recycling targets have been achieved.	To determine success of Plan	During the operational phase – on-going	Management
<ul style="list-style-type: none"> • A company should be appointed to dispose of hazardous waste such as oils and fuel waste items that are produced by the filling stations. • Workers should be made aware of what hazardous waste is and where and how it should be disposed of. • Workers of the filling stations should know how to deal with hazardous waste in the event of an emergency. 	Hazardous Waste Disposal	During the operational phase – on-going	Management
RECYCLING			
All tenants/owners should sort waste from the shops/ offices/ restaurants/ filling station areas etc. in different bins named paper, glass, metal and other.	Re-Use, Waste Reduction, Recycling	During the operational phase – on-going	Management Workers
Wherever possible, materials used or generated during operation shall be recycled or re-used.	Re-Use, Waste Reduction, Recycling	During the operational phase – on-going	Management Workers
Appoint/contact recycling companies to collect the	Re-Use, Waste	During the	Management

various recyclable waste items.	Reduction, Recycling	operational phase – on-going	Workers
Conduct weekly checks to determine whether waste items are being sorted and stored in the various containers as designated for the different recyclable items.	Re-Use, Waste Reduction, Recycling	During the operational phase – on-going	Management Workers
Include recycling information in your orientation for new staff/ owners.	Re-Use, Waste Reduction, Recycling	During the operational phase – on-going	Management Workers

6. Procedures for environmental incidents

6.1 Leakages & spills

- Identify source of problem.
- Stop goods leaking, if safe to do so.
- Contain spilt material, using spills kit or sand.
- Notify Environmental Site Officer
- Remove spilt material and place in sealed container for disposal (if possible).
- Environmental Site Officer to follow Incident Management Plan.

6.2 Failure of erosion/sediment control devices

- Prevent further escape of sediment.
- Contain escaped material using silt fence, hay bales, pipes, etc.
- Notify ESO.
- Repair or replace failed device as appropriate.
- Dig/scrape up escaped material; take care not to damage vegetation.
- Remove escaped material from site.
- ESO to follow Incident Management plan.
- Monitor for effectiveness until re-establishment.

6.3 Bank/slope failure

- Stabilize toe of slope to prevent sediment escape using aggregate bags, silt fence, logs, hay bales, pipes, etc.
- Notify ESO.
- ESO to follow Incident Management plan.
- Divert water upslope from failed fence.
- Protect area from further collapse as appropriate.
- Restore as advised by ESO.
- Monitor for effectiveness until stabilized.

6.4 Discovery of rare or endangered species

- Stop work.
- Notify ESO.
- If a plant is found, mark location of plants.
- If an animal, mark location where sighted.
- ESO to identify or arrange for identification of species and or the relocation of the species if possible.
- If confirmed significant, ESO to liaise with Endangered Wildlife Trust.
- Recommence work when cleared by ESO.

6.5 Discovery of archeological or heritage items

- Stop work.
- Do not further disturb the area.
- Notify ESO.
- Notify Cultural and Historical Specialist.
- Specialist to investigate and address matter.
- Recommence work when cleared by ESO and cultural and historical specialist.

7 WMP Review

7.1 The Site Supervisor and ESO are responsible for ensuring the work crew is complying with procedures, and for informing the work crew of any changes. The Site Supervisor and ESO are responsible for ensuring the work crew is aware of changes that may have been implemented by NWREAD before starting any works.

7.2 If the contractor cannot comply with any of the activities as described above, they should inform the ESO with reasons within 7 working days.

- 7.3 Only the EAP will be allowed to make amendments to this WMP.
- 7.4 NWREAD must approve all amendments to the WMP.

Specialist Declaration Forms

Annexure L



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Department:
**Rural, Environment and Agricultural
Development**
North West Provincial Government
REPUBLIC OF SOUTH AFRICA



AgriCentre Building
Cnr. Dr. James Moroka
and Stadium Rd
Private Bag X2039,
Mmabatho 2735

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DIRECTORATE: ENVIRONMENTAL QUALITY

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Enq: EIA Admin Officer

DETAILS AND EXPERTISE OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number:
NEAS Reference Number:
Date Received:

(For official use only)

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, 2014

PROJECT TITLE

Q4 City Filling Stations

1. Details of Specialist

Specialist:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:
Professional affiliation(s) (if any)

Dr I.L. Rautenbach		
Galago Environmental - Vanessa Marais		
638 Turf Street, Wingate Park		
0181	Cell:	082 335 1288
012-345 4891	Fax:	086 675 6136
naasrauten@mweb.co.za		
SACNASP		

Project Consultant:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:

Bokamoso Landscape Architects and Environmental Consultants CC		
Lizelle Gregory/Mary-Lee van Zyl		
PO Box 11375, Maroelana, Pretoria		
0161	Cell:	-
012 346 3810	Fax:	086 570 5659
lizelleg@mweb.co.za/info@bokamoso.net		

4.2 The specialist appointed in terms of the Regulations_

I, **Naas Rautenbach**, declare that --

General declaration:

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct;
and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the specialist:

GALAGO ENVIROMENTAL

Name of company (if applicable):

13/10/2015

Date:

**ABBREVIATED CURRICULUM VITAE:
RAUTENBACH, Ignatius Lourens**

Identity Number 421201 5012 00 5
Gender Male
Date of Birth 1 December 1942
Nationality South African
Home Languages Bilingual (English & Afrikaans)
Postal Address 45 Helgaard Street, Kilner Park, Pretoria, RSA
0186. Tel no +27 12 3334112, Cell +27 082
3351288.

E-mail naasrauten@mweb.co.za
Qualifications **B.Sc.** (UP), **T.H.E.D** (Pta TTC), **M.Sc.** (UP),
Ph.D. (Un. Natal)
Professional Honours 1. Professional Natural Scientist (Zoology) – S.A
Council for Natural Scientific Professions,
Registration # 400300/05
2. Fellow of the Photographic Society of South
Africa
3. Master photographer at club level
4. Honorary life member of the S.A. Wildlife
Management Association.

Notable Research Contribution In-depth survey of the Mammals of the
Transvaal. 1982. 211pp. Ecoplan Monograph
1.
Notable Literary Contribution Rautenbach, Naas & Annalene Rautenbach.
2008. *Photography for Focused Beginners*.
302pp with 250 images. Green Door Studio,
Pretoria.

Formal Courses Attended Computer Literacy, Project Management,
Contract Design, Senior Management
Former Position Retired Director: Planning, Northern Flagship
Institute
Present Position Consultant – Specialist, Environmental Impact
Assessments (Applied research),
Photographing microstock for four agencies

EMPLOYMENT HISTORY

May 2001 - Present

Self-employed, collaborator with Eco-Agent CC Ecological Consultants, as well as Galago Environmental (Environmental Impact Assessments), technical writing, and photography.

April 1999 - August 2001

Director: Planning, Northern Flagship Institution.

Jan 1991 - April 1999

Executive Director, Transvaal Museum.

July 1967 - Dec 1990

Curator (in charge) of the Division of Mammalogy, Transvaal Museum. Promoted to Principal Scientist rank as of June 1985.

March - June 1967

Research student at the Mammal Research Institute of the Zoology Department, University of Pretoria

July 1966 - Feb 1967

Member of the Smithsonian Institution's field teams collectively partaking in the 'African Mammal Project'

1966:

Part-time research assistant to Prof. J. Meester, University of Pretoria

1962 – 1965

Temporary assistant during University holidays in the Nematology laboratories, Agricultural Technical Services

1991 - 2002

Founder member and non-executive director of the Board of Trustees.

1993 - 2001

Founder member and Trustee of the privatised Museums Pension Fund.

1997 - 2001

Non-executive director of the Tswaing Section 21 Company.

PROFESSIONAL ACHIEVEMENTS

Managed a research institute of 125 members of staff. Solicited numerous grants totalling ≥ R1 000 000. Initiated and overseen building programmes of R30 million at the Transvaal Museum. Conceptualised and managed 12 display programmes.

Research: Author and co-author of 85 scientific publications re mammalogy in peer reviewed subject journals, 18 popular articles, 10 books, and >400 contractual EIA research reports. Extensive field work and laboratory experience in Africa, Europe, USA, Alaska, Brazil and Mexico. B-rated by FRD as scientist of international status 1983 – 1995.

Students: Additional to museum manager duties, co-supervised 5 B.Sc. (Hons.), 2 M.Sc. and 2 Ph.D. students.

PUBLIC RECOGNITION

- Public speaking *inter alia* Enrichment Lecturer on board the 6* SS *Silver Wind*, radio talks,
- TV appearances.

HOBBIES:

Technical writing, photography, field logistics, biological observations, wood working, cooking, designs.



