

# Final Basic Assessment Report for the Proposed Raslouw x 15 Sewer Pipeline



Reference No: Gaut: 002/13-14/E0287

May 2015



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**Application Form  
GDARD**

**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)**

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**Kindly note that:**

1. This application form is current as of 01 April 2014. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
  2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
  3. Incomplete applications may be returned to the applicant for revision.
  4. The use of the phrase "not applicable" in the form must be done with circumspection. Should it be done in respect of material information required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the Regulations.
  5. Three copies of this form must be handed in at the offices of the relevant competent authority as detailed below.
  6. No faxed or e-mailed applications shall be accepted. Only hand delivered or posted applications will be accepted
  7. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.
  8. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.
- 

**For official use only**

Application Number:  
NEAS Reference number:  
Date Received:


## 1. DEPARTMENTAL DETAILS

### Postal Address

Gauteng Department of Agriculture and Rural Development  
Attention: Deputy Director: Strategic Administrative Unit of the Sustainable Utilization of the Environment (SUE) Branch  
P. O. Box 8769  
Johannesburg  
2000

### Physical Address

Administrative Unit of the Sustainable Utilisation of the Environment (SUE) Branch  
Ground floor, Diamond Building, 11 Diagonal Street  
Johannesburg

Queries should be directed to the Strategic Administrative Unit at:  
Administrative Unit telephone number (011) 240 3051/3052  
Administrative Unit fax number (011) 240 3055  
Departmental central telephone number (011) 240 2500

View the Department's website at <http://www.gdard.gov.za> for the latest version of the documents

## Application for Environmental Authorisation in terms of NEMA

Proof of payment must accompany this application. The application will not be processed without proof of payment unless one of the exclusions provided for in the fee Regulations is applicable **AND** such information in the exclusion section of this application form has been confirmed by this Department.

## 2. FEES

Gauteng Department of Agriculture and Rural Development' details for the payment of application fees

### Payment Enquiries:

Contact person: Boniswa Belot  
Tel: (011) 240 3377/3051  
Email: [Boniswa.Belot@gauteng.gov.za](mailto:Boniswa.Belot@gauteng.gov.za)

### Department Banking details:

Bank Name: FNB Bank  
Account Name: GPG Agriculture and Rural Development PMG  
Account Number: 62298144058  
Branch Name and Number: Global Transactional Services Johannesburg - 255005

Reference number: EIA - Date (Y - M - D) of payment e.g. EIA20140401 (please quote this reference number when making payment)

Application form to be submitted with proof of payment attached- Annexure 1

### Tax exemption status:

Status: Tax Exempted

## EXCLUSIONS

An applicant is excluded from paying fees if:

- The activity is a community based project funded by a government grant; or
- The applicant is an organ of state.

Applicants are required to tick the appropriate box below to indicate that either proof of payment is attached or that, in the applicant's view, exclusion applies. Proof and a motivation for exclusions must be attached to this application form as **Annexure 2**.

Proof attached

Exclusion applies

**The initial application form was submitted to your Department in January 2014 (prior to the application fees were enforced in April 2014) but some amendments were made to the properly description and therefore the amended application form is submitted with the final Basic Assessment Report.**

TYPE OF EXCLUSION	Tick where applicable. Proper motivation must be attached to the application
The activity is a community based project funded by a government grant	
The applicant is an organ of state	

## FEE AMOUNT

Application	Fee
Applications for an environmental authorisation for which basic assessment is required in terms of the Environmental Impact Assessment Regulations	R2 000
Application for an environmental authorisation, for which S&EIR is required in terms of the Environmental Impact Assessment Regulations	R10 000
Applications dealt with in terms of section 24L of the Act (where an environmental authorisation is required in terms of NEMA and a waste management license is required in terms of NEMWA and the same competent authority is dealing with both these applications)	100% of the most expensive application, namely, R10 000 (Ten Thousand Rand) if S&EIR is triggered and R2 000 (Two Thousand Rand) if the basic assessment is triggered; (b) 50% of the other application, namely, R5 000-00 (Five Thousand Rand) if the S&EIR is triggered or R1 000 (One Thousand Rand) if the basic assessment is triggered.



### 3. PROJECT TITLE

Raslouw x 15 (external sewer line)

### 4. PROPERTY DESCRIPTION

The following farms/ properties will be affected:

- Portion 1, Portion 2 and the Remainder of Holding 1 of Deltoidia Agricultural Holdings;
- Portion 1 and the Remainder of Holding 4 of Deltoidia Agricultural Holdings;
- Portion 2 of Holding 122 of Raslouw Agricultural Holdings;
- R55 – K71;
- Portion 588, 446, 606, 607, 608, 412, 164, 165, 166, 124 and Remainder of 163 of the Farm Zwartkop 356 JR.

### 5. APPLICANT INFORMATION

Project applicant:	Purple Roof Developers (Pty) Ltd		
Trading name (if any):	Purple Roof Developers (Pty) Ltd		
Responsible position, e.g. Director, CEO, etc.:	Director		
Contact person:	Peet Joubert		
Physical address:	Shop 16, Square@midstream, Brakfontein road, Midstream, 1692		
Postal address:	Postnet Suite 514, Private Bag x 1007, Lyttelton		
Postal code:	0140	Cell:	082 934 2294
Telephone:	-	Fax:	012 687 1483
E-mail:	peet@midfix.co.za		

Local municipality	City of Tshwane Metropolitan Municipality Open Space Management Section		
Contact person:	Rudzani Mukheli		
Postal address:	P O Box 1454, Pretoria		
Postal code:	0001	Cell:	-
Telephone:	012 358 8731	Fax:	012 358 8934
E-mail:	rudzanim@tshwane.gov.za		

Where there is more than one local authority involved, please attach a list of those authorities with their contact details as Annexure 3.

Land owner	See Annexure 4 attached		
Contact person:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			

In instances where there is more than one landowner, please attach a list of those landowners with their contact details as **Annexure 4**. If the applicant is not the owner or person in control of the land, proof of notice to the landowner or person in control of the land on which the activity is to be undertaken must be submitted as **Annexure 5**.

## 6. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Bokamoso Landscape Architects and Environmental Consultants CC		
Professional affiliation/registration:	PGCE (Education – Cum Laude) BA Environmental Management		
Contact person (EAP):	Ané Agenbacht		
Company:	Bokamoso Landscape Architects and Environmental Consultants CC		
Physical address:	36 Lebombo Street; Ashlea Gardens; Maroelana; Pretoria East.		
Postal address:	P.O. Box 11375, Maroelana		
Postal code:	0161	Cell:	083 533 0420
Telephone:	(012) 346 3810	Fax:	086 570 5659
E-mail:	lizelleg@mweb.co.za		

## 7. ACTIVITY(S) APPLIED FOR

An application may be made for more than one listed or specified activity that, together, make up one development proposal. All the listed activities that make up this application must be listed.

Indicate the number of the relevant Government Notice:	Activity No (s) (relevant notice): e.g. Listing notices 1, 2 or 3	Describe each listed activity as per the wording in the listing notices:
Listing Notice 1, R544, 18 June 2010	Activity 9	The construction of facilities or infrastructure exceeding 1000 meters in length for the bulk transportation of water, sewage or storm water – (i) With an internal diameter of 0,36 meters or more; or (ii) With a peak throughput of 120 liters per second or more;  excluding where: a. Such facilities or infrastructure are for bulk transportation of water, sewage or storm water drainage inside a road reserve; or  Where such construction will occur within urban areas but further than 32 meters from a watercourse, measured from the edge of the watercourse.
Listing Notice 1, R544, 18 June 2010	Activity 11	The construction of:  (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;

		<p>(x) Buildings exceeding 50 square metres in size; or  (xi) Infrastructure or structures covering 50 square metres or more</p> <p>Where such construction occurs within a watercourse 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>
Listing Notice 1, R544, 18 June 2010	Activity 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> <p>(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 highwater mark of the sea or an estuary, whichever distance is the greater-</p> <p>But excluding where such infilling, depositing, dredging, excavation, removal or moving:</p> <p>(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</p>
Listing Notice 3, R546, 18 June 2010	Activity 16	<p>The construction of:</p> <p>i. Jetties exceeding 10 square meters in size;  ii. Slipways exceeding 10 square meters in size;  iii. Building with a footprint exceeding 10 square meters in size; or  iv. Infrastructure covering 10 square meters or more</p> <p>Where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</p>
		<p>In Gauteng:</p> <p>i. A protected area identified in terms of NEMPAA, excluding conservancies;  ii. National Protected Area Expansion Strategy Focus areas;  iii. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;  iv. Sites or areas identified in terms of an International Convention;  v. Sites identified as irreplaceable or important in the Gauteng Conservation Plan;  vi. Any declared protected area</p>

			<p>including Municipal or Provincial nature Reserves as contemplated by the Environment Conservation Act, 1989 (Act No. 73 of 1989) and the Nature Conservation Ordinance (Ordinance 12 of 1983);</p> <p>vii. Areas zoned for a conservation purpose.</p>
<p>Listing Notice 3, R546, 18 June 2010</p>	<p>Activity 24</p>	<p>The expansion of:</p> <p>a) Jetties where the jetty will be expanded by 10 square meters in size or more;</p> <p>b) Slipways where the slipway will be expanded by 10 square meters or more;</p> <p>c) Buildings where the buildings will be expanded by 10 square meters or more in size; or</p> <p>d) Infrastructure where the infrastructure will be expanded by 10 square meters or more</p> <p>Where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</p>	<p>In Gauteng:</p> <p>i. A protected area identified in terms of NEMPAA, excluding conservancies;</p> <p>ii. National Protected Area Expansion Strategy Focus areas;</p> <p>iii. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;</p> <p>iv. Sites or areas identified in terms of an International Convention;</p> <p>v. Sites identified as irreplaceable or important in the Gauteng Conservation Plan;</p> <p>vi. Any declared protected area including Municipal or Provincial nature Reserves as contemplated by the Environment Conservation Act, 1989 (Act No. 73 of 1989) and the Nature Conservation</p>

			Ordinance (Ordinance 12 of 1983); vii. Areas zoned for a conservation purpose.
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Please note that any authorisation that may result from this application will only cover activities applied for.

## 8. SECTOR BASED PROJECT DESCRIPTION

Please indicate which sector the project falls under by crossing out the relevant block in the table below:

Green economy + "Green" and energy-saving industries		Greenfield transformation to urban or industrial form	
Infrastructure – electricity (generation, transmission & distribution)		Biodiversity or sensitive area related activities	
Biofuels		Potential of metal fabrication capital & transport equipment – arising from large public investments	
Basic services (local government) – electricity and electrification		Boat building	
Basic services (local government) – area lighting		Manufacturing – automotive products and components, and medium and heavy commercial vehicles	
Infrastructure – transport (roads, land strips)		Manufacturing – plastics, pharmaceuticals and chemicals	
Basic services (local government access roads)		Manufacturing – clothing textiles, footwear and leather	
Basic services (local government) – public transport		Forestry, paper, pulp and furniture	
Infrastructure – water (bulk and reticulation)		Business process servicing	
Basic services (local government) – sanitation		Basic services (local government) – education	
Basic services (local government) – waste management		Basic services (local government) – health	
Agricultural value chain + agro-processing (linked to food security and food pricing imperatives)		Basic services (local government) – housing	
Infrastructure – information and communication technology		Basic services (local government) security of tenure	
Tourism + strengthening linkages between cultural industries and tourism		Other	
Basic services (local government) – public open spaces and recreational facilities		<b>Infrastructure – Sewer pipeline</b>	<b>X</b>

## 9. SOCIO-ECONOMIC VALUES

Provide details on the anticipated socio-economic values associated with the proposed project.

Anticipated CAPEX of the project on completion	R6 million
What is the expected annual income to be generated by or as a result of the project?	Not applicable- no yearly income from Bulk Services
New skilled employment opportunities created in the development phase of the project	5
New skilled employment opportunities created in the construction phase of the project	5
New un-skilled employment opportunities created in the development phase of the project	45
New un-skilled employment opportunities created in the construction phase of the project	45
What is the expected value of the employment opportunities during the development and construction phase?	R350 000
What percentage of this new unskilled and skilled value that will accrue to previously disadvantaged individuals during both development and construction phase of the project?	60%
What percentage of this value that will accrue to previously disadvantaged individuals?	60%
The expected current value of the employment opportunities during the first 10 years	R500 000
What percentage of this value that will accrue to previously disadvantaged individuals?	60%

## 10. SITE DESCRIPTION

Farm name and number:

Please refer to Annexure 6

Portion / holding /erf number/

(Where multiple properties (including alternatives) are involved, please attach a list of the properties as Annexure 6).

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in decimal degrees. The degrees should have at least six decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

Alternative:

Latitude (S):

Longitude (E):

°	°
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In the case of linear activities:

Latitude (S):

Longitude (E):

- Starting point of the activity
- Middle point of the activity
- End point of the activity

25°50'53.21"S	28°06'43.99"E
25°50'25.41"S	28°06'40.97"E
25°49'55.13"S	28°06'29.56"E

For linear activities, coordinates at each turning point must also be indicated (attach a list of turning points as **Annexure 7**)

SG 21 Digit Code(s) of the properties

(If there are more than 4, please attach a list with the rest of the codes as **Annexure 8**)

Please indicate the proportion of the property/ies to be developed (ecological footprint) as a percentage for each property

P	L	E	A	S	E	R	E	F	E	R	T	O								
			A	N	N	E	X	U	R	E	8									
1	2		3			4					5									

Should any activities in GN R.546 be applied for, please provide a map indicating the triggering area (e.g. Critical Biodiversity Area, Conservancy Area, etc) overlaid by the study area in **Annexure 9**.

## 11. LAND USE ZONING

The zoning certificate of the property where the activity is going to be undertaken must be attached as **Annexure 10**

## 12. PROJECT SCHEDULE

A project schedule, indicating the different phases and timelines of the project, must be attached as **Annexure 11**.

## 13. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
<b>SEMA's</b>				
National Environmental Management: Air Quality Act		X		
National Environmental Management: Biodiversity Act		X		
National Environmental Management: Integrated Coastal Management Act		X		
National Environmental Management: Protected Areas Act		X		
National Environmental Management: Waste Act		X		
<b>National legislation</b>				
Mineral Petroleum Development Resources Act		X		
National Water Act	X			X
National Heritage Resources Act		X		
Others: Please specify				

Please provide proof of authorisations of submission of applications (if there are any) as **Annexure 12**.

#### 14. LOCALITY MAP

A clear and legible locality map must be submitted with the application as **Annexure 13**

#### 15. LIST OF ANNEXURES

		YES	N/A
Annexure 1	Proof of payment of a fee for this application		X
Annexure 2	Proof and a motivation for exclusions from paying a fee		X
Annexure 3	List of Local Municipalities (with contact details)		X
Annexure 4	List of land owners (with contact details) and proof of notification of land owners in the event there is more than one land owner.	X	
Annexure 5	Proof of notice to the landowner or person in control of the land on which the activity is to be undertaken	X	
Annexure 6	List of properties in the case of multiple properties involved	X	
Annexure 7	List of co-ordinates at turning points for linear activities		X
Annexure 8	SGIDs		X
Annexure 9	Map indicating triggered areas for GN R.546	X	
Annexure 10	Land use zoning or zoning certificate of the property		X
Annexure 11	Project schedule	X	
Annexure 12	Proof by way of copies of Environmental Authorisations obtained for the same property or submission of such applications		X
Annexure 13	Locality Map and Aerial Map	X	
Addendum 1	Declaration by the applicant	X	
Addendum 2	Declaration by the environmental assessment practitioner	X	



**ADDENDUM 1**

**16. DECLARATIONS**

**DECLARATION OF THE APPLICANT**

I PEET JOUBERT, declare under oath that I

- am, or represent, the applicant in this application;
- have appointed / will appoint (delete that which is not applicable) an Environmental Assessment Practitioner (EAP) to act as the independent EAP for this application / will obtain exemption from the requirement to obtain an environmental assessment practitioner;
- will provide the EAP and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Regulations, including but not limited to –
  - costs incurred in connection with the appointment of the EAP or any person contracted by the EAP;
  - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
  - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
  - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
  - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the EAP is competent to comply with the requirements of the Regulations and will take reasonable steps to verify that the EAP
  - o know the Act and the regulations, and how they apply to the proposed development
  - o know any applicable guidelines
  - o perform the work objectively, even if the findings do not favour the applicant
  - o disclose all information which is important to the application and the proposed development
  - o have expertise in conducting environmental impact assessments
  - o complies with the Regulations
- will inform all registered I&APs of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or EAP is responsible for in terms of these Regulations;
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;
- 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 71 and is punishable in terms of section 24F of the Act.

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

**Purple Roof Developers (Pty) Ltd**

Name of company (if applicable):

25/03/2015

Date:


  
Signature of the Commissioner of Oaths:

25/03/2015

Date:

Designation: GESERTIFISEERDE WARE AFSKRIF  
VAN DIE OORSPRONKLIKE  
CERTIFIED A TRUE COPY OF THE ORIGINAL

Commissioner of Oaths Official stamp (below)

  
SWART  
Commissioner of Oaths / Kommissaris van Ede  
Professionele Rekenmeester (SAIPA), Lid no : 8140  
Chris Hougaardstr 262, Wierdapark, 0149

## ADDENDUM 2

### DECLARATION OF THE EAP

I, Ané Agenbacht, declare that -

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



Signature of the Environmental Assessment Practitioner:

**Bokamoso Landscape Architects and Environmental Consultants CC**

Name of company:

25 Maart 2015

Date:



Signature of the Commissioner of Oaths:


25 Maart 2015

Date:

Designation:

Commissioner of Oaths Official stamp (below)

GESERT FISEER IN WARE AFSKRIF  
VAN DIE OORSPRONKLIKE  
CERTIFIED A TRUE COPY OF THE ORIGINAL

  
CHRIS HOUGAARD

Commissioner of Oaths: Kommissaris van Ede  
Professionele Rekenmeester (SAIPA), Lid no: 8140  
Chris Hougaardstr 262, Wierdapark, 0149

## **LIST OF ANNEXURES**

**ANNEXURE 1: Proof of payment of a fee for this application**

**N/A**

**ANNEXURE 2: Proof and a motivation for exclusions from paying a fee**

The initial application form was submitted to your Department in January 2014 (prior to the application fees were enforced in April 2014) but some amendments were made to the property description and therefore the amended application form is submitted with the final Basic Assessment Report.

**ANNEXURE 3: List of Local Municipalities (with contact details)**

N/A

**ANNEXURE 4: List of land owners (with contact details) and proof of notification of land owners in the event there is more than one land owner.**

**Portion 1 of Holding 1 of Deltoidia Agricultural Holdings**  
Raubenheimer  
PO BOX 297, Wierdapark, 0149

**Portion 2 of Holding 1 of Deltoidia Agricultural Holdings**  
VDH Ontwikkeling  
PO BOX 297, Wierdapark, 0149

**Remainder of Holding 1 of Deltoidia Agricultural Holdings**  
Coetzee, M  
PO BOX 913026, Thaba Tshwane, 0143

**Portion 1 of Holding 4 of Deltoidia Agricultural Holdings**  
Hattingh, J  
PO BOX 155, Wierdapark, 0149

**Remainder of Holding 4 of Deltoidia Agricultural Holdings**  
Hattingh, J  
PO BOX 155, Wierdapark, 0149

**Portion 2 of Holding 122 Raslouw Agricultural Holdings**  
Purple Roof Developers (Pty) Ltd  
Postnet Suite 514, Private Bag x1007, Lyttleton, 0140

**Portion 588 of the farm Zwartkops 356 JR**  
Mavhunga Tshitereke  
P O Box 52942, Wierdapark, 0149

**Portion 446 of the farm Zwartkops 356 JR**  
Nieuwmeijer Familie Trust  
PO BOX 810, Wierdapark, 0149

**Portion 606 of the Farm Zwartkop 356 JR**  
Nomusa Twala  
PO Box 89206, Heuweloord, Heuweloord Ext 3, 0173

**Portion 607 of the Farm Zwartkop 356 JR**  
Makschinski, Amelia  
PO BOX 56216, Wierdapark, 0149

**Portion 608 of the farm Zwartkops 356 JR**  
Manyathela, Makoro Frans  
332 Section B, Mamelodi West, 0122

**Portion 412 of the Farm Zwartkop 356 JR**  
Anna Christina Janse Van Rensburg  
P O Box 13646, Clubview, 0014

**Remainder of Portion 163 of the farm Zwartkop 356 JR**  
Underwear City  
P O Box 13718, Laudium 0037

**Portion 164 of the Farm Zwartkop 356 JR**  
Amka Products  
P O Box 3504, Pretoria, 0001

**Portion 165 of the Farm Zwartkop 356 JR**  
Amka Products  
P O Box 3504, Pretoria, 0001

**Portion 166 of the Farm Zwartkop 356 JR**  
Atlantis Logistics (Pty) Ltd  
PO BOX 3504, Pretoria, 0001

**Portion 124 of the Farm Zwartkop 356 JR**  
Signature Property 4  
PO Box 2194, Zwavelpoort, 0036



**ANNEXURE 5: Proof of notice to the landowner or person in control of the land on which the activity is to be undertaken**

**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: Bobamase, P.O. Box 11375,  
 Naam en adres van afsender: Marcelona 0161  
Roslouw XIS -

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-klientafskrif
1	AMKA Products P.O. Box 3504, Pretoria, 0001					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 437 ZA CUSTOMER COPY 301028R
2	Raubenheimer P.O. Box 297, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 454 ZA CUSTOMER COPY 301028R
3	VDH Ontwikkeling P.O. Box 297, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 468 ZA CUSTOMER COPY 301028R
4	Coetzee, M P.O. Box 913026, Thabazimphani, 0143					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 445 ZA CUSTOMER COPY 301028R
5	Hating, J P.O. Box 155, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 352 ZA CUSTOMER COPY 301028R
6	Purple Roof Developers (Pty) Ltd Postnet Suite 514, Private Bag x1007, Lyttleton, 0140					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 397 ZA CUSTOMER COPY 301028R
7	Makhunga Tshitereke P.O. Box 52942, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 406 ZA CUSTOMER COPY 301028R
8	Nieuwmeijer Familie Trust P.O. Box 810, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 370 ZA CUSTOMER COPY 301028R
9	Makschinski, Amelid P.O. Box 56216, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 383 ZA CUSTOMER COPY 301028R
10	Manya theld, Makoro Fians 332 Section B, Mamelodi west, 0122					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 366 ZA CUSTOMER COPY 301028R
		Total Totaal	R	R	R	R

Number of letters posted  
 Getal briewe gepos

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.

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: Bobamase, PO Box 11375,  
 Naam en adres van afsender: Marcelona 0161  
RASBUNW X15

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	Atlantis Logistics (Pty) Ltd P.O. Box 3504, Pretoria, 0001					<small>REGISTERED LETTER                      (with a domestic insurance option)                      ShortCall 0800 111 502 www.safepost.co.za</small> RD 799 625 471 ZA CUSTOMER COPY 301028R
2						
3						
4						
5						
6						
7						
8						
9						
10						

Number of letters posted  
 Getal briewe gepos

Total Totaal	R	R	R	R
-----------------	---	---	---	---

Signature of client  
 Handtekening van kliënt.....

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: Bobamase PO Box 11375,  
 Naam en adres van afsender: Marcelona 0161,  
Randburg x15

Enquiries/Navae  
 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-kliefatfskrif	
1	Gouwra's P.O. Box 52276, Wierda Park, 0149					<small>REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> RD 885 058 703 ZA CUSTOMER COPY 301028R	
2	Signature Property 4 P.O. Box 2194, Zwavelpoort, 0036					<small>REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> RD 885 058 751 ZA CUSTOMER COPY 301028R	
3	Underwear City P.O. Box 13718, Laudium, 0037					<small>REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> RD 885 058 779 ZA CUSTOMER COPY 301028R	
4	Pyramid Investments (eight) P.O. Box 14218, Laudium, 0037					<small>REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> RD 885 058 796 ZA CUSTOMER COPY 301028R	
5	Francois Le Roux Fourie P.O. Box 21266, Valhalla, 0157					<small>REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> RD 885 058 805 ZA CUSTOMER COPY 301028R	
6	Anna Christina Janse van Rensburg P.O. Box 13646, Clubview, 0014					<small>REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> RD 885 058 782 ZA CUSTOMER COPY 301028R	
7	Nomusa Twala P.O. Box 89206, Heunveloord, Ext.3, 0173					<small>REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za</small> RD 885 058 765 ZA CUSTOMER COPY 301028R	
8							
9							
10							
		<b>Total</b>	<b>Totaal</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>

Number of letters posted: 7  
 Getal briewe gepos: .....

Signature of client: [Signature]  
 Handtekening van klient: .....

Signature of accepting officer: [Signature]  
 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.



**ANNEXURE 6: List of properties in the case of multiple properties involved**

Portion 1 of Holding 1 of Deltoidia Agricultural Holdings

Portion 2 of Holding 1 of Deltoidia Agricultural Holdings

Remainder of Holding 1 of Deltoidia Agricultural Holdings

Portion 1 of Holding 4 of Deltoidia Agricultural Holdings

Remainder of Holding 4 of Deltoidia Agricultural Holdings

Portion 2 of Holding 122 Raslouw Agricultural Holdings

Portion 588 of the farm Zwartkops 356 JR

Portion 446 of the farm Zwartkops 356 JR

Portion 606 of the Farm Zwartkop 356 JR

Portion 607 of the Farm Zwartkop 356 JR

Portion 608 of the farm Zwartkops 356 JR

Portion 412 of the Farm Zwartkop 356 JR

Remainder of Portion 163 of the farm Zwartkop 356 JR

Portion 164 of the Farm Zwartkop 356 JR

Portion 165 of the Farm Zwartkop 356 JR

Portion 166 of the Farm Zwartkop 356 JR

Portion 124 of the Farm Zwartkop 356 JR

**ANNEXURE 7: List of co-ordinates at turning points for linear activities**

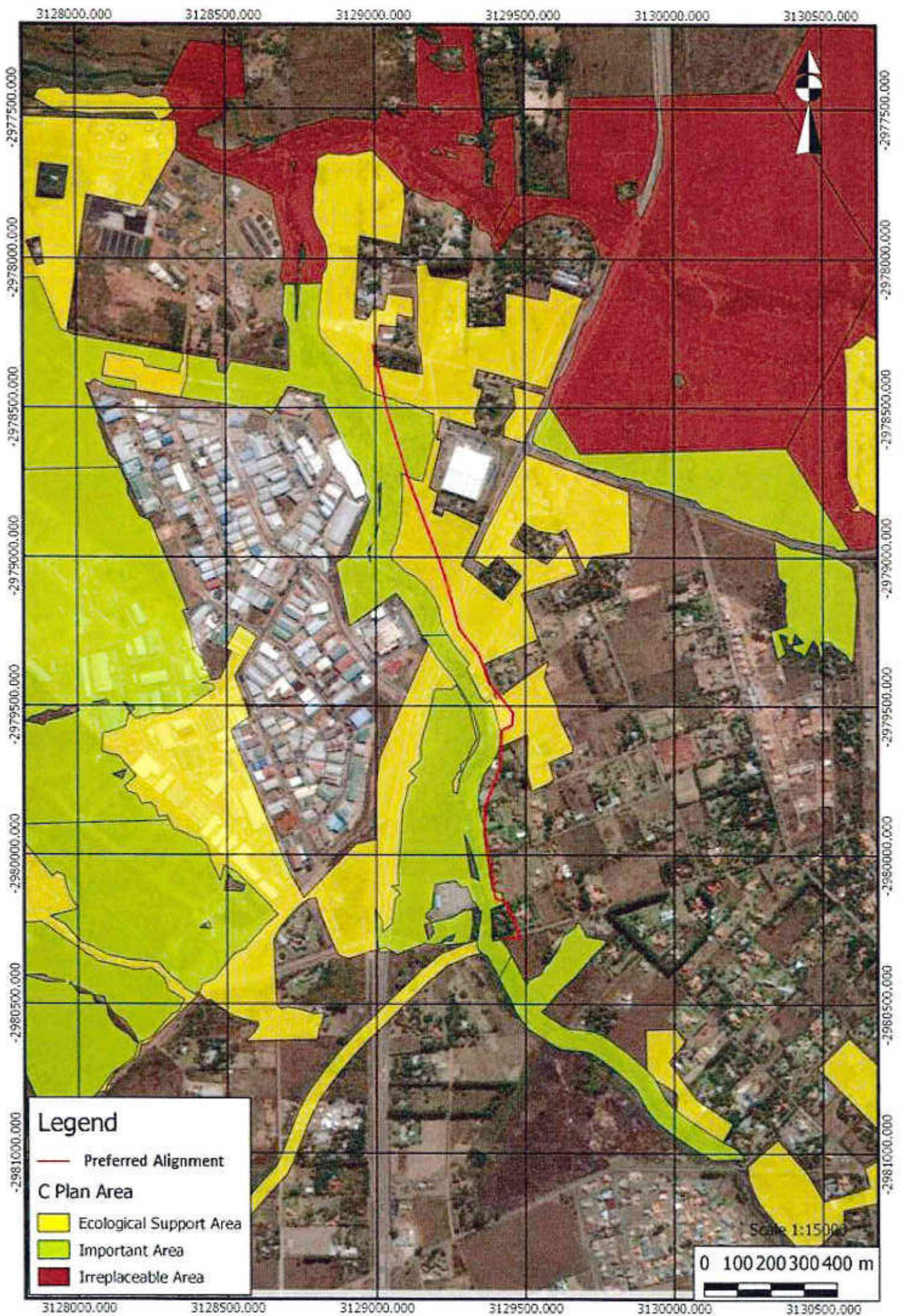
N/A

**ANNEXURE 8: SGIDs**

**N/A**

**ANNEXURE 9: Map indicating triggered areas for GN R.546**





**ANNEXURE 10: Land use zoning or zoning certificate of the property**

N/A

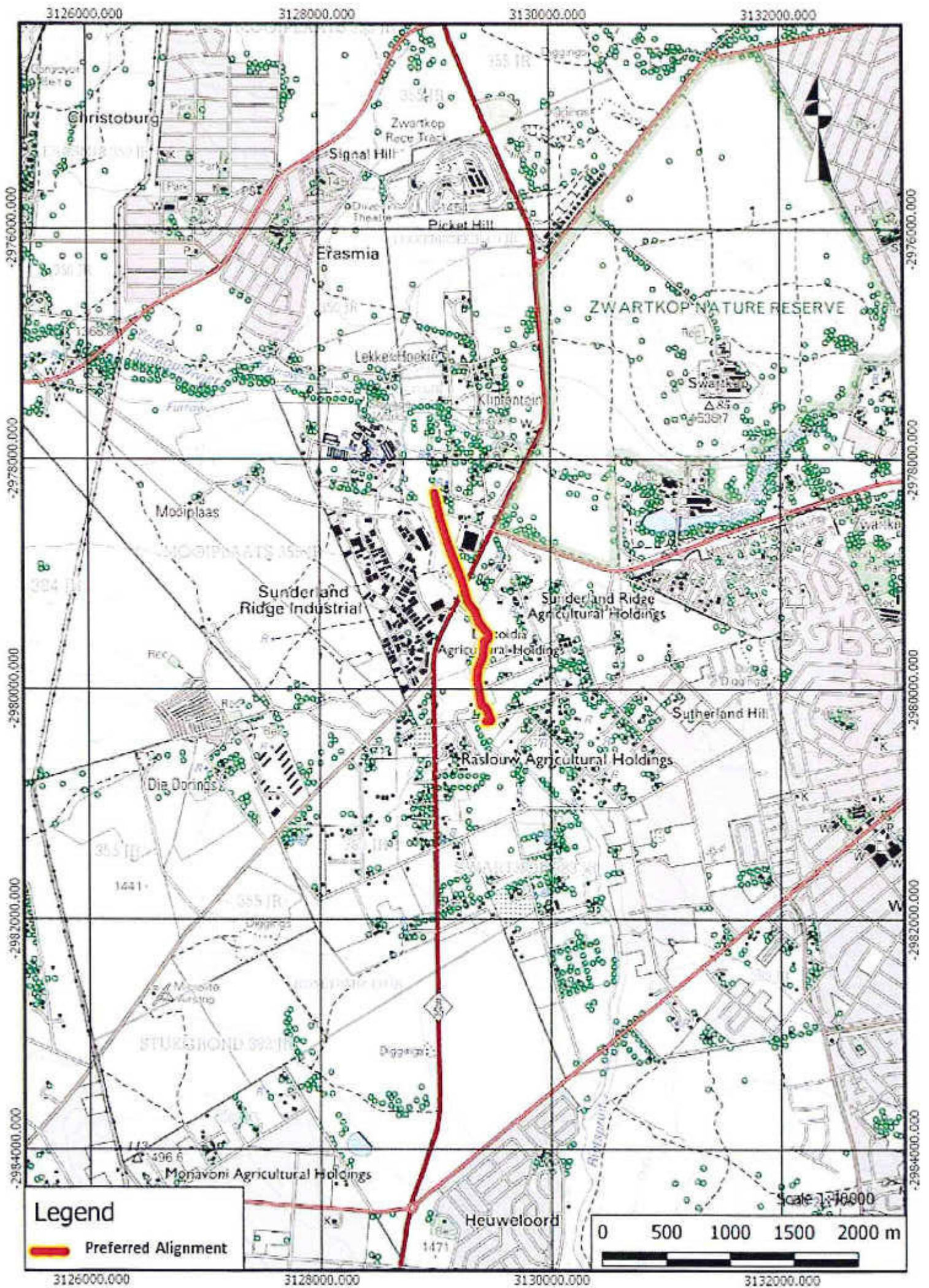
**ANNEXURE 11: Project schedule**

Not applicable as this is an amendment application and the project is already at the Final Basic Assessment Report submission stage.


**ANNEXURE 12: Proof by way of copies of Environmental Authorisations obtained for the same property or submission of such applications**

**N/A**

**ANNEXURE 13: Locality map**



**Legend**

 Preferred Alignment

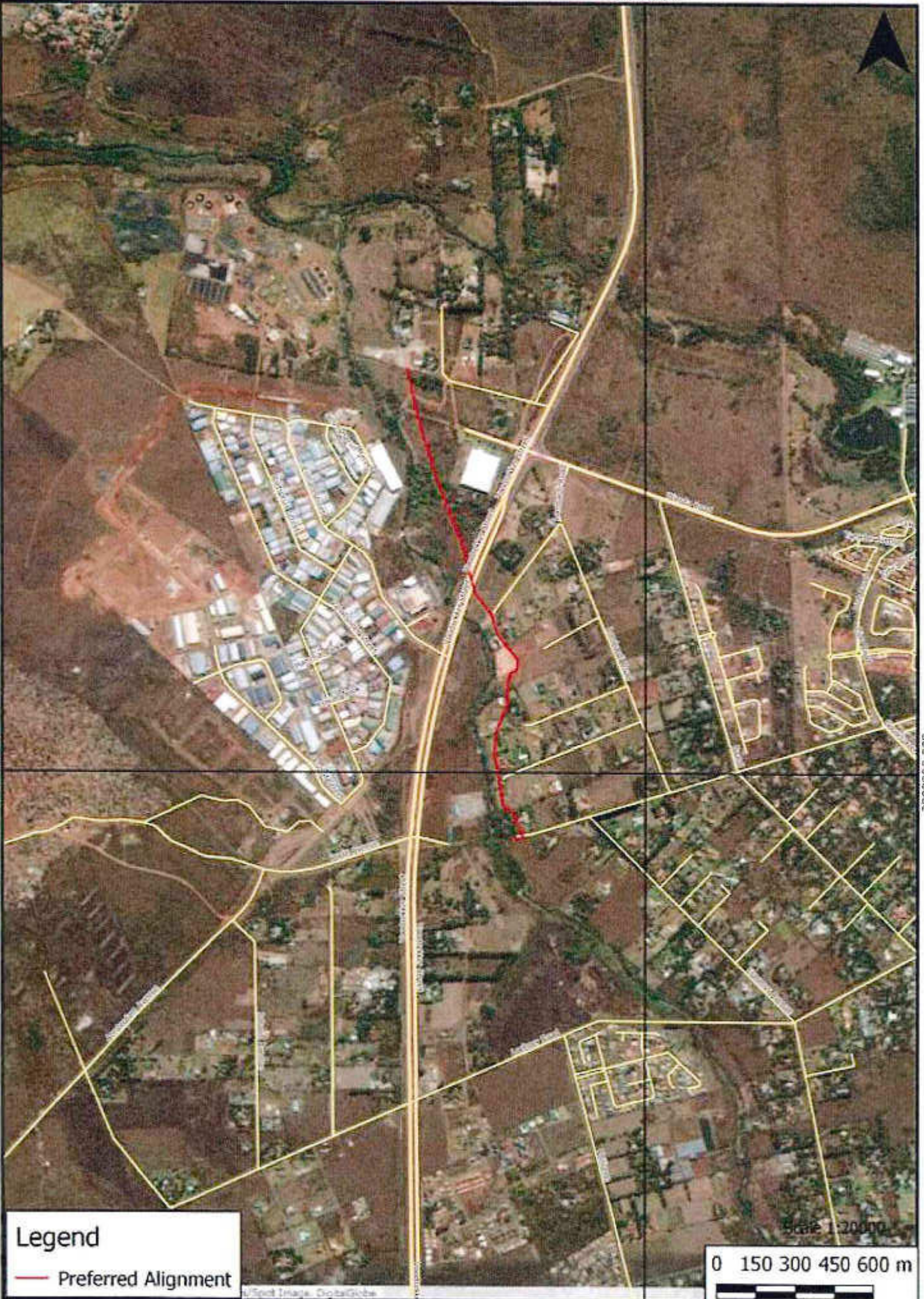


Scale 1:10000

**ANNEXURE 14:**

**Aerial map**

3130000,000



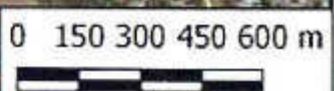
-2980000,000

-2980000,000

**Legend**

— Preferred Alignment

Scale 1:20000



3130000,000



# **Acknowledgement Letters From GDARD**



## **agriculture and rural development**

Department: Agriculture and Rural Development  
**GAUTENG PROVINCE**

Diamond Building, 11 Diagonal Street, Johannesburg  
P O Box 8769, Johannesburg, 2000

Telephone: (011) 240 2500

Fax: (011) 240 2700

Website: <http://www.gdard.gpg.gov.za>

<b>Reference:</b>	Gaut: 002/13-14/E0287
<b>Enquiries:</b>	Justine Chan
<b>Telephone:</b>	(011) 240 3048
<b>Email:</b>	<a href="mailto:Justine.Chan@gauteng.gov.za">Justine.Chan@gauteng.gov.za</a>

### **Bokamoso Landscape Architects and Environmental Consultants**

**Email/Fax: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)**

Dear Sir / Madam

### **Application for Environmental Authorisation: Raslouw extension 15 (external sewer line)**

The Department acknowledges having received the application form for environmental authorisation of the above-mentioned project on 17/01/2014, but final amendments were received on 13/02/2014.

The application has been assigned the reference number Gaut: 002/13-14/E0287. Kindly quote this reference number in any future correspondence in respect of the application.

Please circulate the draft report to any state department that administers a law relating to a matter affecting the environment to comment.

You are required to submit two (2) copies (full colour CDs-PDF) of the Draft Basic Assessment Report as well as proof of submission to state departments referred to above.

In order to determine whether a biodiversity assessment is required and, if so, which specialist studies are required, please send a shapefile (WGS84 datum; geographic co-ordinate system) of the application site to our biodiversity information service ([GDACE\\_BiodiversityInfo@gauteng.gov.za](mailto:GDACE_BiodiversityInfo@gauteng.gov.za)), the e-mail clearly indicating the project reference number. Where biodiversity assessment is required; please ensure that it is

conducted consistent with the *GDACE Requirements for Biodiversity Assessments*. A copy of this document can be obtained by e-mailing [GDACE\\_BiodiversityInfo@gauteng.gov.za](mailto:GDACE_BiodiversityInfo@gauteng.gov.za)

In terms of Regulation 67(1) (2) of the NEMA EIA Regulations 2010, this application will lapse should you fail to submit the requested information within 6 months of the date of signature of this letter, except in the case where the Department has received and accepted written explanation for failure to submit such information.

Please draw the applicant's attention to the fact that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours faithfully



Boniswa Belot

Deputy Director: Strategic Administration Support

Date: 21/02/2014

CC: Purple Roof Developers (Pty) Ltd

Att:

P Joubert

Email/Fax:

[pcet@midfix.co.za](mailto:pcet@midfix.co.za)



## agriculture and rural development

Department: Agriculture and Rural Development  
**GAUTENG PROVINCE**

Diamond Building, 11 Diagonal Street, Johannesburg  
P O Box 8769, Johannesburg, 2000

Telephone: (011) 240 2500

Fax: (011) 240 2700

Website: <http://www.gdard.gpg.gov.za>

Reference:	Gaut: 002/13-14/E0287
Enquiries:	Justine Chan
Telephone:	(011) 240 3048
Email:	<a href="mailto:Justine.Chan@gauteng.gov.za">Justine.Chan@gauteng.gov.za</a>

### **Bokamoso Landscape Architects and Environmental Consultants**

Email/Fax: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)

Dear Sir / Madam

### **Draft Basic Assessment Report: Raslouw extension 15 (external sewer line)**

The Department acknowledges having received the Draft Basic Assessment Report for environmental authorisation of the above-mentioned project on 11/09/2014.

You are required to submit five (5) copies (3 full colour hard copies and 2 CDs-PDF) of the Final Basic Assessment Report.

Please draw the applicant's attention to the fact that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours faithfully

Boniswa Belot

Deputy Director: Strategic Administration Support

Date: 25/09/2014

CC: Purple Roof Developers (Pty) Ltd

Att:

P Joubert

Email/Fax:

[peet@midfix.co.za](mailto:peet@midfix.co.za)



## agriculture and rural development

Department: Agriculture and Rural Development  
**GAUTENG PROVINCE**

11 Diagonal Street, Diamond Building, Newtown, Johannesburg  
P O Box 8769, Johannesburg, 2000

Telephone: (011) 240-2500

Fax: (011) 240-2700

Website: <http://www.gdard.gpg.gov.za>

Reference:	Gaut: 002/13-14/E0287
Enquiries:	Faith Mlambo
Telephone:	011 240-3053
Email:	<a href="mailto:faith.mlambo@gauteng.gov.za">faith.mlambo@gauteng.gov.za</a>

**Bokamoso Landscape Architects and Environmental Consultants**

Email/Fax: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)

Dear Sir/ Madam

**Request for extension of time to submit Draft Basic Assessment Report: Raslouw extension 15 (external sewer line)**

The Department acknowledges having received your request for extension of time to submit Draft BA for the abovementioned project on 04/07/2014.

Your request for extension of time to submit Draft BA has been granted. Thus, you have until 04/01/2015 to submit the Draft BA.

Please draw the applicant's attention to the fact that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours faithfully

Boniswa Belot  
Deputy Director: Strategic Administration Support

Date: 08/08/2014

CC: Purple Roof Developers (Pty) Ltd

Att: P Joubert  
Email/Fax: [peet@midfix.co.za](mailto:peet@midfix.co.za)

**Mary-Lee**

---

**From:** Bokamoso <lizelleg@mweb.co.za>  
**Sent:** 29 April 2015 03:33 PM  
**To:** user2@bokamoso.net  
**Cc:** user1@bokamoso.net  
**Subject:** FW: Raslouw x 15 - GAUT: 002/13-14/E0287

---

**From:** CHAN, JUSTINE (GDARD) [<mailto:Justine.Chan@gauteng.gov.za>]  
**Sent:** 29 April 2015 03:32 PM  
**To:** Bokamoso  
**Subject:** RE: Raslouw x 15 - GAUT: 002/13-14/E0287

Dear Mary-Lee

I have granted you an extension of time to submit the Final BAR until 25/05/2015.

Yours sincerely

Justine Chan  
SUE Branch Document Management



**GAUTENG PROVINCE**  
AGRICULTURE AND RURAL DEVELOPMENT  
REPUBLIC OF SOUTH AFRICA

---

website: <http://www.gdard.gpg.gov.za>

Ground floor, Diamond Building, 11 Diagonal Street, Johannesburg, 2000.

" Vibrant, equitable, sustainable rural communities, food security for all, protected and enhanced environmental assets and natural resources "

---

**From:** Bokamoso [<mailto:lizelleg@mweb.co.za>]  
**Sent:** 29 April 2015 10:05 AM  
**To:** CHAN, JUSTINE (GDARD)  
**Subject:** Raslouw x 15 - GAUT: 002/13-14/E0287  
**Importance:** High

Hi Justine,

The abovementioned project refers.

Our submission date for the Final Basic Assessment Report is tomorrow, 30 April 2015. We, however, are struggling with the printer and are unable to completely print the report. With the public holiday we will not be able to submit the report this week.

We kindly request that you be lenient towards us and allow us to hand in the report early next week.

Please confirm receipt of this email.

Kindest 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](mailto:lizelleg@mweb.co.za) | [www.bokamoso.biz](http://www.bokamoso.biz)  
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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[www.avast.com](http://www.avast.com)



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# **Basic Assessment**





## Gauteng Department of Agriculture and Rural Development (GDARD)

### **Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2010**

List of all organs of state and State Departments where the draft report has been submitted, their full contact details and contact person

---

**Kindly note that:**

1. This **Basic Assessment Report** is the standard report required by GDARD in terms of the EIA Regulations, 2010 and must be submitted together with the application form.
  2. This application form is current as of 2 August 2010. It is the responsibility of the EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
  3. **A draft Basic Assessment Report must be submitted to all State Departments administering a law relating to a matter likely to be affected by the activity to be undertaken; the submission of such a draft report to such State Departments must be done on the day of submission of the draft report to the competent authority, this Department. (Attach a signed proof of such submission). signed**
  4. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
  5. Selected boxes must be indicated by a cross and, when the form is completed electronically, must also be highlighted.
  6. An incomplete report may be returned to the applicant for revision.
  7. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
  8. Five (5) copies (3 hard copies and 2 CDs-PDF) of the final report and attachments must be handed in at offices of the relevant competent authority, as detailed below.
  9. No faxed or e-mailed reports will be accepted. Only hand delivered or posted applications will be accepted.
  10. Unless protected by law, and clearly indicated as such, all information filled in on this application will become public information on receipt by the competent authority. The applicant/EAP must provide any interested and affected party with the information contained in this application on request, during any stage of the application process.
- 

#### **DEPARTMENTAL DETAILS**

Gauteng Department of Agriculture and Rural Development  
Attention: Administrative Unit of the Sustainable Utilisation of the Environment (SUE) Branch  
P.O. Box 8769  
Johannesburg  
2000

Administrative Unit of the Sustainable Utilisation of the Environment (SUE) Branch  
18<sup>th</sup> floor Glen Cairn Building  
73 Market Street, Johannesburg

Admin Unit telephone number: (011) 355 1345  
Department central telephone number: (011) 355 1900

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BASIC ASSESSMENT REPORT [REGULATION 22(1)]

---

(For official use only)

<b>File Reference Number:</b>						
<b>Application Number:</b>						
<b>Date Received:</b>						

(i) Submission to State Department (Section 3 above)

(A) Has a draft report for this application been submitted to all State Department administering a law relating to a matter likely to be affected as a result of the activity? **YES**

(B) Is a list of State Departments referred to in section A above been attached to this report, **YES**

if no, state reasons for not attaching the list.

## SECTION A: ACTIVITY INFORMATION

### 1. ACTIVITY DESCRIPTION

Project title (must be the same name as per application form):

**Raslouw Extension 15 (external sewer line)**

Select the appropriate box

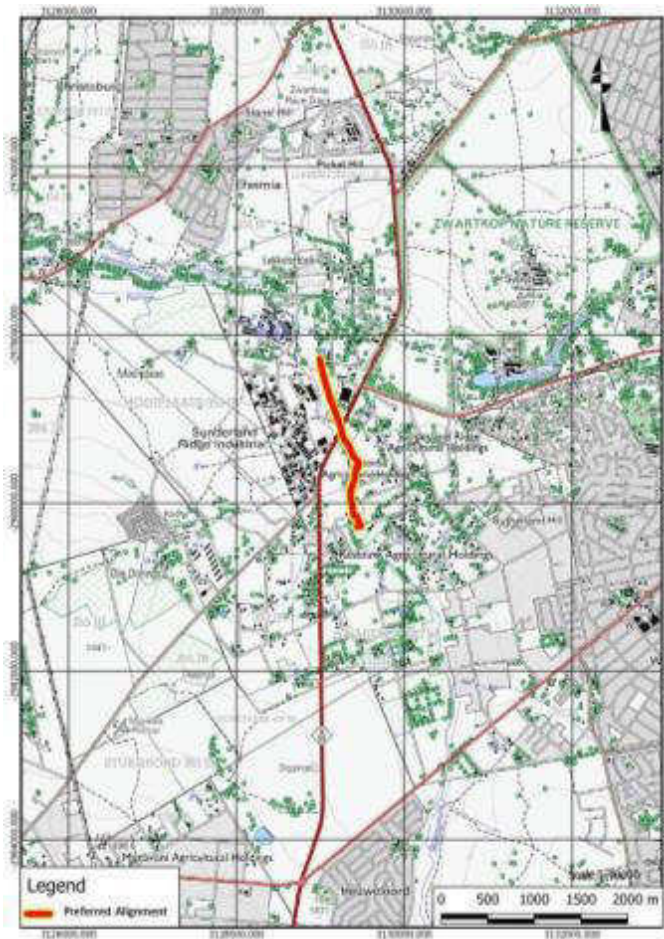
The application is for an upgrade of an existing development

The application is for a new development

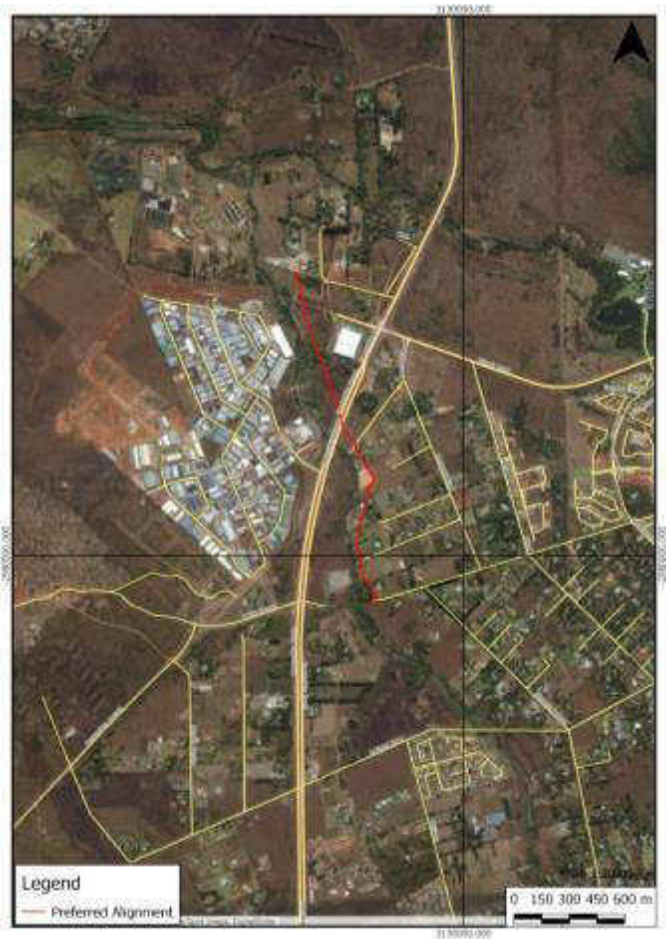
Other, specify

Describe the activity and associated infrastructure, which is being applied for, in detail

Installation of a new external sewer pipeline for Raslouw x 15.



**Figure 1: Locality Map**



**Figure 2: Aerial Map**

**Activities Applied for**

Indicate the number and date of the relevant Government Notice:	Activity No (s) (in terms of the relevant notice):	Describe each listed activity:
Listing Notice 1, R544, 18 June 2010	Activity 9	<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"> <li>(i) With an internal diameter of 0,36 meters or more; or</li> <li>(ii) With a peak throughput of 120 liters per second or more;</li> </ul> <p>excluding where:</p> <ul style="list-style-type: none"> <li>a. Such facilities or infrastructure are for bulk transportation of water, sewage or storm water drainage inside a road</li> </ul>

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

		<p align="center">reserve; or</p> <p>Where such construction will occur within urban areas but further than 32 meters from a watercourse, measured from the edge of the watercourse.</p>
<p><b>Reason for inclusion:</b> The proposed sewer pipeline will be longer than 1000 meters and will exceed the internal diameter and throughput thresholds. Therefore this activity is considered applicable and thus included for authorisation.</p>		
<p>Listing Notice 1, R544, 18 June 2010</p>	<p>Activity 11</p>	<p>The construction of:</p> <ul style="list-style-type: none"> <li>(i) Canals;</li> <li>(ii) Channels;</li> <li>(iii) Bridges;</li> <li>(iv) Dams</li> <li>(v) Weirs;</li> <li>(vi) Bulk storm water outlet structures;</li> <li>(vii) Marinas;</li> <li>(viii) Jetties exceeding 50 square metres in size;</li> <li>(ix) Slipways exceeding 50 square metres in size;</li> <li>(x) Buildings exceeding 50 square metres in size; or</li> <li>(xi) Infrastructure or structures covering 50 square metres or more</li> </ul> <p>Where such construction occurs within a watercourse 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><b>Reason for inclusion:</b> The proposed sewer pipeline will be constructed in certain sections within 32 meters of the watercourse. Therefore this activity is considered applicable and thus included for authorisation.</p>		
<p>Listing Notice 1, R544, 18 June 2010</p>	<p>Activity 18</p>	<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"> <li>(i) A watercourse;</li> <li>(ii) The sea</li> <li>(iii) The seashore;</li> <li>(iv) The littoral active zone, an estuary or a distance of 100 metres inland of the highwater mark of the sea or an</li> </ul>

		<p>estuary, whichever distance is the greater-</p> <p>But excluding where such infilling, depositing, dredging, excavation, removal or moving:</p> <p>(a) Is for maintenance purposes undertaken in accordance with a management plan agreed to by the relevant environmental authority; or</p> <p>(b) Occurs behind the development setback line</p>
<p><b>Reason for inclusion:</b></p> <p>The proposed sewer pipeline is situated close to a perennial river and some construction work might take place within close proximity of this watercourse. Therefore this activity is considered applicable and thus included for authorisation.</p>		
<p>Listing Notice 1, R544, 18 June 2010</p>	<p>Activity 37</p>	<p>The expansion of facilities or infrastructure for the bulk transportation of water, sewage or storm water where:</p> <p>(b) The facility or infrastructure is expanded by more than 1000 metres in length; or</p> <p>(c) Where the throughput capacity of the facility or infrastructure will be increased by 10% or more-</p> <p>excluding where such expansion:</p> <p>(i) Relates to transportation of water, sewage or storm water within a road reserve; or</p> <p>(ii) Where such expansion will occur within urban areas but further than 32 metres from a watercourse, measured from the edge of the watercourse.</p>
<p><b>Reason for exclusion:</b></p> <p>It now became clear that the sewer pipe line will not be an expansion and therefore this activity is no longer triggered. An amended application form was submitted to GDARD with this report.</p>		
<p>Listing Notice 1, R544, 18 June 2010</p>	<p>Activity 40</p>	<p>The expansion of</p> <p>i. Jetties by more than 50 square metres</p> <p>ii. Slipways by more than 50 square metres; or</p> <p>iii. Buildings by more than 50 square metres</p> <p>iv. Infrastructure by more than 50 square metres</p>

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

		<p>Within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, but excluding where such expansion will occur behind the development setback line.</p>	
<p><b>Reason for exclusion:</b>                  It now became clear that the sewer pipe line will not be an expansion and therefore this activity is no longer triggered. An amended application form was submitted to GDARD with this report.</p>			
<p>Listing Notice 3, R546, 18 June 2010</p>	<p>Activity 16</p>	<p>The construction of:                  i. Jetties exceeding 10 square meters in size;                  ii. Slipways exceeding 10 square meters in size;                  iii. Building with a footprint exceeding 10 square meters in size; or                  iv. Infrastructure covering 10 square meters or more</p> <p>Where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</p>	<p>In Gauteng:                  i. A protected area identified in terms of NEMPAA, excluding conservancies;                  ii. National Protected Area Expansion Strategy Focus areas;                  iii. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;                  iv. Sites or areas identified in terms of an International Convention;                  v. Sites identified as irreplaceable or important in the Gauteng Conservation Plan;                  vi. Any declared protected area including Municipal or Provincial nature Reserves as</p>

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

			<p>contemplated by the Environment Conservation Act, 1989 (Act No. 73 of 1989) and the Nature Conservation Ordinance (Ordinance 12 of 1983);</p> <p>vii. Areas zoned for a conservation purpose.</p>
<p><b>Reason for inclusion:</b></p> <p>The proposed sewer pipeline will be more than 10 square meters in close proximity to a watercourse. The site is situated in close proximity to an irreplaceable area and it also traverses an important are in the north of the pipeline. Some Orange Listed Plant species are also thought to occur in the surrounding area according to the data from GDARD Conservation Plan. Therefore this activity is included for authorisation.</p>			
<p>Listing Notice 3, R546, 18 June 2010</p>	<p>Activity 24</p>	<p>The expansion of:</p> <p>a) Jetties where the jetty will be expanded by 10 square meters in size or more;</p> <p>b) Slipways where the slipway will be expanded by 10 square meters or more;</p> <p>c) Buildings where the buildings will be expanded by 10 square meters or more in size; or</p> <p>d) Infrastructure where the infrastructure will be expanded by 10 square meters or more</p> <p>Where such construction occurs within a watercourse or within 32 meters of a watercourse,</p>	<p>In Gauteng:</p> <p>i. A protected area identified in terms of NEMPAA, excluding conservancies;</p> <p>ii. National Protected Area Expansion Strategy Focus areas;</p> <p>iii. Sensitive areas as identified in an environmental management framework as contemplated in chapter 5 of the Act and as adopted by the competent authority;</p> <p>iv. Sites or areas identified in terms of an International Convention;</p>

		<p>measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</p>	<p>v. Sites identified as irreplaceable or important in the Gauteng Conservation Plan;</p> <p>vi. Any declared protected area including Municipal or Provincial nature Reserves as contemplated by the Environment Conservation Act, 1989 (Act No. 73 of 1989) and the Nature Conservation Ordinance (Ordinance 12 of 1983);</p> <p>vii. Areas zoned for a conservation purpose.</p>
<p><b>Reason for inclusion:</b></p> <p>The proposed sewer pipeline will be more than 10 square meters in close proximity to a watercourse. The site is situated in close proximity to an irreplaceable area and it also traverses an important are in the north of the pipeline. Some Orange Listed Plant species are also thought to occur in the surrounding area according to the data from GDARD Conservation Plan. Therefore this activity is included for authorisation.</p>			

*Please take note that the 2010 NEMA EIA Regulations were replaced by the Amended 2014 NEMA EIA Regulations on 4 December 2014, but due to the fact that the application was submitted in terms of the 2010 NEMA EIA Regulations, this application will be dealt with in terms of such Regulations. Once the Decision has been issued in terms of the 2010 NEMA EIA Regulations, such Decision will be regarded as a Decision issued in terms of the New 2014 EIA Regulations and all following procedures (i.e. Amendment Applications, Appeals etc. must be made/submitted in terms of the 2014 NEMA EIA Regulations. Refer to Chapter 8 – Transitional Arrangements and Commencement of the 2014 NEMA EIA Regulations).*



Regulation 53 (3) of the 2014 NEMA EIA Regulations furthermore states “Where an application submitted in terms of the previous NEMA EIA Regulations, is pending in relation to the activity of which a component of the same activity was not identified under the previous NEMA Notices, but is now identified in terms of Section 24 (2) of the Act, the competent authority must dispense of such application in terms of the previous NEMA regulations and may authorise the activity identified in terms of Section 24 (2) as if it was applied for, on condition that all impacts of the newly identified activity and requirements of these Regulations have also been considered and adequately assessed.”

**Section 24(2) Activities to be considered by GDARD:**

We perused the Amended 2014 NEMA EIA Regulations and decided to list the activities that will most probably be triggered in terms of such Regulations **(Refer to the table below)**. The activities identified are very similar to that activities applied for in terms of the 2010 NEMA EIA Regulations and we therefore feel confident that all the activities as listed have been assessed.

**Due to the fact that the 2014 Regulations are still new, we recommend that GDARD rather dispense this application in terms of the 2010 NEMA EIA Regulations.**

**2014 Amended NEMA EIA Regulations: Listed Activities that will most probably be triggered:**

<b>Listing Notice 1:</b>		
R.983	Activity 9	The development of infrastructure exceeding 1000 metres in length for the bulk transportation of water or storm water- (i) with an internal diameter of 0,36 metres or more; or (ii) with a peak throughput of 120 litres per second or more; excluding where- (a) such infrastructure is for bulk transportation of water or storm water or storm water drainage inside a road reserve; or (b) where such development will occur within an urban area.
	Activity 10	The development and related operation of infrastructure exceeding 1000 metres in length for the

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

		<p>bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes</p> <p>(i) with an internal diameter of 0,36 metres or more; or</p> <p>(ii) with a peak throughput of 120 litres per second or more; excluding where-</p> <p>(a) such infrastructure is for bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes inside a road reserve; or</p> <p>(b) where such development will occur within an urban area.</p>
	<p>Activity 12</p>	<p>The development of-</p> <p>(i) canals exceeding 100 square metres in size;</p> <p>(ii) channels exceeding 100 square metres in size;</p> <p>(iii) bridges exceeding 100 square metres in size;</p> <p>(iv) dams, where the dam, including infrastructure and water surface area, exceeds 100 square metres in size;</p> <p>(v) weirs, where the weir, including infrastructure and water surface area, exceeds 100 square metres in size;</p> <p>(vi) bulk storm water outlet structures exceeding 100 square metres in size; (vii) marinas exceeding 100 square metres in size;</p> <p>(viii) jetties exceeding 100 square metres in size;</p> <p>(ix) slipways exceeding 100 square metres in size;</p> <p>(x) buildings exceeding 100 square metres in size;</p> <p>(xi) boardwalks exceeding 100 square metres in size; or</p> <p>(xii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs-</p> <p>(a) within a watercourse;</p> <p>(b) in front of a development setback; or</p> <p>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse; - excluding-</p> <p>(aa) the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour;</p> <p>(bb) where such development activities are related to the development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies;</p> <p>(cc) activities listed in activity 14 in Listing Notice 2 of 2014 or activity 14 in Listing Notice 3 of 2014, in which case that activity applies;</p> <p>(dd) where such development occurs within an urban area; or</p> <p>(ee) where such development occurs within existing roads or road reserves.</p>
	<p>Activity 19</p>	<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> <p>(i) a watercourse;</p> <p>(ii) the seashore; or</p> <p>(iii) the littoral active zone, an estuary or a distance of</p>

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		<p>100 metres inland of the high-water mark of the sea or an estuary, whichever distance is the greater- but excluding where such infilling, depositing, dredging, excavation, removal or moving-</p> <p>(a) will occur behind a development setback;</p> <p>(b) is for maintenance purposes undertaken in accordance with a maintenance management plan;</p> <p>or</p> <p>(c) falls within the ambit of activity 21 in this Notice, in which case that activity applies.</p>	
	Activity 27	<p>The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation, except where such clearance of indigenous vegetation is required for-</p> <p>(i) the undertaking of a linear activity; or</p> <p>(ii) maintenance purposes undertaken in accordance with a maintenance management plan</p>	
	Activity 28	<p>Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture or afforestation on or after 01 April 1998 and where such development:</p> <p>(i) will occur inside an urban area, where the total land to be developed is bigger than 5 hectares; or</p> <p>(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare;</p> <p>excluding where such land has already been</p>	
<b>Listing Notice 3:</b>			
R. 985	Activity 12	<p>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of required for maintenance purposes undertaken in accordance with a maintenance management plan.</p>	<p>(c) In Mpumalanga:</p> <p>i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004;</p> <p>ii. Within critical biodiversity areas identified in bioregional plans;</p> <p>iii. Within the littoral active zone or 100 metres inland from high water mark of the sea or an estuarine functional zone, whichever distance is the greater, excluding where such</p>

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			<p>removal will occur behind the development setback line on erven in urban areas; or</p> <p>iv. On land, where, at the time of the coming into effect of this Notice or thereafter such land was zoned open space, conservation or had an equivalent zoning or proclamation in terms of NEMPAA.</p>
	<p>Activity 14</p>	<p>The development of-</p> <p>(i) canals exceeding 10 square metres in size ;</p> <p>(ii) channels exceeding 10 square metres in size;</p> <p>(iii) bridges exceeding 10 square metres in size;</p> <p>(iv) dams, where the dam, including infrastructure and water surface area exceeds 10 square metres in size;</p> <p>(v) weirs, where the weir, including infrastructure and water surface area exceeds 10 square metres in size;</p> <p>(vi) bulk storm water outlet structures exceeding 10 square metres in size;</p> <p>(vii) marinas exceeding 10 square metres in size;</p> <p>(viii) jetties exceeding 10 square metres in size;</p> <p>(ix) slipways exceeding 10 square metres in size;</p> <p>(x) buildings exceeding 10 square metres in size;</p> <p>(xi) boardwalks exceeding 10 square metres in size; or</p> <p>(xii) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs</p> <p>(a) within a watercourse</p> <p>(b) in front of a development Setback, or</p> <p>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge</p>	<p>(b) In Gauteng:</p> <p>i. A protected area identified in terms of NEMPAA, excluding conservancies;</p> <p>ii. National Protected Area Expansion Strategy Focus Areas;</p> <p>iii. Gauteng Protected Area Expansion Priority Areas;</p> <p>iv. Sites identified as Critical Biodiversity Areas (CBAs) and Ecological Support Areas (ESAs) in the Gauteng Conservation Plan or in bioregional plans;</p> <p>v. Sites identified within threatened ecosystems listed in terms of the National Environmental Management Act: Biodiversity Act (Act No. 10 of 2004);</p> <p>vi. Sensitive areas identified in an environmental management framework adopted by relevant environmental authority;</p> <p>vii. Sites or areas identified in terms of an International Convention</p> <p>viii. Sites managed as protected areas by provincial authorities, or declared as nature reserves in terms of the Nature Conservation Ordinance (Ordinance 12 of 1983) or the National Environmental</p>

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		of a watercourse  excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour.	Management: Protected Areas Act (Act No. 57 of 2003); ix. Sites designated as nature reserves within municipal SDFs; or x. Sites zoned for conservation or public open space or equivalent zoning.
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**2. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES**

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations:

Title of legislation, policy or guideline:	Administrating Authority:	Promulgation Date:
<b>National Environmental Management Act No. 107 of 1998 (as amended)</b>	<b>National &amp; Provincial</b>	<b>27 November 1998</b>

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 Minister of Environmental Affairs and Tourism passed (in April 2006) Environmental Impact Assessment Regulations<sup>1</sup> (the Regulations) in terms of Chapter 5 of the National Environmental management Act, 1998<sup>2</sup> (NEMA). The new Regulations came into effect on 3 July 2006.

The Minister of Environmental Affairs passed (in June 2010) the Amended Environmental Impact Assessment Regulations in terms of Chapter 5 of the National Environmental Management Act, 1998 (Act 107 of 1998) (NEMA). The Amended Regulations came into effect on 2 August 2010, and therefore all new applications must be made in terms of the Amended NEMA regulations and not in terms of the 2006 NEMA Regulations or the New Regulations of the ECA. The purpose of this process is to determine the possible negative and positive impacts of the proposed development on the surrounding environment and to provide measures for the mitigation of negative impacts and to maximize positive impacts.

Notice **No. R 544, R 545 and R 546** of the Amended Regulations list the activities that indicate the process to be followed. The activities listed in Notice No. R 544 requires that a Basic Assessment process be followed and

the Activities listed in terms of Notice No. R 545 requires that the Scoping and EIA process be followed. Notice No. 546 has been introduced to make provision for Activities in certain geographical and sensitive areas.

**Implications for the development:**

Significant – The application for the proposed pipeline consist of activities listed under Notice R. 544 (Listing No. 1) and R. 546 (Listing No. 3) and therefore a Basic Assessment Report will be submitted to GDARD for consideration.

<b>National Water Act, 1998 (Act No. 36 of 1998)</b>	<b>National &amp; Provincial</b>	<b>20 August 1998</b>
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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 licences 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 water course;
- 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 pipeline, 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 which contains waste from or which has been heated in any industrial or power generation process;
- i) Altering the bed, banks, course or disposing of water found underground if it is necessary for the safety of people;

- 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.

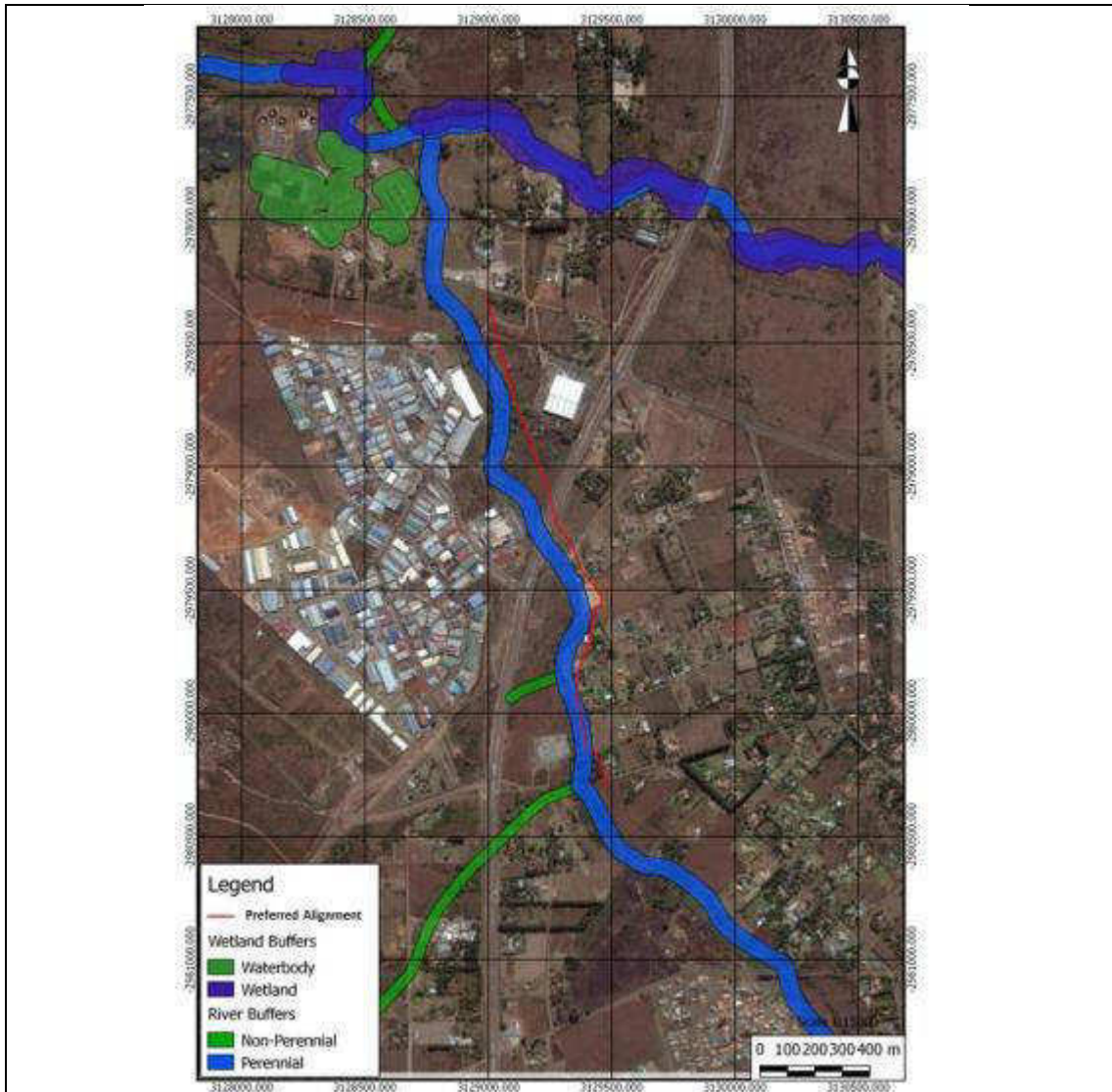
The National Water Act also requires that (where applicable) the 1:50 and 1:100 year flood line be indicated on all the development drawings (even the drawings for the external services) that are submitted for approval.

**Implications for the development:**

The proposed pipeline is aligned along the 1:100 year flood line of the watercourse (perennial river). We are of the opinion that the proposed pipeline, which will be installed less than 500m away from the watercourse/wetland areas, will require a Section 21 (c) and (i) water-use license in terms of the National Water Act, 1998.

It is however important to note that the proposed sewer line will not transect the wetland or riparian zone at any point. The wetland specialist did not recommend any wetland buffer.