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Department:
**Rural, Environment and Agricultural
Development**
North West Provincial Government
REPUBLIC OF SOUTH AFRICA



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Enq: ETA Admin Officer

DETAILS AND EXPERTISE OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number: NEAS Reference Number: Date Received:	(For official use only)

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, 2014

PROJECT TITLE

Q4 City Filling Stations

1. Details of Specialist

Specialist:	Petro Lemmer		
Contact person:	Galago Environmental - Vanessa Marais		
Postal address:	638 Turf Street, Wingate Park		
Postal code:	0181	Cell:	078 332 4427
Telephone:	012-345 4891	Fax:	086 675 6136
E-mail:	plemmer@lantic.net		
Professional affiliation(s) (if any)	SACNASP		


Project Consultant:	Bokamoso Landscape Architects and Environmental Consultants CC		
Contact person:	Lizelle Gregory/Mary-Lee van Zyl		
Postal address:	PO Box 11375, Maroelana, Pretoria		
Postal code:	0161	Cell:	-
Telephone:	012 346 3810	Fax:	086 570 5659
E-mail:	lizelleg@mweb.co.za/info@bokamoso.net		

4.2 The specialist appointed in terms of the Regulations_

I, **Petro Lemmer**, declare that --

General declaration:

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct;
- and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the specialist:

GALAGO ENVIROMENTAL

Name of company (if applicable):

13/10/2015

Date:

ABBREVIATED CURRICULUM VITAE
LEMMER, Petronella

Identity number 440129 0025 085
Gender Female
Date of birth 29 January 1944
Nationality South African
Home languages Afrikaans, fluent in English
Home address Plot 44 Pienaarspoort Dist Cullinan, RSA
Cell 072 712 2679, Fax +27 12 802 0727, E-mail plemmer@lantic.net
Citizenship South African
Present position Specialist Botanist at Galago Environmental cc.
Qualification B.Sc. Botany & Entomology (University of Pretoria 1965)
Marital status Married.
SACNASP Registration Professional Natural Scientist (Pr.Sci.Nat. No 40056715)

Employment history

- 1 **June 2002 – present**
More than 600 vegetation surveys done with written reports for Galago Environmental cc
- 2 **(1996-04-01 – 2002-05-31)**
Semi-retirement while engaging in various botanical activities. See rows 10, 11 & 12 below.
- 3 **1982-11-01 – 1996-03-31**
Pesticides Division, Dept Biological Sciences, SABS, Pretoria: *Standards Officer*, promoted to *Chief Standards Officer* 1 October 1988.
Responsibilities:
 - Testing of pesticides (as set out in row 7 below) **as well as**
 - Compilation of SABS Codes of Practice for inter alia
 - The application of Household remedies*
 - The safe handling of pesticides*** (including protective clothing and respiratory gear.)
 - Safe disposal of pesticides***
 - Application of agricultural remedies*
 - Aerial application of agricultural chemicals*
 - Application of Soil insecticides for the protection of buildings*
 - Application of pesticides in food storage premises*
 - Application of pesticides in food handling premises*
 - Application of fumigants (e.g.grain silos and stacked bags)*
 - Mothproofing of textiles*
 - Rodent proofing of building materials*
 - Standard Specifications for various pesticidal products, e.g. Chlordane, Chlorpyrifos, etc.
 - Compilation of Test methods for inter alia
 - evaluation of pesticides (on test panels, in enclosed spaces, in soil, etc)*
 - testing of textiles and hides for mothproof and insect proof durability*
 - rearing and handling of test insects (a.o.houseflies, cockroaches, mosquitoes, clothes moths, hide beetles, bed bugs, fleas, etc) molluscs and rodents*
 - cleaning efficacy of hygienic hand-wash liquids*
 - testing of rodent-proofed building materials*
 - Project leader for SABS/ISO 14000 series of Environmental standards.

- Compilation of SABS Codes of Practice and Specifications (both national and Compulsory standards) in the field of Food Science (e.g. Hygienic practices on Deep Sea factory vessels, Specification for bottled water, Specifications for various tinned meats and fish) and Microbiology (e.g. Specification for glutaraldehyde for sterilization of endoscopes)

4 **1981-01-01 – 1982-10-30**

Technical Assistant: CSIR, Institute of Water Research, Limnology Division.

5 **1978-01-02 – 1980-12-31**

Biology Teacher: Loreto Convent, Skinner Street, Pretoria & Transvaal Department of Education

6 **1976-02-04 – 1978-01-01**

Employment interrupted for family planning.

7 **1971-04-01 – 1976-02-03**

Scientist: Pesticides Division, Dept Biological Sciences, SABS, Pretoria.

Responsibilities:

- Laboratory and field testing of:
 - Household (space sprays & residual sprays) and home garden insecticides*
 - Soil insecticides for termite proofing of buildings*
 - Fumigation of soil for nematodes*
 - Veterinary pesticides (against flies and ticks)*
 - Fumigants and sprays for Bulk grain storage*
 - Crop protection: insecticides, herbicides, nematocides, molluscicides*
 - Mothproofed textiles and insect-proofed skins*
 - Insect repellents*

8 **1968-06-01 – 1971-03-31**

Employment interrupted for family planning.

9 **1964-12-01 – 1968-05-31**

Scientist: Entomology Division, Dept Biological Sciences, SABS, Pretoria.

Responsibilities: *Breeding of insects for purposes of testing various pesticides.*

Remunerated participation in Botanical activities

10 **Sep 2008**

Dept Botany, University of Pretoria: Groenkloof campus: *Part time Lecturer*

11 **Jan 1994 – Jun 1997**

Dept Botany, University of Pretoria: *Temporary Part time Lecturer* 1st semester of each applicable year

12 **1994 – 2009**

Botanical tour guiding to Namaqualand and Western Cape during Spring flower season.

13 **1995 – 1997**

Fern surveys for SAPPI and Mondi on their Mpumalanga properties in view of ISO 14000 certification.

14 **1992** Fern survey of Blydepoort Nature Reserve for Mpumalanga Parks Board.

15 **1989** Fern survey of Mariepskop for Fern Society of SA

16 **1988** Survey of indigenous plants and plant invaders on “Rest and be Thankful” near Kaapsche

Hoop for Messrs Patrick Lewis, Johannesburg.

17 **1985** Text compiled for maxi card for Philatelic Services with theme "Ferns of Venda"

Membership of a Botanical Society

1978 to present Founder member of Fern Society of Southern Africa, president 1978-1992 and 1996-1997. Life membership.

Publications

1. Bothalia 33,2: 141-143. 2003. *Jamesbrittenia bergae* (Scrophulariaceae), a distinctive new species from Limpopo, South Africa.
2. Bothalia 36,2: 173-174. 2006. *Cheilanthes deltoidea*, a new locality in Gauteng, South Africa.
3. Lemmer, P. & Otto, L. 1990. *Inheemse varings as tuinplante*. Landbouweekblad, No. 628 and 629, Nasionale Media Bpk, Kaapstad.
4. *Uit ons Tuin, Vol 5 No. 1*. 1989. *Varings*. Manie van der Schyff Botaniese Tuin, UP, Pretoria
5. Technical reports for Galago Environmental cc
List of reports on vegetation surveys for more than 600 sites in South Africa obtainable from Galago Environmental cc.



read

Department:
**Rural, Environment and Agricultural
Development**
North West Provincial Government
REPUBLIC OF SOUTH AFRICA



AgriCentre Building
Cnr. Dr. James Moroka
and Stadium Rd
Private Bag X2039,
Mmabatho 2735

CHIEF DIRECTORATE: ENVIRONMENTAL SERVICES
DIRECTORATE: ENVIRONMENTAL QUALITY

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E-mail: oskosana@nwpg.gov.za
Enq: EIA Admin Officer

DETAILS AND EXPERTISE OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number:
NEAS Reference Number:
Date Received:

(For official use only)

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, 2014

PROJECT TITLE

Q4 City Filling Stations

1. Details of Specialist

Specialist:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:
Professional affiliation(s) (if any)

Dr Alan Kemp - Reviewer of Rihann Geyser		
Galago Environmental - Vanessa Marais		
638 Turf Street, Wingate Park		
0181	Cell:	071 387 5170
012-345 4891	Fax:	086 675 6136
leadbeateri@gmail.com		
SACNASP		

Project Consultant:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:

Bokamoso Landscape Architects and Environmental Consultants CC		
Lizelle Gregory/Mary-Lee van Zyl		
PO Box 11375, Maroelana, Pretoria		
0161	Cell:	-
012 346 3810	Fax:	086 570 5659
lizelleg@mweb.co.za/info@bokamoso.net		

WE BELONG

WE CARE

WE SERVE

4.2 The specialist appointed in terms of the Regulations_

I, **Dr Alan Kemp**, declare that –

General declaration:

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct;
- and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the specialist:

GALAGO ENVIROMENTAL

Name of company (if applicable):

13 October 2015

Date:

DETAILS OF SPECIALIST CONSULTANT

Abridged Curriculum Vitae: Alan Charles Kemp

Born: 7 May 1944 in Gweru, Zimbabwe

Citizenship: South African, British

Marital status: Married, 1 daughter, 1 son

Present work address

Naturalists & Nomads, 8 Boekenhout Street, Navors, Pretoria, 0184, South Africa

Tel: (27)(12)804-7637 Fax: (27)(12)804-7637

E-Mail: leadbeateri@gmail.com

or

Naturalists & Nomads, Postnet Suite #38, Private Bag X19, Menlo Park, 0102, South Africa

Qualifications:

1965 B.Sc. Rhodes University, Zoology and Entomology as majors

1966 B.Sc. Hons. Rhodes University, Zoology

1973 Ph.D. Rhodes University, Zoology of Pretoria

Thesis: (Ph.D.) on ecology, behaviour and systematics of hornbills in Kruger National Park

Professional titles:

• Pr.Sci.Nat. South African Council for Natural Scientific Professions **Registration Number 400059/09**

Professional career:

- Field Research Assistant to Prof. Tom J. Cade, Section of Ecology and Systematics, Cornell University, in Kruger National Park, South Africa, Nov 1966 - Apr 1969.
- Department of Birds, Transvaal Museum, Pretoria, June 1969 – August 1999, Head of Department from 1971, rising to Senior Scientist and then Head Curator by 1974.
- Elected Manager, Transvaal Museum, September 1999 – July 2001, until voluntary early retirement.
- Edward Grey Institute of Ornithology, Oxford, December 2001 – April 2002, drafting specialist bird texts for Gale Publishing, USA and Andromeda Press, Oxford, UK.
- Berg 'n Dal & Pretoria, April 2002 - February 2003, presenting paper and later editorial

- assistant for book from the Mammal Research Institute, University of Pretoria, *The Kruger Experience: ecology and management of savanna heterogeneity*.
- Bangkok, March – June 2003, drafting research papers for colleague at Mahidol University; touring Laos.
 - Pretoria, August-December 2003, editorial assistant for book from the Mammal Research Institute, University of Pretoria, a revision of *The Mammals of Southern Africa*.
 - Hala-Bala Wildlife Reserve, January – December 2004, a one-year rainforest study of hornbills, raptors and owls in southern Thailand for their National Center for Genetic Engineering and Biotechnology (BIOTEC).
 - Pretoria, January 2005 – July 2007, organizing 4th International Hornbill Conference at Mabula Game Lodge and editing and publishing CD-ROM proceedings, and consulting on ground hornbills to Mabula, University of Cape Town and Endangered Wildlife Trust.
 - Bangkok, India, Singapore, Sarawak, September 2006 – April 2008. assisted colleagues at Mahidol University, Bangkok, with compilation of research paper on molecular systematics of hornbills, and travelled to see other Asian habitats and meet with other colleagues.