**(Refer to Figure 3 – Hydrology Map)**



**Figure 3 – Hydrology Map**

<b>National Environmental Management: Air Quality Act, 2004 (Act 39 of 2004)</b>	<b>National &amp; Provincial</b>	<b>2004</b>
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The NEMA: AQA serves to repeal the Atmospheric Pollution Prevention Act (45 of 1965) and various other laws dealing with air pollution and it provides a more comprehensive framework within which the critical question of air quality can be addressed.

The purpose of the Act is to set norms and standards that relate to:

- ❑ Institutional frameworks, roles and responsibilities
- ❑ Air quality management planning
- ❑ Air quality monitoring and information management
- ❑ Air quality management measures
- ❑ General compliance and enforcement.



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 Licence.
- 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.

On 22 November 2013 the list of activities which result in atmospheric emissions that have or may have a detrimental effect on the environment, was amended.

**Implications for the development:**

During the construction phase, dust and the generation of noise can become a significant factor, especially to the surrounding landowners. However if the development is well planned and the mitigating measures are successfully implemented the proposed pipeline's contribution to air pollution and the generation of air pollution can become less significant. None of the listed activities, according to this Act, have been triggered.

<b>National Heritage Resources Act (Act No. 25 of 1999)</b>	<b>National &amp; Provincial</b>	<b>1999</b>
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The National Heritage Resources Act legislates the necessity and heritage impact assessment in areas earmarked for development, which exceed 0.5ha. The Act makes provision for the potential destruction to existing sites, pending the archaeologist's recommendations through permitting procedures. Permits are administered by the South African Heritage Resources Agency (SAHRA).

**Implications for the development:**

No features of Heritage importance were identified during the Assessment within the sewer servitude, however some old structures were identified in the surrounding area but these structures will not be affected or demolished for purposes of the proposed project. If any such features are discovered during construction activities and clearing of the application site, the correct "procedures for an Environmental incident" **(at the end of EMP, Appendix H)** must be followed.

<b>National Environmental Management Protected Areas Act (Act No. 57 of 2003)</b>	<b>National</b>	<b>2003</b>
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The purpose of this Act is to provide for the protection, conservation and management of ecologically viable areas representative of South Africa's biological biodiversity and its natural landscapes.



**Figure 4 – Protected areas**

**Implications for the development:**

This Act will not have to be considered for the application as the study area does not fall in any protected areas.

National Environmental Management: Biodiversity Act, 2004 (Act 10 of 2004)	National	2004
<p>The Biodiversity Act, provides for the management and protection of the country's biodiversity within the framework established by NEMA. It provides for the protection of species and ecosystems in need of protection, sustainable use of indigenous biological resources, equity and bioprospecting, and the establishment of a regulatory body on biodiversity-  <b>South African National Biodiversity Institute.</b></p> <p><b>Objectives of the Act:</b></p> <p><b>(a) With the framework of the National Environmental Management Act, to provide for:</b></p> <ul style="list-style-type: none"> <li>(i) The management and conservation of biological diversity within the Republic and of the components of such biological diversity;</li> <li>(ii) The use of indigenous biological resources in a sustainable manner; and</li> <li>(iii) The fair and equitable sharing among stakeholders of benefits arising from bio-prospecting involving indigenous biological resources;</li> </ul> <p><b>(b) To give effect to ratified international agreements relating to biodiversity which are binding on the republic;</b></p> <p><b>(c) To provide for co-operative governance in biodiversity management and conservation; and</b></p> <p><b>(d) To provide for a South African National Biodiversity Institute to assist in achieving the objectives of this Act.</b></p> <p>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.</p> <p><b>Implications for the development:</b></p> <p>The proposed development is situated within the Carletonville Dolomite Grassland vegetation type according to Mucina and Rutherford (2006). No red data plant species have been identified on the proposed study area. The proposed external sewer pipeline is on the verge of an irreplaceable site that is situated along the perennial river to the west of the proposed pipeline.</p>		

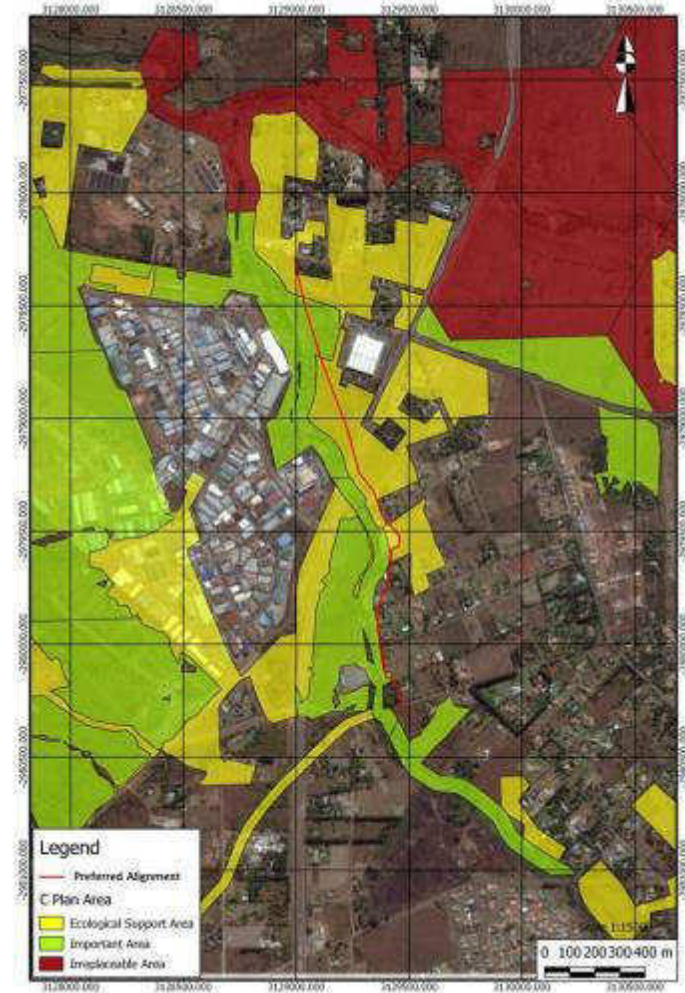


Figure 5 – Irreplaceable Map

**GDARD Draft Ridges Policy**

**Provincial**

**2001**

The biodiversity and socio-cultural value of ridges and their essential role in ecosystem processes will be established in order to show why it is absolutely imperative that the Department adopts a no-go development policy for the ridges of Gauteng. It is important to remember that the quartzite ridges of Gauteng, together with the Drakensberg Escarpment, should be regarded as one of the most important natural assets in the entire region of the northern provinces of South Africa. They are characterized by a unique plant species composition that is found nowhere else in South Africa or the world (Bredenkamp & Brown, 1998). Ridges are important for biodiversity hotspots, red data/threatened species, invertebrates, wildlife corridors, ecosystem processes and socio-cultural value (aesthetic value).

A ridge is defined as any topographic feature in the landscape that is characterized by slopes of 5° or more, as determined by means of a GIS digital elevation model.



**Figure 6 – Ridges**

**Implications for the development:**

The policy will not have to be considered for the application as the study area does not fall on a ridge/transformed ridge.

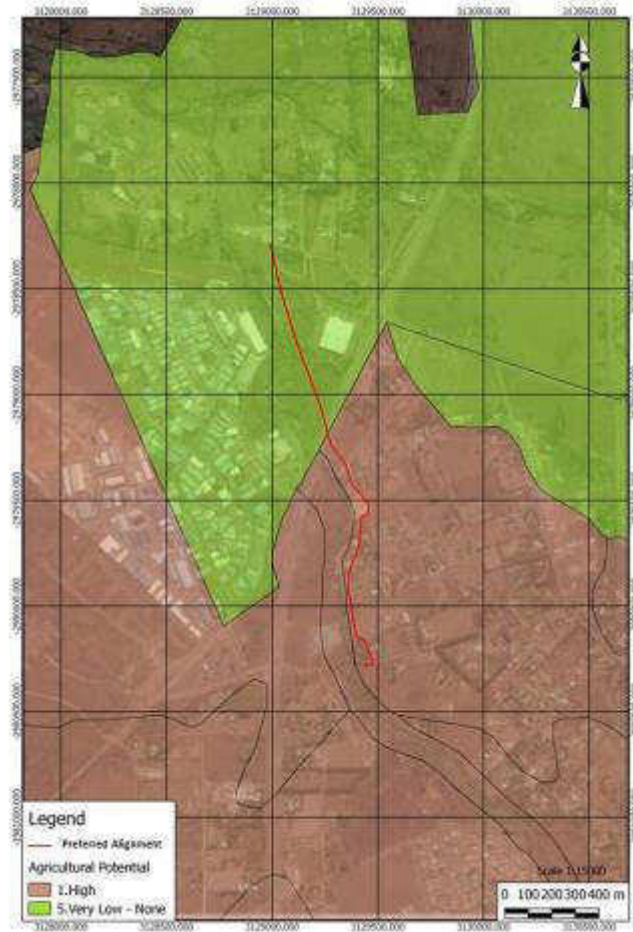
<b>Conservation of Agricultural Resources Act (Act No. 43 of 1983)</b>	<b>National</b>	<b>1 June 1983</b>
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This act provides for control over the utilization of natural agricultural resources of South Africa in order to promote the conservation of soil, water sources and the vegetation as well as the combating of weeds and invader plants; and for matters connecting therewith.

**Implications for the development:**

Not Significant – According to the Gauteng Agricultural Potential Atlas (GAPA 3), the Raslow X 15 sewer pipeline is located on land with high and low agricultural potential. However, it should be noted that the surrounding areas is in the process of being developed or already developed for industrial, residential or other land uses. In addition, GIS Data and GIDS data from GDARD also clearly indicates that the development is located within the Gauteng Urban Edge (2010), and does not fall within any of the Seven

Agriculture Hubs identified for the Gauteng province. (Please refer to Figure 7 – Agriculture Potential Map)



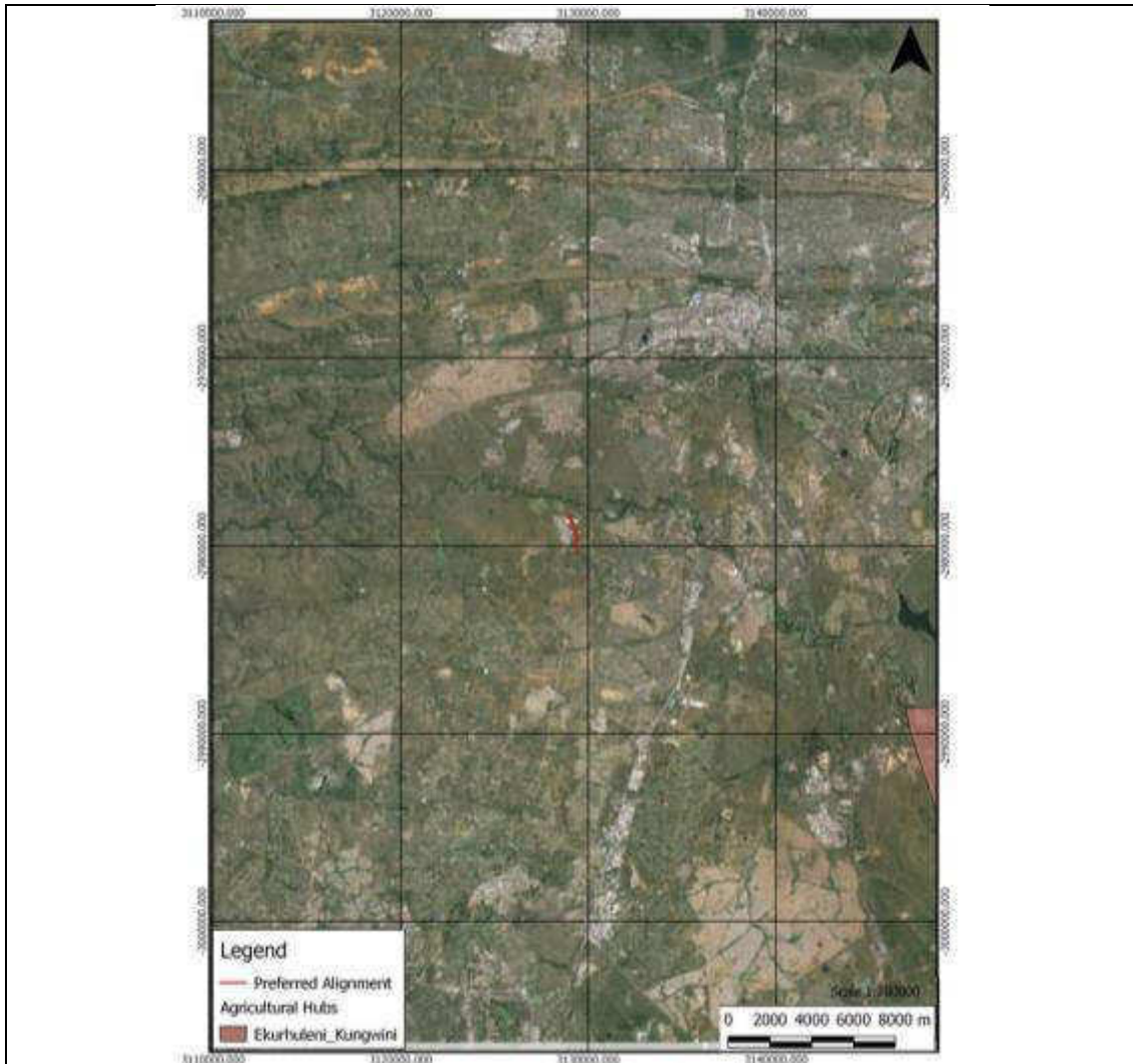
**Figure 7 – Agricultural Potential**

<b>GDARD Agricultural Hub Policy</b>	<b>Provincial</b>	<b>2006</b>
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GDARD identified 7 Agricultural Hubs in Gauteng province. These hubs are earmarked for agricultural activities and there are policies and guidelines that should be taken into consideration when one plans to develop in these hubs areas. Urban development is usually not supported in these hubs.

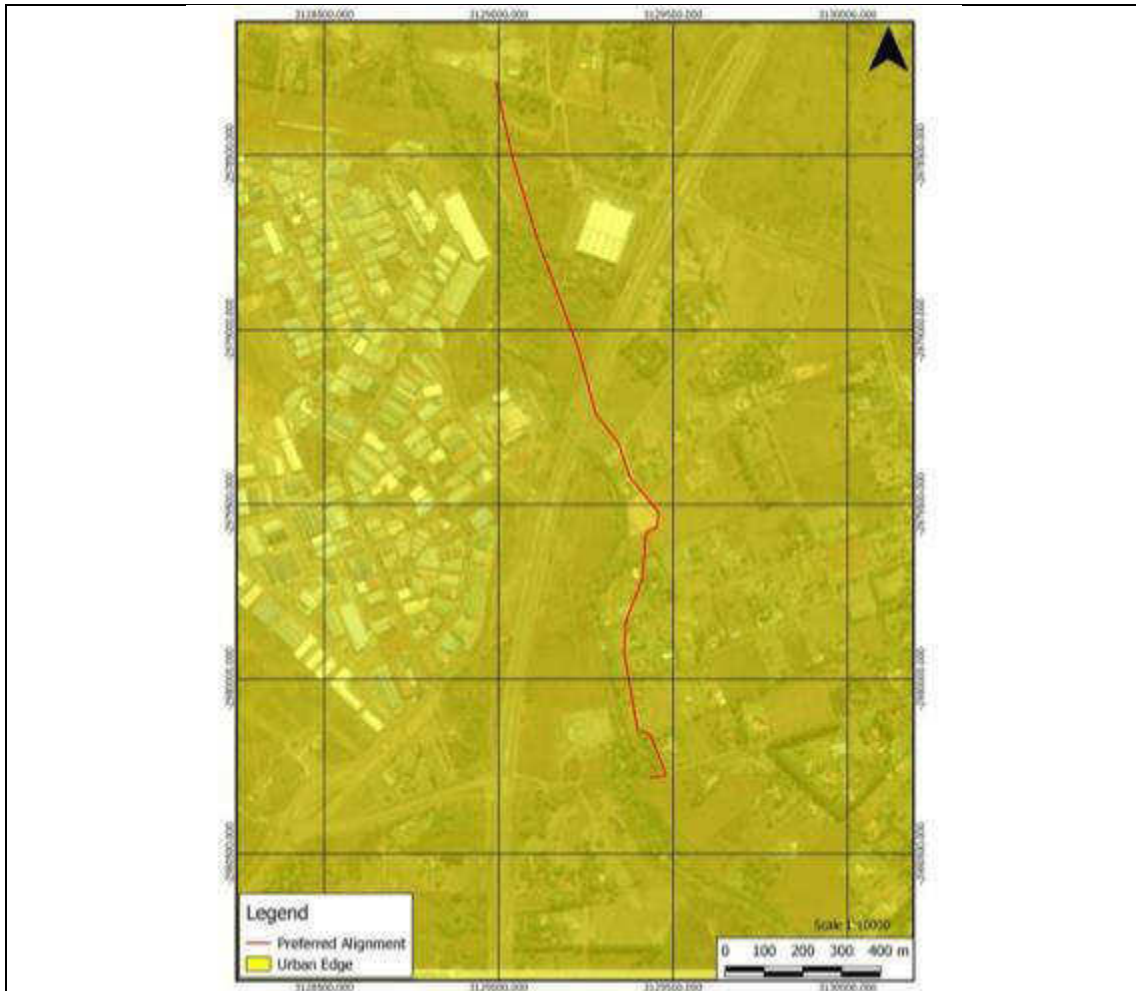
**Implications for the development:**

Not significant - The study area is not situated within any of the 7 agricultural hubs identified for Gauteng.



**Figure 8 – Agricultural Hubs**

Gauteng Urban Edge 2010	Provincial	2010
<p>According to Mr. Neels du Toit of the Gauteng Department of Economic Development the urban edge is now delineated on a yearly basis and it is the responsibility of the local authorities to request for a yearly amendment to the urban edge.</p> <p>From this year onwards the urban edge will be reviewed at the end of September and it will be adjusted to be in accordance with the proposals supplied by the various local authorities.</p> <p><b>Implication for the development:</b></p> <p>The proposed study area is included into the urban edge as indicated on the spatial development framework, the 2007 provincial urban edge and into the revised 2010 urban edge. The proposed development is regarded as in line with this policy.</p>		



**Figure 9 – Urban Edge**

National Environmental Management: Waste Act (Act 59 of 2008)	National	2008
<p>This Act aims to consolidate waste management in South Africa, and contains a number of commendable provisions, including:</p> <ul style="list-style-type: none"> <li>• The establishment of a national waste management strategy, and national and provincial norms and standards, for amongst other, the classification of waste, waste service delivery, and tariffs for such waste services;</li> <li>• Addressing reduction, reuse, recycling and recovery of waste;</li> <li>• The requirements for industry and local government to prepare integrated waste management plans;</li> <li>• The establishment of control over contaminated land;</li> <li>• Identifying waste management activities that requires a license, which currently include facilities for the storage, transfer, recycling, recovery, treatment and disposal of waste on land;</li> <li>• Co-operative governance in issuing licenses for waste management facilities, by means of which a licensing authority can issue an</li> </ul>		



integrated or consolidated license jointly with other organs of state that has legislative control over the activity; and

- The establishment of a national waste information system.

On 29 November 2013 the Minister of Environmental Affairs and Tourism amended the list of waste management activities that might have a detrimental effect on the environment.

**Implication for the development:**

Not significant – No waste management license will be required during the construction or operational phases of the proposed sewer pipeline. Due to the fact that a small amount of solid construction waste will be stored and handled on the site, before it is hauled away and dumped at the nearest registered landfill site.

<b>Red List Plant Species Guidelines</b>	<b>Provincial</b>	<b>26 June 2006</b>
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The purpose of these guidelines is to promote the conservation of Red List Plant Species in Gauteng, which are species of flora that face risk of extinction in the wild. By protecting Red List Plant Species, conservation of diverse landscapes is promoted which forms part of the overall environmental preservation of diverse ecosystems, habitats, communities, populations, species and genes in Gauteng.

These Guidelines are intended to provide a decision-making support tool to any person or organization that is responsible for managing, or whose actions affect, areas in Gauteng where populations of Red List Plant Species grow, whether such person or organization be an organ of state or private entity or individual; thereby enabling the conservation of the Red List Plant Species that occur in Gauteng.

**Implication for the development:**

According to the C-Plan a section of the study area is regarded as suitable for orange listed species. The detailed fauna and flora survey however confirmed that the study area is very disturbed and that no red or orange listed species were observed during the site inspections.

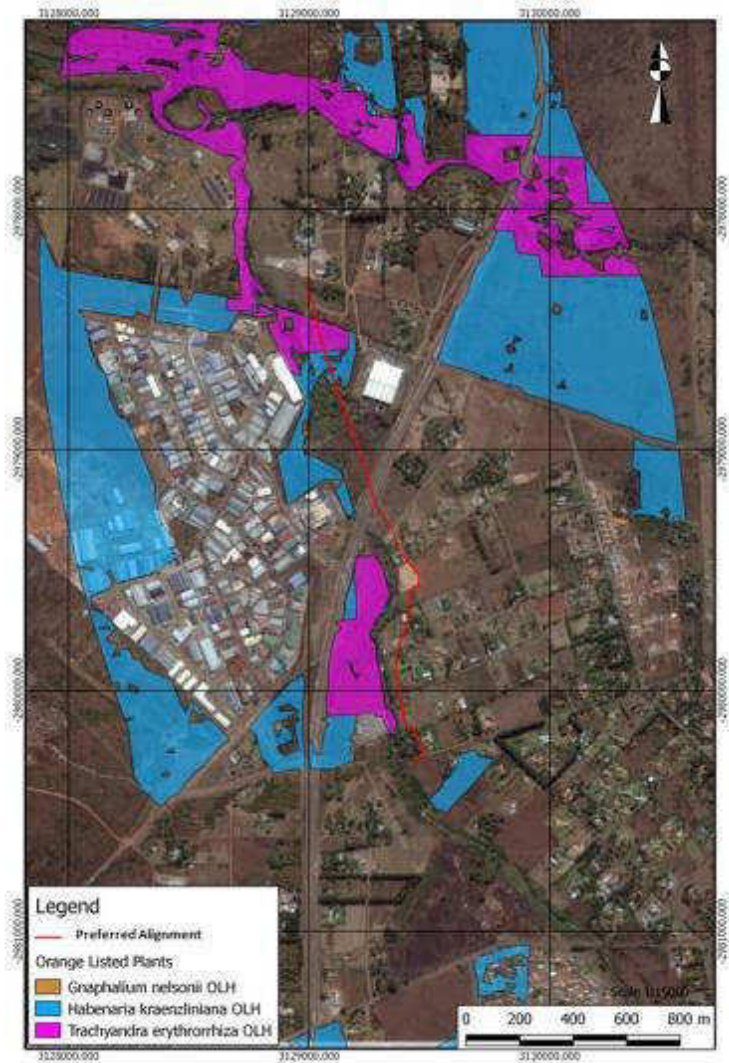


Figure 10 – Orange Listed Plants

Gauteng Noise Control Regulations, 1999	Provincial	1999
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The regulation controls noise pollution. According to the acceptable noise levels in a residential area situated within an urban area is 55dBA and the maximum acceptable noise levels in a rural area is 45dBA.

**Implication for the development:**

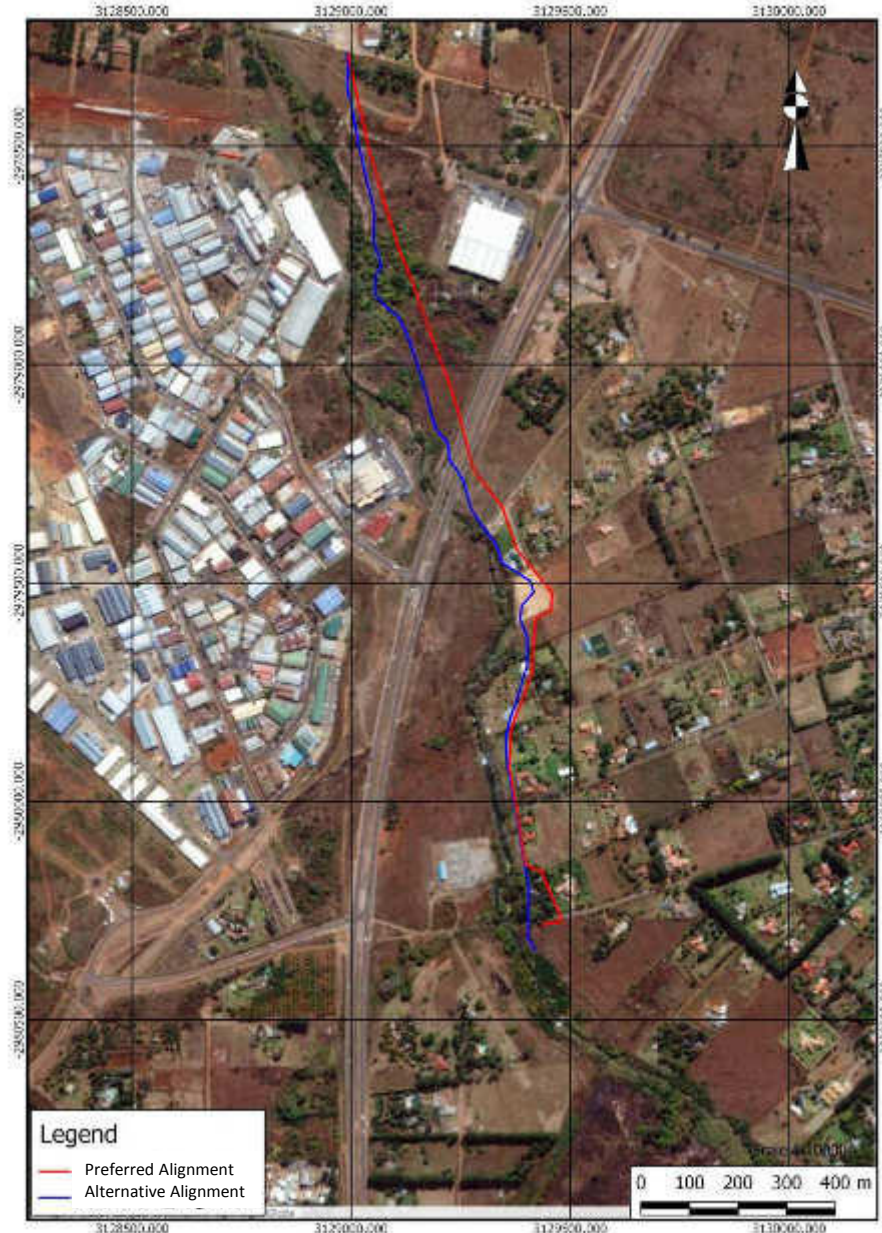
The only possible noise that could be generated by the proposed pipeline is the noise caused by construction workers and machinery during the construction phase. Such noise impacts are generally short term of nature and easier to mitigate. During the operational phase, there will be no noise impacts. **(Please Refer to Appendix H (EMP) for a list of suitable guidelines and mitigation measures)**

**3. ALTERNATIVES**

Describe the proposal and alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished. The determination of whether the site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment

The no-go option must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. **Do not** include the no go option into the alternative table below.

**Note:** After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.



**Figure 12 – Proposed and Alternative Alignments**

Provide a description of the alternatives considered

No.	Alternative type, either alternative: site on property, properties, activity, design, technology, operational or other(provide details of "other")	Description

1	Proposal	External Services (Sewer) <b>Please refer to Figure 1 and 2 for this preferred alignment</b>
2	Alternative 2	Alignment Alternative <b>Please refer to Figure 12 that illustrate the two alternative (both preferred and the alternative) alignments</b>

**NOTE: The numbering in the above table must be consistently applied throughout the application report and process**

**4. PHYSICAL SIZE OF THE ACTIVITY**

Indicate the total physical size (footprint) of the proposal as well as alternatives. Footprints are to include all new infrastructure (roads, services etc), impermeable surfaces and landscaped areas:

**Alternative:**

- Alternative 1 (Proposed activity)
- Alternative 2 (if any)
- Alternative 3 (if any)

**Size of the activity:**


Ha

or, for linear activities:

**Alternative:**

- Alternative 1 (Proposed activity)
- Alternative 2 (if any)
- Alternative 3 (if any)

**Length of the activity:**

<b>2.00 km</b>
<b>Just longer than 2.00 km</b>

m/km

Indicate the size of the site(s) or servitudes (within which the above footprints will occur):

**Alternative:**

- Alternative 1 (Proposed activity)
- Alternative 2 (if any)
- Alternative 3 (if any)

**Size of the site/servitude:**

<b>±1.6 ha</b>
<b>±1.6 ha</b>

Ha/m<sup>2</sup>

**5. SITE ACCESS**

**Alternative 1 (Proposal)**

Does ready access to the site exist, or is access directly from an existing road?

<b>YES</b>	NO
<b>X</b>	
m	

If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

The alignments for the two proposed pipelines (Alternative 1 and 2) run to the east of the Sunderland Ridge Industrial Area and it will also cut across R55 (i.e. by means of an excavated trench to be filled up again/ by means of pipe jacking). The Gauteng Department of Roads and Transport granted the wayleave for the road crossing of the proposed sewer pipeline alignment. Please refer to Appendix K for the approval letter.

The pipeline originates at Poole Avenue (in the south) and this initial section of the pipeline is accessible for maintenance purposes. The remainder of the proposed pipeline however traverses a number of private properties and servitudes (for maintenance and management purposes) will be registered

over the sewer pipeline and therefore access to manholes is not expected to be a problem.

Include the position of the access road on the site plan.

**Alternative 2**

Does ready access to the site exist, or is access directly from an existing road?

<b>YES</b>	NO
<b>X</b>	
m	

If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

This pipeline also originates at Poole Avenue (in the south) and this initial section of the pipeline is accessible for maintenance purposes. The remainder of the proposed pipeline however traverses a number of private properties and servitudes (for maintenance and management purposes) will be registered over the sewer pipeline and therefore access to manholes is not expected to be a problem.

Include the position of the access road on the site plan.

**Alternative 3**

Does ready access to the site exist, or is access directly from an existing road?

YES	NO
	m

If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

N/A

Include the position of the access road on the site plan.

**PLEASE NOTE: Points 6 to 8 of Section A must be duplicated where relevant for alternatives**

Section A 6-8 has been duplicated 

1
---

 Number of times  
(only complete when applicable)

**6. SITE OR ROUTE PLAN**

A detailed site or route (for linear activities) plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document. The site or route plans must indicate the following:

- the scale of the plan, which must be at least a scale of 1:2000 ( scale cannot be larger than 1:2000 i.e. scale can not be 1:2500 but could where applicable be 1:1500)
- the property boundaries and numbers of all the properties within 50m of the site;
- the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- the exact position of each element of the application as well as any other structures on the site;
- the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, septic tanks, storm water infrastructure and telecommunication infrastructure;
- walls and fencing including details of the height and construction material;
- servitudes indicating the purpose of the servitude;
- sensitive environmental elements on and within 100m of the site or sites including (but not limited thereto):
  - Rivers and wetlands;
  - the 1:100 and 1:50 year flood line;
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation (even if it is degraded or infested with alien species);
- for gentle slopes the 1m contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- the positions from where photographs of the site were taken.
- Where a watercourse is located on the site at least one cross section of the water course must be included (to allow the 32m position from the bank to be clearly indicated)

**7. SITE PHOTOGRAPHS**

Colour photographs from the center of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under the appropriate Appendix. It should be supplemented with additional photographs of relevant features on the site, where applicable.

## **8. FACILITY ILLUSTRATION**

A detailed illustration of the activity must be provided at a scale of 1:200 for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity. To be attached in the appropriate Appendix.

## SECTION B: DESCRIPTION OF RECEIVING ENVIRONMENT

**Note:** Complete Section B for the proposal

**Further:**

### Instructions for completion of Section B for linear activities

- 1) For linear activities (pipelines etc) it may be necessary to complete Section B for each section of the site that has a significantly different environment.
- 2) Indicate on a plan(s) the different environments identified
- 3) Complete Section B for each of the above areas identified
- 4) Attach to this form in a chronological order
- 5) Each copy of Section B must clearly indicate the corresponding sections of the route at the top of the next page.

Section B has been duplicated for sections of the route  times

### Instructions for completion of Section B for location/route alternatives

- 1) For each location/route alternative identified the entire Section B needs to be completed
- 2) Each alternative location/route needs to be clearly indicated at the top of the next page
- 3) Attach the above documents in a chronological order

Section B has been duplicated for location/route alternatives  times

(complete only when appropriate)

### Instructions for completion of Section B when both location/route alternatives and linear activities are applicable for the application

Section B is to be completed and attachments order in the following way

- All significantly different environments identified for Alternative 2 is to be completed and attached in a chronological order; then
- all significantly different environments identified for Alternative 3 is to be completed and attached chronological order
- etc

Section B - Section of Route  (complete only when appropriate for above)

Section B – Location/route Alternative No.  (complete only when appropriate for above)

## 1. PROPERTY DESCRIPTION

**Property description:**

The following farms/ properties will be affected:

- Portion 1, Portion 2 and the Remainder of Holding 1 of Deltoidia Agricultural Holdings;
- Portion 1 and the Remainder of Holding 4 of Deltoidia Agricultural Holdings;
- Portion 2 of Holding 122 of Raslow Agricultural Holdings;
- R55 – K71;
- Portion 588, 446, 606, 607, 608, 412, 164, 165, 166, 124 and Remainder of 163 of the Farm Zwartkop 356 JR.

(Farm name, portion etc.)

**2. ACTIVITY POSITION**

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in decimal degrees. The degrees should have at least six decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

**Alternative:**

Latitude (S):	Longitude (E):

**In the case of linear activities:**

**Alternative:**

- Starting point of the activity
- Middle point of the activity
- End point of the activity

Latitude (S):	Longitude (E):

For route alternatives that are longer than 500m, please provide co-ordinates taken every 250 meters along the route and attached in the appropriate Appendix

Addendum of route alternatives attached

**Please refer to Appendix D**

**3. GRADIENT OF THE SITE**

Indicate the general gradient of the site.

Flat	<b>1:50 – 1:20</b>	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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**4. LOCATION IN LANDSCAPE**

Indicate the landform(s) that best describes the site.

Ridgeline	Plateau	Side slope of hill/ridge	Valley	Plain	<b>Undulating plain/ low hills</b>	River front
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**5. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE**

**REFER TO APPENDIX I: FIGURE 13 – SOILS MAP AND FIGURE 14 – DOLOMITE MAP**

a) Is the site located on any of the following?  
Shallow water table (less than 1.5m deep)

Dolomite, sinkhole or doline areas

Seasonally wet soils (often close to water bodies)

<b>YES</b> There is a possibility, because the line will run in close proximity of a watercourse	NO
<b>YES</b> <b>X</b>	NO
YES	<b>NO</b> <b>X</b>



# BASIC ASSESSMENT REPORT [REGULATION 22(1)]

Unstable rocky slopes or steep slopes with loose soil	YES	<b>NO X</b>
Dispersive soils (soils that dissolve in water)	YES	<b>NO X</b>
Soils with high clay content (clay fraction more than 40%)	YES	<b>NO</b> The section of the line, which will run to the south of the R55 will be next to soils with high clay content
Any other unstable soil or geological feature	YES	<b>NO X</b>
An area sensitive to erosion	YES	<b>NO X</b>

(Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

Please note for clarity purposes all figures within the Basic Assessment for Raslouw x 15 is in a larger format at the back of the Report



**Figure 13 – Soils**

**Figure 14 – Dolomite**

b) are any caves located on the site(s)

YES	<b>NO</b>
	<b>X</b>

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

<b>Latitude (S):</b>	<b>Longitude (E):</b>

c) are any caves located within a 300m radius of the site(s)

YES	<b>NO</b>
	<b>X</b>

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

<b>Latitude (S):</b>	<b>Longitude (E):</b>

d) are any sinkholes located within a 300m radius of the site(s)

YES	<b>NO</b>
	<b>X</b>

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

<b>Latitude (S):</b>	<b>Longitude (E):</b>

If any of the answers to the above are "YES" or "unsure", specialist input may be requested by the Department

The section of the proposed pipeline to the south of the R55 and the most northern part of the pipeline will cut through dolomitic areas. Precautionary measures for developments on dolomite must be taken into consideration during the design, construction and operational phases of the development of the pipeline. **Refer to Appendix G4 for such precautionary measures.** Such measures will also be attached as part of the Environmental Management Plan (EMP) for the pipeline development phases.

**6. AGRICULTURE**

**REFER TO APPENDIX I: FIGURE 7 – AGRICULTURAL POTENTIAL MAP**

Does the site have high potential agricultural soils as contemplated in the Gauteng Agricultural Potential Atlas (GAPA)?

<b>YES</b>	NO
<b>X</b>	

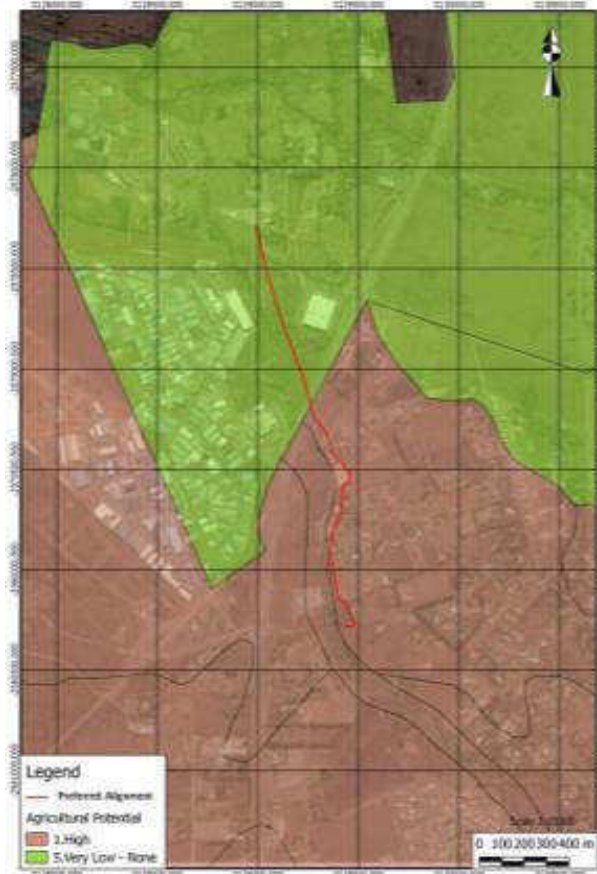
**Please note:** The Department may request specialist input/studies depending on the nature of the soil type and location of the site

**Implications for the development**

No Agricultural Potential Study was conducted for the proposed development due to the following:

- The proposed development site under application is situated next to an industrial area, with no landowners/ tenants practicing agricultural activities;

- The proposed application is linear and thus too small for economic viable agricultural activities;
- The application site is situated within an area underline by the dolomitic conditions, and extensive irrigation of such soils is not supported;
- The Agricultural Potential of the proposed application site according to GAPA version 3 indicates a High Agricultural Potential as well as low Agricultural potential;
- The proposed development sites are located within the Gauteng urban Edge (2010), and not located within any of the seven Agriculture Hubs identified for the Gauteng Province. (Please refer to figure 9 – Urban Edge Map)



**Figure 7 – Agricultural Potential**

## 7. GROUNDCOVER

To be noted that the location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Indicate the types of groundcover present on the site and include the estimated percentage found on site

Natural veld - good condition % =	Natural veld with scattered aliens % = <b>10</b>	Natural veld with heavy alien infestation % =	Veld dominated by alien species % = <b>40</b>	Landscaped (vegetation) % = <b>25</b>
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## BASIC ASSESSMENT REPORT [REGULATION 22(1)]

Sport field % =	Cultivated land % =	Paved surface (hard landscaping) % = <b>5</b>	Building or other structure % = <b>20</b>	Bare soil % =
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**Please note:** The Department may request specialist input/studies depending on the nature of the groundcover and potential impact(s) of the proposed activity/ies.

Are there any rare or endangered flora or fauna species (including red list species) present on the site

YES	<b>NO</b> <b>X</b>
-----	-----------------------

If YES, specify and explain:

*Please note that the Wetland Study as well as the Ecological Assessment was originally done for Alternative 2 as that was the initial alignment. Even though this study does not specifically mention Alternative 1, the specialists considered the wider area (in line with the GDARD bio-diversity requirements) and Alternative 1, which is now regarded as the preferred alternative. Alternative 1 is actually a re-alignment of Alternative 2, in order to propose an alignment that will be more environmental friendly.*

*The re-alignment was specially done to move further away from/avoid the river system and the floodline areas. Alternative 1 will thus have a much lower impact on the hydrological and ecological systems associated with the watercourse.*

*As mentioned, the specialists surveyed the proposed study area as well as the surrounding area they regard the specialist studies as adequate for both alignments. Attached to the Ecological Assessment Report is a letter from the specialist confirming that no additional studies will be required due to the new alignment/ re-alignment.*

A wetland/water course identification and delineation study was conducted by Terra Soil Science for the proposed sewer line. According to the specialist, the proposed sewer line is situated in an area comprising mainly of dolomite. Chert with shale and quartzite also occurs in the general area.

The topography of the site and stream channel is relatively flat to undulating. The topography of the site contributes to water accumulation areas and water flow paths.

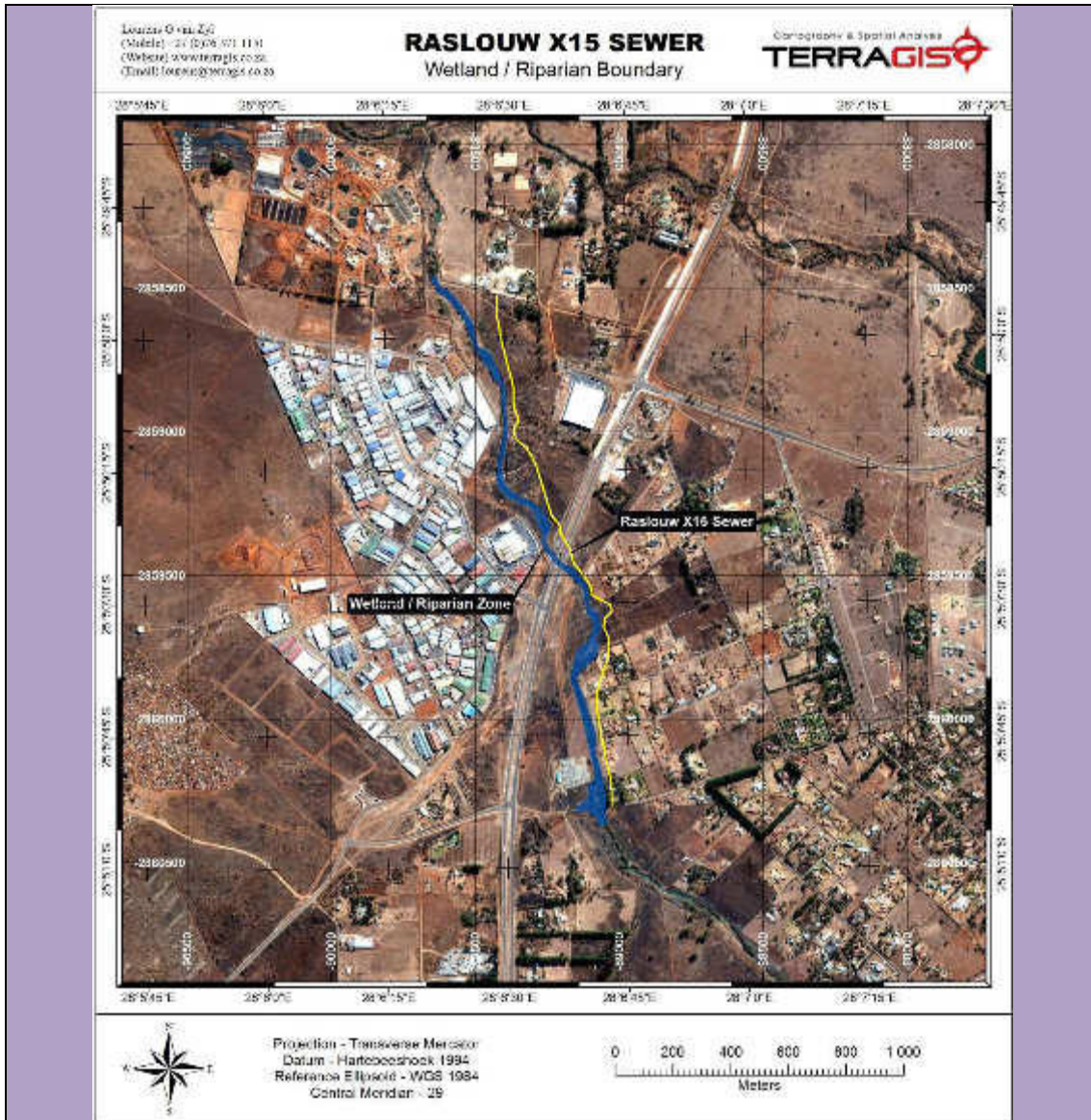
The proposed sewer line is planned to mainly be aligned along the contours that are 5m or more above the water level of the Rietspruit and the sewer line will be between 15 and 130m away from the drainage channel. The transition from the terrestrial area outside the drainage line into the drainage line is characterized by a steep slope, in most of the areas. Significant amounts of human impacts in the form of developments (residential, light commercial), roads and fences, occur in close proximity of the proposed sewer line. In a number of places, the banks of the Rietspruit have been altered due to a

variety of construction and earth moving activities **(images of such impacts can be found in the Wetland Delineation Study in Appendix G1).**

The soils of the site are exclusively rocky Hutton (orthic A horizon / red apedal B horizon / unspecified material – usually hard or weathering rock) forms up to the immediate drainage channel. The materials that have been deposited in the drainage channel are characterized to be predominantly of granitic origin, which is mainly coarse grained quartz particles with occasional primary minerals derive from granite. These materials have been transported up to 4km downstream. Consequently, this indicates severe erosion and sedimentation within the area.

According to Terra Soil Science there is no other wetland features on the banks or along the sewer line transect apart from the Rietspruit drainage feature. These findings are based on vegetation and soil characteristics. It is important to note that the vegetation component consists mainly of exotic plant species that have colonized the banks of the Spruit. This will be the result of the highly altered nature of the channel banks, edges and deposition zones, mainly due to the human impact.

A buffer is not included in the wetland delineation as the drainage feature has been impacted severely by human activities and due to the fact that the sewer line will be installed underneath the ground. The areas disturbed by the installation of the line will be rehabilitated with natural vegetation after the installation of the line. The proposed sewer line furthermore runs outside the delineated wetland/riparian zone for its entire length. **Please refer to Figure 15 for River/ Wetland Boundary or the Wetland Delineation Study.**



**Figure 15 – Wetland/River Boundary**

The following can be concluded from the specialist report:

- The channel, banks and edges of the Rietspruit have been impacted severely by historical human impacts;
- The proposed sewer line runs outside of the wetland/riparian zone for its entire length;
- A wetland buffer is not proposed for this project mainly due to the fact that there is no water ingress from the surrounding landscape into the Rietspruit other than through surface runoff and several man-made structures;
- It is concluded that the construction of the sewer line, if conducted according to sound site management practices will not influence the status or nature of the Rietspruit in its current state.

Recommendations with regards to erosion and siltation management were listed in the wetland delineation report and these have been incorporated in

the EMP for the proposed sewer line.

An Ecological Assessment was conducted by Enviro-Insight for the proposed sewer pipeline and surrounding environment. The study area falls within the Carletonville Dolomite Grassland. The area is surrounded by ecological support areas as well as important areas according to the GDARD Conservation Plan (V3.3) from GIS data. However, on the site it is rather disturbed and transformed with existing roads, garden areas, security walls, security fencing, houses and associated infrastructure as well as some rubble dumping. Exotic plant species also has an impact on the proposed study area at present.

Three habitat units have been identified along the proposed pipeline and surrounding areas. Firstly there is a transformed unit, which is majority of the proposed area, which includes housing, boundary fences, rock dumps and roads. No red data fauna and flora species were identified or are expected to occur due to the high level of transformation. The drainage line was also identified as a unit and it was found to be largely disturbed with indigenous plant species as well as alien plant species. No red data species have been or are expected to be identified due to disturbance. The third habitat unit is a semi-natural terrestrial vegetated area with high clay content and a number of indigenous tree, grass and forb species.

According to the Ecological Assessment, the proposed pipeline is unlikely to affect any red data plant species as none were observed or are expected to occur. With regards to the red data fauna species, the level of disturbance has limited the presence of fauna species on a permanent basis. The drainage line might be used as a migratory corridor for fauna species. The associated human impacts and presence of alien and invasive plant species contributes to the disturbed state of the area. The specialist did submit a letter stating that their fieldwork was sufficient for both alignments and that the proposed alignment is an improvement with regards to ecological impacts and no additional studies are required. Please refer to **Appendix G2** for the specialist report and letter.

Are there any rare or endangered flora or fauna species (including red list species) present within a 200m (if within urban edge, May 2002) or within 600m (if outside the urban edge, May 2002) radius of the site

YES

NO  
X

If YES, specify and explain:

Are there any special or sensitive habitats or other natural features present on the site?

YES  
X

NO

If YES, specify and explain:

The drainage line to the west of the proposed sewer pipeline can be seen as a natural feature, however, it is disturbed through human impacts and the presence of alien plant species. A buffer was not recommended by the

## BASIC ASSESSMENT REPORT [REGULATION 22(1)]

specialist due to the high level of disturbance and transformation of the drainage line.

Was a specialist consulted to assist with completing this section	<b>YES</b> <b>X</b>	NO
---	------------------------	----

If yes complete specialist details:			
Name of the specialist:	J.H. van der Waals		
Qualification(s) of the specialist: Professional Registration	PhD Soil Science, Pri.Sci.Nat		
Postal address:	-		
Postal code:	-		
Telephone:	012 993 0969	Cell:	082 570 1297
E-mail:	johan@terrasoil.co.za	Fax:	086 274 6653
Are any further specialist studies recommended by the specialist?		YES	<b>NO</b> <b>X</b>
If YES, specify:			
If YES, is such a report(s) attached?		YES	NO
If YES list the specialist reports attached below			
Signature of specialist:		Date:	April 2014

Name of the specialist:	Sam Laurence, Luke Verburgt, Lukas Niemand		
Qualification(s) of the specialist: Professional Registration	BSc Conservation Biology, BSc Marine Science, BSc Zoology, BSc Honours Zoology, BSc Honours Wildlife Management, MSc (C) Wildlife Management, MSc Zoology: Registered as a professional scientist for Zoology and Ecology (Pri. Sci. Nat)		
Postal address:	46 The Woods, Kent Street, Meyerspark		
Postal code:	0184		
Telephone:		Cell:	0724371742
E-mail:	info@enviro-insight.co.za	Fax:	
Are any further specialist studies recommended by the specialist?		YES	<b>NO</b> <b>X</b>
If YES, specify:			
If YES, is such a report(s) attached?		YES	NO
If YES list the specialist reports attached below			
Signature of specialist:		Date:	April 2014

**Please note:** If more than one specialist was consulted to assist with the filling in of this section then this table must be appropriately duplicated

### 8. LAND USE CHARACTER OF SURROUNDING AREA

Using the associated number of the relevant current land use or prominent feature from the table below, fill in the position of these land-uses in the vacant blocks below which represent a 500m radius around the site

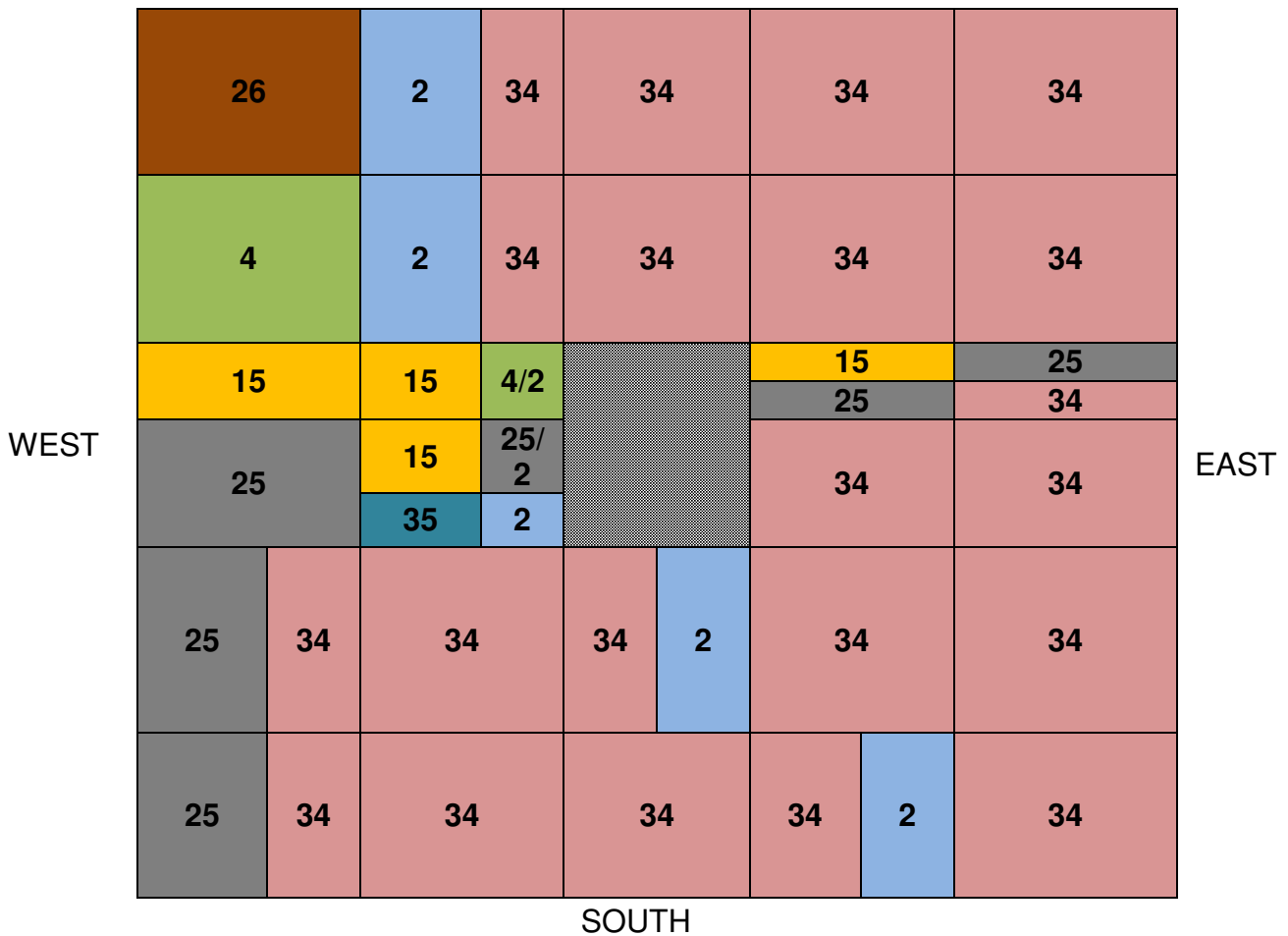
1. Vacant land	<b>2. River, stream, wetland</b>	3. Nature conservation area	<b>4. Public open space</b>	5. Koppie or ridge
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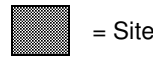
**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

6. Dam or reservoir	7. Agriculture	8. Low density residential	9. Medium to high density residential	10. Informal residential
11. Old age home	12. Retail	13. Offices	14. Commercial & warehousing	<b>15. Light industrial</b>
16. Heavy industrial <sup>AN</sup>	17. Hospitality facility	18. Church	19. Education facilities	20. Sport facilities
21. Golf course/polo fields	22. Airport <sup>N</sup>	23. Train station or shunting yard <sup>N</sup>	24. Railway line <sup>N</sup>	<b>25. Major road (4 lanes or more)<sup>N</sup></b>
<b>26. Sewage treatment plant<sup>A</sup></b>	27. Landfill or waste treatment site <sup>A</sup>	28. Historical building	29. Graveyard	30. Archeological site
31. Open cast mine	32. Underground mine	33. Spoil heap or slimes dam <sup>A</sup>	<b>34. Agricultural Holdings</b>	<b>35. Substation</b>
Other land uses (describe):				

**NORTH**



**NOTE: Each block represents an area of 250m X250m**



**Note:** More than one (1) Land-use may be indicated in a block

**Please note:** The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies. Specialist reports that look at health & air quality and noise impacts may be required for any feature above and in particular those features marked with an "A" and with an "N" respectively.

Have specialist reports been attached

YES	<b>NO</b> <b>X</b>
-----	-----------------------

If yes indicate the type of reports below

<b>N/A</b>
------------

**9. SOCIO-ECONOMIC CONTEXT**

Describe the existing social and economic characteristics of the area and the community condition as baseline information to assess the potential social, economic and community impacts.

The application site (pipeline alignment) is surrounded by Industrial developments to the West and Residential (agricultural holdings) developments to the East of the proposed sewer pipeline. This pipeline will originate in the south at Poole Avenue along the 1:100 year floodline to the north of the Sunderland Ridge Industrial area. Approximately at the 1km interval of the pipeline it will traverse the R55 (Voortrekker Street).

The Raslouw Extension 15 Township development has been approved and this development together with many other developments in the area makes it necessary to upgrade the existing municipal water and sewage networks. Without the proposed upgradings, the existing municipal services networks will not have the capacity to accommodate new developments.

The development aims to upgrade the sewage system by installing/upgrading the required external sewage pipelines. The surrounding local community as well as the tenants and occupants of the new developments will benefit from the installation of such new and upgraded services. The rates and taxes payable to the involved local authority for such new services holds significant financial advantages to the local authority and this financial benefits will eventually make it possible for the local authority to fulfil in the social needs of the communities within the Tshwane area.

This development can be of economic and social importance to the surrounding community and the area as a whole thereby increasing the economic base of the Municipality. Some temporary jobs will be created during the construction phase.

**10. CULTURAL/HISTORICAL FEATURES**

Please be advised that if section 38 of the National Heritage Resources Act 25 of 1999 is applicable to your proposal or alternatives, then you are requested to furnish this Department with written comment from the South African Heritage Resource Agency (SAHRA) – Attach comment in appropriate annexure

38. (1) Subject to the provisions of subsections (7), (8) and (9), any person who intends to undertake a development categorised as-
- (a) the construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;
  - (b) the construction of a bridge or similar structure exceeding 50m in length;
  - (c) any development or other activity which will change the character of a site-
    - (i) exceeding 5 000 m2 in extent; or
    - (ii) involving three or more existing erven or subdivisions thereof; or
    - (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or
    - (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;
  - (d) the re-zoning of a site exceeding 10 000 m2 in extent; or
  - (e) any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development.

Are there any signs of culturally (aesthetic, social, spiritual, environmental) or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including archaeological or palaeontological sites, on or close (within 20m) to the site?

YES	NO X
-----	---------

If YES, explain:

If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist if one was already appointed:

According to Archaetnos Archaeologists and Heritage Consultants and Leonie Marais - Botes Heritage Practitioner the study area formerly consisted of agricultural holdings, but the majority of the greater study area can now be described as an industrial area (Sunderland Ridge).

The linear site earmarked for the proposed sewer line is not situated in an area with great historical significance, although there is a couple of building structures older than 60 years in the surrounding area. These buildings older than 60 years are not within the area earmarked for the proposed alignment. Such structures are located more that 700m from the site. No buildings of historical value will be demolished for the proposed pipeline.

In most parts of the study area there is infrastructure and other developments which have already altered the landscape from its natural form. The study area does not comprise of any spiritual, scientific, historical, aesthetic, or social value.

According to Archaetnos Archaeologists and Heritage Consultants and Leonie Marais - Botes Heritage Practitioner the study does not contain any surface archaeological deposits, possibly due to the large scale alteration of the original landscape. However, there is a possibility of sub-surface findings and should be taken into consideration in the EMP. Should any sub-surface archaeological material be discovered, construction work must be

discontinued and a heritage practitioner (preferably an archaeologist) must be contacted to assess the find and make recommendations.

Furthermore, it was established that the site does not contain any marked graves. The possibility of graves not visible to the human eye always exists and this should also be taken into consideration in the compilation of the EMP. Should any sub-surface graves be discovered work should be ceased and a professional (preferably an archaeologist) must be contacted to assess the age of the grave/graves and advice on the way forward.

Some of the structures in the surrounding area were identified to be older than 60 years, should any of these structures be earmarked for demolition, a demolition permit must be obtained from the Provincial Heritage Authority of Gauteng (PHRAG). According to the specialist, there are no visible restrictions or negative impacts in terms of heritage associated with the site other than the structures older than 60 years. In terms of heritage this project can proceed.

If construction takes place and 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.

Will any building or structure older than 60 years be affected in any way?

Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

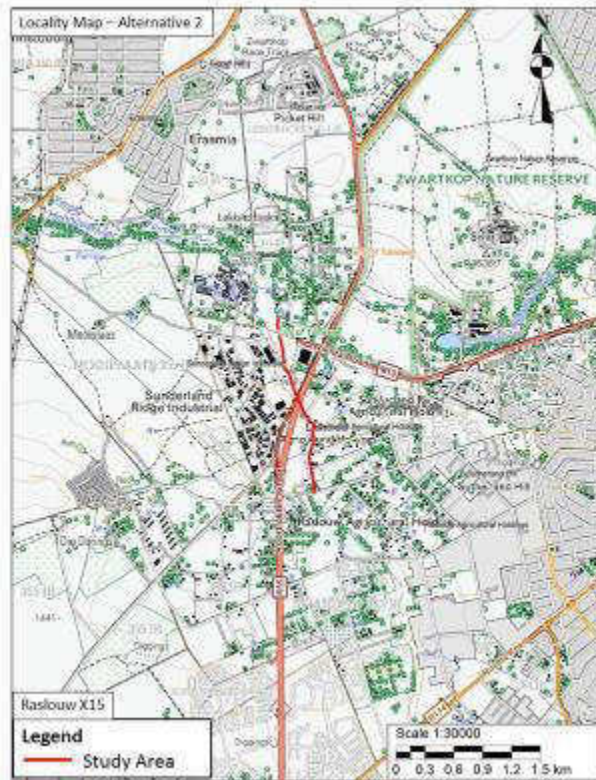
If yes, please attached the comments from SAHRA in the appropriate Appendix

YES	<b>NO</b> <b>X</b>
YES	<b>NO</b> <b>X</b>

Section B – Location/route Alternative No.

**Alternative 2**

(complete only when appropriate for above)



**Figure 16: Locality Map for Alternative 2**



**Figure 17: Aerial Map for Alternative 2**

**11. PROPERTY DESCRIPTION**

Property description:

- The following farms/ properties will be affected:
- Portion 1, Portion 2 and the Remainder of Holding 1 of Deltoidia Agricultural Holdings;
  - Holding 4 of Deltoidia Agricultural Holdings;
  - Remainder of Holding 122, Raslow Agricultural Holdings;
  - R55 – K71; and
  - Portion 124, 166, 165, 164, 163, 607, 606, 446, 412 and 168 of the Farm Swartkop 356 JR.

(Farm name, portion etc.)

**12. ACTIVITY POSITION**

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in decimal degrees. The degrees should have at least six decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

**Alternative:**

<b>Latitude (S):</b>	<b>Longitude (E):</b>

**In the case of linear activities:**

**Alternative:**

- Starting point of the activity
- Middle point of the activity
- End point of the activity

<b>Latitude (S):</b>	<b>Longitude (E):</b>

For route alternatives that are longer than 500m, please provide co-ordinates taken every 250 meters along the route and attached in the appropriate Appendix

Addendum of route alternatives attached

**Please refer to Appendix D**

**13. GRADIENT OF THE SITE**

Indicate the general gradient of the site.

Flat	<b>1:50 – 1:20</b>	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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**14. LOCATION IN LANDSCAPE**

Indicate the landform(s) that best describes the site.

Ridgeline	Plateau	Side slope of hill/ridge	Valley	<b>Plain</b>	<b>Undulating plain/low hills</b>	River front
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**15. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE**

**REFER TO APPENDIX I: FIGURE 18 AND 19**

b) Is the site located on any of the following?  
Shallow water table (less than 1.5m deep)

Dolomite, sinkhole or doline areas

Seasonally wet soils (often close to water bodies)

Unstable rocky slopes or steep slopes with loose soil

Dispersive soils (soils that dissolve in water)

<b>YES X</b>	NO
<b>YES X</b>	NO
YES	<b>NO X</b>
YES	<b>NO X</b>
YES	<b>NO X</b>

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

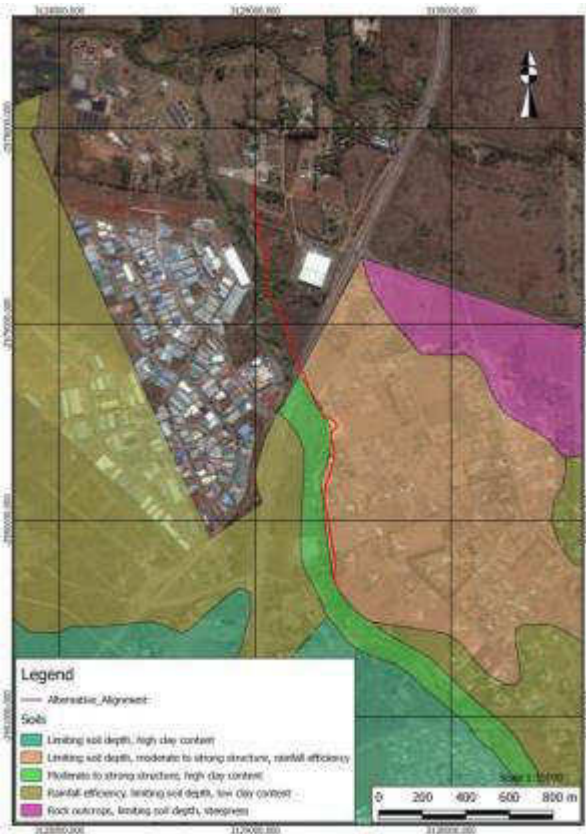
Soils with high clay content (clay fraction more than 40%)

YES	<b>NO</b> Adjacent to an area with high clay content
YES	<b>NO</b> X
YES	<b>NO</b> X

Any other unstable soil or geological feature

An area sensitive to erosion

(Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).



**Figure 18 – Alternative 2 Soils**



**Figure 19 – Alternative 2 Dolomite**

b) are any caves located on the site(s)

YES	<b>NO</b> X
-----	----------------

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

**Latitude (S):**  **Longitude (E):**

c) are any caves located within a 300m radius of the site(s)

YES	<b>NO</b> X
-----	----------------

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

**Latitude (S):**  **Longitude (E):**

d) are any sinkholes located within a 300m radius of the site(s)

YES	<b>NO</b>
-----	-----------

	<b>X</b>
--	----------

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

<b>Latitude (S):</b>	<b>Longitude (E):</b>
----------------------	-----------------------

If any of the answers to the above are "YES" or "unsure", specialist input may be requested by the Department

The proposed pipeline is partly situated on dolomite and precautionary measures will need to be implemented during the construction phase. The Environmental Management Plan (EMP) will include mitigation/management measures for the dolomitic areas.

**16. AGRICULTURE**

**REFER TO APPENDIX I: FIGURE 20**



**Figure 20 – Alternative 2 Agricultural Potential**

Does the site have high potential agricultural soils as contemplated in the Gauteng Agricultural Potential Atlas (GAPA)?

<b>YES</b>	NO
<b>X</b>	

**Please note:** The Department may request specialist input/studies depending on the nature of the soil type and location of the site

**Implications for the development**

No Agricultural Potential Study was conducted for the proposed development due to the following:



- The proposed development site under application is situated next to an industrial area, with no landowners/ tenants practicing agricultural activities;
- The proposed application is linear and thus too small for economic viable agricultural activities;
- The application site is situated within an area underline by the dolomitic conditions, and extensive irrigation of such soils is not supported;
- The Agricultural Potential of the proposed application site according to GAPA version 3 indicates a High Agricultural Potential as well as low Agricultural potential;
- The proposed development sites are located within the Gauteng urban Edge (2010), and not located within any of the seven Agriculture Hubs identified for the Gauteng Province. (Please refer to figure 9 – Urban Edge Map)

**17. GROUNDCOVER**

To be noted that the location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Indicate the types of groundcover present on the site and include the estimated percentage found on site

Natural veld - good condition % =	Natural veld with scattered aliens <b>% = 10</b>	Natural veld with heavy alien infestation % =	Veld dominated by alien species <b>% = 40</b>	Landscaped (vegetation) % = <b>25</b>
Sport field % =	Cultivated land % =	Paved surface (hard landscaping) <b>% = 5</b>	Building or other structure <b>% = 20</b>	Bare soil % =

**Please note:** The Department may request specialist input/studies depending on the nature of the groundcover and potential impact(s) of the proposed activity/ies.

Are there any rare or endangered flora or fauna species (including red list species) present on the site

YES	<b>NO X</b>
-----	-----------------

If YES, specify and explain:

A wetland/water course identification and delineation study was conducted by Terra Soil Science for the sewer line. According to the specialist, the proposed sewer line is situated in an area comprising mainly of dolomite. Chert with shale and quartzite also occurs in the general area.

The topography of the site and stream channel is relatively flat to undulating. The topography of the site contributes to water accumulation areas and water flow paths.

The proposed sewer line is planned to mainly be aligned along the contours that is 5m or more above the water level of the Rietspruit and the sewer line will be between 15 and 130m away from the channel.

The transition from the terrestrial area outside the drainage line into the drainage line is characterized by a steep slope, in most of the areas. Significant amounts of human impacts in the form of developments (residential, light commercial), roads and fences, occur within the proposed sewer pipeline alignment and surrounding areas. In a number of places, the banks of the Rietspruit have been altered due to a variety of construction and earth moving activities.

The soils of the site are exclusively rocky Hutton (orthic A horizon / red apedal B horizon / unspecified material – usually hard or weathering rock) forms up to the immediate drainage channel. The materials that have been deposited in the drainage channel are characterized to be predominantly of granitic origin, which is mainly coarse grained quartz particles with occasional primary minerals derive from granite. These materials have been transported up to 4km downstream. Consequently, this indicates severe erosion and sedimentation within the area.

According to Terra Soil Science there is no other wetland features on the banks or along the sewer line transect apart from the Rietspruit drainage feature. These findings are based on vegetation and soil characteristics. It is important to note that the vegetation component consists mainly of exotic plant species that have colonized the banks of the Spruit. This will be the result of the highly altered nature of the channel banks, edges and deposition zones, mainly due to the human impact.

A buffer is not included in the wetland delineation as the drainage feature has been impacted severely by human activities. The proposed sewer line transect is outside of the delineated wetland/riparian zone for its entire length.



**Figure 21 – Alternative 2 Rivers**

An Ecological Assessment was conducted by Enviro-Insight for the sewer pipeline and surrounding environment. The study area falls within the Carletonville Dolomite Grassland. The area is surrounded by ecological support areas as well as important areas according to the GDARD Conservation Plan (V3.3) from GIS data. However, on the site it is rather disturbed and transformed with existing roads, garden areas, security walls, security fencing, houses and associated infrastructure as well as some rubble dumping. Exotic plant species also has an impact on the proposed study area at present.

Three habitat units have been identified along the pipeline and surrounding areas. Firstly there is a transformed unit, which is the majority of the proposed area, which includes housing, boundary fences, rock dumps and roads. No red data fauna and flora species were identified or are expected to occur due to the high level of transformation. The drainage line was also identified as a unit and it was found to be largely disturbed with indigenous plant species as well as alien plant species. No red data species have been or are expected to be identified due to disturbance. The third habitat unit is a semi-

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

natural terrestrial vegetated area with high clay content and a number of indigenous tree, grass and forb species.

Please note that the Alternative Alignment (Alternative 2) will run within the 1:100 year floodline area and this area also incorporates more riparian vegetation and possible habitats for fauna species.

Are there any rare or endangered flora or fauna species (including red list species) present within a 200m (if within urban edge, May 2002) or within 600m (if outside the urban edge, May 2002) radius of the site	<b>YES</b>	<b>NO</b> <b>X</b>
---	------------	-----------------------

If YES, specify and explain:

Are there any special or sensitive habitats or other natural features present on the site?	<b>YES</b> <b>X</b>	NO
--	------------------------	----

If YES, specify and explain:

The drainage line to the west of the alternative sewer pipeline can be seen as a natural feature, and this alignment runs along the 1:100 year floodline.