Academic career:

- Students:
 - Completed post graduate students: M.Sc. 14; Ph.D. 5.
- Author of:
 - 104 scientific papers or notes in refereed journals
 - 48 papers at national and international congresses
 - 6 scientific (unpublished) reports on environment and natural resources
 - 73 popular scientific papers.
 - 15 contributions in books
- Editorial Roles
 - Ostrich, African Journal of Ornithology (editor 1973-75).
 - Bird Conservation (International editorial committee 1995-present)
- FRD evaluation category: C2 (Avian Biology and Systematics)
- Associate positions:
 - University of the Witwatersrand, Honourary lecturer, Department of Zoology (1988-2001)
 - Percy FitzPatrick Institute of African Ornithology, University of Cape Town, research associate (2001 – present).
 - Transvaal Museum, Honourary curator (2004-present)

- Wildlife Conservation Society, New York, wildlife conservation associate (1996-present).

Membership:

- American Ornithologist's Union, Corresponding Fellow (1986- present)
- Birdlife South Africa (South African Ornithological Society), Ordinary Member (1969-present), President (1975-1993) of Northern Transvaal (Pretoria) Branch, Honourary Life Member of Pretoria Bird Club (2000 – present).

Special committees:

- International Ornithological Committee of 100, elected member (1989-present).
- Raptor Research Foundation, Grants assessor, Leslie Brown Memorial Fund (1985-present).

Merit awards and research grants:

- 1969-86. Annual research grants from South African Council for Scientific and Industrial Research (CSIR).
- 1974. Chapman Fund Award, American Museum of Natural History, for field research in Borneo and India.
- 1986-98. Annual research award from South African Foundation for Research Development (FRD) as "C"-graded national scientist.
- 1989-95. Team member of FRD Special Programme in Conservation Biology.
- 1989-95. Team member of FRD Special Programme in Molecular Systematics.
- 1991-95. Various private sector sponsorships.
- 1992, 1994. FRD merit award to museum scientists.
- 2000. Special NRF Science Liaison award to attend 10th Pan-African Ornithological Congress, Kampala, Uganda.
- 2001. Special NRF Science Liaison award to attend 3rd International Hornbill Workshop, Phuket, Thailand.
- 2004. One year's support from Thailand's National Center for Genetic Engineering and Biotechnology (BIOTEC) for rainforest survey research.
- 2007-2008. Six month's funding to enable specialist assistance at Department of Microbiology, Mahidol University, Thailand.

Consultant

- Sept-Oct 1994 – Kruger National Park, specialist consultant on ground hornbills to

- BBC Natural History Unit for filming of Wildlife on One programme, 6 weeks.
- Oct-Nov 1996. Kruger National Park, specialist consultant on various birds to David Attenborough for BBC series Life of Birds, 3 weeks.
 - Sep-Oct 1998. Kruger National Park, specialist hornbill consultant to National Geographic magazine team, 4 weeks
 - October 2001 – Mala Mala, specialist consulting on ground hornbills for National Geographic film unit, 1 week.
 - 2004-present - >15 specialist birding and nature tours as a National South African Tourist Guide, registration number GP0770.
 - 2005-present – >10 Biodiversity assessments for a Ramsar wetland proposal, Important Bird Area proposal, and general scoping, G20 and specialist avifaunal EIAs.

ABBREVIATED CURRICULUM VITAE

GEYSER, Rihann Frans

Identity Number 690304 5248 084
Gender Male
Date of Birth 4 March 1969
Nationality South African
Home Languages Afrikaans, fluent in English, speak French
Cell 074 802 2891
E-mail avifauna@galagoenvironmental.co.za
Qualifications Senior Certificate (Grade 12)
National Diploma Nature Conservation, Unisa (not completed)

Professional Honours

- Committee member of the BirdLife South Africa's BirdLife Northern Gauteng (Pretoria Bird Club) Branch.
- Bird Ringing coordinator for BirdLife Northern Gauteng and SAFRING, ADU, UCT, Cape Town.
- Chairman of BirdLife Northern Gauteng Bird ringing Group.
- 20 years service at Department of Agriculture, Forestry and Fisheries.

Research Contributions

Review and contribution to several avifaunal publications such as Southern African Bird Atlas Project 1, Roberts Birds of southern Africa 7th edition, Pipits of Africa, LBJ's of southern Africa, Birding in Gauteng and 'my first bird book'. Sampling for DNA analyses; author of various bird ringing articles; lecturer and talk on bird related topics; projects participation on grey-headed gull colour ringing project, crimson breasted shrike behavioural studies, European swallow migratory studies, sunbird research, Pale Chanting Goshawk ringing and monitoring projects; Coordinated Avifaunal Road count (CAR), Coordinated Avifaunal Water Bird count (CWAC), Birds in Reserves Project (BIRP), Breeding and bird nest monitoring (NRCS), Southern African Bird Atlas 1 and 2 project, bird ringing promotions, liaison and training; Bird and nature guide, Bird photography. Avifaunal feasible studies.

Literary Contributions

Articles in popular science magazines and news papers.

Formal Courses Attended

Bird identification, tree identification, small mammal identifications, mammal identification and habitats.

Experience in collecting and preserving of insects, mammals and plants as well as preparing skins of mammals and birds. Global Information Systems (GIS). General photography. ICDL computer training. First aid and fire prevention and distinguishing, time management, English writing skills, report writing etc.

Present Position

Avifaunal (Birds) Specialist and Global Information System (GIS) technician, Galago Environmental CC, 2012 – Present.

EMPLOYMENT HISTORY

January 2012 – Present

Full time Avifaunal Specialist and Global Information Systems technician for Galago Environmental CC.

2003 – January 2012

Part time Avifaunal Specialist for Galago Environmental CC

December 1991 – December 2011

Senior Administration Clerk and Senior Debt Security Inspector, Department of Agriculture, Forestry and Fisheries.

PROFESSIONAL CONTRIBUTIONS

- More than 500 Avifaunal specialist studies and reports for Galago Environmental CC for proposed residential/commercial developments, wind farms, solar farms and mining and rehabilitation.
- Thirty years of birding experience.
- Past Vice-chairman of BirdLife Northern Gauteng (Pretoria Bird Club)
- Leading birding outings and tours for BirdLife Northern Gauteng and various other bird clubs and operating as bird and tourist guide at Sammy Marks museum, Rietvlei Nature Reserve and several other conservation institutions and bird clubs.
- Giving lectures on bird ringing, bird identification and quizzes as part of BirdLife Northern Gauteng activities as well as to various other organisations.
- Past Chairman of the Pretoria Bird Club ringing group.
- Responsible for training and registering of newly qualified ringers at SAFRING.
- Lectures and popular articles.

HOBBIES AND SPORT

Birding, mammal and reptile identification and monitoring. Photography. Skydiving, Hiking and Cricket.



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DIRECTORATE: ENVIRONMENTAL QUALITY

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Fax: +27(18) 389 5006
E-mail: oskosana@nwpg.gov.za
Enq: ETA Admin Officer

DETAILS AND EXPERTISE OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number:
NEAS Reference Number:
Date Received:

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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, 2014

PROJECT TITLE

Q4 City Filling Stations

1. Details of Specialist

Specialist:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:
Professional affiliation(s) (if any)

Jaco Van Wyk		
Galago Environmental - Vanessa Marais		
638 Turf Street, Wingate Park		
0181	Cell:	082 410 8871
012-345 4891	Fax:	086 675 6136
jcpvanwyk@absamail.co.za		
SACNASP		

Project Consultant:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:

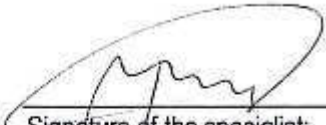
Bokamoso Landscape Architects and Environmental Consultants CC		
Lizelle Gregory/Mary-Lee van Zyl		
PO Box 11375, Maroelana, Pretoria		
0161	Cell:	-
012 346 3810	Fax:	086 570 5659
lizelleg@mweb.co.za/info@bokamoso.net		

4.2 The specialist appointed in terms of the Regulations_

I, **Jaco Van Wyk**, declare that --

General declaration:

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct;
and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the specialist:

GALAGO ENVIROMENTAL

Name of company (if applicable):

12 October 2015

Date:

ABBREVIATED CURRICULUM VITAE
VAN WYK, Jacobus Casparus Petrus (Jaco)

Identity number 680804 5041 084
Date of birth 4 August 1968
Gender Male
Nationality South African
Home languages Afrikaans, fluent in English
Postal address P.O. Box 25085, Monument Park, Pretoria, 0105.
Tel no +27 12 347 6502, Cell +27 82 410 8871
E-mail jcpvanwyk@absamail.co.za

Qualifications **B.Sc.** (U.F.S.) **B.Sc. (Hon.)** (U.F.S.), **H.E.D** (U.F.S.), **M.Sc.** (U.F.S.)

Honours Foundation of Research Development bursary holder, Professional Natural Scientist (Zoology) – S.A Council for Natural Scientific Professions, Registration # 400062/09

Notable Research Contribution In-depth field study of the giant bullfrog
Formal Courses Attended Outcomes Based Education, University of the South Africa (2002)
Introductory Evolution, University of the Witwatersrand (2008)
OBE, GET & FET training, 2002-2008, Education Department

PRESENT POSITION

Co-Department Head, Environmental Education & Life Sciences, Hoërskool Waterkloof.
Consultant, Specialist Environmental Assessments, EIAs, writing, photo-recording.

EMPLOYMENT HISTORY

2000 – Present Co-Department Head for Environmental Education & Life Sciences, Hoërskool Waterkloof, Pretoria.

1995 - 1999 Teaching Biology (Grades 8 – 12) and Physics / Chemistry (Grades 8 – 9) at the Wilgerivier High School, Free State. Duties included teaching, mid-level management and administration.

July 1994 – Dec 1994 Teaching Botany practical tutorials to 1st year students at the Botany & Zoology Department of the Qwa-Qwa campus of the University of Free State, plant collecting, amphibian research.

1993 - 1994 Mammal Research Institute (University of Pretoria) research associate on the Prince Edward Islands: topics field biology and population dynamics of invasive alien rodents, three indigenous seals, invertebrate assemblages, censussing of King penguin chicks and lesser Sheathbills, and marine pollution.

1991 - 1993

Laboratory demonstrator for Zoological and Entomological practical tutorials, and caring for live research material, University of the Free State.

1986 - 1990

Wildlife management and eco-guiding, Mt. Everest Game Farm, Harrismith.

PROFESSIONAL RESEARCH ACHIEVEMENT

Author and co-author of 50 scientific publications in peer-reviewed and popular subject journals, and 48 contractual EIA research reports. Extensive field work and laboratory experience in Africa.

PUBLIC RECOGNITION

Public speaking *inter alia* radio talks, TV appearances.

HOBBIES

Popular writing, travel, marathon running, climbing (viz Kilimanjaro), photography, biological observations, public speaking.



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DIRECTORATE: ENVIRONMENTAL QUALITY

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Enq: EIA Admin Officer

DETAILS AND EXPERTISE OF SPECIALIST AND DECLARATION OF INTEREST

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PROJECT TITLE

Q4 City Filling Stations

1. Details of Specialist

Specialist:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:
Professional affiliation(s) (if any)

Dr I.L. Rautenbach		
Galago Environmental - Vanessa Marais		
638 Turf Street, Wingate Park		
0181	Cell:	082 335 1288
012-345 4891	Fax:	086 675 6136
naasrauten@mweb.co.za		
SACNASP		

Project Consultant:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:

Bokamoso Landscape Architects and Environmental Consultants CC		
Lizelle Gregory/Mary-Lee van Zyl		
PO Box 11375, Maroelana, Pretoria		
0161	Cell:	-
012 346 3810	Fax:	086 570 5659
lizelleg@mweb.co.za/info@bokamoso.net		

4.2 The specialist appointed in terms of the Regulations_

I, **Naas Rautenbach**, declare that --

General declaration:

- I act as the independent specialist in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct;
and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.



Signature of the specialist:

GALAGO ENVIROMENTAL

Name of company (if applicable):

13/10/2015

Date:

**ABBREVIATED CURRICULUM VITAE:
RAUTENBACH, Ignatius Lourens**

Identity Number 421201 5012 00 5
Gender Male
Date of Birth 1 December 1942
Nationality South African
Home Languages Bilingual (English & Afrikaans)
Postal Address 45 Helgaard Street, Kilner Park, Pretoria, RSA
0186. Tel no +27 12 3334112, Cell +27 082
3351288.
E-mail naasrauten@mweb.co.za
Qualifications **B.Sc.** (UP), **T.H.E.D** (Pta TTC), **M.Sc.** (UP),
Ph.D. (Un. Natal)
Professional Honours
1. Professional Natural Scientist (Zoology) – S.A
Council for Natural Scientific Professions,
Registration # 400300/05
2. Fellow of the Photographic Society of South
Africa
3. Master photographer at club level
4. Honorary life member of the S.A. Wildlife
Management Association.
Notable Research Contribution In-depth survey of the Mammals of the
Transvaal. 1982. 211pp. Ecoplan Monograph
1.
Notable Literary Contribution Rautenbach, Naas & Annalene Rautenbach.
2008. *Photography for Focused Beginners*.
302pp with 250 images. Green Door Studio,
Pretoria.
Formal Courses Attended Computer Literacy, Project Management,
Contract Design, Senior Management
Former Position Retired Director: Planning, Northern Flagship
Institute
Present Position Consultant – Specialist, Environmental Impact
Assessments (Applied research),
Photographing microstock for four agencies

EMPLOYMENT HISTORY

May 2001 - Present

Self-employed, collaborator with Eco-Agent CC Ecological Consultants, as well as Galago Environmental (Environmental Impact Assessments), technical writing, and photography.

April 1999 - August 2001

Director: Planning, Northern Flagship Institution.

Jan 1991 - April 1999

Executive Director, Transvaal Museum.

July 1967 - Dec 1990

Curator (in charge) of the Division of Mammalogy, Transvaal Museum. Promoted to Principal Scientist rank as of June 1985.

March - June 1967

Research student at the Mammal Research Institute of the Zoology Department, University of Pretoria

July 1966 - Feb 1967

Member of the Smithsonian Institution's field teams collectively partaking in the 'African Mammal Project'

1966:

Part-time research assistant to Prof. J. Meester, University of Pretoria

1962 – 1965

Temporary assistant during University holidays in the Nematology laboratories, Agricultural Technical Services

1991 - 2002

Founder member and non-executive director of the Board of Trustees.

1993 - 2001

Founder member and Trustee of the privatised Museums Pension Fund.

1997 - 2001

Non-executive director of the Tswaing Section 21 Company.

PROFESSIONAL ACHIEVEMENTS

Managed a research institute of 125 members of staff. Solicited numerous grants totalling ≥ R1 000 000. Initiated and overseen building programmes of R30 million at the Transvaal Museum. Conceptualised and managed 12 display programmes.

Research: Author and co-author of 85 scientific publications re mammalogy in peer reviewed subject journals, 18 popular articles, 10 books, and >400 contractual EIA research reports. Extensive field work and laboratory experience in Africa, Europe, USA, Alaska, Brazil and Mexico. B-rated by FRD as scientist of international status 1983 – 1995.

Students: Additional to museum manager duties, co-supervised 5 B.Sc. (Hons.), 2 M.Sc. and 2 Ph.D. students.

PUBLIC RECOGNITION

- Public speaking *inter alia* Enrichment Lecturer on board the 6* SS *Silver Wind*, radio talks,
- TV appearances.

HOBBIES:

Technical writing, photography, field logistics, biological observations, wood working, cooking, designs.



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DIRECTORATE: ENVIRONMENTAL QUALITY

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Fax: +27(18) 389 5006
E-mail: oskosana@nwpp.gov.za
Enq: EIA Admin Officer

DETAILS AND EXPERTISE OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number:
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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, 2014

PROJECT TITLE

Q4 City Filling Stations

1. Details of Specialist

Specialist:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:
Professional affiliation(s) (if any)

Holland-Muter and Associates CC		
Les Holland-Muter		
P.O. Box 1450, Faerie Glen		
0043	Cell:	083 455 2610
012 - 991 2695	Fax:	012 - 991 0796
lhmuter@lantic.net		
SACNASP 400021/93		
SAIEG 85/52		
CGS (Council for Geosciences)		

Project Consultant:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:

Bokamoso Landscape Architects and Environmental Consultants		
Mary-Lee van Zyl		
P.O. Box 11375, Maroelana		
0161	Cell:	
012 - 346 3810	Fax:	086 570 5659
matylee@bokamoso.net		

2. Expertise of the Specialist including Curriculum vitae (Appendix 6 (1)(a)(ii) of EIA Regulations, 2014)


COMPANY PROFILE AND CERTIFICATES ATTACHED



3. Declaration by Specialist

I, L.M. HOLLAND-MUTER (Name of Specialist) of HOLLAND-MUTER & ASSOCIATES CC (name of company) declare that;

- I act as an independent specialist in this application.
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant.
- there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant/ Environmental Assessment Practitioner appointed by applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 48 and is punishable in terms of Section 49B(2) of the Act.