Was a specialist consulted to assist with completing this section	<b>YES</b> <b>X</b>	NO
---	------------------------	----

If yes complete specialist details:

Name of the specialist:	J.H. van der Waals		
Qualification(s) of the specialist: Professional Registration	PhD Soil Science, Pri.Sci.Nat		
Postal address:	-		
Postal code:	-		
Telephone:	012 993 0969	Cell:	082 570 1297
E-mail:	johan@terrasoil.co.za	Fax:	086 274 6653
Are any further specialist studies recommended by the specialist?	YES	<b>NO</b> <b>X</b>	
If YES, specify:			
If YES, is such a report(s) attached?	YES	NO	
If YES list the specialist reports attached below			
Signature of specialist:		Date:	April 2014

Name of the specialist:	Sam Laurence Luke Verburgt Lukas Niemand		
Qualification(s) of the specialist: Professional Registration	BSc Conservation Biology, BSc Marine Science, BSc Zoology, BSc Honours Zoology, BSc Honours Wildlife Management, MSc (C) Wildlife Management, MSc Zoology: Registered as a professional scientist for Zoology and Ecology (Pri. Sci. Nat)		
Postal address:	46 The Woods, Kent Street, Meyerspark		
Postal code:	0184		
Telephone:		Cell:	0724371742
E-mail:	info@enviro-insight.co.za	Fax:	

## BASIC ASSESSMENT REPORT [REGULATION 22(1)]

Are any further specialist studies recommended by the specialist?		YES	<b>NO</b> <b>X</b>
If YES, specify:			
If YES, is such a report(s) attached?		YES	NO
If YES list the specialist reports attached below			
Signature of specialist:		Date:	April 2014

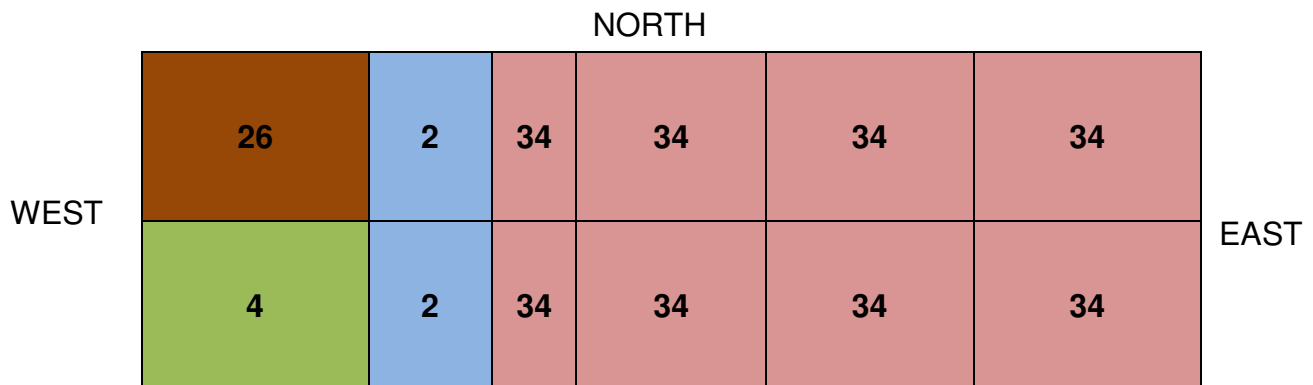
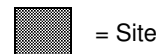
**Please note;** If more than one specialist was consulted to assist with the filling in of this section then this table must be appropriately duplicated

### 18. LAND USE CHARACTER OF SURROUNDING AREA

Using the associated number of the relevant current land use or prominent feature from the table below, fill in the position of these land-uses in the vacant blocks below which represent a 500m radius around the site

1. Vacant land	<b>2. River, stream, wetland</b>	3. Nature conservation area	<b>4. Public open space</b>	5. Koppie or ridge
6. Dam or reservoir	7. Agriculture	8. Low density residential	9. Medium to high density residential	10. Informal residential
11. Old age home	12. Retail	13. Offices	14. Commercial & warehousing	<b>15. Light industrial</b>
16. Heavy industrial <sup>AN</sup>	17. Hospitality facility	18. Church	19. Education facilities	20. Sport facilities
21. Golf course/polo fields	22. Airport <sup>N</sup>	23. Train station or shunting yard <sup>N</sup>	24. Railway line <sup>N</sup>	<b>25. Major road (4 lanes or more)<sup>N</sup></b>
<b>26. Sewage treatment plant<sup>A</sup></b>	27. Landfill or waste treatment site <sup>A</sup>	28. Historical building	29. Graveyard	30. Archeological site
31. Open cast mine	32. Underground mine	33. Spoil heap or slimes dam <sup>A</sup>	<b>34. Agricultural Holdings</b>	<b>35. Substation</b>
Other land uses (describe):				

**NOTE: Each block represents an area of 250m X250m**



15		15	4/2			15	25
25		15	25/2			25	34
		35	2			34	34
25	34	34		34	2	34	34
25	34	34		34	34	2	34

SOUTH

**Note:** More than one (1) Land-use may be indicated in a block

**Please note:** The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies. Specialist reports that look at health & air quality and noise impacts may be required for any feature above and in particular those features marked with an "A" and with an "N" respectively.

Have specialist reports been attached

YES	<b>NO</b> <b>X</b>
-----	-----------------------

If yes indicate the type of reports below

N/A
-----

**19. SOCIO-ECONOMIC CONTEXT**

Describe the existing social and economic characteristics of the area and the community condition as baseline information to assess the potential social, economic and community impacts.

The application site (pipeline alignment) is surrounded by Industrial developments to the West and Residential (agricultural holdings) developments to the East of the proposed sewer pipeline. This pipeline will originate in south at Poole Avenue along the 1:100 year floodline to the north of the Sunderland Ridge Industrial area. Approximately at the 1km interval of the pipeline it will traverse the R55 (Voortrekker Street).

The Raslouw Extension 15 Township development has been approved and this development together with many other developments in the area makes it necessary to upgrade the existing municipal water and sewage networks. Without the proposed upgradings, the existing municipal services networks

will not have the capacity to accommodate new developments.

The development aims to upgrade the sewage system by installing/upgrading the required external sewage pipelines. The surrounding local community as well as the tenants and occupants of the new developments will benefit from the installation of such new and upgraded services. The rates and taxes payable to the involved local authority for such new services holds significant financial advantages to the local authority and this financial benefits will eventually make it possible for the local authority to fulfil in the social needs of the communities within the Tshwane area.

This development can be of economic importance to the surrounding community and the area as a whole thereby increasing the economic base of the Municipality. The proposed development will contribute by means of job opportunities during construction phase for construction related workers (skilled, semi-skilled and un-skilled individuals).

**20. CULTURAL/HISTORICAL FEATURES**

Please be advised that if section 38 of the National Heritage Resources Act 25 of 1999 is applicable to your proposal or alternatives, then you are requested to furnish this Department with written comment from the South African Heritage Resource Agency (SAHRA) – Attach comment in appropriate annexure

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- (b) the construction of a bridge or similar structure exceeding 50m in length;*
- (c) any development or other activity which will change the character of a site-*
  - (i) exceeding 5 000 m2 in extent; or*
  - (ii) involving three or more existing erven or subdivisions thereof; or*
  - (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or*
  - (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;*
- (d) the re-zoning of a site exceeding 10 000 m2 in extent; or*
- (e) any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development.*

Are there any signs of culturally (aesthetic, social, spiritual, environmental) or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including archaeological or palaeontological sites, on or close (within 20m) to the site?

YES	<b>NO</b> <b>X</b>
-----	-----------------------

If YES, explain:

If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist if one was already appointed:

According to Archætnos Archaeologists and Heritage Consultants and Leonie Marais - Botes Heritage Practitioner the study area previously mainly consisted of agricultural holdings. Majority of the greater study area can now be described as an industrial area (Sunderland Ridge). The site where the

proposed sewer line will be developed is not situated in an area with great historical significance, although there is a couple of building structures older than 60 years in the surrounding area. These buildings older than 60 years are not within the alignment, it is further than 700m from the site. No buildings of historical value will be demolished for the pipeline.

In most parts of the study area there is infrastructure and other developments which have been altered the landscape from its natural form. The study area does not comprise of any spiritual, scientific, historical, aesthetic, or social value.

According to Archaetnos Archaeologists and Heritage Consultants and Leonie Marais - Botes Heritage Practitioner the study does not contain any surface archaeological deposits, possibly due to the large scale alteration of the original landscape. However, there is a possibility of sub-surface findings and should be taken into consideration in the EMP. Should any sub-surface archaeological material be discovered, construction work must be discontinued and a heritage practitioner (preferably an archaeologist) must be contacted to assess the find and make recommendations.

Furthermore, it was established that the site does not contain any marked graves. The possibility of graves not visible to the human eye always exists and this should also be taken into consideration in the compilation of the EMP. Should any sub-surface graves be discovered work should be ceased and a professional (preferably an archaeologist) must be contacted to assess the age of the grave/graves and advice on the way forward.

Some of the structures in the surrounding area were identified to be older than 60 years, should any of these structures be earmarked for demolition, a demolition permit must be obtained from the Provincial Heritage Authority of Gauteng (PHRAG). According to the specialist, there are no visible restrictions or negative impacts in terms of heritage associated with the site other than the structures older than 60 years. In terms of heritage this project can proceed.

If construction takes place and 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.

Will any building or structure older than 60 years be affected in any way?

Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

If yes, please attached the comments from SAHRA in the appropriate Appendix

YES	<b>NO</b> <b>X</b>
YES	<b>NO</b> <b>X</b>



## SECTION C: PUBLIC PARTICIPATION

The Public Participation Process for the proposed Raslow x 15 sewer pipeline was conducted when only Alternative 2 (the alternative with the higher social, hydrological and ecological impacts) was the only alternative on the table. The preferred alternative (Alternative 1), which now has lower ecological, hydrological and social impacts, actually evolved from Alternative 2.

Alternative is regarded as a mere improvement for the proposed alignment. Take note that only 3 additional portions of land were affected by the preferred alternative (Alternative 1) and the affected land-owners were notified of the proposed alignment via Registered mail. Only Amka (a pharmaceutical company in Sunderland Ridge) registered after they received the notice via registered mail. Amka did not object to the proposed line, but they however mentioned that they are also applying for a sewer line along one of their property boundaries and they just wanted to confirm that there will be no conflict between the lines and that all lines will remain within the servitude.

In addition to the three (3) newly affected land-owners that were notified of the proposed alignment change from the Alternative 2 alignment to the Alternative 1 alignment, we also notified all the registered I&APs of the Alternative alignment that will be more environmental friendly than the original alignment.

### 1. ADVERTISEMENT

The Environmental Assessment Practitioner must follow any relevant guidelines adopted by the competent authority in respect of public participation and must at least –

- 1(a) Fix a notice in a conspicuous place, on the property where it is intended to undertake the activity which states that an application will be submitted to the competent authority in terms of these regulations and which provides information on the proposed nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations on the application may be made.
- 1(b) inform landowners and occupiers of adjacent land of the applicant's intention to submit an application to the competent authority
- 1(c) inform landowners and occupiers of land within 100 metres of the boundary of the property where it is proposed to undertake the activity and whom may be directly affected by the proposed activity of the applicant's intention to submit an application to the competent authority;
- 1(d) inform the ward councillor and any organisation that represents the community in the area of the applicant's intention to submit an application to the competent authority;
- 1(e) inform the municipality which has jurisdiction over the area in which the proposed activity will be undertaken of the applicant's intention to submit an application to the competent authority; and
- 1(f) inform any organ of state that may have jurisdiction over any aspect of the activity of the applicant's intention to submit an application to the competent authority; and
- 1(g) place a notice in one local newspaper and any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of these regulations.

**2. LOCAL AUTHORITY PARTICIPATION**

Local authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least 30 (thirty) calendar days before the submission of the application.

Has any comment been received from the local authority?

YES	NO
X	

If "YES", briefly describe the comment below (also attach any correspondence to and from the local authority to this application):

If "NO" briefly explain why no comments have been received

The Draft Basic Assessment Report was submitted to the City of Tshwane Metropolitan Municipality on 9 September 2014. Comments on the Draft Basic Assessment Report were signed by the City of Tshwane on 21 October 2014 but only sent to Bokamoso on 13 November 2014. **Please refer to Appendix E for the Comments and Issues Register.**

**3. CONSULTATION WITH OTHER STAKEHOLDERS**

Any stakeholder that has a direct interest in the site or property, such as servitude holders and service providers, should be informed of the application at least 30 (thirty) calendar days before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

YES	NO
	X

If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

If "NO" briefly explain why no comments have been received

The Draft Basic Assessment Report was submitted to the Department of Water Affairs (DWA) on 9 September 2014. No comments on the Draft Basic Assessment Report were received by the Department. There was correspondence between DWA and Bokamoso to confirm the date when the review period ends and when comments need to be submitted. Review period was extended for DWA until 14 November 2014 and still no comments were supplied to our office. **Please refer to Appendix E for the Comments and Issues Register and correspondence with DWA.**

**4. GENERAL PUBLIC PARTICIPATION REQUIREMENTS**

The Environmental Assessment Practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees and ratepayers associations. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

The practitioner must record all comments and respond to each comment of the public / interested and affected party before the application is submitted. The comments and responses must be captured in a Comments and Responses Report as prescribed in the regulations and be attached to this application.

### **5. APPENDICES FOR PUBLIC PARTICIPATION**

All public participation information is to be attached in the appropriate Appendix. The information in this Appendix is to be ordered as detailed below

Appendix 1 – Proof of site notice

Appendix 2 – written notices issued to those persons detailed in 1(b) to 1(f) above

Appendix 3 – Proof of newspaper advertisements

Appendix 4 – Communications to and from persons detailed in Point 2 and 3 above

Appendix 5 – minutes of any public and or stakeholder meetings

Appendix 6 - Comments and Responses Report

Appendix 7 –Comments from I&APs on Basic Assessment (BA) Report

Appendix 8 –Comments from I&APs on amendments to the BA report

Appendix 9 – Copy of the register of I&APs

Appendix 10 – Comments from I&APs on the application

Appendix 11 - Other

# SECTION D: RESOURCE USE AND PROCESS DETAILS

**Note:** Section D is to be completed for the proposal

## Instructions for completion of Section D for alternatives

- 1) For each alternative under investigation, where such alternatives will have different resource and process details (e.g. technology alternative), the entire Section D needs to be completed
- 4) Each alternative needs to be clearly indicated in the box below
- 5) Attach the above documents in a chronological order

Section D has been duplicated for alternatives  times  
(complete only when appropriate)

Section D Alternative No.  (complete only when appropriate for above)

## 1. WASTE, EFFLUENT, AND EMISSION MANAGEMENT

### Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?

<b>YES</b>	NO
<b>X</b>	
Not Available	

If yes, what estimated quantity will be produced per month?

How will the construction solid waste be disposed of (describe)?

During the construction phase the disposal of solid waste will be the responsibility of the developer. An area on the application site will be earmarked for dumping of solid waste to be disposed of during construction. This area must be situated carefully not to be visual from the surrounding residents. The demarcated area must be easily accessible for dumping trucks to collect waste. The waste will be carted to registered landfill site.

Where will the construction solid waste be disposed of (describe)?

All construction solid waste will be disposed of at the nearest registered dumping site. No solid waste will be dumped on surrounding open areas or adjacent properties.

Will the activity produce solid waste during its operational phase?

YES	<b>NO</b>
	<b>X</b>
Not applicable	

If yes, what estimated quantity will be produced per month?

How will the solid waste be disposed of (describe)?

Not applicable

Has the municipality or relevant service provider confirmed that sufficient air space exists for treating/disposing of the solid waste to be generated by this activity? Not applicable

YES	NO

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

Not applicable

**Note:** If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

YES	<b>NO</b>
	<b>X</b>

If yes, inform the competent authority and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility?

YES	<b>NO</b>

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	<b>X</b>
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If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Describe the measures, if any, that will be taken to ensure the optimal reuse or recycling of materials:

It is recommended that all construction waste materials be sorted into recyclable materials and non-recyclable materials and the recyclable materials should be re-used or disposed of by a recycling company.

**Liquid effluent (other than domestic sewage)**

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

	<b>NO</b> <b>X</b>
--	-----------------------

If yes, what estimated quantity will be produced per month?

Not Applicable	
----------------	--

If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the liquid effluent to be generated by this activity(ies)?

Not Applicable	
----------------	--

Will the activity produce any effluent that will be treated and/or disposed of on site?

	<b>NO</b> <b>X</b>
--	-----------------------

If yes, what estimated quantity will be produced per month?

Not Applicable	
----------------	--

If yes describe the nature of the effluent and how it will be disposed.

Not Applicable

Note that if effluent is to be treated or disposed on site the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA

Will the activity produce effluent that will be treated and/or disposed of at another facility?

	<b>NO</b> <b>X</b>
--	-----------------------

If yes, provide the particulars of the facility:

Facility name:			
Contact person:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

Not Applicable

**Liquid effluent (domestic sewage)**

Will the activity produce domestic effluent that will be disposed of in a municipal sewage system?

	<b>NO</b> <b>X</b>
--	-----------------------

If yes, what estimated quantity will be produced per month?

Not applicable	
----------------	--

If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the domestic effluent to be generated by this activity(ies)?

	<b>NO</b> <b>N/A</b>
--	-------------------------

Will the activity produce any effluent that will be treated and/or disposed of on site?

	<b>NO</b> <b>X</b>
--	-----------------------

If yes describe how it will be treated and disposed off.

Not Applicable

**Emissions into the atmosphere**

Will the activity release emissions into the atmosphere?

	<b>NO</b> <b>X</b>
--	-----------------------

If yes, is it controlled by any legislation of any sphere of government?

Not Applicable	
----------------	--

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the emissions in terms of type and concentration:

The proposed development will not generate any emissions. Some additional vehicle/ truck traffic during the construction phase may have an influence

but this can be regarded as insignificant.

**2. WATER USE**

Indicate the source(s) of water that will be used for the activity

Municipal	Directly from water board	groundwater	river, stream, dam or lake	other	the activity will not use water during the operational phase as it is a sewer pipeline
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

Not Applicable

If Yes, please attach proof of assurance of water supply, e.g. yield of borehole, in the appropriate Appendix

Does the activity require a water use permit from the Department of Water Affairs and Forestry?

There is a possibility, DWS must still confirm. Bokamoso already entered into discussions with DWS regarding the needs to compile and submit Section 21 (c) and (i) license applications.	NO
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If yes, list the permits required

In terms of the Section 21 of the National Water Act, the developer will most probably need a water use license for activities (c) and (i) for the proposed sewer line, because the proposed pipeline will run within 500m from a watercourse.

If yes, have you applied for the water use permit(s)?

NO

If yes, have you received approval(s)? (attached in appropriate appendix)

Not Applicable

**3. POWER SUPPLY**

Please indicate the source of power supply eg. Municipality / Eskom / Renewable energy source

Not applicable

If power supply is not available, where will power be sourced from?

Not applicable

**4. ENERGY EFFICIENCY**

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

Not applicable

## BASIC ASSESSMENT REPORT [REGULATION 22(1)]

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Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

Not applicable

## SECTION E: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2006, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

### 1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summarise the issues raised by interested and affected parties.

The public participation for the Raslouw x 15 sewer pipeline was done in order to ensure that all Interested and Affected Parties register.

The proposed project was advertised in the Beeld news paper on Friday, 28 February 2014 (**Refer to Appendix Ei – Proof of Newspaper advertisement**). Site notices were also erected at prominent points adjacent to the application site on 27 February 2014. (**Refer to Appendix Eii – Proof of Site Notice**). Furthermore flyers were also distributed to residents, land owners, tenants and stakeholders in the surrounding area (**Refer to Appendix Eiii – Written Notices**).

It is the opinion of Bokamoso that the Public participation was extensive and transparent enough to ensure any comments or issues in regards to the proposed development to be addressed and to suggest possible mitigation measures.

**Please note!** The public participation process conducted in February 2014 was for the initial alignment that is running along the 1:100 year floodline. After the public participation process was conducted, the appointed engineers re-aligned the proposed pipeline in order to move the pipeline further away from the riparian zone and to prevent the pipeline from crossing buildings or structures, thus it is aligned more on property boundary fences.

From an environmental point of view, this is an improved and more viable alignment as the environmental impact will be less than with the initial alignment. All landowners on the new preferred alignment were notified and all registered Interested and Affected Parties on the project was notified of the changes on the preferred alignment, as already mentioned earlier in this report.

Summary of response from the practitioner to the issues raised by the interested and affected parties  
(A full response must be provided in the Comments and Response Report that must be attached to this report):

Please refer to Appendix E (iv) for the Comments and Issues Register.



## 2. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION AND OPERATIONAL PHASE

Briefly describe the methodology utilised in the rating of significance of impacts

The beneficial and adverse impacts of the proposed development have been discussed below.

The impacts are rated based on consideration of the following:

### A). Significance:

- |                          |                    |   |  |
|--------------------------|--------------------|---|--|
| <input type="checkbox"/> | Improbable         | - | Low possibility of impact to occur either because of design or historic experience.      |
| <input type="checkbox"/> | Probable           | - | Distinct possibility that impact will occur.   |
| <input type="checkbox"/> | Highly probability | - | Most likely that impact will occur.  |
| <input type="checkbox"/> | Definite           | - | Impact will occur, in the case of adverse impacts regardless of any prevention measures. |

### B). Intensity factor:

- |                          |                  |   |   |
|--------------------------|------------------|---|---|
| <input type="checkbox"/> | Low intensity    | - | natural and man made functions not affected   |
| <input type="checkbox"/> | Medium intensity | - | environment affected but natural and man made functions and processes continue  |
| <input type="checkbox"/> | High intensity   | - | environment affected to the extent that natural or man made functions are altered to the extent that it will temporarily or permanently cease |

### C). Duration:

- |                          |             |   |   |
|--------------------------|-------------|---|---|
| <input type="checkbox"/> | Short term  | - | <1 to 5 years - Factor 2  |
| <input type="checkbox"/> | Medium term | - | 5 to 15 years - Factor 3  |
| <input type="checkbox"/> | Long term   | - | impact will only cease after the operational life of the activity, either because of natural process or by human intervention |
| <input type="checkbox"/> | Permanent   | - | mitigation, either by natural process or by human intervention, will not occur in such a way or in such a time span           |

## BASIC ASSESSMENT REPORT [REGULATION 22(1)]

that the impact can be considered transient.

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the construction phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

### Alternative 1 (Proposal)

Potential impacts:	Significance rating of impacts:	Proposed mitigation:	Significance rating of impacts after mitigation:
<b>CONSTRUCTION PHASE</b>			
<b>Beneficial Impacts</b>			
<b>Institutional Environment</b>			
The proposed development will be in line with the current and proposed developments in the vicinity.	<b>High</b>	Not applicable	<b>High</b>
<b>Fauna &amp; Flora</b>			
Eradication of invasive species.	<b>Medium</b>	Eradication of invasive species during the construction phase would benefit the biophysical environment. Not necessary to mitigate.	<b>Medium</b>
<b>Social &amp; Economic Environment</b>			
Creation of Job opportunities.	<b>Medium</b>	The proposed development would create job opportunities during the construction phase. Should the local community not benefit from these opportunities, it could lead to an influx of people from other areas. Only employing people from the local community could mitigate the potential adverse impact.	<b>Medium</b>
<b>Services</b>			
Upgrading of existing services and the construction of new services.	<b>High</b>	The establishment of new services (sewer pipeline) will be essential to support the proposed development of Raslouw x 15 and other future developments.	<b>High</b>
<b>Adverse Impacts</b>			
<b>Flora &amp; Fauna</b>			
<p>Construction works will cause the eradication of existing vegetation –</p> <p>Site clearance forms part of any project of this scale. Large areas of exposed soil will cause erosion and dust pollution. Due to the already extensive disturbance within the study area by human activity, large bare soil areas are visible and can create opportunity for extensive erosion on site.</p>	<b>Low</b>	<ul style="list-style-type: none"> <li>The project should be planned to ensure that only specific areas are cleared as the project progress to ensure that large areas are not exposed over long periods;</li> <li>Before the removal of vegetation takes place, the area to be cleared must be clearly marked;</li> <li>Strip topsoil at start of works and store in stockpiles no more than 1.5 m high in designated storage areas. The topsoil should contain the natural grass component as the seeds may help with the re-vegetation of the site during rehabilitation;</li> <li>As many of the large indigenous tree specimens must be retained on the alignment during construction.</li> </ul>	<b>None</b>

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

		<p>The trees to be retained must be marked and may not be disturbed during the construction activities;</p> <ul style="list-style-type: none"> <li>• Environmental damage caused by trenches may be kept to a minimum by forward planning and thereby reducing the actual time interval that trenches are kept open and may kill some mammals;</li> <li>• The contractor must ensure that no fauna species are trapped, hunted or killed during the construction phase.</li> </ul>	
Possible spreading of invaders into the natural surrounding areas.	<b>Low</b>	No plants, not indigenous to the area, or exotic plant species should be introduced into the rehabilitation of the proposed pipeline.	<b>None</b>
Uncontrolled fires may cause damage and loss to vegetation and fauna in the area.	<b>Low</b>	If fires are required for cooking and heating purposes, these fires will only be permitted in designated areas on site.	<b>None</b>
<b>Geology &amp; Soils</b>			
<p>Soil erosion due to drainage systems –</p> <p>During the construction phase temporary measures should be implemented to manage storm water and water flow on the application site. If the storm water and water flow is not regulated and managed on site it could cause significant erosion of soil, as well as the pollution and siltation of the river running to the west of the pipeline.</p>	<b>Low</b>	<ul style="list-style-type: none"> <li>• Only the identified areas should be cleared of vegetation. This should be done in stages as construction works progress along the pipeline;</li> <li>• Implement temporary storm water management measures that will help to reduce the speed of the water. Sandbags can be placed between the pipeline and the river to assist with the prevention of water pollution, erosion and siltation;</li> <li>• If excavations or foundations fill up with storm water, these areas should immediately be drained and measures to prevent further water from entering the excavations should be implemented.</li> </ul>	<b>None</b>
If not planned and managed correctly topsoil will be lost.	<b>Medium</b>	<ul style="list-style-type: none"> <li>• A shake down area at the exits of the construction site should be established where the excessive soil on the tires of the construction vehicles can be brushed off and kept aside for later use during rehabilitation works;</li> <li>• The areas where topsoil will not be removed and which will be conserved during the construction phase should be marked with barrier tape to ensure that vehicles do not move across these areas, and construction activities does not damage the in-situ topsoil</li> <li>• The removed topsoil should be stored separately from all stockpiled materials and subsoil, according to the stockpiling methods as described below. The stockpiled topsoil should be used for rehabilitation and landscaping purposes after</li> </ul>	<b>Low</b>

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

		<p>construction has been completed;</p> <ul style="list-style-type: none"> <li>The installation of services could leave soils exposed and susceptible to erosion. Soils should be stored adjacent to the excavated trenches that are excavated to install services, and this should be filled up with the in-situ material as the services are installed. All stones and rocks bigger than 80 mm should be removed from the top layer of soil and these disturbed areas should be re-vegetated immediately after works in a specific area are completed to prevent erosion;</li> <li>Excavations on site must be kept to minimum and done only one section at a time. Excavated soils must be stockpiled directly on the demarcated area on site.</li> </ul>	
Excavation is not kept dry.	<b>Medium</b>	Construction works and bulk earth works which involve the construction of excavations must be proposed for the dryer season,	<b>Low</b>
Incorrect construction could increase the possibility of doline and sinkhole formation due to the underlying dolomitic conditions of the area.	<b>High</b>	<p>Due to the underlying dolomitic conditions it is important that the following be adhered to:</p> <ul style="list-style-type: none"> <li>Damming and ponding of water should be prevented;</li> <li>The standard precautionary measures for developing on dolomite should be adhered to. The wet services engineer must ensure that very strict precautionary measures and design and construction practices are implemented during any construction and/ or earth works on site;</li> <li>Structures should adhere to the NHBRC standards and norms;</li> <li>Trees should not be planted in close proximity to water bearing services. This will prevent the roots to penetrate the wet services which could cause water leakage;</li> <li>All wet services should be regular inspected to prevent leaking pipes.</li> </ul>	<b>Low</b>
<b>Climate</b>			
Construction during the rainy season can cause delays and damage to the environment.	<b>Low</b>	<ul style="list-style-type: none"> <li>It is recommended that the construction phase be scheduled for the winter months especially activities such as the installation of services, foundations, excavations and road construction;</li> <li>It is also recommended that the precautionary measures be taken in order to prevent the extensive loss of soil during rainstorms. Large exposed areas should adequately be</li> </ul>	<b>None</b>

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

		<p>protected against erosion by matting or cladding;</p> <ul style="list-style-type: none"> <li>Measures should be implemented during the rainy season to channel storm water away from open excavations and foundations.</li> </ul>	
Construction during the dry and windy season could cause excessive dust pollution during construction works.	<b>Low</b>	Regular and effective damping down 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. When necessary, these working areas should be damped down at least twice a day.	<b>None</b>
<b>Hydrology &amp; groundwater</b>			
Excavated materials that are stockpiled in wrong areas can interfere with the natural drainage.	<b>Low</b>	An area must be allocated for stockpiling of topsoil before any construction take place on the application site. The stockpiles must be situated away from any water source or drainage channel. A sediment fence or barrier must be constructed around the stockpile, to prevent soil from washing away by rain or any water.	<b>Low</b>
<b>Cultural and Archaeology</b>			
Occurrence of cultural historical assets on the proposed development site.	<b>None</b>	If archeological sites are exposed during construction work, it should immediately be reported to a museum, preferably on at which an archaeologist are available so that an investigation and evaluation of the site can be made.	<b>None</b>
<b>Localized Vibration</b>			
The noise created by earthmoving machinery will result in the greatest increase in ambient levels. This will be short term, being generated only during the day.	<b>Medium</b>	All construction activities must be restricted during normal working hours from 8:00 in the morning to no later than 18:00 in the afternoons. No construction may take place on Sundays and public holidays.	<b>Low</b>
<b>Air pollution</b>			
Nuisance to neighbours in terms of dust generation due to construction during the dry and windy season.	<b>Low</b>	The application site must be damped at a regular basis with water (more or less 3 to 4 times on a dry day). A water tanker should be used, if possible.	<b>Low</b>
<b>Roads and Traffic</b>			
Heavy vehicle traffic increase could disrupt the surrounding landowners' daily routines.	<b>Low</b>	Heavy vehicles must be instructed to only use the main roads during off-peak hours.	<b>Low</b>
Restrictions of access to surrounding properties and the study area during construction phases.	<b>Medium</b>	<ul style="list-style-type: none"> <li>To minimize the impacts or risks, heavy construction vehicles should avoid using the local road network during peak traffic times.</li> <li>These vehicles should use only specific roads and strictly keep within the speed limits and abide to all traffic laws. No speeding or reckless driving should be allowed. Access to the site for construction vehicles should be planned to minimize the impact on the surrounding network; and</li> <li>Warning signs should be erected on the roads that these vehicles will use, at big crossings/ access roads and on the site if needed.</li> </ul>	<b>Low</b>
Damage to roads.	<b>Medium</b>	Specific roads must be allocated for the	<b>Low</b>

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

		use by construction vehicles.	
<b>Safety and Security</b>			
During the construction phase safety and security problems (especially for the surrounding residents) are likely to occur.	<b>Medium</b>	Construction must be completed in as short time as possible. No construction worker or relative may reside on the application site during the construction phase. All construction workers must leave the site at the end of a day's work. A security guard should be appointed on site to prevent any security problems.	<b>Low</b>
Construction activities could cause danger to children and animals of the surrounding residents.	<b>Low</b>	<ul style="list-style-type: none"> <li>• Although regarded as a normal practice, it is important to erect proper signs indicating the operation of heavy vehicles in the vicinity of dangerous crossings and access roads or even with in the development site, if necessary;</li> <li>• It is also important to indicate all areas where excavations took place/ are taking place and warning signs that clearly indicate areas with excavations must be placed immediately adjacent to excavations;</li> <li>• A barrier should be established around dangerous excavation areas;</li> <li>• With the exception of appointed security personnel, no other worker, friend or relatives will be allowed to sleep on the construction site (weekends included), in the public open space or on adjacent properties; and</li> <li>• No worker should be allowed to enter adjacent private properties without written consent of the legal owners to the contractor.</li> </ul>	<b>None</b>
<b>Disruption of Services</b>			
Services to surrounding properties can be temporarily disrupted during the installation of the pipeline.	<b>Low</b>	Surrounding properties should be informed of disruption of services at least 48 hours in advance.	<b>Low</b>
<b>Visual Impact</b>			
Dumping of builder's rubble on neighbouring properties.	<b>Medium</b>	A specific location for building rubble must be allocated on site, to concentrate and collect the building rubble and cart it to a certified landfill site. The allocated area must be out of sight of neighbouring properties to have a less visual impact.	<b>Low</b>
Stockpile areas for construction materials.	<b>Medium</b>	An area on the site must be allocated for the stockpiling of construction materials. The area must be situated on the application site, and must be situated to have a minimal visual impact on the neighbouring area.	<b>Low</b>
Veld fires may cause damage to infrastructure, vegetation and neighbouring properties.	<b>Low</b>	A specific area on site must be allocated, which will have the least impact on the environment and surrounding landowners, for fires of construction workers. This allocated area must be far from any structures and no fires may be lit except in the designated location.	<b>Low</b>
The construction vehicles, the site	<b>Medium</b>	Before any construction commence on	<b>Low</b>

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camp and other construction related facilities will have a negative visual impact during the construction phase.		site, an area on site must be demarcated for a site camp.	
<b>Waste Management</b>			
Site office, camp and associated waste (visual, air and soil pollution)	<b>Medium</b>	<ul style="list-style-type: none"> <li>• Temporary waste storage points on site shall be determined. These storage points shall be accessible by waste removal trucks;</li> <li>• These points should not be located in areas highly visible from the properties of the surrounding landowners/ tenants/ in areas where the wind direction will carry bad odours across the properties of adjacent tenants or landowners;</li> <li>• The site camp and the rest of the study area should appear neat at all times;</li> <li>• Waste materials should be removed from the site on a regular basis, to a registered dumping site; and</li> <li>• The site camp should not be located in a highly visual area on the study area, or a screen or barrier should be erected as not have a negative impact on the sense of place.</li> </ul>	<b>Low</b>
Disposal of building waste & liquids	<b>Medium</b>	<ul style="list-style-type: none"> <li>• All the waste generated by the proposed developments must be dumped at a preselected area on site to be carted to a register landfill site;</li> <li>• THESE AREAS SHALL BE PREDETERMINED AND LOCATED IN AREAS THAT ARE ALREADY DISTURBED.;</li> <li>• Small lightweight waste items should be contained in skips with lids to prevent wind littering;</li> <li>• All waste must be removed to a recognized waste disposal site/ landfill site on a weekly basis. No waste materials may be disposed of on or adjacent to the site;</li> <li>• The storage of solid waste on site, until such time that it may be disposed of, must be in the manner acceptable to the local authority; and</li> <li>• Keep records of waste reuse, recycling and disposal for future reference.</li> </ul>	<b>Low</b>
<b>OPERATIONAL PHASE</b>			
<b>Beneficial Impacts</b>			
<b>Social &amp; Economic Environment</b>			
Increase in surrounding property values	<b>High</b>	The availability of sanitation services will increase the property values of areas such as Raslouw x 15.	<b>High</b>
<b>Adverse Impacts</b>			

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<b>Hydrology</b>			
Leaking pipes could cause ground water pollution risks.	<b>Low</b>	Pipes should be inspected on a regular basis.	<b>None</b>
<b>Fauna and Flora</b>			
Invasive and exotic plant species growing within the servitude of the proposed sewer line.	<b>High</b>	Any post-development re-vegetation or landscaping exercise should use species indigenous to South Africa. As far as possible indigenous plants naturally growing along the proposed alignment but would be otherwise destroyed during the construction should be used for re-vegetation/ landscaping purposes.	<b>Low</b>

**Alternative 2**

<b>Potential impacts:</b>	<b>Significance rating of impacts:</b>	<b>Proposed mitigation:</b>	<b>Significance rating of impacts after mitigation:</b>
<b>CONSTRUCTION PHASE</b>			
<b>Beneficial Impacts</b>			
<b>Institutional Environment</b>			
The proposed development will be in line with the current and proposed developments in the vicinity.	<b>High</b>	Not applicable	<b>High</b>
<b>Fauna &amp; Flora</b>			
Eradication of invasive species.	<b>Medium</b>	Eradication of invasive species during the construction phase would benefit the biophysical environment. Not necessary to mitigate.	<b>Medium</b>
<b>Social &amp; Economic Environment</b>			
Creation of Job opportunities.	<b>Medium</b>	The proposed development would create job opportunities during the construction phase. Should the local community not benefit from these opportunities, it could lead to an influx of people from other areas. Only employing people from the local community could mitigate the potential adverse impact.	<b>Medium</b>
<b>Services</b>			
Upgrading of existing services and the construction of new services.	<b>High</b>	The establishment of new services (sewer pipeline) will be essential to support the proposed development of Raslouw x 15 and other future developments.	<b>High</b>
<b>Adverse Impacts</b>			
<b>Flora &amp; Fauna</b>			
Construction works will cause the eradication of existing vegetation –  Site clearance forms part of any project of this scale. Large areas of exposed soil will cause erosion and dust pollution. Due to the already extensive disturbance within the study area by human activity, large bare soil areas are visible and can create opportunity for extensive erosion on site.	<b>Medium</b>	<ul style="list-style-type: none"> <li>The project should be planned to ensure that only specific areas are cleared as the project progress to ensure that large areas are not exposed over long periods;</li> <li>Before the removal of vegetation takes place, the area to be cleared must be clearly marked;</li> <li>Strip topsoil at start of works and store in stockpiles no more than 1.5 m high in designated storage areas. The topsoil should contain the natural</li> </ul>	<b>Low</b>