Signature of the specialist

HOLLAND-MUTER AND ASSOCIATES CC
Name of company (if applicable)

22.09.2015

Date

WILLEM PIETER MARWENECOM
Ex Officio Commissioner of Oaths
Professional Accountant (SA)
797 Somerset Street
Wingate Park, Pretoria 0181


Signature of the Commissioner of Oaths

29-09-2015
Date

Accounting Officer
Designation

Official stamp:

WILLEM PIETER MARWENECOM
Ex Officio Commissioner of Oaths
Professional Accountant (SA)
797 Somerset Street
Wingate Park, Pretoria 0181





Council for Geoscience

Private Bag X112 Pretoria 0001 SOUTH AFRICA 280 Pretoria Street Silverton Pretoria
Reception: +27 (0)12 841 1815 Internet: <http://www.geoscience.org.za>

Our Reference:
HMA Letter
Enquiries: T Coosthuizen
Your Report Reference: -
Tel: 012 841 1160
Fax: 085 815 6682
Email: coosthuizen@geoscience.org.za

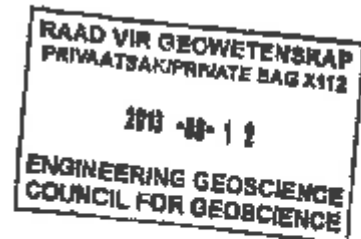
12 September 2013

HOLLAND-MUTER & ASSOCIATES
P O Box 1460
Farrisa Glen
0043

By email: hmutter@hmtic.net

Attention: TO WHOM IT MAY CONCERN

Dear Sir,



COMPETENT PERSON: LM HOLLAND-MUTER

This office, the Council for Geoscience (CGS) would hereby like to confirm that Mr. Leslie Martin Holland-Muter with ID No: 5408135119089 is recognized as being a competent person in conducting dolomite stability investigations.

Mr. Leslie Martin Holland-Muter has submitted several reports to this office for our comments and review and we hereby confirm that he is regarded as a specialist with more than fifteen years of experience in the field of dolomite stability investigations.

If you have any further queries, please do not hesitate to contact this office.

Yours faithfully,

A COOSTHUIZEN

Engineering Geologist



**THE SOUTH AFRICAN COUNCIL
FOR
NATURAL SCIENTIFIC PROFESSIONS**

herewith certifies that

Leslie Martin Holland-Muter

Registration number: 400021/93

is registered as a

Professional Natural Scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003

(Act 27 of 2003)

in the following field(s) of practice

(Schedule I of the Act)

Geological Science

25 February 1993

25 February 1993

Pretoria



President



Chief Executive Officer

SACNASP
South African Council for Natural Scientific Professions



The bearer of this card has satisfied the requirements determined by the Council for the relevant category and is subject to a Code of Conduct administered by the Council.

Private Bag 1141, Durban 4001 / 1141 Durban 4001
www.sacnasp.org.za

The South African Council for Natural Scientific Professions certifies in terms of section 20(1)(a) of the Natural Scientific Professions Act, 2004 (Act No. 55 of 2004) that

Mr L M Holland-Muter

is registered as a Professional Natural Scientist, Reg. no.

400021/93

Geological Science

31 MAY 2016

SACNASP
1779



S.A. Institute for Engineering and
Environmental Geologists

PO Box 1603
Houghton
2041

Invoice

Date	Invoice No.
2015/01/22	SIN12241

Invoice To
Mr Leslie Martin Holland-Muter Holland-Muter & Associates P O Box 1450 Faerie Glen 0043

Membership Number	Account Number
85/52	HOL001

Description	Qty	Rate	Amount
SAIEG Membership 2015 - Member	1	715.00	715.00
IAEG Bulletin 2015	1	580.00	580.00

Important Note:
Interest of 18% p.a. will be levied on all invoices not paid within 30 days from date of this Invoice

BANKING DETAILS (please fax proof of payment to 086 653 7108)
ACC NAME: SA Institute for Engineering & Environmental Geologists (SAIEG)
Bank: Nedbank
ACC NO: 1602070423
Branch: Hatfield
BR. Code: 160245
Swift Code: NEDSZAJJ

Total	ZAR 1,295.00
Payments/Credits	ZAR 0.00
Balance Due	ZAR 1,295.00

SAIEG is not VAT registered

Phone #	FAX #	E-mail
+27 (0) 11 483 1861 +27 (0) 11 483 1862	086 653 7108	accounts@rca.co.za

Die Universiteit van Stellenbosch

Hiermee word verklaar dat nademaal

LESLIE MARTIN HOLLAND-MUTER

ten opsigte van die driejarige Baccalaureus-graadkursus
in die Natuurwetenskappe met

Hoofvakke: ** BOTANIE 111A, GEOGRAFIE 111B **

Byvakke: ** GEOLOGIE 11, CHEMIE 1 **

voldoen het aan al die vereistes soos neergelê in Wet
Nr. 37 van 1959 en die Statuut en Regulasies van die
Universiteit, die graad

Baccalaureus in die Natuurwetenskappe (B.Sc.)

met al die regte en voorregte daaraan verbonde, by
geleentheid van 'n Kongregasie van die Universiteit op

4 MAART 1977 aan hom verleen is.

Stellenbosch

4 MAART 1977



J. de Klerk

REKTOR

A. P. ...

REGISTRAR

Die Universiteit van Stellenbosch

Hiermee word verklaar dat nademaal

LESLIE MARTIN HOLLAND-MUTER

ten opsigte van die *Honneurs-Baccalaureus*-graadkursus
in die *Natuurwetenskappe* met

GEOLOGIE

as studierigting, voldoen het aan al die vereistes soos
neergelê in Wet Nr. 37 van 1959 en die Statuut en
Regulasies van die Universiteit, die graad

Honneurs-Baccalaureus in die
Natuurwetenskappe (Hons.-B.Sc.)

met al die regte en voorregte daaraan verbonde, by
geleentheid van 'n Kongregasie van die Universiteit op

11 DESEMBER 1979 aan hom verleen is.



G. J. van der Merwe
REKTOR

P. J. van der Merwe
PROFESOR

Stellenbosch

11 DESEMBER 1979

HOLLAND- MUTER & ASSOCIATES

Engineering and
Environmental Geologists

INTRODUCTION

◎ Holland-Muter and Associates CC, a BEE rated company provides in collaboration with the MPHP (Management Peoples Housing Projects) a comprehensive range of professional services countrywide inclusive, inter alia, of the following :

- Geotechnical and Environmental Studies
- Civil Engineering Planning and Designs
- Project Management and Facilitation for residential building contracts



MISSION STATEMENT

- ◉ Our mission is to meet Client's needs through innovation and service excellence, and to ensure that real benefits accrue to the Client of Holland-Muter & Associates CC's participation in any project.



OUR AIM

- ⦿ Our aim is to grow our business and expand our areas of operation, and make a real contribution to the development of Southern Africa.
- ⦿ We aim also to continue our active involvement in teaching at both local Universities, and sponsoring promising individuals to broaden their education.

FIELDS OF EXPERTISE

- ⦿ Geological investigations for communication routes:- Roads, Tunnels, Railway lines and Airports.
- ⦿ Engineering Geological facets of Urban and Regional planning projects, inclusive of Soil quality and distribution, Stability of soils, Bearing capacity etc.
- ⦿ Investigations to determine Dolomite stability.
- ⦿ Foundation Investigations.
- ⦿ Environmental impact studies.
- ⦿ Aerial photographic interpretations.
- ⦿ Groundwater studies and refuse disposal.
- ⦿ Terrain evaluation and Soil investigations.
- ⦿ Agricultural Pedological studies.
- ⦿ Engineering designs for residential and commercial structures as well as related infrastructure.
- ⦿ Project Management and Facilitation of the Construction of Residential houses

AFFILIATES

- ◉ The company has access to, or is working in close association with other specialists in related sciences, such as **Geophysicists, Geotechnical-, Structural, Civil and Mining Engineers, Building Contractors** etc.
- ◉ Specialist drilling contractors and Soil / Rock testing Laboratories are also at the company's disposal. Should any particular project necessitate the enlargement of the support base, then the necessary professionals are taken aboard from the company's affiliates.

REGISTRATIONS

- ◉ Member of the South African Council for Natural Scientists (Pr. Sci. Nat.)
- ◉ Member of the South African Institute of Engineering Geologists (MSAIEG)
- ◉ Member of the Institute of Waste disposal Management (MMIWM)
- ◉ Member of the Geotechnical Division of Civil Engineers (SAICE)
- ◉ Accredited Dolomite Specialist with Council for Geoscience

BEE STATUS

- ⦿ The company is committed to Black Economic Empowerment. All historically disadvantaged employees are trained internally and externally to equip them for their duties in the company.
- ⦿ The company qualifies for a Contribution Level of 4 with a B-BBEE procurement Level of 10% in terms of the Codes of Good Practice issued in terms of section 9 of the Broad Based Black Economic Empowerment Act, 53 of 2003.

CONTACT US

Name : Holland-Muter & Associates CC

Registration No : 2001/000656/23

VAT Registration No : 4340199050

Physical Address : 381 Hazyview Street
FAERIE GLEN
Pretoria

Postal Address : P.O. Box 1450
FAERIE GLEN
Pretoria
0043

Telephone Number : 012 - 991 2695

Facsimile : 012 - 991 0796

Mobile : 083 455 2610

e-Mail : lhmuter@lantic.net

LES HOLLAND-MUTER CURRICULUM VITAE

L.M. HOLLAND-MUTER (Pr.Sci.Nat.)

L.M. HOLLAND-MUTER, is a registered Engineering Geologist with more than 35 years experiences of which 16 years were executed in consulting practise. He is also registered as a Professional Natural Scientist (Pr. Sci. Nat.)

1. PERSONAL DETAILS:

Full Names : Leslie Martin Holland-Muter
Date of Birth : 1954 / 08 / 13
Marital Status : Married
Nationality : South African

Current Position : Consulting Engineering
Geologist
Director : Holland-Muter &
Associates cc

LES HOLLAND-MUTER CURRICULUM VITAE (CONT.)

2. EDUCATION

1977	Obtain BSc degree at the University of Stellenbosch
1979 the	Obtain BSc (Hon) Geology degree at University of Stellenbosch
1982	Obtain BSc (Hon) Engineering Geology degree at the University of Pretoria

3. FIELDS OF SPECIALIZATION

- Engineering Geology
- Dolomite Stability Investigations
- Township and Rural Developments
- Geohydrological and Environmental Impact Studies
- Photo geology & Airphotographic Interpretation Studies
- Terrain Evaluation
- Applied Geomorphology
- Solid waste Disposal Investigations
- Pedological Investigations
- Construction Materials & Transport Geology

LES HOLLAND-MUTER CURRICULUM VITAE (CONT.)

4. EMPLOYMENT RECORD AND APPOINTMENTS

1991 - to date	Holland-Muter & Associates CC
1979 - 1990	Council for Geoscience

5. EXPERIENCE

Includes Engineering Geological Investigations for Urban and Regional developments and their associated major structures, Environmental studies, Geohydrological Studies, Stability investigations on dolomite underlain areas, Pedological Studies for cemetery sites, Solid Waste Disposal Site Investigations, Construction Materials for roads, Foundation investigations for small and major structures, Geological investigations for mining houses etc.

LES HOLLAND-MUTER CURRICULUM VITAE (CONT.)

6. PROFESSIONAL CAREER

1979 - 1990 :Assistant-Director responsible for Engineering Geology for non-dolomitic areas in South Africa at the Council for Geoscience.

1991 - to date : The firm Holland-Muter & Associates CC was established in 1991 as a consulting firm with the intention to be involved in all the aspects of urbanization and rural development.

LES HOLLAND-MUTER CURRICULUM VITAE (CONT.)

7. SPECIALIST INVESTIGATIONS

Mr Holland-Muter, in his capacity as the Competent Person of Holland-Muter & associates CC has specialized since 1993 in executing Dolomite Stability Investigations. Currently 80% of the work executed by Mr. Holland-Muter is conducted for township developments, mainly on dolomitic land. Mr. Holland-Muter is accredited with the Council for Geoscience in Pretoria for being an expert specializing in dolomitic stability investigations.

Mr Holland-Muter thus, being the Competent Person for Holland-Muter and Associates CC

- has more than 18 years continued experience in dolomite specific geotechnical work since 1992, of which the work included geotechnical investigations in South Africa, in partially saturated soils in areas underlain by dolomites and investigations of sinkholes and dolines and the rehabilitation of sinkholes and dolines
- has more than 30 years of experience in urban related geotechnical investigations.
- is registered in terms of Section 11 of the Natural Scientific Professions Act, 1993 (Act No. 106 of 1993).



read

Department:
**Rural, Environment and Agricultural
Development**
North West Provincial Government
REPUBLIC OF SOUTH AFRICA



AgriCentre Building
Cnr. Dr. James Moroka
and Stadium Rd
Private Bag X2039,
Mmabatho 2735

CHIEF DIRECTORATE: ENVIRONMENTAL SERVICES
DIRECTORATE: ENVIRONMENTAL QUALITY

Tel: +27 (18) 389 5156
Fax: +27(18) 389 5006
E-mail: oskosana@nwpq.gov.za
Eng: EIA Admin Officer

DETAILS AND EXPERTISE OF SPECIALIST AND DECLARATION OF INTEREST

(For official use only)

File Reference Number:
NEAS Reference Number:
Date Received:

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, 2014

PROJECT TITLE

Q4 City Filling Stations

1. Details of Specialist

Specialist:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:
Professional affiliation(s) (if any)

VIP Consulting Engineers (Pty) Ltd		
Henk Viljoen		
P O Box 11211, Silver Lakes		
0054	Cell:	+27 82 851 3898
+27 12 809 0010	Fax:	+27 12 809 1435
henk@vipconsulting.co.za		
Pr Tech Eng		

Project Consultant:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:

Bokamoso Landscape Architects and Environmental Consultants CC		
Lizelle Gregory/Mary-Lee van Zyl		
PO Box 11375, Maroelana, Pretoria		
0161	Cell:	-
012 346 3810	Fax:	086 570 5659
lizelleg@mweb.co.za/info@bokamoso.net		

2. Expertise of the Specialist including Curriculum vitae (Appendix 6 (1)(a)(ii) of EIA Regulations, 2014)

Areas of expertise include :

- i) Design Specialist
- ii) Management
- iii) Urban Design
- iv) Stormwater Management
- v) Road Rehabilitation
- vi) Leadership

My responsibilities include but is not limited to :

- i) Design Development and Management
- ii) Design and Specifications
- iii) Project and General Management
- iv) Stormwater Design
- v) Urban Design
- vi) Stormwater Management
- vii) Road Rehabilitation
- viii) Mentoring

Please find attached to this document my Curriculum Vitae.



3. Declaration by Specialist

I, Hendrik Stephanus Viljoen (Name of Specialist) of VIP Consulting Engineers (Pty) Ltd (name of company) declare that;

- I act as an independent specialist in this application.
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant.
- there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant/ Environmental Assessment Practitioner appointed by applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- **all the particulars furnished by me in this form are true and correct; and**
- **I realise that a false declaration is an offence in terms of Regulation 48 and is punishable in terms of Section 49B(2) of the Act.**


Signature of the specialist

VIP Consulting Engineers (Pty) Ltd
Name of company (if applicable)

30 September 2015
Date

Date


Signature of the Commissioner of Oaths

30 September 2015
Date

Date

Attorney
Designation

Official stamp:

CARMEN POPE
COMMISSIONER OF OATHS
TJGERVALLEY OFFICE PARK
BUILDING 78, UNIT 3
SILVERLAKES ROAD
PRETORIA
PRACTISING ATTORNEY R.S.A.
MARAIS BASSON INC.





**HENK
VILJOEN
DIRECTOR**

Consulting Engineer
Design Technologist

P O Box 11211, Silverlakes, 0054

T : 012 809 0010 ; M : 082 851 3898 ; F : 012 809 1435 ; E mail : henk@vipconsulting.co.za

Date of Birth : 02 Sep 1970 ; Place of Birth : South Africa

Ethnic Group and Gender : White Male ; Disabilities : None

Personal Objective : To empower and uplift others!

AREAS OF EXPERTISE

- Design Specialist
- Management
- Urban Design
- Stormwater Management
- Road Rehabilitation
- Leadership

CAREER HISTORY

Current Employer

Period

Position

Responsibilities

VIP CONSULTING ENGINEERS (PTY) LTD

03 January 2005 – Current

DIRECTOR AND CO-OWNER (since 2013)

- Design Development
- Design Management
- Design and Specifications
- Stormwater Design
- Project Management
- General Management
- Mentoring
- Road Rehabilitation
- Personal Development
- Urban Design
- Stormwater Management

Previous Employer

Period

Position

EKSTEEN FOURIE & ASSOCIATES

01 Feb 1998 – 15 Dec 2004

DESIGN ENGINEER

WORK EXPERIENCE AND SKILLS

Detail Design and Specification

- Establish appropriate design criteria and design standards
- Conceptual and detail design and calculations
- Supervise and review preparation of tender drawings and working drawings
- Obtain approvals and licenses (if appropriate)
- Strategise of feasibility studies on new projects including preliminary design and costing
- Compilation of various reports
- Checking and approval of designs and workings drawings
- Visual inspection of roads (highways)
- Evaluation of survey data and the design of rehabilitation alternatives
- Stormwater Management and Designs
- Urban Development Designs
- Road Rehabilitations

Tender and Contract Documentation

- Advise Customers on selection of appropriate General Conditions of Contract
- Supervise and compile documents and bill of quantities, tender evaluation
- Adjudication and recommendation, negotiating the level of service with local authority
- Progressively aligning VIP's structures, policies and practices with public sector requirements for Black Economic Empowerment and preferential procurement
- Maintaining an impeccable reputation in the industry
- Align company skills and expertise with public sector Customer requirements
- Competitive pricing and compliance with conditions of tender

General Management

- Management of the company since 2013
- Liaising with Contractors and Local Communities, Clients and Town and Regional Planners
- Development and Implementation of ISO 9001 Quality Management System from 2006
- Planning, Development and Design of various master plans and projects which included :
 - Various Drainage Systems
 - Streets and Stormwater Drainage Systems and Management
 - Township Infrastructure
 - Road Rehabilitation

- Recruitment of personnel and employment contract
- Mentoring of Engineers and Technologists in training toward professional registration
- Training and Management of Technicians in Computer Software including :
 - Drawing of Plans : Caddie, AllyCad and AutoCad
 - Sewer-, Water-, Stormwater Networks and Roads : Model and Road Maker, Civil Designer
 - Stormwater Attenuation : PCSWMM
 - Payment Certificates and Tenders : Microsoft Office
- Marketing for the company

EDUCATION AND QUALIFICATIONS

Tshwane University of Technology; N Dip (Civil) – 10 Dec 2004

Tshwane University of Technology; B Tech Eng (Civil / Urban) – 29 Jun 2007

PROFESSIONAL STATUS

Registration Membership

Registered as a Pr Tech Eng with Engineering Council of South Africa : 201370027 – 24 Jan 2013

Engineering Council of South Africa

South Africa's Institute of Civil Engineers (SAICE) : 201301933 – 10 Dec 2013

CONTINUED PROFESSIONAL DEVELOPMENT (last 5 years)

COURSE	INSTITUTION	COMPLETED
Construction Management (SP-ND-CM-7-E-1-20)	CETA	18 Mar 2010
Flood Estimation and Stormwater Drainage for Roads	SANRAL	Jun 2010
Civil Designer Conversion	Knowledge Base	18 Nov 2010
Civil Designer (Stormwater)	Knowledge Base	03 Jun 2013
Surface and Underground Haul Road Design	Diverse Corporate Training Solutions	16 Apr 2014

REFERENCES

CONTACT NAME	COMPANY	RELATIONSHIP	CONTACT NR
Piet van Immerzeel	VIP Consulting Engineers	CEO	012 809 0010
Johan J v Rensburg	VIP Consulting Engineers	Design Director	012 809 0010
Graeme Green	JT Ross	Customer	082 450 3312
Dr Elardus Erasmus	ELS Development	Customer	082 450 9807

Thank you for taking the time in evaluation my CV.