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		<p>grass component as the seeds may help with the re-vegetation of the site during rehabilitation;</p> <ul style="list-style-type: none"> <li>As many of the large indigenous tree specimens must be retained on the alignment during construction. The trees to be retained must be marked and may not be disturbed during the construction activities;</li> <li>Environmental damage caused by trenches may be kept to a minimum by forward planning and thereby reducing the actual time interval that trenches are kept open and may kill some mammals;</li> <li>The contractor must ensure that no fauna species are trapped, hunted or killed during the construction phase.</li> </ul>	
Possible spreading of invaders into the natural surrounding areas.	<b>Low</b>	No plants, not indigenous to the area, or exotic plant species should be introduced into the rehabilitation of the proposed pipeline.	<b>None</b>
Uncontrolled fires may cause damage and loss to vegetation and fauna in the area.	<b>Low</b>	If fires are required for cooking and heating purposes, these fires will only be permitted in designated areas on site.	<b>None</b>
<b>Geology &amp; Soils</b>			
<p>Soil erosion due to drainage systems –</p> <p>During the construction phase temporary measures should be implemented to manage storm water and water flow on the application site. If the storm water and water flow is not regulated and managed on site it could cause significant erosion of soil, as well as the pollution and siltation of the river running to the west of the pipeline.</p>	<b>Medium</b>	<ul style="list-style-type: none"> <li>Only the identified areas should be cleared of vegetation. This should be done in stages as construction works progress along the pipeline;</li> <li>Implement temporary storm water management measures that will help to reduce the speed of the water. Sandbags can be placed between the pipeline and the river to assist with the prevention of water pollution, erosion and siltation;</li> <li>If excavations or foundations fill up with storm water, these areas should immediately be drained and measures to prevent further water from entering the excavations should be implemented.</li> </ul>	<b>Low</b>
If not planned and managed correctly topsoil will be lost.	<b>Medium</b>	<ul style="list-style-type: none"> <li>A shake down area at the exits of the construction site should be established where the excessive soil on the tires of the construction vehicles can be brushed off and kept aside for later use during rehabilitation works;</li> <li>The areas where topsoil will not be removed and which will be conserved during the construction phase should be marked with barrier tape to ensure that vehicles do not move across these areas, and construction activities does not damage the in-situ topsoil</li> <li>The removed topsoil should be</li> </ul>	<b>Low</b>

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		<p>stored separately from all stockpiled materials and subsoil, according to the stockpiling methods as described below. The stockpiled topsoil should be used for rehabilitation and landscaping purposes after construction has been completed;</p> <ul style="list-style-type: none"> <li>• The installation of services could leave soils exposed and susceptible to erosion. Soils should be stored adjacent to the excavated trenches that are excavated to install services, and this should be filled up with the in-situ material as the services are installed. All stones and rocks bigger than 80 mm should be removed from the top layer of soil and these disturbed areas should be re-vegetated immediately after works in a specific area are completed to prevent erosion;</li> <li>• Excavations on site must be kept to minimum and done only one section at a time. Excavated soils must be stockpiled directly on the demarcated area on site.</li> </ul>	
Excavation is not kept dry.	<b>Medium</b>	Construction works and bulk earth works which involve the construction of excavations must be proposed for the dryer season,	<b>Low</b>
Incorrect construction could increase the possibility of doline and sinkhole formation due to the underlying dolomitic conditions of the area.	<b>High</b>	<p>Due to the underlying dolomitic conditions it is important that the following be adhered to:</p> <ul style="list-style-type: none"> <li>• Damming and ponding of water should be prevented;</li> <li>• The standard precautionary measures for developing on dolomite should be adhered to. The wet services engineer must ensure that very strict precautionary measures and design and construction practices are implemented during any construction and/ or earth works on site;</li> <li>• Structures should adhere to the NHBRC standards and norms;</li> <li>• Trees should not be planted in close proximity to water bearing services. This will prevent the roots to penetrate the wet services which could cause water leakage;</li> <li>• All wet services should be regular inspected to prevent leaking pipes.</li> </ul>	<b>Low</b>
<b>Climate</b>			
Construction during the rainy season can cause delays and damage to the environment.	<b>Low</b>	<ul style="list-style-type: none"> <li>• It is recommended that the construction phase be scheduled for the winter months especially activities such as the installation of services, foundations,</li> </ul>	<b>None</b>

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		<p>excavations and road construction;</p> <ul style="list-style-type: none"> <li>It is also recommended that the precautionary measures be taken in order to prevent the extensive loss of soil during rainstorms. Large exposed areas should adequately be protected against erosion by matting or cladding;</li> <li>Measures should be implemented during the rainy season to channel storm water away from open excavations and foundations.</li> </ul>	
Construction during the dry and windy season could cause excessive dust pollution during construction works.	<b>Low</b>	Regular and effective damping down 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. When necessary, these working areas should be damped down at least twice a day.	<b>None</b>
<b>Hydrology &amp; groundwater</b>			
Excavated materials that are stockpiled in wrong areas can interfere with the natural drainage.	<b>Medium</b>	An area must be allocated for stockpiling of topsoil before any construction take place on the application site. The stockpiles must be situated away from any water source or drainage channel. A sediment fence or barrier must be constructed around the stockpile, to prevent soil from washing away by rain or any water.	<b>Low</b>
<b>Cultural and Archaeology</b>			
Occurrence of cultural historical assets on the proposed development site.	<b>None</b>	If archeological sites are exposed during construction work, it should immediately be reported to a museum, preferably on at which an archaeologist are available so that an investigation and evaluation of the site can be made.	<b>None</b>
<b>Localized Vibration</b>			
The noise created by earthmoving machinery will result in the greatest increase in ambient levels. This will be short term, being generated only during the day.	<b>Medium</b>	All construction activities must be restricted during normal working hours from 8:00 in the morning to no later than 18:00 in the afternoons. No construction may take place on Sundays and public holidays.	<b>Low</b>
<b>Air pollution</b>			
Nuisance to neighbours in terms of dust generation due to construction during the dry and windy season.	<b>Low</b>	The application site must be damped at a regular basis with water (more or less 3 to 4 times on a dry day). A water tanker should be used, if possible.	<b>Low</b>
<b>Roads and Traffic</b>			
Heavy vehicle traffic increase could disrupt the surrounding landowners' daily routines.	<b>Low</b>	Heavy vehicles must be instructed to only use the main roads during off-peak hours.	<b>Low</b>
Restrictions of access to surrounding properties and the study area during construction phases.	<b>Medium</b>	<ul style="list-style-type: none"> <li>To minimize the impacts or risks, heavy construction vehicles should avoid using the local road network during peak traffic times.</li> <li>These vehicles should use only specific roads and strictly keep within the speed limits and abide to all traffic laws. No speeding or reckless driving should be allowed. Access to the site for construction vehicles should be planned to</li> </ul>	<b>Low</b>

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		<p>minimize the impact on the surrounding network; and</p> <ul style="list-style-type: none"> <li>Warning signs should be erected on the roads that these vehicles will use, at big crossings/ access roads and on the site if needed.</li> </ul>	
Damage to roads.	<b>Medium</b>	Specific roads must be allocated for the use by construction vehicles.	<b>Low</b>
<b>Safety and Security</b>			
During the construction phase safety and security problems (especially for the surrounding residents) are likely to occur.	<b>Medium</b>	Construction must be completed in as short time as possible. No construction worker or relative may reside on the application site during the construction phase. All construction workers must leave the site at the end of a day's work. A security guard should be appointed on site to prevent any security problems.	<b>Low</b>
Construction activities could cause danger to children and animals of the surrounding residents.	<b>Low</b>	<ul style="list-style-type: none"> <li>Although regarded as a normal practice, it is important to erect proper signs indicating the operation of heavy vehicles in the vicinity of dangerous crossings and access roads or even within the development site, if necessary;</li> <li>It is also important to indicate all areas where excavations took place/ are taking place and warning signs that clearly indicate areas with excavations must be placed immediately adjacent to excavations;</li> <li>A barrier should be established around dangerous excavation areas;</li> <li>With the exception of appointed security personnel, no other worker, friend or relatives will be allowed to sleep on the construction site (weekends included), in the public open space or on adjacent properties; and</li> <li>No worker should be allowed to enter adjacent private properties without written consent of the legal owners to the contractor.</li> </ul>	<b>None</b>
<b>Disruption of Services</b>			
Services to surrounding properties can be temporarily disrupted during the installation of the pipeline.	<b>Low</b>	Surrounding properties should be informed of disruption of services at least 48 hours in advance.	<b>Low</b>
<b>Visual Impact</b>			
Dumping of builder's rubble on neighbouring properties.	<b>Medium</b>	A specific location for building rubble must be allocated on site, to concentrate and collect the building rubble and cart it to a certified landfill site. The allocated area must be out of sight of neighbouring properties to have a less visual impact.	<b>Low</b>
Stockpile areas for construction materials.	<b>Medium</b>	An area on the site must be allocated for the stockpiling of construction materials. The area must be situated on the application site, and must be situated to have a minimal visual impact on the neighbouring area.	<b>Low</b>
Veld fires may cause damage to infrastructure, vegetation and	<b>Low</b>	A specific area on site must be allocated, which will have the least	<b>Low</b>

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neighbouring properties.		impact on the environment on the environment and surrounding landowners, for fires of construction workers. This allocated area must be far from any structures and no fires may be lit except in the designated location.	
The construction vehicles, the site camp and other construction related facilities will have a negative visual impact during the construction phase.	<b>Medium</b>	Before any construction commence on site, an area on site must be demarcated for a site camp.	<b>Low</b>
<b>Waste Management</b>			
Site office, camp and associated waste (visual, air and soil pollution)	<b>Medium</b>	<ul style="list-style-type: none"> <li>• Temporary waste storage points on site shall be determined. These storage points shall be accessible by waste removal trucks;</li> <li>• These points should not be located in areas highly visible from the properties of the surrounding landowners/ tenants/ in areas where the wind direction will carry bad odours across the properties of adjacent tenants or landowners;</li> <li>• The site camp and the rest of the study area should appear neat at all times;</li> <li>• Waste materials should be removed from the site on a regular basis, to a registered dumping site; and</li> <li>• The site camp should not be located in a highly visual area on the study area, or a screen or barrier should be erected as not have a negative impact on the sense of place.</li> </ul>	<b>Low</b>
Disposal of building waste & liquids	<b>Medium</b>	<ul style="list-style-type: none"> <li>• All the waste generated by the proposed developments must be dumped at a preselected area on site to be carted to a register landfill site;</li> <li>• THESE AREAS SHALL BE PREDETERMINED AND LOCATED IN AREAS THAT ARE ALREADY DISTURBED.;</li> <li>• Small lightweight waste items should be contained in skips with lids to prevent wind littering;</li> <li>• All waste must be removed to a recognized waste disposal site/ landfill site on a weekly basis. No waste materials may be disposed of on or adjacent to the site;</li> <li>• The storage of solid waste on site, until such time that it may be disposed of, must be in the manner acceptable to the local authority; and</li> <li>• Keep records of waste reuse, recycling and disposal for future reference.</li> </ul>	<b>Low</b>
<b>OPERATIONAL PHASE</b>			
<b>Beneficial Impacts</b>			

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Social & Economic Environment			
Increase in surrounding property values	High	The availability of sanitation services will increase the property values of areas such as Raslouw x 15.	High
Adverse Impacts			
Hydrology			
Leaking pipes could cause ground water pollution risks.	Low	Pipes should be inspected on a regular basis.	None
Fauna and Flora			
Invasive and exotic plant species growing within the servitude of the proposed sewer line.	High	Any post-development re-vegetation or landscaping exercise should use species indigenous to South Africa. As far as possible indigenous plants naturally growing along the alternative alignment but would be otherwise destroyed during the construction should be used for re-vegetation/ landscaping purposes.	Low

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

**Ecological Red Listed Species Assessment (Appendix G1)**

**Wetland Delineation Assessment (Appendix G2)**

### 3. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING AND CLOSURE PHASE

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the decommissioning and closure phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

#### **Alternative 1 (Proposal)**

Potential impacts:	Significance rating of impacts:	Proposed mitigation:	Significance rating of impacts after mitigation:
Geology & Soils			
Soil erosion, siltation and gully formation.	Low	Demolition works must be kept to a minimum on site and only be done one section at a time to prevent excessive open soil areas that could lead to soil erosion, siltation and excessive compaction.	Low
If not planned and managed correctly, topsoil will be lost.	Low	<ul style="list-style-type: none"> <li>▪ A shake down area at the exit of the site should be established where the excessive soil on the tires of vehicles can be brushed off and kept aside for later use during rehabilitation works;</li> <li>▪ The site should be planned before any decommissioning activities take place on site. The areas where soil will be compacted, heavy vehicle movement (on site construction routes), site camp, material storage areas and stockpiling areas should be marked out and the topsoil should be removed;</li> <li>▪ The areas where topsoil will not be removed and that will be conserved should be marked with barrier tape to ensure vehicles do not move across</li> </ul>	Low

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		<p>these areas and decommissioning activities do not damage the in situ topsoil;</p> <ul style="list-style-type: none"> <li>▪ The removed topsoil should be stored separately from all stockpiled materials and subsoil, according to the stockpiling methods as described below. The stockpiled topsoil should be used for rehabilitation purposes after decommissioning has been completed; and</li> <li>▪ Rehabilitation works must be done immediately after the involved works in an area is completed to prevent erosion.</li> </ul>	
Water seepage at shallow depth could cause instability of soil or water pollution.	<b>Medium</b>	Geotechnical and civil engineers must supply mitigation measures and guidelines to prevent problems.	<b>Low</b>
<b>Hydrology &amp; Groundwater</b>			
Vehicle maintenance.	<b>Medium</b>	Vehicle maintenance may not be done on the application site. Whenever a vehicle needs maintenance it must be taken to a certified workshop for the maintenance.	<b>None</b>
Excavated materials that are stockpiled in the wrong areas can interfere with the natural drainage.	<b>Medium</b>	An area must be allocated for stockpiling of topsoil before any demolishing of buildings take place on the site and must be situated from any water source or drainage channels. A sediment fence or barrier must be constructed around the stockpile to prevent soil from washing away by rain or any water.	<b>Low</b>
Surface water flows will be altered during the decommissioning phase.	<b>Low</b>	Due to the demolishing that will take place (there will be trenches, topsoil and subsoil mounds in and around the area), the topography of the site will temporarily be altered.	<b>Low</b>
<b>Climate</b>			
Demolition works during the rainy season can cause unnecessary delays and damage to the environment, especially damage to existing roads in the area.	<b>Low</b>	Should decommissioning take place in the wetter months, frequent rain could cause very wet conditions, which makes it extremely difficult to do the necessary rehabilitation works of disturbed areas. Wet soils are vulnerable to compaction. Wet conditions often causes delays and the draining of water away from the works (in the case of high water tables) into the water bodies of the adjacent properties, could (if not planned and managed correctly) have an impact on the water quality of these water bodies.	<b>Low</b>
Demolition works during the dry and windy season.	<b>Low</b>	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. When necessary, these working areas should be damped down at least twice daily.	<b>None</b>
<b>Fauna &amp; Flora</b>			
Uncontrolled fires may cause damage or loss to vegetation and fauna in the area.	<b>Medium</b>	If fires are required for cooking and heating purposes, these fires will only be permitted in designated	<b>None</b>

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		areas on the site. The fire area should be an exposed area (no natural veld grass should be in close proximity of the fire area). Workers should only be allowed to smoke in the fire area and fires should preferably be prevented while strong winds are blowing.	
Uncontrolled activities and access to sensitive areas in the vicinity.	<b>Medium</b>	<ul style="list-style-type: none"> <li>▪ Dumping of building rubble and other waste on these areas is strictly prohibited; and</li> <li>▪ No vehicles must be allowed to move in or across the sensitive areas. This leaves visible scars and destroys habitat.</li> </ul>	<b>Low</b>
<b>Visual Impact</b>			
Dumping of builder's rubble on neighbouring properties.	<b>Medium</b>	A specific location for building rubble must be allocated on site, to concentrate and collect the building rubble and cart it to a certified landfill site. The allocated area must be out of sight of neighbouring properties to have a less visual impact.	<b>None</b>
<b>Localised Vibrations</b>			
Noise pollution.	<b>Medium</b>	The activities related with the decommissioning phase will generate noise. Therefore, it must be restricted during working hours.	<b>Low</b>
<b>Roads &amp; Traffic</b>			
Heavy vehicle traffic increase could disrupt the surrounding landowners' daily routines.	<b>Medium</b>	Heavy vehicles must be instructed to only use the main roads during off-peak hours.	<b>Low</b>
Restrictions of access to surrounding properties.	<b>Low</b>	<ul style="list-style-type: none"> <li>▪ To minimize this impacts or risks, heavy vehicles (trucks, bull dowers, etc.) should avoid using the local road network during peak traffic times;</li> <li>▪ These vehicles should use only specific roads and strictly keep within the speed limits and abide to all traffic laws. No speeding or reckless driving should be allowed. Access to the site for heavy vehicles should be planned to minimize the impact on the surrounding network; and</li> <li>▪ Warning signs should be erected on the roads that these vehicles will use, at big crossings/access roads and on the site if needed.</li> </ul>	<b>None</b>
Damage to roads.	<b>Medium</b>	Specific roads must be allocated for the use by heavy vehicles and photos must be taken prior to decommissioning in order to determine if any damage has been done.	<b>None</b>
<b>Safety &amp; Security</b>			
During the decommissioning phase safety and security problems (especially for the surrounding residents) are likely to occur.	<b>Low</b>	Demolition works must be completed in as short time as possible. No worker or relative may reside on the site. All workers must leave the site at the end of a day's work. A security guard should be appointed on site to prevent any security problems.	<b>Low</b>
Decommissioning activities could cause danger to children and animals of the surrounding residents.	<b>Medium</b>	<ul style="list-style-type: none"> <li>▪ Although regarded as a normal practice, it is important to erect proper signs indicating the</li> </ul>	<b>Low</b>



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		<p>operations of heavy vehicles in the vicinity of dangerous crossings and access roads or even on the site if necessary;</p> <ul style="list-style-type: none"> <li>▪ It is also important to indicate all areas where excavations took place/are taking place and warning signs that clearly indicate areas with excavations must be placed immediately adjacent to excavations;</li> <li>▪ A barrier should be established around dangerous excavation areas;</li> <li>▪ With the exception of the appointed security personnel, no other workers, friend or relatives will be allowed to sleep on the site (weekends included), in the public open space or on adjacent properties; and</li> <li>▪ No workers should be allowed to enter adjacent private properties without written consent of the legal owners to the contractor.</li> </ul>	
<b>Waste Management</b>			
<p>Site office, camp and associated waste (visual, air and soil pollution)</p>	<b>Medium</b>	<ul style="list-style-type: none"> <li>▪ Temporary waste storage points on site shall be determined. These storage points shall be accessible by waste removal trucks;</li> <li>▪ These points should not be located in 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;</li> <li>▪ The site camp and the rest of the area should appear neat at all times;</li> <li>▪ Waste materials should be removed from the site on a regular basis, to a registered dumping site; and</li> <li>▪ The site camp should not be located in a highly visual area on the site, or a screen or barrier should be erected as not have a negative impact on the sense of place.</li> </ul>	<b>Low</b>
<p>Disposal of building waste &amp; liquids.</p>	<b>Medium</b>	<ul style="list-style-type: none"> <li>▪ All waste generated must be dumped at a pre-selected area on site to be carted to a registered landfill site. THESE AREAS SHALL BE PREDETERMINED;</li> <li>▪ Small lightweight waste items should be contained in skips with lids to prevent wind littering;</li> <li>▪ All waste must be removed to a recognized waste disposal site on a weekly basis. No waste materials may be disposed of on or adjacent to the site;</li> <li>▪ The storage of solid waste on site, until such time that it may be disposed of, must be in the manner acceptable to the Local Authority; and</li> </ul>	<b>Low</b>

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		<ul style="list-style-type: none"> <li>Keep records of waste reuse, recycling and disposal for future reference.</li> </ul>	
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**Alternative 2**

Potential impacts:	Significance rating of impacts:	Proposed mitigation:	Significance rating of impacts after mitigation:
<b>Geology &amp; Soils</b>			
Soil erosion, siltation and gully formation.	<b>Low</b>	Demolition works must be kept to a minimum on site and only be done one section at a time to prevent excessive open soil areas that could lead to soil erosion, siltation and excessive compaction.	<b>Low</b>
If not planned and managed correctly, topsoil will be lost.	<b>Low</b>	<ul style="list-style-type: none"> <li>A shake down area at the exit of the site should be established where the excessive soil on the tires of vehicles can be brushed off and kept aside for later use during rehabilitation works;</li> <li>The site should be planned before any decommissioning activities take place on site. The areas where soil will be compacted, heavy vehicle movement (on site construction routes), site camp, material storage areas and stockpiling areas should be marked out and the topsoil should be removed;</li> <li>The areas where topsoil will not be removed and that will be conserved should be marked with barrier tape to ensure vehicles do not move across these areas and decommissioning activities do not damage the in situ topsoil;</li> <li>The removed topsoil should be stored separately from all stockpiled materials and subsoil, according to the stockpiling methods as described below. The stockpiled topsoil should be used for rehabilitation purposes after decommissioning has been completed; and</li> <li>Rehabilitation works must be done immediately after the involved works in an area is completed to prevent erosion.</li> </ul>	<b>Low</b>
Water seepage at shallow depth could cause instability of soil or water pollution.	<b>Medium</b>	Geotechnical and civil engineers must supply mitigation measures and guidelines to prevent problems.	<b>Low</b>
<b>Hydrology &amp; Groundwater</b>			
Vehicle maintenance.	<b>Medium</b>	Vehicle maintenance may not be done on the application site. Whenever a vehicle needs maintenance it must be taken to a certified workshop for the maintenance.	<b>None</b>
Excavated materials that are stockpiled in the wrong areas can interfere with the natural drainage.	<b>Medium</b>	An area must be allocated for stockpiling of topsoil before any demolishing of buildings take place on the site and must be situated	<b>Low</b>

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

		from any water source or drainage channels. A sediment fence or barrier must be constructed around the stockpile to prevent soil from washing away by rain or any water.	
Surface water flows will be altered during the decommissioning phase.	<b>Low</b>	Due to the demolishing that will take place (there will be trenches, topsoil and subsoil mounds in and around the area), the topography of the site will temporarily be altered.	<b>Low</b>
<b>Climate</b>			
Demolition works during the rainy season can cause unnecessary delays and damage to the environment, especially damage to existing roads in the area.	<b>Low</b>	Should decommissioning take place in the wetter months, frequent rain could cause very wet conditions, which makes it extremely difficult to do the necessary rehabilitation works of disturbed areas. Wet soils are vulnerable to compaction. Wet conditions often causes delays and the draining of water away from the works (in the case of high water tables) into the water bodies of the adjacent properties, could (if not planned and managed correctly) have an impact on the water quality of these water bodies.	<b>Low</b>
Demolition works during the dry and windy season.	<b>Low</b>	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. When necessary, these working areas should be damped down at least twice daily.	<b>None</b>
<b>Fauna &amp; Flora</b>			
Uncontrolled fires may cause damage or loss to vegetation and fauna in the area.	<b>Medium</b>	If fires are required for cooking and heating purposes, these fires will only be permitted in designated areas on the site. The fire area should be an exposed area (no natural veld grass should be in close proximity of the fire area). Workers should only be allowed to smoke in the fire area and fires should preferably be prevented while strong winds are blowing.	<b>None</b>
Uncontrolled activities and access to sensitive areas in the vicinity.	<b>Medium</b>	<ul style="list-style-type: none"> <li>▪ Dumping of building rubble and other waste on these areas is strictly prohibited; and</li> <li>▪ No vehicles must be allowed to move in or across the sensitive areas. This leaves visible scars and destroys habitat.</li> </ul>	<b>Low</b>
<b>Visual Impact</b>			
Dumping of builder's rubble on neighbouring properties.	<b>Medium</b>	A specific location for building rubble must be allocated on site, to concentrate and collect the building rubble and cart it to a certified landfill site. The allocated area must be out of sight of neighbouring properties to have a less visual impact.	<b>None</b>
<b>Localised Vibrations</b>			
Noise pollution.	<b>Medium</b>	The activities related with the decommissioning phase will generate noise. Therefore, it must be restricted during working hours.	<b>Low</b>

**BASIC ASSESSMENT REPORT [REGULATION 22(1)]**

Roads & Traffic			
Heavy vehicle traffic increase could disrupt the surrounding landowners' daily routines.	<b>Medium</b>	Heavy vehicles must be instructed to only use the main roads during off-peak hours.	<b>Low</b>
Restrictions of access to surrounding properties.	<b>Low</b>	<ul style="list-style-type: none"> <li>▪ To minimize this impacts or risks, heavy vehicles (trucks, bull dowsers, etc.) should avoid using the local road network during peak traffic times;</li> <li>▪ These vehicles should use only specific roads and strictly keep within the speed limits and abide to all traffic laws. No speeding or reckless driving should be allowed. Access to the site for heavy vehicles should be planned to minimize the impact on the surrounding network; and</li> <li>▪ Warning signs should be erected on the roads that these vehicles will use, at big crossings/access roads and on the site if needed.</li> </ul>	<b>None</b>
Damage to roads.	<b>Medium</b>	Specific roads must be allocated for the use by heavy vehicles and photos must be taken prior to decommissioning in order to determine if any damage has been done.	<b>None</b>
Safety & Security			
During the decommissioning phase safety and security problems (especially for the surrounding residents) are likely to occur.	<b>Low</b>	Demolition works must be completed in as short time as possible. No worker or relative may reside on the site. All workers must leave the site at the end of a day's work. A security guard should be appointed on site to prevent any security problems.	<b>Low</b>
Decommissioning activities could cause danger to children and animals of the surrounding residents.	<b>Medium</b>	<ul style="list-style-type: none"> <li>▪ 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 on the site if necessary;</li> <li>▪ It is also important to indicate all areas where excavations took place/are taking place and warning signs that clearly indicate areas with excavations must be placed immediately adjacent to excavations;</li> <li>▪ A barrier should be established around dangerous excavation areas;</li> <li>▪ With the exception of the appointed security personnel, no other workers, friend or relatives will be allowed to sleep on the site (weekends included), in the public open space or on adjacent properties; and</li> <li>▪ No workers should be allowed to enter adjacent private properties without written consent of the legal owners to the contractor.</li> </ul>	<b>Low</b>
Waste Management			
Site office, camp and associated waste (visual, air and soil pollution)	<b>Medium</b>	<ul style="list-style-type: none"> <li>▪ Temporary waste storage points on site shall be determined. These storage points shall be accessible by waste removal</li> </ul>	<b>Low</b>

		<p>trucks;</p> <ul style="list-style-type: none"> <li>▪ These points should not be located in 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;</li> <li>▪ The site camp and the rest of the area should appear neat at all times;</li> <li>▪ Waste materials should be removed from the site on a regular basis, to a registered dumping site; and</li> <li>▪ The site camp should not be located in a highly visual area on the site, or a screen or barrier should be erected as not have a negative impact on the sense of place.</li> </ul>	
Disposal of building waste & liquids.	<b>Medium</b>	<ul style="list-style-type: none"> <li>▪ All waste generated must be dumped at a pre-selected area on site to be carted to a registered landfill site. THESE AREAS SHALL BE PREDETERMINED;</li> <li>▪ Small lightweight waste items should be contained in skips with lids to prevent wind littering;</li> <li>▪ All waste must be removed to a recognized waste disposal site on a weekly basis. No waste materials may be disposed of on or adjacent to the site;</li> <li>▪ The storage of solid waste on site, until such time that it may be disposed of, must be in the manner acceptable to the Local Authority; and</li> <li>▪ Keep records of waste reuse, recycling and disposal for future reference.</li> </ul>	<b>Low</b>

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

**N/A**

**4. CUMULATIVE IMPACTS**

Describe potential impacts that, on their own may not be significant, but is significant when added to the impact of other activities or existing impacts in the environment. Substantiate response:

Should the proposed sewer pipeline be approved, the majority of cumulative impacts will be related to the construction phase.

- Noise pollution may upset residents in the area – to prevent this, construction activities may only take place during the daytime and during working hours;
- Surface water flows will be altered during the construction phase of the proposed pipeline and therefore it will be necessary to implement temporary storm water management and erosion control and prevention measures during the construction phase;
- The construction vehicles and facilities will have a negative impact on

the study area and surrounding views – this impact may be minimized by locating the site camp in an area with low visibility from surrounding developments and road networks;

- Dust pollution could cause nuisance to surrounding residents – dust can be effectively controlled through the wetting of exposed surfaces, especially in the winter months;
- During the construction phase some safety problems (especially for the surrounding residents) are likely to occur – in order to minimise this, site workers are not to be allowed to sleep on the construction site at night and provision for adequate security/ site supervision must be made during the day;
- Loss of flora and fauna and potential invasion of exotic plant species.

Subsequently, the above mentioned cumulative impacts can be mitigated if activities are correctly planned and measures are implemented to manage activities which could cause any negative cumulative impacts.

## 5. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that sums up the impact that the proposal and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

### Alternative 1 (Proposal)

**The major impacts that is likely to occur during the construction and operational phase:**

#### ▪ **Biodiversity**

The environment will be temporarily affected by the moving of large construction vehicles and the excavations for the installation of the sewer pipeline. The river system might be impacted upon through erosion and sedimentation and the spreading of alien and invasive plant species. The preferred alignment runs to the east of the 1:100 year floodline of the river system (the river is situated to the west of the proposed sewer pipeline) for most parts.

#### ▪ **Geology and Soils**

Available information indicates that the application site is underlain by dolomite. There is some risk for sinkhole and doline formation on the application site. It is therefore very important that precautionary measures for the proposed pipeline on dolomite should be adhered to.

Valuable topsoil may also be lost during the construction process. The loss of topsoil can however be minimised through the storage of topsoil

in designated stockpiles on site and the re-use thereof within the landscape component of the development.

▪ **The Social Environment**

The public participation were done by means of a newspaper notice, site notices placed on prominent points on the application site, hand delivered notices to surrounding tenants and landowners and the distributing of notices to stakeholders such as the Local Authorities, Councillors by means of faxes and e-mails.

Dangerous excavations can cause injury/ even death to people if proper precautions are not taken. Crime can also impact the surrounding community from the temporary workers. Social importance, new human activity in the area.

Construction vehicles and equipment can be temporarily visually unpleasant for residents.

The proposed sewer pipeline will contribute to the bulk services of Raslow x 15 and other future developments in the area.

▪ **Economic Environment**

Installation of the proposed sewer pipeline will create a significant number of employment opportunities for skilled and un-skilled workers.

▪ **Noise**

The construction phase will cause noise pollution and disturb the receiving community, but can be mitigated with the limitation construction hours from 8:00 to 18:00 to cause minimal disturbance to the community.

▪ **Visual**

Construction vehicles and equipment can be visually unpleasant for residents.

**Alternative 2**

**The major impacts that is likely to occur during the construction and operational phase:**

▪ **Biodiversity**

The impacts of Alternative 2 on the hydrological and ecological environments will be more significant than the impacts of Alternative 1.

Alternative 2 will affect the flood line area and the riparian zone

associated with the river. Alignment 1 (the preferred alternative) was moved to the east in order to reduce/prevent such impacts.

The environment will be temporarily affected by the moving of large construction vehicles and the excavations for the installation of the sewer pipeline. The river system might be impacted upon through erosion and sedimentation and the spreading of alien and invasive plant species. This alternative alignment runs along the 1:100 year floodline for almost the entire pipeline which will lead to a much higher impact on the biodiversity than the Alternative 1 (preferred alignment).

▪ **Geology and Soils**

Available information indicates that the application site is underlain by dolomite. There is some risk for sinkhole and doline formation on the application site. It is therefore very important that precautionary measures for the proposed pipeline on dolomite should be adhered to.

Valuable topsoil may also be lost during the construction process. The loss of topsoil can however be minimised through the storage of topsoil in designated stockpiles on site and the re-use thereof within the landscape component of the development.

▪ **The Social Environment**

The public participation were done by means of a newspaper notice, site notices placed on prominent points on the application site, hand delivered notices to surrounding tenants and landowners and the distributing of notices to stakeholders such as the Local Authorities, Councillors by means of faxes and e-mails.

The social and economical impacts of this alignment are higher than the impacts of Alternative 1 (the preferred alternative). Alternative 2 (the original alignment alternative) cut unsympathetically across some properties and it also traversed some structures and features. The social impact of this alternative is thus regarded as higher than the social impact of Alternative 1, which has been re-aligned to follow (where possible) property boundaries.

Dangerous excavations can cause injury/ even death to people if proper precautions are not taken. Crime can also impact the surrounding community from the temporary workers. Social importance, new human activity in the area.

Construction vehicles and equipment can be temporarily visually unpleasant for residents.



The proposed sewer pipeline will contribute to the bulk services of Raslow x 15 and other future developments in the area.

▪ **Economic Environment**

Installation of the proposed sewer pipeline will create a significant number of employment opportunities for skilled and un-skilled workers.

▪ **Noise**

The construction phase will cause noise pollution and disturb the receiving community, but can be mitigated with the limitation construction hours from 8:00 to 18:00 to cause minimal disturbance to the community.

▪ **Visual**

Construction vehicles and equipment can be visually unpleasant for residents.

**No-go (compulsory)**

The no-go option entails that the development area stay in the current state and no sewer pipeline is installed.

If the no-go alternative is followed the proposed Raslow x 15 development and other future developments will not have access to sanitation services.

The proposed development will have no significant impact on the Bio-physical environment, as the area is already disturbed and transformed.

**6. IMPACT SUMMARY OF PREFERRED PROPOSAL**

Identify preferred proposal

**Alternative 1 (Proposal)**

Having assessed the significance of impacts of the proposal and various alternatives, please provide an overall summary and reasons for selecting the preferred project proposal.

It is evident that based on the biophysical and sociological characteristics, the site is suitable for the proposed development of a sewer pipeline (only if the project is planned and managed in accordance with an approved Environmental Management Plan (EMP)). The development will fit in with the surrounding area and create job opportunities during the constructional phase.

As already indicated, most of the construction related activities could be mitigated to acceptable levels. Furthermore, no detrimental ecological impacts are anticipated; in fact the construction activities of the proposed pipeline can lead to an improvement of the ecological conditions on the site as alien and invasive plant species will be eradicated and monitored.

The proposed development will create several job opportunities during the construction phase. No cultural/historically significant areas were identified within the proposed sewer pipeline servitude area and thus no areas of historical or cultural value will be affected.

If managed correctly, the proposed project could have a significant positive impact on the social and economical environments. The proposed development could also have a positive impact on the ecological environment (especially through the re-vegetation of the servitude and the removal of exotic invaders and weeds from this area).

In the long term the impact of the proposed development will be more positive than negative for the Bio-physical, Social and Economic environments:

#### Biophysical

- The exotic invaders and weeds will be removed from the servitude on a continuous basis;
- The area where plants need to be removed will be kept to a minimum;
- The proposed alignment is outside of the 1:100 year floodline for most parts.

#### Social

- Noise and dust problems during the construction phase;
- Dangerous excavations can cause injury to people in the surrounding environment.

#### Economic

- Creation of job opportunities during the construction phase;
- Potential for urban densification which facilitates a smaller ecological footprint of urban development.

The mitigations and adaptive monitoring outlined in this Basic Assessment and the EMP with respect to potential adverse impacts should result in limited adverse impacts on local and regional, natural and socio-economic resources. Balanced with the overall beneficial positive economic and environmental impacts identified, the potential net adverse effects attributable to the proposed development do not constitute a threat to local

and regional ecological resources and social systems. No "fatal flaws" or adverse impacts that cannot be mitigated are anticipated to be associated with the proposed residential development.

It is therefore requested that the pipeline (Alignment Alternative 1) be allowed to proceed, so long as the mitigation measures contained in this report and in the **Environmental Management Plan (EMP) (Appendix H)** are implemented, so as to achieve maximum advantage from beneficial impacts, and sufficient mitigation of adverse impacts. **The precautionary measures for development on dolomite (Attached as Appendix G4) must also be taken into consideration.**

**7. RECOMMENDATION OF PRACTITIONER**

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the Environmental Assessment Practitioner).

<b>YES</b> X	NO
-----------------	----

If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment):

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

As a result of the above mentioned information, Bokamoso request that the proposed pipeline (Alternative 1) be approved subject to the following conditions:

- All recommendations as part of the attached Fauna and Flora Habitat Assessment as well as the Wetland Delineation (Refer to Appendix G) must be adhered to;
- A Risk Management Plan should be submitted to the City of Tshwane and GDARD prior to construction. This should be made a condition of the Environmental Authorisation;
- Consent/support of all affected landowners need to be submitted to the City of Tshwane Metropolitan Municipality prior to the commencement of construction;
- The EMP attached must be adhered to at all times and the appointed ECO must ensure the developer comply with the EMP;
- A storm water management plan for the temporary management of storm water during the construction phase of the pipeline must be compiled and submitted to CTMM prior to commencement of

construction. This storm water management plan must also be attached as part of the EMP and the appointed ECO must ensure compliance with the temporary storm water management plan;

- The precautionary measures for development on dolomitic areas must also be applied during the design, construction and operational phases of the project. **Refer to Appendix G4 for Precautionary measures**

**8. ENVIRONMENTAL MANAGEMENT PLAN (EMP)**

If the EAP answers yes to Point 7 above then an EMP is to be attached to this report as an Appendix

EMP attached

YES  
X

## SECTION F: APPENDIXES

The following appendixes must be attached as appropriate:

It is required that if more than one item is enclosed that a table of contents is included in the appendix

Appendix A: Site plan(s)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Route position information

Appendix E: Public participation information

Appendix F: Water use license(s), SAHRA information, service letters from municipalities,  
water supply information

Appendix G: Specialist reports

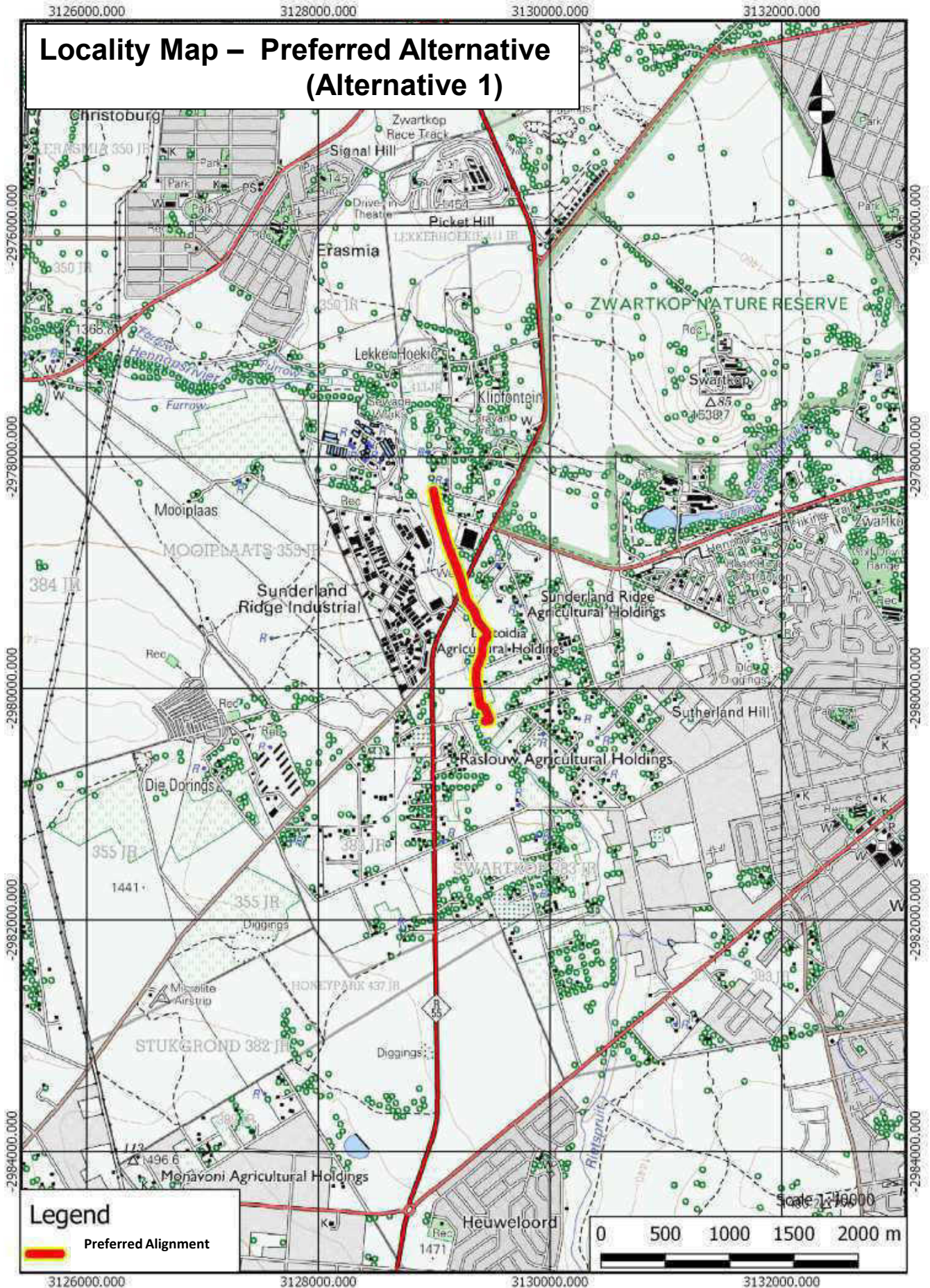
Appendix H: EMP

Appendix I: Other information

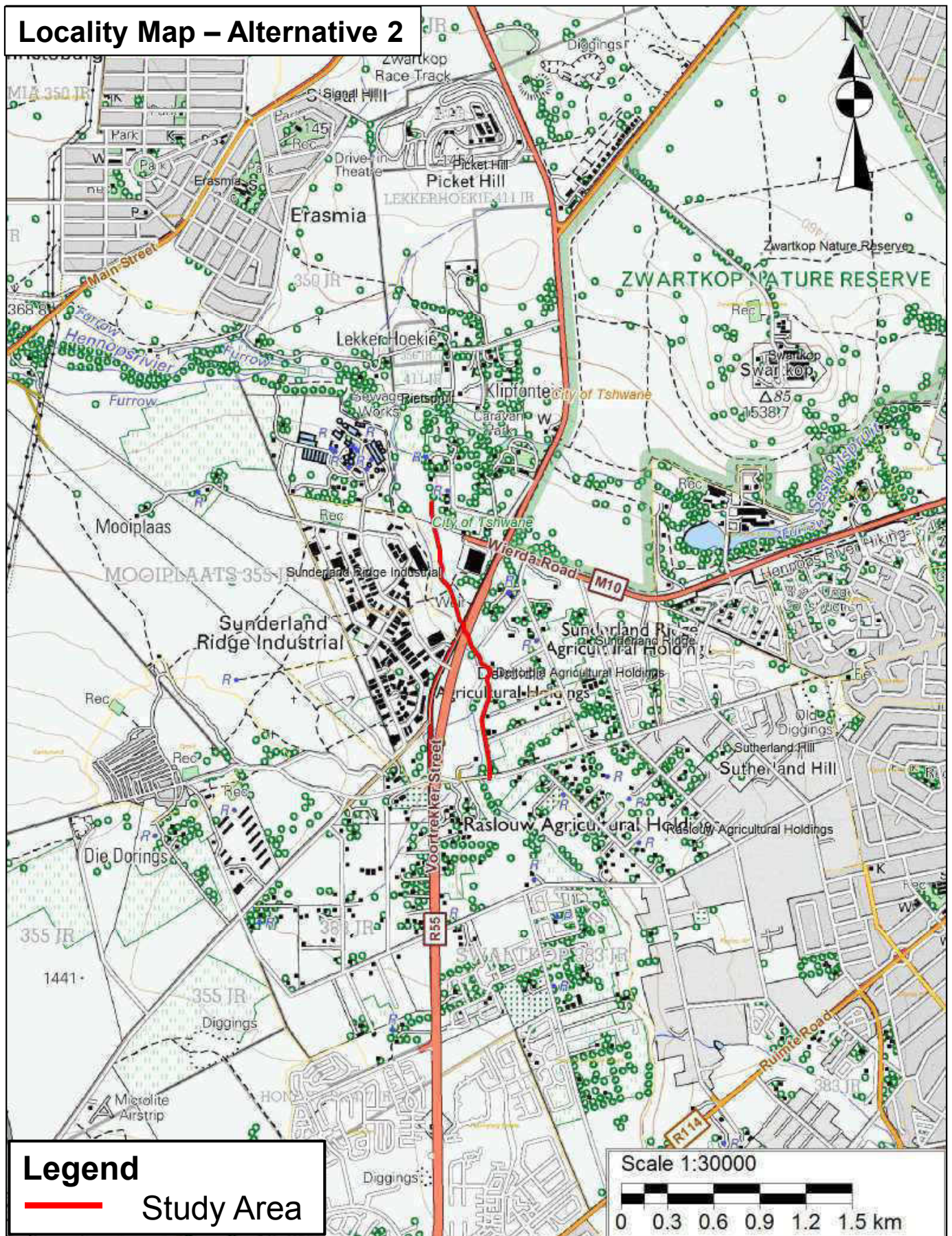
**Site plan(s)**



# Locality Map – Preferred Alternative (Alternative 1)



# Locality Map – Alternative 2



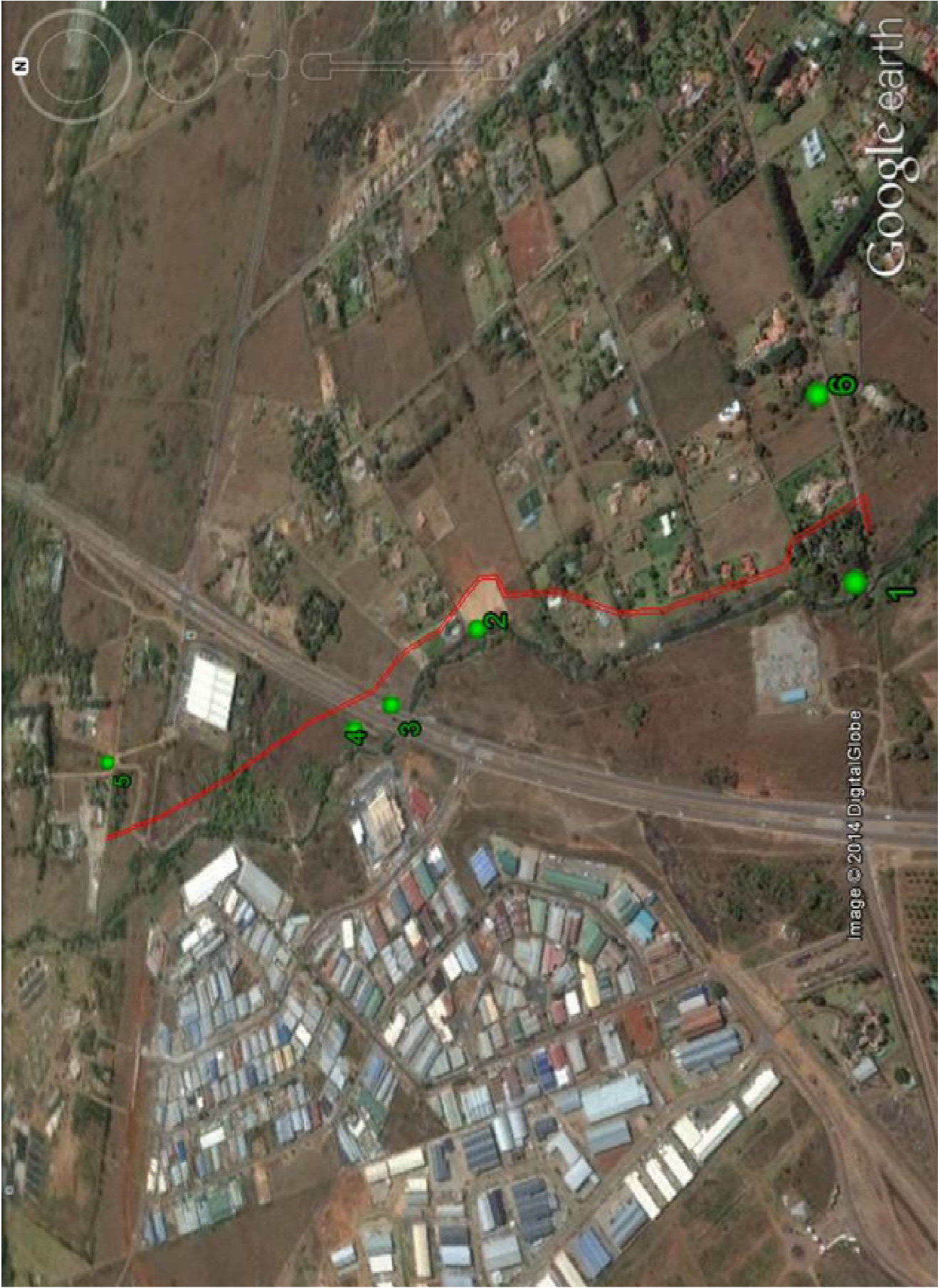
**Legend**  
— Study Area

Scale 1:30000  
0 0.3 0.6 0.9 1.2 1.5 km



# Photographs





Google earth

Image © 2014 DigitalGlobe





4



5



6

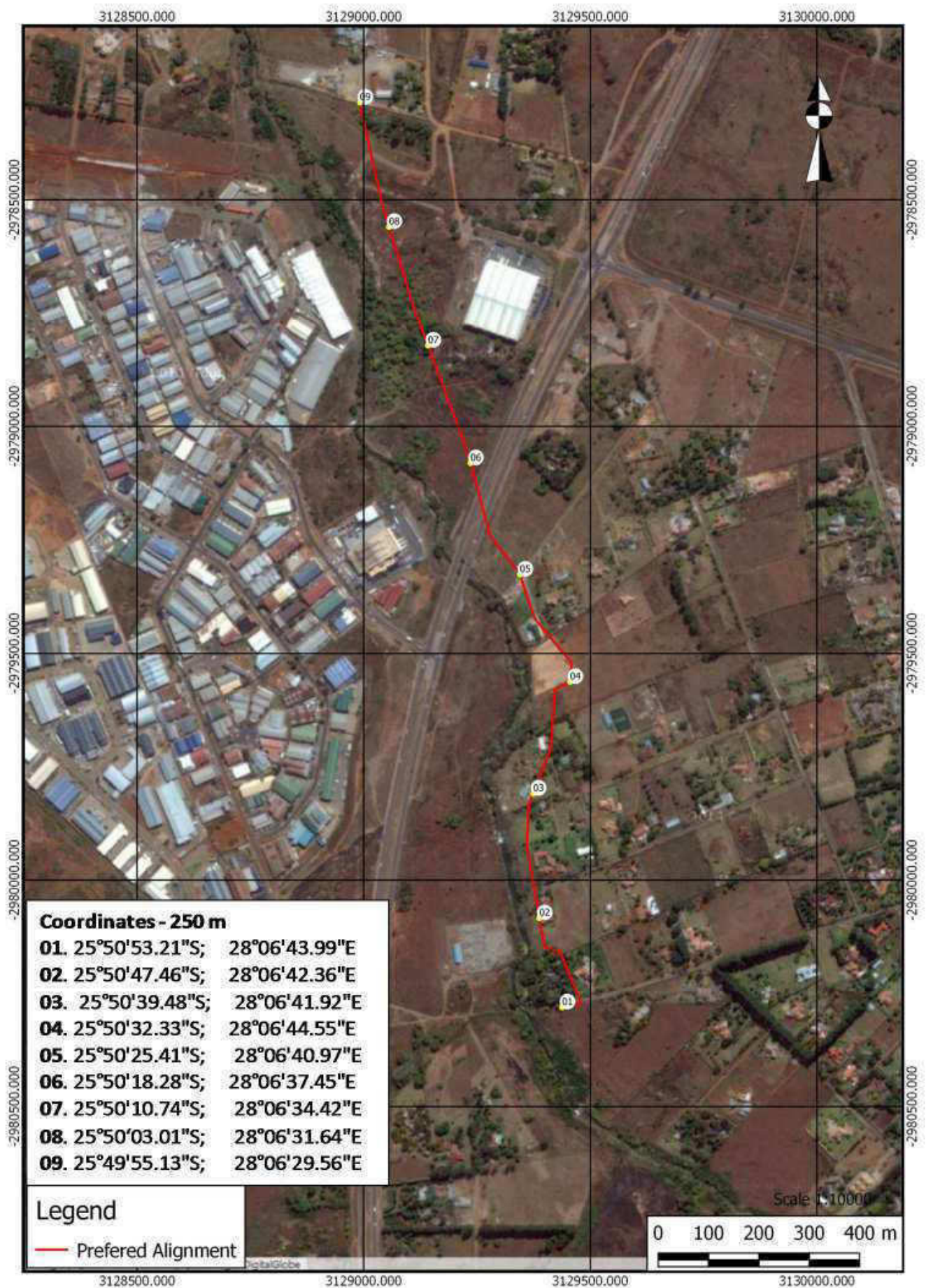
## Facility Illustration(s)



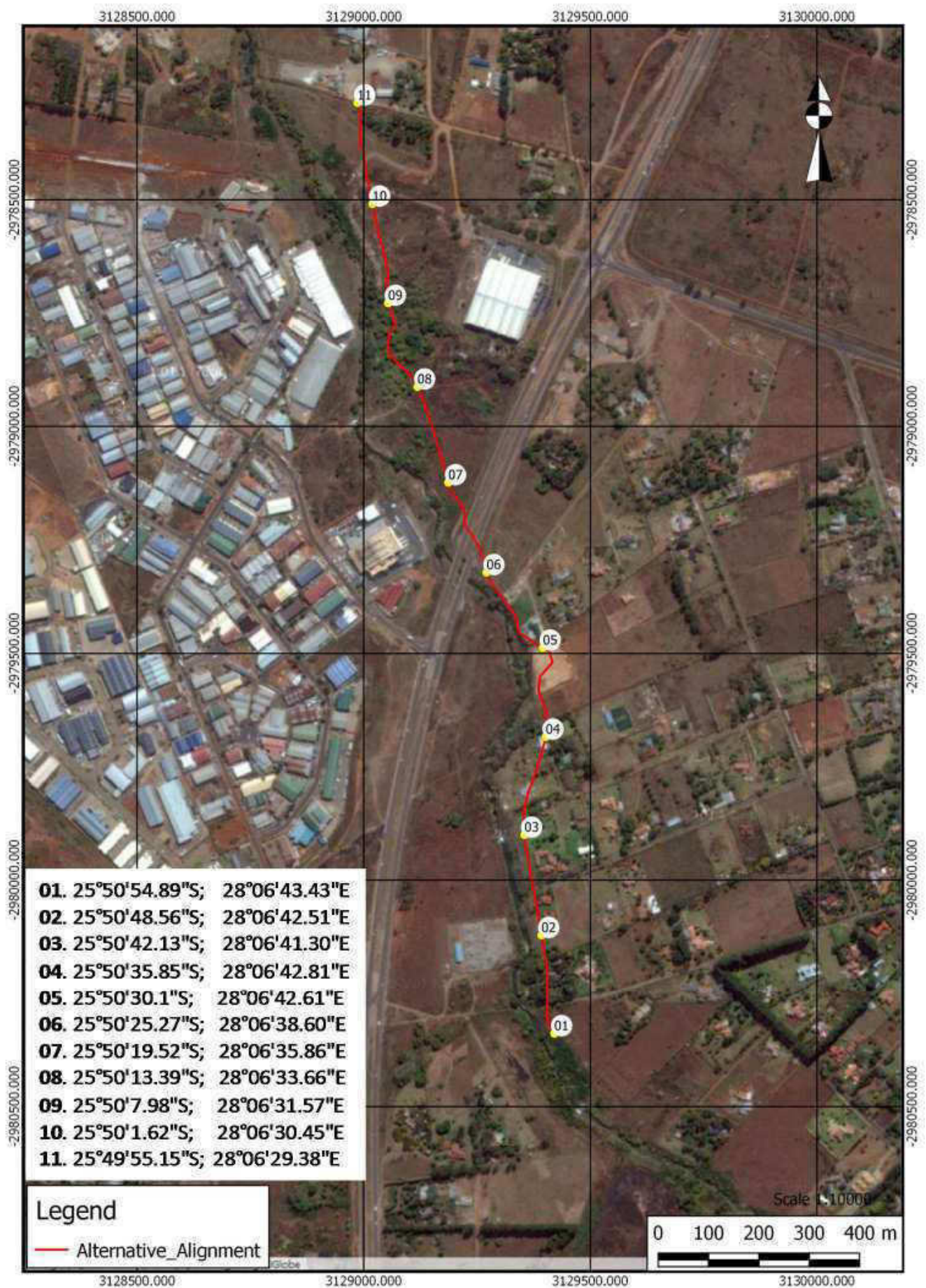


## Route Position Information









## **Public Participation Information**



## Proof of Site Notice



# NOTICE OF BASIC ASSESSMENT PROCESS

Notice is given of an application for a **Basic Assessment Process** that was submitted to the Gauteng Department of Agriculture and Rural Development, 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 **Basic Assessment Procedures (Listing Notice: 1 and 3 – Government Notice R544 & R546)** for the following activity:

**Reference No:** Gaut: 002/13-14/E0287

**Project Name:** Raslouw X15 (external sewer line)

**Property Description:** The following farms/properties will be affected: Holding 1 and 4 of Raslouw Agricultural Holdings; Portion 124, 166, 164, 163, 607, 606, 446, 412 and 168 of the Farm Zwartkop 356 JR; and Portion 462 of the Farm Mooiplaats 355 JR

**Proposed Zoning Information:** The installation of an external sewer pipeline for Raslouw X15

**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 37
GNR 544 (Listing Notice 1), 18 June 2010	Activity 40
GNR 546 (Listing Notice 3), 18 June 2010	Activity 16
GNR 546 (Listing Notice 3), 18 June 2010	Activity 24

**Proponent Name:** Purple Roof Developers (Pty) Ltd

**Location:** The proposed sewer line will be in a south-north alignment where in the south it originates from Poole Avenue and traverses the R55 (double lane road). Between the endpoint in the north and the R55 crossing, Sunderland Ridge is located to the west of the proposed sewer line.

**Date of Notice:** 27 February – 11 April 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: lizelle@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**.



**NOTICE OF BASIC ASSESSMENT  
PROCESS**

THIS NOTICE IS TO ADVISE THE PUBLIC THAT THE CITY OF... HAS BEEN APPROVED BY THE... TO CONDUCT A BASIC ASSESSMENT OF THE... PROJECT. THE BASIC ASSESSMENT IS A PROCESS THAT... TO IDENTIFY AND EVALUATE THE... OF THE PROJECT. THE BASIC ASSESSMENT WILL BE CONDUCTED... AND THE RESULTS WILL BE MADE AVAILABLE TO THE PUBLIC. THE PUBLIC IS INVITED TO PARTICIPATE IN THE BASIC ASSESSMENT PROCESS BY... TO THE... OFFICE. THE PUBLIC IS ALSO INVITED TO PROVIDE INPUT AND FEEDBACK TO THE... DURING THE BASIC ASSESSMENT PROCESS. THE PUBLIC IS REQUESTED TO CONTACT THE... AT... FOR MORE INFORMATION.





**NOTICE OF BASIC ASSESSMENT  
PROCESS**

The following information is provided to inform you of the basic assessment process and the requirements for the assessment. This information is provided to you for informational purposes only and does not constitute an offer of insurance. The assessment process is a multi-step process that begins with the completion of a basic assessment form. The form is available on the website and can be completed online or by mail. The form should be completed and returned to the appropriate office as soon as possible. The assessment process will then proceed to the next step, which is the review of the form by the appropriate office. The review process may take several weeks to complete. Once the review is complete, you will be notified of the results of the assessment. If you have any questions regarding the assessment process, please contact the appropriate office.

Section	Responsible Office	Due Date
Basic Assessment Form	Insurance Department	08/15/2024
Review of Form	Insurance Department	09/15/2024
Notification of Results	Insurance Department	10/15/2024





**Written Notices Issued to Those Persons  
Detailed in 1(b) to 1(f) above**



# RASLOUW X15 (EXTERNAL SEWER LINE)



Locality Map

## NOTICE OF BASIC ASSESSMENT PROCESS

Notice is given of an application for a **Basic Assessment Process** that was submitted to the Gauteng Department of Agriculture and Rural Development, 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 **Basic Assessment Procedures (Notice 1 and 3 – Government Notice R544 & R546)** for the following activity:

**Reference No:** Gaut: 002/13-14/E0287

**Project Name:** Raslouw X15 (external sewer line)

**Property Description:** The following farms/properties will be affected: Holding 1 and 4 of Raslouw Agricultural Holdings; Portion 124, 166, 164, 163, 607, 606, 446, 412 and 168 of the Farm Zwartkop 356 JR; and Portion 462 of the Farm Mooiplaats 355 JR

**Proposed Zoning Information:** The installation of an external sewer pipeline for Raslouw X15.

**Proponent Name:** Purple Roof Developers (Pty) Ltd

**Listing Activities Applied:** GNR 544 (Listing Notice 1), 18 June 2010 – Activity 9, 11, 18, 37 & 40 and GNR 546 (Listing Notice 3), 18 June 2010 – Activity 16 & 24.

**Location:** The proposed sewer line will be in a south-north alignment where in the south it originates from Poole avenue and traverses the R55 (double lane road). Between the endpoint in the north and the R55 crossing, Sunderland Ridge is located to the west of the proposed sewer line.

**Date of Notice:** 27 February – 11 April 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](http://www.bokamoso.biz)

Tel: (012) 346 3810

Fax: (086) 570 5659

E-mail: [lizelleg@mwweb.co.za](mailto:lizelleg@mwweb.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.**

LEBOMBO GARDEN BUILDING  
38 LEBOMBO ROAD  
ASHLEA GARDENS  
0081

P.O. BOX 11375  
MARCELANA  
0161

Tel: (012) 346 3810  
Fax: 086 570 5659  
E-mail: lizelleg@mwweb.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 for the Raslouw X15 in the City of Tshwane Metropolitan Municipality area of Gauteng**

**The following Farms/Properties will be affected:**

**Holding 1 and 4 of Raslouw Agricultural Holdings; Portion 124, 166, 164, 163, 607, 606, 446, 412 and 186 of the Farm Zwartkop 356 JR; and Portion 462 of the Farm Mooiplaats 355 JR Portion 462.**

We hereby confirm that Purple Roof Developers (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 the External reticulation of Service for Sewage of Raslouw X15 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 construction of Raslouw X15 in and around the Raslouw Agricultural Holdings, Farm Zwartkop 356 JR and Farm Mooiplaats 355 JR. This notification letter will be submitted as part of the formal application to be submitted to the Gauteng Department of Agriculture and Rural Development (GDARD).

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**

LEBOMBO GARDEN BUILDING  
36 LEBOMBO ROAD  
ASHLEA GARDENS  
0081

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



**Dear Landowner/Tenant**

**27 February 2014**

You are hereby informed that Bokamoso Environmental Consultants were appointed (as EAP) by Purple Roof Developers (Pty) Ltd to conduct the Basic Assessment Process in terms of the amended 2010 NEMA EIA Regulations for the proposed Holding 1 and 4 of Raslouw Agricultural Holding; Portion 124, 166, 164, 163, 607, 606, 446, 412 and 168 of the Farm Zwartkop 356 JR; and Portion 462 of the Farm Mooiplaats 355 JR

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

The installation of an external sewer pipeline for Raslouw X15

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 Basic Assessment Procedures (Notice 1 and 3 – Governing Notice R544 & 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, 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

**List of REGISTERED LETTERS**  
**Lys van GEREГИSTREERDE 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,  
Mercedoná 0161  
Roslouw X 15

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-klieftafskrif
1	Gouwrods P.O. Box 52276, Wierda Park, 0149					RD 885 057 075 ZA CUSTOMER COPY 301028R
2	Signature Property 4 P.O. Box 2194, Zwavelpoort, 0036					RD 885 058 990 ZA CUSTOMER COPY 301028R
3	Underwear City P.O. Box 13718, Laudium, 0037					RD 885 059 006 ZA CUSTOMER COPY 301028R
4	Pyramid Investments (eight) P.O. Box 14218, Laudium, 0037					RD 885 059 010 ZA CUSTOMER COPY 301028R
5	Francois Le Roux Fourie P.O. Box 21266, Valhalla, 0137					RD 885 059 023 ZA CUSTOMER COPY 301028R
6	Anna Christina Janse van Rensburg P.O. Box 13646, Clubview, 0014					RD 885 059 037 ZA CUSTOMER COPY 301028R
7	Nomusa Twala P.O. Box 89206, Heuweloord, Heuweloord Ext 3, 0173					RD 885 059 045 ZA CUSTOMER COPY 301028R
8						
9						
10						

Number of letters posted  
 Getal briewe gepos: 7  
 Total  
 Totaal: R R R R

Signature of client  
 Handtekening van kliënt: \_\_\_\_\_  
 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 Bobamose P.O. Box 11375,  
 Naam en adres van afsender Marceloná 0161  
RdJlouw x15

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	Gouwrods P.O. Box 52276, Wierda Park, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 703 ZA CUSTOMER COPY 301028R	
2	Signature Property 4 P.O. Box 2194, Zivavelpoort, 0036					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 751 ZA CUSTOMER COPY 301028R	
3	Underwear city P.O. Box 13718, Laudium, 0037					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 779 ZA CUSTOMER COPY 301028R	
4	Pyramid Investments (eight) P.O. Box 14218, Laudium, 0037					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 796 ZA CUSTOMER COPY 301028R	
5	François Le Roux Fourie P.O. Box 21266, Valhalla, 0157					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 805 ZA CUSTOMER COPY 301028R	
6	Anna Christina Janse van Rensburg P.O. Box 13646, Clubview, 0014					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 782 ZA CUSTOMER COPY 301028R	
7	Nomusa Twala P.O. Box 89206, Heunveloord Ext 3, 0173					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 885 058 765 ZA CUSTOMER COPY 301028R	
8							
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		<b>Total</b>	<b>Totaal</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>

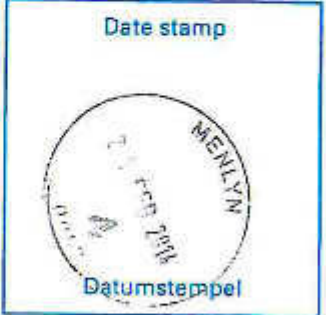
Number of letters posted 7  
 Getal briewe gepos

Signature of client [Signature]  
 Handtekening van klient

Signature of accepting officer [Signature]  
 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.



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.biz



**Dear Landowner/Tenant**

**23 March 2015**

You are hereby informed that Bokamoso Environmental Consultants were appointed (as EAP) by Purple Roof Developers (Pty) Ltd to conduct the Basic Assessment Process in terms of the amended 2010 NEMA EIA Regulations for the proposed Raslow X15 (external sewer line) on Portion 1, Portion 2 and the Remainder of Holding 1 of Deltoidia Agricultural Holdings; Portion 1 and the Remainder of Holding 4 of Deltoidia Agricultural Holdings; Portion 2 of Holding 122 of Raslow Agricultural Holdings; R55 – K71; Portion 588, 446, 606, 607, 608, 412, 164, 165, 166, 124 and Remainder of 163 of the Farm Zwartkop 356 JR.

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

The installation of an external sewer pipeline for Raslow X15

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 Basic Assessment Procedures (Notice 1 and 3 – Governing Notice R544 & 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, 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.

Please refer to the attached Review Notice.

Regards

.....  
Lizelle Gregory/Juanita De Beer



# 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: Bobamose, P.O. Box 11 375,  
 Naam en adres van afsender: Marceloná 0161  
Roslauw X15 -

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	AMKA Products P.O. Box 3504, Pretoria, 0001					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 437 ZA CUSTOMER COPY 301028R
2	Raubenheimer P.O. Box 297, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 454 ZA CUSTOMER COPY 301028R
3	VDH Ontwikkeling P.O. Box 297, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 468 ZA CUSTOMER COPY 301028R
4	Coetzee, M P.O. Box 913026, Thabang Tshwane, 0143					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 445 ZA CUSTOMER COPY 301028R
5	Hatting, J P.O. Box 155, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 352 ZA CUSTOMER COPY 301028R
6	Purple Roof Developers (Pty) Ltd Postnet Suite 514, Private Bag x1007, Lyttleton, 0140					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 397 ZA CUSTOMER COPY 301028R
7	Makhunga Tshitereke P.O. Box 52942, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 406 ZA CUSTOMER COPY 301028R
8	Nieuwmeijer Familie Trust P.O. Box 810, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 370 ZA CUSTOMER COPY 301028R
9	Makschinski, Amelia P.O. Box 56216, Wierdapark, 0149					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 383 ZA CUSTOMER COPY 301028R
10	Manyatheld, Makoro Frans 332 Section B, Mamelodi west, 0122					REGISTERED LETTER (with a domestic insurance option) ShareCall 0800 111 502 www.sapo.co.za RD 799 625 366 ZA CUSTOMER COPY 301028R
Total Totaal		R	R	R	R	

Number of letters posted  
 Getal briewe gepos

Signature of client  
 Handtekening van kliënt

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.





Post Office

# 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, PO Box 11375,  
Marcelona 0161,  
Rasbun XIS

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 <small>REGISTERED LETTER (with a domestic insurance option) Share Call 0800 111 502 www.spoor.co.za</small> RD 799 625 471 ZA CUSTOMER COPY 301026R
1	Atlantis Logistics (Pty) Ltd P.O. Box 3504, Pretoria, 0001					
2						
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Total Totaal		R	R	R	R	

Number of letters posted  
Getal briewe gepos

Signature of client  
Handtekening van kliënt

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 ontyg 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.



## **Proof of Newspaper Advertisement**



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I, THE REGISTRAR OF DEEDS OF PRETORIA, intend to issue a Deed of Transfer T 116561/2007 passed by: JACOBUS PETRUS FOURIE AND ABDUL BAAKI TAYOB in our capacities as Trustees in the Insolvent Estate of JULIEN PAUL GREGORY JANSEN, Id Nr 720906 5273 08 8, Unmarried, duly authorised under Certificate of Appointment Number T1792/2013 issued by the Master of the High Court of South Africa (North Gauteng High Court, Pretoria) at Pretoria on 16 October 2013 In respect of A Unit consisting of (a) Section No. 18 as shown and more fully described on Sectional Plan No SS 372/1996 in the scheme known as WOODBURN MANOR in respect of the land and building or buildings situate at ERF 1167 and ERF 1168 MORNINGSIDE EXTENSION 122 TOWNSHIP, LOCAL AUTHORITY CITY OF JOHANNESBURG, of which section the floor area, according to the said sectional plan is 96 (Ninety Six) square metres in extent and (b) An undivided share in the common property in the scheme apportioned to the said section in accordance with the participation quota as endorsed in the said sectional plan. HELD BY Deed of Transfer Number ST 122463/2007 Which has been lost or destroyed. All persons having objections to the issue of such Deed of Transfer are hereby required to lodge the same in writing with the Registrar of Deeds at Pretoria within six (SIX) weeks after the date of the first publication in the Gazette.