HENK VILJOEN

Curriculum Vitae

Name: Leonie Marais-Botes

Address: 868 Endemann Street
Wonderboom South
PRETORIA
0084

Contact Numbers: Mobile: 082 576 6253
Landline: 012 335 5079

E-mail: leoniembotes@gmail.com

Identity number: 7003040010081

Home language: Afrikaans

Other language skills: English

Health: Excellent

Computer literate: Yes

1. **Education**

1.1 **Tertiary**

Institution	Qualification	Year completed	Majors
University of Pretoria	BA	1991	Cultural History Archaeology Biblical Studies
University of Pretoria	BA (Hons)	1993	Cultural History
University of Pretoria	Post Grad. Diploma in Museum Science	1996	
Damelin Management School	Diploma in Basic Principles of Public Relations	1998	
University of Pretoria Management School	Management Development Programme	2004	
University of the Witwatersrand	Post Grad Dip (Heritage)	2009	

Short courses attended

Institution	Course
KwaZulu-Natal Provincial Museum Service	Conservation and Restoration
SAMADOC	Documentation of museum collections
KwaZulu-Natal Provincial Museum Service	Architectural Conservation
Southern Africa Museums Association	Collection and documentation of contemporary collections
OWL Education	Writing English for the Workplace
Cultural Heritage Research Centre, University of Canberra, Australia	Conservation of Traditional Buildings
South African Management Development Institute	Hearing procedures
Conservation Management Plan Study Tour, UK	Conservation Management Plan development and management
University of Pretoria	PFMA Course
International Quality and Productivity Centre	Environmental Impact Assessment Regulations

2. **Work experience**

Institution	Position	Responsibilities	Period	Experience
Independent Heritage Consultant (Leonie Marais-Botes Heritage Consultant)			1 July 2012 -	<ul style="list-style-type: none"> • Section 38 (Heritage Impact Assessment) applications to Heritage Authorities • Section 34 applications to Heritage Authorities • General heritage management • Project Management • Financial Management • Public and Client Relations
Heritage Foundation	Senior Manager: Projects	South African Heritage Resources Agency (SAHRA) graves project Fund Generating projects	8 November 2010 to 31 July 2012	<ul style="list-style-type: none"> • Project Management • Budget and expenditure management • Personnel management • Contractor appointments and quality control of work

Council for Geoscience	Curator: Geoscience Museum	Supervision of the Geoscience Museum's education programme, displays, collections and exhibitions, supervise the day-to-day running of the museum, including marketing and advertisement of the Museum's activities, lobbying for grants, donations and external funding, financial and admin aspects of the museum and supervision of museum staff	1 November 2008 to 7 November 2010	<ul style="list-style-type: none"> • Understanding of museum and heritage sector • Strategic, analytical and financial skills • Organisational and planning skills • Negotiation and conflict resolution skills • Ability to work with a broad range of people at all levels • Ability to provide effective leadership and to inspire and motivate
PBAI (International) SA	Heritage practitioner/Environmental Practitioner	<ul style="list-style-type: none"> • Project manager: Environmental Impact Assessments • Heritage Impact Assessments 	1 August 2007 to 31 October 2008	<ul style="list-style-type: none"> • Environmental legislation • Public participation • Heritage site management • Project Finance Management
National Department of Public Works	Assistant Director: Heritage Conservation	<ul style="list-style-type: none"> • General office administration • Project information and analysis in terms of heritage • Planning and co- 	(01/01/1999 ► 31 July 2007)	<ul style="list-style-type: none"> • <u>Office administration</u> Writing of reports, official letters, internal memoranda, agendas, minutes, faxes, filing. • <u>Project Management</u>

		<p>ordination of Conservation Management Plan (CMP) Projects</p> <ul style="list-style-type: none"> • Planning and co-ordination of heritage training sessions, workshops and information sessions • Research • Internal and external public relations processes • Drafting of in-house Conservation Management Plans and Heritage Impact Assessments • Conservation management of Public Works items and sites • Loan agreements • Museums: 2nd phase development Nelson Mandela Museum, Mthatha, • Steering Committee new Woman's Museum, East London (DAC), 		<p>Developing concept briefs, briefing consultants, programme meetings, consultant accounts, 1st to final delivery</p> <ul style="list-style-type: none"> • <u>Research</u> Background research for projects and enquiries • <u>National Heritage Legislation and international heritage principles</u> <p>Extensive experience in running projects within the framework of the National Heritage Legislation (Act 25 of 1999) and international policy documents i.e. Venice Charter, Burra Charter</p> <ul style="list-style-type: none"> • ICOM International Museum Standards knowledge and application
--	--	---	--	---

		<ul style="list-style-type: none"> Site development Ncome Museum, Vryheid 		
--	--	--	--	--

Institution	Position	Responsibilities	Period	Experience
				<ul style="list-style-type: none"> <u>Public Relations Skills</u> Extensive internal and external client service experience, co-ordination of seminars, workshops and training sessions. Contributions to in-house journal. Presentations and talks. <u>Managerial Experience</u> Knowledge of organisation's long-and-short term goals and plans; awareness of various roles and inter-departmental relationships. Relevant professional knowledge, thus an understanding of and proficiency in the methods, processes, procedures and techniques associated with heritage conservation.

				<p>Analytical, problem-solving decision making skills.</p> <p>Social skills includes: interpersonal communication, delegation, negotiation, conflict resolution and dealing with authority and power. Stress control</p> <p>Proactive</p> <p>Creative</p>
National Monuments Council (NMC)	Assistant-Manager: War Graves and Victims of Conflict Division	<ul style="list-style-type: none"> • Assist the manager with the caring and restoration of all war graves (1795 to July 1914) in South Africa • Research • Manage archives and library • Manage administration staff • Co-ordinator of Victims of the Liberation Struggle information • Function planner and co-ordinator 	1 Dec 1997 ▶ 31 December 1998	<ul style="list-style-type: none"> • <u>Office Administration</u> Writing of reports, letters, internal memoranda, agendas, minutes and faxes. Data base use. • <u>Research</u> Background research for reports and enquiries. • <u>Managerial Experience</u> Manager for administration staff and research assistant

Institution	Position	Responsibilities	Period	Experience
National Monuments Council	Professional Officer: War Graves Division	<ul style="list-style-type: none"> • Assist the Manager with the caring and restoration of all war graves (1795▶July 1914) • Research • Liaison • 	1 April 1996▶30November 1997	
Voortrekker Museum, Pietermaritzburg	Museum Human Scientist	<ul style="list-style-type: none"> • Collection Management • Conservation • Restoration • Research • Museum Education • Public Relations 	1 September 1994▶31 March 1996	
University of Pretoria		<ul style="list-style-type: none"> • Adaptation of the Aschenborn Collection to museum standards 	April 1994	
National Cultural History Museum	Assistant	<ul style="list-style-type: none"> • Documentation of newly acquired museum objects 	December 1992	
Lydenburg Museum	Assistant	<ul style="list-style-type: none"> • Documentation of museum collection 	December 1991	

3. References

<p>Me Helene Potgieter HP Architects Tel: 083 271 6778</p>	<p>Ms J.L. Beater PBA International (SA) Supervisor Tel: 084 404 1118</p>
<p>Ms Cecilia Kruger Supervisor Heritage Foundation 0834174411</p>	<p>Dr Anton van Vollenhoven Archaetnos Research 0832916104</p>
<p>Dekha Katenga Director: Facilities Management Department of Correctional Services Private Bag X 136 PRETORIA 0001 0825640580</p>	<p>Mr Danie Barnardo Supervisor Council for Geoscience 0845886668</p>
<p>Michelle Bouwer Deputy Director: Key Account Management Department of Public Works Private Bag X 65 PRETORIA 0845803799</p>	<p>MapathaRamphela Deputy Director: Heritage Provincial Government Gauteng Dept of Sport, Recreation, Arts and Culture Tel: 011 355 2572 Cell: 083 554 1975</p>
<p>Mr Rod Matcham Chief QS KZN Department of Works 0845884081/0823767000</p>	

4.1 Organisational involvement

South African Society for Cultural History (SASCH)

- Student member – 1992-1993
- Professional member – 1994-current
- Treasurer 2005 – current
- Vice Chairman 2013 – 2014
- Ad hoc duties: Editor of the society's newsletter when required, Serve on Northern Region conference organising committee when required.

SA Museums Association (SAMA)

- Individual member

Tshwane Building Heritage Association

- Chairperson 2013-2014

Council member

- SA Society for Cultural History (SASCH) (Treasurer and Vice-Chairperson)
- Gauteng Provincial Heritage Authority (PHRA-G) (member of the Built Environment and Permit Committee (2009-2012) (2012-2015), Convenor of the Heritage Impact Adjudication Committee(2009-2012))
- Voortrekker/Mzunduzi Museum, Pietermaritzburg

4.2 Committee involvement

- Secretary of the War Graves Committees of the National Monuments Council (1996►1998)
- Served as adviser on the planning committee for the community driven Victims of the Liberation Struggle Memorial in Thokoza
- Re-imaging of Government Buildings Committee, National Department of Public Works
- Served on the Heritage Sub-Committee for Constitution Hill and assisted the South African Heritage Resources Agency (SAHRA) – Northern Regional Office with developing the initial Conservation Management Plan for the said site
- Military Graves and Heritage Committee, Department of Defence
- Served as Heritage Advisor on the Presidential Inauguration Project Team of the National Department of Public Works (2004)

4.3 Contributions to in-house publication WORX NEWS (National Department of Public Works)

- September 2001, *It's a damp shame*
- October 2001, *"Some days are diamond..."*
- February/March 2002, *Fresh Air and Open Spaces*
- September/October 2003, *Heritage Conservation in Post-Apartheid South Africa*
- January 2006, *The Union Buildings*
- February/March 2006, *The history of Tuynhuis, Cape Town*
- April/May 2006, *History of King's House*
- May/June 2006, *Castle of Good Hope*
- July/Aug 2006, *The Value of Heritage Conservation*
- Sept/Oct, *Conservation of Heritage Buildings*
- Nov/Dec, *Did you know that heritage buildings and sites are protected by law?*
- March/April 2007, *SAND +STONE=SANDSTONE=DO NOT CLEAN*

4.4 Contributions to PBAI publications

- 2 articles for PBAI publications (international)
Electricity shortage in South Africa
Heritage Sites with special reference to the Rand Steam Laundries

4.5 Workshops and information sessions arranged, co-ordinated and facilitated

- September 1999: Management of Heritage Sites seminar (international speakers)
- September 2001: Conservation course focussing on Masonry (international course leader)
- National Department of Public Works Heritage Road Show (March 2002 ► December 2002)
- Documentation workshops for officials dealing with heritage items in presidential and ministerial residences (Durban and Cape Town Regional Offices)
- Guide training (literature and practical sessions) for Presidency staff at Union Buildings
- November 2006: Conservation of Heritage Buildings. Nederlandse Monumente Commissie

5 Project Involvement

A list of projects which include Heritage Impact Assessments (HIA's), Section 34 applications and Conservation Plans can be forwarded if required.

CUPRO CONSULTING (Pty) Ltd

COMPANY PROFILE



**September
2015**



1. COMPANY BACKGROUND

CUPRO CONSULTING is a consulting firm specializing in professional electrical services. The company was formed during 2010 and took over the projects of the original company - RPC CONSULTING which was formed in 2005. The combined experience in the company represents more than 50 years of consulting services for customers in the electrical engineering field.

2. APPROACH

CUPRO CONSULTING aims to provide customers with planning, design, construction supervision and system management solutions adhering to the following principles:

- optimized and cost effective solutions
- solid ethical values
- a clear understanding of customer requirements
- using accepted industry standards, while offering alternatives based on new technology
- good working relationships with project stakeholders
- strict adherence to customer deadlines and a timely response to customer queries
- the involvement of outside technical specialists for specific specialist solutions
- adequate communication with all project stakeholders
- an effective quality assessment process regarding all deliverables to the customer
- sound project management principles

3. SCOPE OF SERVICES

Network Development Planning

- network auditing and valuation
- load measurements & forecasting
- network drawings & simulation
- financial viability of alternatives

Power System Design

- power lines
- cable networks
- substations
- power stations (solar, wind, hydro)

Lighting Solutions

- building & area lighting

Project and Construction Management

- tender documentation
- contract management
- site supervision
- general project management

Electrical Network Protection

- equipment time co-ordination
- system fault level studies
- feeder & transformer protection

Building Services

- building reticulation
- efficient energy management

4. PROFESSIONAL REGISTRATION

Engineering Council of SA (ECSA)

SA Institute for Electrical Engineers (SAIEE)

SA Council for Construction and Project Management Professions (SACPCMP)



5. RESOURCES

The project team consists of:

- Electrical Engineer & Director

S.A.M. Smit
ECSA: # 990317
SAIEE: # 9767

Design, Contract Documentation, General Project Management, Site Supervision,
Client Liaison

- Electrical Engineer & Director

Conrad Buitendag
ECSA: # 970539
SACPCMP: # D/228/2004

Eskom Supply Networks, Building Services and Project Management

- Electrical Engineer (Project Based)

Corrie Buitendag
ECSA: # 20120386

Specialist: Substations and Renewable Power Systems

- Electrical Technician

Henry van Eck
Specialist: Electrical Drawings, Site Supervision

- Administration

Marie-Louise Viljoen
Secretarial - Financial

- Administration

Katrien Bekker
Secretarial - Projects



6. SELECTED PROJECT EXPERIENCE

The following list represents some of our historical project involvement:

PROJECT DESCRIPTION	CLIENT	INVOLVEMENT
Galagher Estate Residential Apartments: Halfway House X24	Copper Eagle Developments	Planning, Design, Project Management
Menlopark Erf 859, 862: Residential Development	Earth Stone Development	Planning, Design, Project Management
Portion 12 of Wonderboom: High Density Residential	Dusty Moon Investments	Planning, Design, Project Management
Uganda Rural Electrification Programme Phase 3	Africon	Network Analysis
Cashan Ext 15 Residential Development – Rustenburg	Frans Kamffer	Planning, Design
Brits Ext 126 Residential Development	Frans Kamffer	Planning, Design
Madibeng Manor (Lethabile Extensions)	Madibeng Manor	Planning, Preliminary Design
Kudube Unit D Electrification – Temba	Lutetia Investments	Planning, Design, Project Management
Zwavelpoort Plot 99 Residential Development	Faan vd Walt	Planning, Design, Project Management
Windhoek Electrical Asset Valuation Update	Africon	Specialist Support



PROJECT DESCRIPTION	CLIENT	INVOLVEMENT
Melodie Ext 6	Nimmersat Property Trust	Planning, Design, Project Management
Randjespark Erf 405 & 409 Factories	Etienne Meintjies	Planning, Design, Project Management
Melodie X31 Development	Deon de Beer	Planning, Design, Project Management
Randjespark Erf 410 Factory	Chrish Chetty	Planning, Design, Project Management
Equestria Ext 173	Wedisa	Planning, Design, Project Management
Everglades Development: Hartbeespoort	Copper Eagle	Site Supervision
Halfway Gardens Ext 35 Development	Louis Swart	Planning, Prelim Design, Council Negotiations
Xanadu Doxa Deo School & Church Reticulation	Doxa Deo	Planning, Design, Project Management
Doxa Deo East Campus Extensions	Doxa Deo	Planning, Design, Project Management
Melodie Ext 36 Residential Development	Cinderford	Planning, Design, Project Management
Windhoek Masterplan Update	Africon	Master Planning
Brits Ext 72 Erven 3478&3479 – Residential Development	Beyers Familie Trust	Planning, Design, Project Management
Heidedal Shopping Centre – Bloemfontein 18,000 m ² GLA	Twin City	Planning, Design, Project Management
Bazaruto Island View Estate	Mozamprops	Planning, Preliminary Design

PROJECT DESCRIPTION	CLIENT	INVOLVEMENT
Eskom Bighorn Masterplan (11kV Networks)	Africon	Master Planning
Doxa Deo North Campus	Doxa Deo	Planning, Design, Project Management
Hazyview Blue Haze Mall Shoprite Extension	Twin City	Planning, Design, Project Management
Hatfield Apartment Blocks	Twin City	Conceptual Design, DFA Support & Council Liaison
Electrical Network Audits – Kroonstad, Ellisras	Aurecon	Audits for Network Valuation Purposes
Manketti Lodge Refurbishment	Exarro	Planning, Design & Project Management
Various Retail Outlet Shop Audits – Electrical	MTN via Pro-Arnan	Audits, reporting
Support for solar energy and battery back-up systems	Smart Power	Engineering Support
Mtuba Shopping Centre – St Lucia 16,000 m ² GLA	Benhaus	Planning, Design & Project Management
Boitekong Shopping Centre – Rustenburg 18,000 m ² GLA	Fontis	Planning, Design & Project Management
Elim Shopping centre – Louis Trichardt 18,000 m ² GLA	Twin City	Planning, Design & Project Management
Tonga Shopping Centre – Malelane 13,000 m ² GLA	Fontis	Planning, Design & Project Management
Eastern Cape Eskom Network Studies for PV Roll-Out Suitability	EDG	Masterplanning & Load Flow Studies



PROJECT DESCRIPTION	CLIENT	INVOLVEMENT
Mhluzi Shopping Centre – Middelburg 11,000 m ² GLA	Fontis	Planning, Design & Project Management
Paledi Mall Extensions – Polokwane 12,000 m ² GLA	Twin City	Planning, Design & Project Management
Blue Haze Mall Refurbishment – Hazyview	Twin City	Planning, Design & Project Management
Hazyview Junction Convenience Centre - 17,000 m ² GLA	Twin City	Planning, Design & Project Management
Carletonville Shopping Centre	Bentel / Fontis	Planning, Design & Project Management
Soshanguve Erf 1534 Residential Development	Delport & van den Berg	Planning, Design & Project Management
Villa Gaudi Apartment Blocks	ESS	Planning, Design & Project Management
44/11kV Substation – Old Largo	Canyon Coal	Planning, Design & Project Management
Villa Rey Apartment Blocks	Niyakha	Planning, Design & Project Management
Amandasig X58 Residential Development	Francois Dreyer	Planning, Design & Project Management