This done and executed at the Office of the Registrar of Deeds at Pretoria on  
In my presence  
REGISTRAR OF DEEDS  
PRETORIA  
**MAT43642 FEB 28, MRT 7(VZ)4040**



**CARLETONVILLE X8, ERF 3429  
DESTROYED TITLE DEED**

Notice is hereby given that under the provisions of section 38 of the Deed Registries Act, 1937, I the, Registrar of Deeds at Pretoria, intend to issue a Certificate of Registered Title in Lieu of T77686/2007 dated 14 June 2007 passed by ADRIAAN JOHANNES SMITH and RINETTE SMITH in favour of ANTON SWANEPOEL and PETRONELLA SWANEPOEL in respect of certain ERF 3429 CARLETONVILLE EXTENSION 8 TOWNSHIP, REGISTRATION DIVISION Q, THE PROVINCE OF GAUTENG which has been destroyed. All persons having objection to the issue of such Certificate are hereby required to lodge the same in writing with the Registrar of Deeds at Pretoria within six weeks after the date of the first publication in the Gazette. Dated at Pretoria this 3rd day of February 2014. In my presence - Registrar of Deeds  
**MAT37605 FEB 28, MRT 7(BVZ)4040**

1083 000 07 7 7020, E 903 90703.  
ria@peopletexture.co.za  
**14/12/16/3/3/1/1039 FEB 28(T)4045**



**RASLOUW X15  
NOTICE OF BASIC  
ASSESSMENT PROCESS**

Notice is given of an application for a Basic Assessment Process that was submitted to the Gauteng Department of Agriculture and Rural Development, 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 Basic Assessment Procedures (Listing Notice: 1 and 3 - Government Notice R544 & R546) for the following activity: Reference No: Gaut: 002/13-14/E0287. Project Name: Raslouw X15 (external sewer line). Property Description: The following farms/properties will be affected: Holding 1 and 4 of Raslouw Agricultural Holdings; Portion 124, 166, 164, 163, 607, 606, 446, 412 and 168 of the Farm Zwartkop 356 JR; and Portion 462 of the Farm Mooiplaats 355 JR. Proposed Zoning Information: The installation of an external sewer pipeline for Raslouw X15. Listing Activities Applied for: GNR 544 (Listing Notice 1), 18 June 2010 - Activity 9, 11, 18, 37 & 40 and GNR 546 (Listing Notice 3), 18 June 2010 - Activity 16 & 24. Proponent Name: Purple Roof Developers (Pty) Ltd. Location: The proposed sewer line will be in a south-north alignment where in the south it originates from Poole Avenue and traverses the R55 (double lane road). Between the endpoint in the north and the R55 crossing, Sunderland Ridge is located to the west of the proposed sewer line. Date of Notice: 27 February - 11 April 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; Tel: (012) 346 3810, Fax: (086) 570 5659; 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.

**002/13-14/E0287 FEB 28(B)4045**



**Communications to and from Persons  
Detailed in Point 2 and 3 above**



## Juanita

---

**From:** Juanita <user3@bokamoso.net>  
**Sent:** 27 February 2014 04:37 PM  
**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;  
'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; rudzanim@tshwane.gov.za;  
daniel.ramokane@transnet.net; loveous.tampane@transnet.net;  
casperm@tshwane.gov.za; marikekrugermuller@gmail.com;  
marikakm@tshwane.gov.za  
**Subject:** Raslow X15 - Public Participation  
**Attachments:** Public Notice BA.pdf

Dear Interested and/or Affected Party Member,

Please refer to the attached Public Notice regarding the proposed Raslow X15 Project.

Hope this finds you well.

Kind Regards/Vriendelike Groete

**Juanita De Beer**

---



**Landscape Architects &  
Environmental Consultants cc.**

T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: [lizalleg@imweb.co.za](mailto:lizalleg@imweb.co.za) | [www.bokamoso.biz](http://www.bokamoso.biz)  
38 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Mamelona 0161

Please consider the environment before printing this email

## Juanita

---

**From:** Juanita <user3@bokamoso.net>  
**Sent:** 26 June 2014 08:10 AM  
**To:** 'JacobsCe@eskom.co.za'  
**Subject:** RE: BAP Raslouw X15 (external sewer line)

Dear Carel Jacobs,

Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Raslouw X15 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)12 348 3810 | F: (+27) 86 570 5659 | E: [lizelle@imweb.co.za](mailto:lizelle@imweb.co.za) | [www.bokamoso.net](http://www.bokamoso.net)  
38 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Marofelana 0161

---

**From:** Carel Jacobs [<mailto:JacobsCe@eskom.co.za>]  
**Sent:** 25 June 2014 02:36 PM  
**To:** [lizelle@imweb.co.za](mailto:lizelle@imweb.co.za)  
**Subject:** BAP Raslouw X15 (external sewer line)

Hi

Herewith my contact details as an Interested party as owner of Poole ave 372

My Contact details :  
C Jacobs  
Poole ave 372  
Raslouw

Tel : 0827841962



P.O.Box 2955  
The Reeds  
0158

e- mail : [carel.jacobs@iafrica.com](mailto:carel.jacobs@iafrica.com)

regards

Carel Jacobs

---

**From:** Carel Iafrica [<mailto:carel.jacobs@iafrica.com>]

**Sent:** 25 June 2014 01:58 PM

**To:** Carel Jacobs

**Subject:** Notice

# NOTICE OF BASIC PROC

Notice is given of an application for a **Basic Assess**  
Department of Agriculture and Rural Development,  
Government Notice No. 33306 of 18 June 2010 of the N  
107 of 1998) governing **Basic Assessment Procedures (List**  
for the following activity:

**Reference No:** Gaut: 002/13-14/E0287

**Project Name:** Raslow X15 (external sewer line)

**Property Description:** The following farms/properties will  
Holdings; Portion 124, 166, 164, 163, 607, 606, 446, 412 an  
the Farm Mooiplaats 355 JR

**Proposed Zoning Information:** The installation of an extern

**Listing Activities Applied for:**

GNR 544 (Listing Notice 1), 18 June 2010	Activity 9
GNR 544 (Listing Notice 1), 18 June 2010	Activity 11

Sent from my iPad

I'm part of the 49Million initiative.

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

NB: This Email and its contents are subject to the Eskom Holdings SOC Limited EMAIL LEGAL NOTICE which can be viewed at [http://www.eskom.co.za/Pages/Email\\_Legal\\_Spam\\_Disclaimer.aspx](http://www.eskom.co.za/Pages/Email_Legal_Spam_Disclaimer.aspx)

## Juanita

---

**From:** Juanita <user3@bokamoso.net>  
**Sent:** 19 March 2014 01:19 PM  
**To:** stikili1ketwa@yahoo.com  
**Subject:** RE: PUBLIC NOTICE, RASLOUW SEWER LINES, REF NO. GAUT:002/13-14/E0287

Dear Lindelwa Ketwa & Mark Masih,

Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Raslouw X15 Project.

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

Hope this finds you well.

Kind Regards/Vriendelike Groete  
Juanita De Beer  
Public Participation Consultant

Landscape Architects &  
Environmental Consultants cc.

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

Please consider the environment before printing this email

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

From: thandekile ketwa [<mailto:stikili1ketwa@yahoo.com>]  
Sent: 19 March 2014 12:57 PM  
To: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)  
Subject: RE: PUBLIC NOTICE, RASLOUW SEWER LINES, REF NO.  
GAUT:002/13-14/E0287

The reference no. GAUT :002/13-14/E0287

Regards

Lindelwa ketwa and Mark Masih  
Stand 389  
Silverwood  
Centurion  
Monavoni ext 6

-----  
On Wed, Mar 19, 2014 8:34 AM EET Bokamoso wrote:

>Dear Lindelwa Ketwa,

>

>Thank you for your response, please refer to the Project Name Project.

>

>Kind Regards/Vriendelike Groete

>Juanita De Beer

>Public Participation Consultant

>

>

>

>Landscape Architects &

>Environmental Consultants cc.

>

>T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)

>| [www.bokamoso.biz](http://www.bokamoso.biz)

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

>0161

>

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>

>

>

>

>-----Original Message-----

>From: thandekile ketwa [<mailto:stikili1ketwa@yahoo.com>]

>Sent: 19 March 2014 08:23 AM

>To: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)

>Subject: PUBLIC NOTE BA/PUBLIC PARTICIPATION \_sewer pipelines

>

>

>

>Dear Lizelle

>

>We have a stand no 389 in Monavoni ext 6, Silverwood Estate, Centurion .

>

>Kindly inform us , how and if we will be affected by this construction.

>

>Kind regards

>

>Lindelwa ketwa

>

>

>

## Juanita

---

**From:** Juanita <user3@bokamoso.net>  
**Sent:** 28 February 2014 10:59 AM  
**To:** 'Corlizev@amka.co.za'; 'pauld@amka.co.za'  
**Subject:** RE: Raslow Ext15 - interested and affected party

Dear Corlize van Wyk,

Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Raslow X15 Project.

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

Hope this finds you well.

Kind Regards/Vriendelike Groete

**Juanita De Beer**

---



**Landscape Architects &  
Environmental Consultants cc.**

T: (+27)12 348 3810 | F: (+27) 86 570 5859 | E: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za) | [www.bokamoso.biz](http://www.bokamoso.biz)  
38 Labombo Street, Ashlea Gardens, Pretoria | P.O. Box 11376 Maroelana 0161

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---

**From:** Corlize [\[mailto:Corlizev@amka.co.za\]](mailto:Corlizev@amka.co.za)  
**Sent:** 28 February 2014 10:20 AM  
**To:** [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)  
**Cc:** Paul Dallas  
**Subject:** Raslow Ext15 - interested and affected party

Good morning.

I would like to register Amka Products (Pty) Ltd (portion 166) as an interested and affected party regarding the external sewer line.

We are in the process of declaring portion 165 & 166 a township and have service agreements with City of Tshwane regarding the sewerage, electricity supply, roads and stormwater & water and would like to make sure that these would not be affected in any way.

Please send all relevant information and developments to the following persons.

Paul Dallas

E-mail: [pauld@amka.co.za](mailto:pauld@amka.co.za)

Tel: 012 674 0407

&

Corlize van Wyk

E-mail: [corlizev@amka.co.za](mailto:corlizev@amka.co.za)

Tel: 012 674 0407

Regards

Corlize van Wyk

Assistant to Paul Dallas

Amka Products

Tel: 012 - 674 0407

Fax2mail: 086 622 7973

E-mail: [corlizev@amka.co.za](mailto:corlizev@amka.co.za)



BEFORE PRINTING THIS E-MAIL  
*please consider the environment*



## Environmental Management Services Department

4th Floor, Nr 11 Francis Baard Street, Pretoria  
PO Box 1454 | Pretoria | 0001  
Email: Tel: 012 358 8871 | Fax: 012 358 8934  
Email: [Livhuwane@tshwane.gov.za](mailto:Livhuwane@tshwane.gov.za) | [www.tshwane.gov.za](http://www.tshwane.gov.za)

My ref:	8/4/R/4	Tel:	012 358 7334
Your ref:	GAUT: 002/13-14/E0287	Fax:	012 358 8934
Contact person:	K. Mofela	Email:	<a href="mailto:kemmonem@tshwane.gov.za">kemmonem@tshwane.gov.za</a>
Section:	Environmental Planning and Open Space Management	Date:	21 October 2014

Bokamoso Landscape & Environmental Consultants CC  
P O Box 11375  
Maroelana  
0161

Attention: Lizelle Gregory  
Tel: (012) 346 3810  
Fax: 086 570 5659  
E-mail: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)

Dear Madam,

### **DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED RASLOUW EXTENSION 15 SEWER PIPELINE, GAUTENG PROVINCE**

Your Report dated September 2014 refers,

#### **1. INTRODUCTION**

The Environmental Management Services Department (the Department) has considered Draft Basic Assessment Report in respect of the above-mentioned application. The Draft Basic Assessment Report is submitted to the Environmental Management Services Department of the City of Tshwane, hereafter referred to as "the City", as a commenting authority in terms of the National Environmental Management Act (NEMA) and EIA Regulations of August 2010.

#### **2. PROJECT LOCATION AND DESCRIPTION**

Bokamoso Landscape & Environmental Consultants CC has been appointed by Purple Roof Developers (Pty) Ltd as an independent Environmental Assessment Practitioner (EPA) to undertake the environmental assessment for the proposed installation of an external sewer pipeline on proposed Holdings 1 and 4 of Raslouw AH, Portions 124, 163, 166, 168, 412, 446, 606 & 607 of the farm Zwartkop 356-JR and Portion 462 of the farm Mooiplaats 355-JR.

The proposed sewer line will be in a south-north alignment where in the south it originates from Poole Avenue and transverses the R55 dual-lane road.



The proposed development site is located east of Sunderland Ridge within the area of jurisdiction of the City of Tshwane Metropolitan Municipality. The total extent of the proposed external sewer pipeline is not disclosed.

The activity entails undertaking the following listed activity in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) and Environmental Impact Assessment Regulation, 2010, under:

*Listing Notice 1, R 544: Activities 9, 11, 18, 37 & 40*

*Listing Notice 3, R 546: Activities 16 & 24*

### 3. KEY FACTORS INFORMING THE COMMENTS

In making comments in respect of the proposed Activity the Department has taken, *inter alia*, the following into consideration:

- a) The information contained in the Draft Basic Assessment Report dated September 2014 and received by the Department on 10 September 2014.
- b) Information obtained from the Section's information base including *inter alia*:
  - Geographic Information System (GIS); and
  - Gauteng Open Space Plan (GOSP).
- c) Compliance with applicable Municipal, Provincial, and National Policies and Guidelines including:
  - The National Environmental Management Act 1998 (Act 107 of 1998) (NEMA): its decision-making principles and Environmental Impact Assessment Regulations;
  - The Tshwane Integrated Environmental Policy (TIEP);
  - The Tshwane Open Space Framework (TOSF); and
  - The Bioregional Plan for the Gauteng Metropolitan Municipalities.

### 4. DISCUSSION

In reviewing the application the Department made the following findings:

- a) According to the Tshwane Open Space Framework the proposed site is situated within and in close proximity to the following open space typologies:
  - A **Blue Way**, namely Rietspruit. Blue ways are the most important elements in the provisioning of environmental goods and services, the protection of biodiversity, endangered species and ecological systems as well as eco-based activity. Blue ways must therefore be conserved.
  - A **Blue Node**, namely wetlands associated with Rietspruit. Blue Nodes are most important for the provisioning of environmental goods and services, the protection of biodiversity, endangered species and ecological systems as well as eco-based activity. Blue Nodes must therefore be conserved.
  - A **Green Node**, namely GDARD important site associated with Rietspruit. Green Nodes are essential in the provisioning of environmental goods and services, the protection of biodiversity, endangered species and ecological systems, as well as eco-based activity. Green Nodes must be protected for conservation purposes.
- b) According to the GDARD C-Plan version 3 the proposed sewer pipeline is aligned mostly on the ecological sensitive area and partially on the important area as indicated in the report. Tshwane

- GIS map layers shows that the site is inhabited by red data mammal and has primary vegetation.
- c) Three plant habitats have been identified as the Transformed, Drainage line and Semi-natural terrestrial vegetation wherein no red data species but indigenous plants present on the latter two units as indicated in the Ecological Assessment report.
  - d) The report indicates that although Figure 10 shows possible presence of the three Orange List Plant species, none were observed during the specialist assessment nor expected because the site is severely disturbed.
  - e) According to the report the Bioregional Plan for the Gauteng Metropolitan Municipalities, the proposed site is situated within the following areas:
    - **Critical Biodiversity Area 1.** Critical Biodiversity Area 1 implies that the area is either natural or near natural terrestrial or aquatic required to meet biodiversity pattern and/or thresholds. Critical Biodiversity Area One must obtain formal conservation protection where possible to avoid net loss of intact habitat or intensification of land-use
    - **Ecological Sensitivity Area (ESA) 1 & 2.** Supporting zone required to prevent degradation of Critical Biodiversity Areas and Protected Areas. These include remaining corridor, catchment, wetland and other process areas that are required to prevent degradation of Critical Biodiversity Areas and formal Protected Areas; and areas which would otherwise have been identified as Critical Biodiversity Areas except that have been transformed or degraded, but which are currently or potentially still important for supporting ecological processes e.g. floodplain areas that have transformed or degraded. These areas are a focus for rehabilitation rather than the intensification of land uses
    - **Other Natural Areas.**
    - **No Natural Areas Remaining**
  - f) The report indicates a contravention of the Gauteng Transport Infrastructure Act (2001) which prohibits any development across any provincial or any K-route by proposing the sewer pipelines to traverse the R55 route. Comments/approval from GauTrans is not included in the report.
  - g) The report indicates that the Raslouw Extension 15 township has been approved and thus this application to upgrade the existing municipal water and sewage networks is also approved.
  - h) The report indicates that the proposed development site is situated within an urban edge as informed by the Gauteng Urban Edge (2010).
  - i) The report indicates that the proposed pipeline will run just outside the 1: 100 year flood line but less than 500m from the river and does not transect the wetland or riparian zone
  - j) The report indicates that although half of the proposed development site has soils of high agricultural potential, it is not located within any of the seven agricultural hubs and the dolomitic nature of the area prohibits extensive irrigation thereof.
  - k) According to the Wetland Delineation Report, the banks of the Rietspruit have been severely impacted on owing to the significant sediments that have clogged natural flow of the river. The proposed sewer line is supported by specialist on condition that sound site management practices are adhered to throughout the development phases.
  - l) According to the Ecological Red List Species, the degradation of the habitat along the drainage line has limited the potential for Red Data species to occur on permanent basis and only serve as migratory corridor for faunal species.

- m) According to the Heritage Impact Assessment report, the absence of any visible or restrictions or negative impacts by the proposed development in terms of the heritage associated with site older than 60 years, the project is supported by the specialist. Furthermore, it is recommended that this report be submitted to SAHRA as Section 38 application for comments/approval.
- n) The report indicates that the existing buildings older than 60 years found onsite will not be affected by the proposed development because the sewer pipeline will be located 700m from their vicinity and no demolition of such will be effected.

## 5. RECOMMENDATIONS

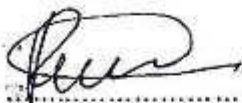
In light of the above discussion, the Department request that the following be effected:

- a) A Risk Management Plan should be compiled and attached in the Final Basic Assessment report.
- b) Comments from Gauteng Department of Public Transport (GAUTRANS) should be sought and included in the Final Basic Assessment for review.
- c) Comments from the City of Tshwane Department of Water and Sanitation should be sought and included in the Final Basic Assessment report regarding the proposed material/structure of the pipeline
- d) Comments from Gauteng Department of Water and Sanitation should be sought and included in the final report.
- e) Consent from landowners whose properties is planned to be transverse should be sought and included in the final report.

## 6. CONCLUSION

The Department will deliver final comments upon the receipt of the requested information in the Final Basic Assessment report

Yours faithfully



Mr Livhuwani Siphuma

Date:

21/10/2014

**EXECUTIVE DIRECTOR: ENVIRONMENTAL MANAGEMENT DIVISION**

Letter signed by: Rudzani Mukheli

Designation: Deputy Director: Environmental Planning and Open Space Management Section

CC Gauteng Department of Agriculture and Rural Development

Attn:

Mr Teboho Leku

Tel:

(011) 240 3421

Fax:

(011) 240 2700



IKgoro ya Taolo ya Tikologo • Department Omgewingabestuur • Lefapha la Tsamaiso ya Tikologo  
Ndzawulo ya Mafimbiselo ya nwa Mbungo • UMnyango Wezoluphathwa Kwemvelo  
Environmental Management Department

## Juanita

---

**From:** Juanita <user3@bokamoso.net>  
**Sent:** 10 September 2014 03:42 PM  
**To:** marikakm@tshwane.gov.za; marikekrugermuller@gmail.com; 'Corlizev@amka.co.za'; 'pauld@amka.co.za'; 'stikili1iketwa@yahoo.com'; JacobsCe@eskom.co.za  
**Subject:** Raslouw X15 - Review Invitation Notice

Dear Interested and/or Affected Party Member,

Please note that the Draft Basic Assessment Report for the proposed **Raslouw X15** Project will be available on our website: [www.bokamoso.biz](http://www.bokamoso.biz) from today, 10 September 2014 until 20 October 2014.

Hope this finds you well.

Kind Regards

*Juanita De Beer*

*Public Participation Consultant*

---



**Landscape Architects &  
Environmental Consultants**

T: (+27)12 346 3810 | F: (+27) 85 570 5659 | E: [lizelle@dimweh.co.za](mailto:lizelle@dimweh.co.za) | [www.bokamoso.net](http://www.bokamoso.net)  
38 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

## Juanita

---

**From:** Mary-Lee <user2@bokamoso.net>  
**Sent:** 12 November 2014 12:29 PM  
**To:** mathebet@dwa.gov.za  
**Subject:** FW: THE PROPOSED RASLOUW X 15 SEWER PIPELINE, GAUTENG PROVINCE (GAUT: 002/13-14/E0287)  
**Attachments:** SKMBT\_C36014110514211.pdf

Good morning,

Please refer to the below email regarding the mentioned project.

The Final Basic Assessment Report for the proposed development will be submitted to the Interested and Affected Parties and stakeholders within the week of 17 - 21 November 2014. We therefore require your comments by Friday the **14<sup>th</sup> of November 2014** in order to work it into the final report.

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@mwweb.co.za | [www.bokamoso.biz](http://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:** 05 November 2014 02:21 PM  
**To:** 'mathebet@dwa.gov.za'  
**Subject:** THE PROPOSED RASLOUW X 15 SEWER PIPELINE, GAUTENG PROVINCE (GAUT: 002/13-14/E0287)

Good day,

We would like to remind you of the review time for the above-mentioned project that has lapsed on the 22<sup>nd</sup> of October 2014. Please refer to the attached letters that was sent to your Department on 9 September 2014.

Please forward us your comments by the 12<sup>th</sup> of November 2014.

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](mailto:lizelleg@mweb.co.za) | [www.bokamoso.biz](http://www.bokamoso.biz)  
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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## Juanita

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**From:** Mary-Lee <user2@bokamoso.net>  
**Sent:** 05 November 2014 02:21 PM  
**To:** mathebet@dwa.gov.za  
**Subject:** THE PROPOSED RASLOUW X 15 SEWER PIPELINE, GAUTENG PROVINCE (GAUT: 002/13-14/E0287)  
**Attachments:** SKMBT\_C36014110514211.pdf

Good day,

We would like to remind you of the review time for the above-mentioned project that has lapsed on the 22<sup>nd</sup> of October 2014. Please refer to the attached letters that was sent to your Department on 9 September 2014.

Please forward us your comments by the 12<sup>th</sup> of November 2014.

Trust you find the above in order.

Kind Regards,

*Mary-Lee van Zyl*

*Senior Environmental Assessment Practitioner*

---



**Landscape Architects &  
Environmental Consultants cc**

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## Juanita

---

**From:** Mary-Lee <user2@bokamoso.net>  
**Sent:** 24 November 2014 11:19 AM  
**To:** Rudzani Mukheli  
**Subject:** FW: THE PROPOSED RASLOUW X 15 SEWER PIPELINE, GAUTENG PROVINCE (GAUT: 002/13-14/E0287)  
**Attachments:** 20141113102032.pdf

Good morning Rudzani,

Could you please assist us with a matter raised in your comments.

We normally send CoT 1x hard copy and 3x electronic copies of our reports. Are those reports not circulating internally within the different sections?

Please provide us with the contact person at CoT's Water and Sanitation Department for comments.

Thank you.

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](mailto:lizelle@mweb.co.za) | [www.bokamoso.biz](http://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](mailto:lizelle@mweb.co.za)]  
**Sent:** 13 November 2014 12:31 PM  
**To:** user2@bokamoso.net  
**Cc:** user1@bokamoso.net  
**Subject:** FW: THE PROPOSED RASLOUW X 15 SEWER PIPELINE, GAUTENG PROVINCE (GAUT: 002/13-14/E0287)

---

**From:** Rudzani Mukheli [mailto:[RudzaniM@TSHWANE.GOV.ZA](mailto:RudzaniM@TSHWANE.GOV.ZA)]  
**Sent:** 13 November 2014 11:13 AM  
**To:** Bokamoso  
**Subject:** RE: THE PROPOSED RASLOUW X 15 SEWER PIPELINE, GAUTENG PROVINCE (GAUT: 002/13-14/E0287)



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Hi Mary

Thanks for the reminder I almost forgot.

Regards

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

**Sent:** Thursday, November 13, 2014 11:10 AM

**To:** Rudzani Mukheli

**Subject:** RE: THE PROPOSED RASLOUW X 15 SEWER PIPELINE, GAUTENG PROVINCE (GAUT: 002/13-14/E0287)

Thank you Rudzani.

That would be much appreciated.

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](mailto:lizelleg@mweb.co.za) | [www.bokamoso.biz](http://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:** 12 November 2014 12:57 PM

**To:** [user2@bokamoso.net](mailto:user2@bokamoso.net)

**Cc:** [user1@bokamoso.net](mailto:user1@bokamoso.net)

**Subject:** FW: THE PROPOSED RASLOUW X 15 SEWER PIPELINE, GAUTENG PROVINCE (GAUT: 002/13-14/E0287)

**From:** Rudzani Mukheli [<mailto:RudzaniM@TSHWANE.GOV.ZA>]

**Sent:** 12 November 2014 12:52 PM

**To:** Bokamoso

**Subject:** Re: THE PROPOSED RASLOUW X 15 SEWER PIPELINE, GAUTENG PROVINCE (GAUT: 002/13-14/E0287)

Hi

Apologies for this, comments were finalized in October I think there was a mix up with a letter forwarded. I'm currently out of the office but I will send that letter first thing tomorrow morning.

Regards

Sent from my iPad

> On 12 Nov 2014, at 11:22 AM, "Bokamoso" <[lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)> wrote:

>

> Good morning,

>

> Please refer to the below email regarding the mentioned project.

>

> The Final Basic Assessment Report for the proposed development will be submitted to the Interested and Affected Parties and stakeholders within the week of 17 - 21 November 2014. We therefore require your comments by Friday the 14th of November 2014 in order to work it into the final report.

>

> Trust you find the above in order.

>

> Kind Regards,

>

> Mary-Lee van Zyl

> Senior Environmental Assessment Practitioner

>

> [LogoSignature]

> Landscape Architects &

> Environmental Consultants cc

>

> T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)<<mailto:lizelleg@mweb.co.za>> | [www.bokamoso.biz](http://www.bokamoso.biz)<<http://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: 05 November 2014 02:19 PM

> To: 'RudzaniM@TSHWANE.GOV.ZA'

> Subject: THE PROPOSED RASLOUW X 15 SEWER PIPELINE, GAUTENG PROVINCE (GAUT: 002/13-14/E0287)

>

> Good day,

>

> We would like to remind you of the review time for the above-mentioned project that has lapsed on the 22nd of October 2014. Please refer to the attached letters that was sent to your Department on 9 September 2014 and an email on 27 October 2014.

>

> Please forward us your comments by the 12th of November 2014.  
>  
> Trust you find the above in order.  
>  
> Kind Regards,  
>  
> Mary-Lee van Zyl  
> Senior Environmental Assessment Practitioner  
>  
> \_\_\_\_\_  
> [LogoSignature]  
> Landscape Architects &  
> Environmental Consultants cc  
>  
> T: (+27)12 346 3810 | F: (+27) 86 570 5659 | E: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za) <<mailto:lizelleg@mweb.co.za>> |  
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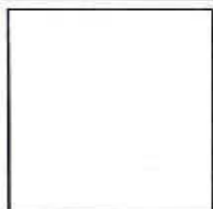
> [<http://static.avast.com/emails/avast-mail-stamp.png>] <<http://www.avast.com/>>  
>

> This email is free from viruses and malware because avast! Antivirus <<http://www.avast.com/>> protection  
is active.

>  
>  
> <image001.jpg>  
> <FW Establishment of a sewer pipeline, Raslouw extension 15 .eml>  
> <SKMBT\_C36014110514210.pdf>

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---

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## Juanita

---

**From:** User1 <user1@bokamoso.net>  
**Sent:** 25 November 2014 12:32 PM  
**To:** user2@bokamoso.net  
**Subject:** FW: Raslouw x 15 Sewer Pipeline  
**Attachments:** Raslouw X15 - Public Participation (374 KB); Raslouw X15 - Review Invitation Notice (22.6 KB)

### *Anè Atgenbacht*

*Senior Environmental Assessment Practitioner / Manager*

Tel: 012-346 3810

Cell: 083 533 0420

Email: [lizelleg@mweb.co.za](mailto: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](mailto:lizelleg@mweb.co.za) | [www.bokamoso.biz](http://www.bokamoso.biz)  
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

---

**From:** Bokamoso [<mailto:lizelleg@mweb.co.za>]  
**Sent:** Tuesday, November 25, 2014 9:48 AM  
**To:** [user1@bokamoso.net](mailto:user1@bokamoso.net)  
**Subject:** FW: Raslouw x 15 Sewer Pipeline

---

**From:** Coetzee, Eric (GPDRT) [<mailto:Eric.Coetzee@gauteng.gov.za>]  
**Sent:** 25 November 2014 08:12 AM  
**To:** Roux, Tobie (GPDRT); Masuku, Freeman (GPDRT); Emmet, Denis (GPDRT)  
**Cc:** [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za)  
**Subject:** FW: Raslouw x 15 Sewer Pipeline

Tobie/Freeman/Denis

Bokamoso had a sewer pipeline project where Tshwane requested comments from GDRT. They sent the request to Kumen, but received no comments.

Could you please assist with comments?

Regards

Eric Coetzee

Tel: 011 355-7217

Cell: 083 326 9904

Fax: 086 611 9398

E-mail: [Eric.Coetzee@gauteng.gov.za](mailto:Eric.Coetzee@gauteng.gov.za)

---

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

**Sent:** 24 November 2014 02:27 PM

**To:** Coetzee, Eric (GPDRT)

**Subject:** Raslouw x 15 Sewer Pipeline

Goeie dag Erik,

Ons het 'n projek vir 'n rioolpyplyn waarop CoT spesifiek kommentaar gelewer het en aangedring het ons moet kommentaar vanaf Gautrans kry op die verslag.

Die publieke kennisgewing is vir Kumen Govender gestuur maar daar was geen kommentaar en ook nie gevra om as I&AP geregistreer te word nie. 'n Tweede e-pos is uitgestuur aan almal wat geregistreer het, met 'n link na waar die verslag nagesien kan word. (Sien aangeheg).

Het jy dalk vir ons 'n kontakpersoon (en besonderhede) in julle Department wat op die omgewingsverslae kommentaar lewer.

Jou hulp in die verband sal baie waardeer word.

Vriendelike Groete,

*Anè Atgenbacht*

*Senior Environmental Assessment Practitioner / Manager*

Tel: 012-346 3810

Cell: 083 533 0420

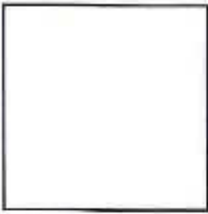
Email: [lizelleg@mweb.co.za](mailto:lizelleg@mweb.co.za) (Attention: Anè)



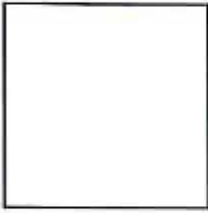
**Landscape Architects &  
Environmental Consultants cc**

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

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## User1

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**From:** Bokamoso <lizelle@mweb.co.za>  
**Sent:** Monday, May 04, 2015 1:52 PM  
**To:** user3@bokamoso.net  
**Cc:** user1@bokamoso.net  
**Subject:** FW: Raslouw X15 - Landowner & Tenant Letter

---

**From:** Paul Dallas [<mailto:Pauld@amka.co.za>]  
**Sent:** 04 May 2015 01:48 PM  
**To:** [lizelle@mweb.co.za](mailto:lizelle@mweb.co.za)  
**Cc:** Salim Essack; Garnet van der Walt ([garnetjnr@edseng.co.za](mailto:garnetjnr@edseng.co.za)); Elaine Holtzhausen ([elaine@lokisa.co.za](mailto:elaine@lokisa.co.za)); Corlize; Moosa Kalla; Haneef Tayob ([haneef@tayob.co.za](mailto:haneef@tayob.co.za))  
**Subject:** FW: Raslouw X15 - Landowner & Tenant Letter

Good Afternoon Lizelle and Juanita,

Regarding your client's development Raslouw X15, provision was made in our township (Sunderland Ridge X13) for a sewer servitude for a future municipal sewer line. Please ensure that sewer line runs within the servitude provided.

Kind Regards,

Paul Dallas

*Supply Chain Executive*  
Amka Products (Pty) Ltd  
012 674 0407  
012 0014 407  
082 443 6258  
[pauld@amka.co.za](mailto:pauld@amka.co.za)



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## Mary-Lee

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**From:** Bokamoso <lizelle@mweb.co.za>  
**Sent:** 13 May 2015 11:05 AM  
**To:** Pauld@amka.co.za  
**Subject:** RE: Raslouw X15 - Landowner & Tenant Letter

**Flag Status:** Flagged

Good day Paul,

Thank you for your comment on the sewer line.

We have asked the engineer to have a look at it. As soon as he reverts back to us we will let you know.

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](http://www.bokamoso.biz)  
36 Lebombo Street, Ashlea Gardens, Pretoria | P.O. Box 11375 Maroelana 0161

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**From:** Paul Dallas [<mailto:Pauld@amka.co.za>]  
**Sent:** 07 May 2015 08:07 AM  
**To:** [lizelle@mweb.co.za](mailto:lizelle@mweb.co.za)  
**Cc:** Elaine Holtzhausen ([elaine@lokisa.co.za](mailto:elaine@lokisa.co.za)); Salim Essack; Garnet van der Walt ([garnetjnr@edseng.co.za](mailto:garnetjnr@edseng.co.za)); Haneef Tayob ([haneef@tayob.co.za](mailto:haneef@tayob.co.za))  
**Subject:** Raslouw X15 - Landowner & Tenant Letter

Dear Juanita

Herewith, please find a copy of the approved General Plan for Sunderland Ridge Extension 13, which shows the position of the servitude for the sewer line.

Regards

Paul Dallas

*Supply Chain Executive  
Amka Products (Pty) Ltd*



012 674 0407  
012 0014 407  
082 443 6258  
[pauld@amka.co.za](mailto:pauld@amka.co.za)



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**Mike van Blommestein** (Pr. Pln A/319/1985)

**Van Blommestein & Associates**  
**Town & Regional Planners**  
**P O Box 17341, Groenkloof 0027**  
**590 Sibelius Street, Lukasrand 0181**  
**Tel: 012 343 4547/ 012 343 5061**  
**Fax: 086 578 6913/ 012 343 5062**



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**Minutes of Any Public and/or  
Stakeholders Meetings**

**(Not available)**



# Comments and Responses Report



**COMMENT AND RESPONSE REPORT-  
BASIC ASSESSMENT REPORT FOR THE PROPOSED RASLOUW X15 (EXTERNAL SEWER LINE)  
Gaut: 002/13-14/E0287**

Issue	Commentator	Response
<p>I would like to register Amka Products (Pty) Ltd (portion 166) as an interested and affected party regarding the external sewer line.</p> <p>We are in the process of declaring portion 165 &amp; 166 a township and have service agreements with City of Tshwane regarding the sewerage, electricity supply, roads and storm water &amp; water and would like to make sure that these would not be affected in any way.</p>	<p>28 February 2014</p> <p>Corlize van Wyk <a href="mailto:Corlizev@amka.co.za">Corlizev@amka.co.za</a> Paul Dallas <a href="mailto:pauld@amka.co.za">pauld@amka.co.za</a></p>	<p>Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Raslouw X15 Project.</p> <p>We will keep you updated regarding the process in the future.</p>
<p>Thank you for your notification regarding this development.</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 prior to development it is incumbent on the developer to ensure that a Heritage Impact Assessment is done. This must include the archaeological component (Phase 1) and 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>The quickest process to follow for the archaeological component is to contract an accredited specialist (see the web site of the Association of Southern African Professional Archaeologists <a href="http://www.asapa.org.za">www.asapa.org.za</a> ) to provide a Phase 1 Archaeological Impact Assessment Report. This must be done before any large development takes place.</p> <p>The Phase 1 Impact Assessment Report will identify the archaeological sites and assess their significance. It should also make recommendations (as indicated in section 38) about the</p>	<p>4 March 2014</p> <p>Andrew Salomon <b>SAHRA</b> <a href="mailto:asalomon@sahra.org.za">asalomon@sahra.org.za</a></p>	<p>Noted. There is a Heritage Impact Study included in the Draft and Final Basic Assessment Report.</p>

<p>process to be followed. For example, there may need to be a mitigation phase (Phase 2) where the specialist will collect or excavate material and date the site. At the end of the process the heritage authority may give permission for destruction of the sites.</p> <p>Where bedrock is to be affected, or where there are coastal sediments, or marine or river terraces and in potentially fossiliferous superficial deposits, a Palaeontological Desk Top study must be undertaken to assess whether or not the development will impact upon palaeontological resources – or at least a letter of exemption from a Palaeontologist is needed to indicate that this is unnecessary. If the area is deemed sensitive, a full Phase 1 Palaeontological Impact Assessment will be required and if necessary a Phase 2 rescue operation might be necessary. Please note that a nationwide fossil sensitivity map is now available on Sahr's to assist with this.</p> <p>If the property is very small or disturbed and there is no significant site the heritage specialist may choose to send a letter to the heritage authority to indicate that there is no necessity for any further assessment.</p> <p>Any other heritage resources that may be impacted such as built structures over 60 years old, sites of cultural significance or views must also be assessed.</p>		
<p>We have a stand no 389 in Monavoni ext 6, Silverwood Estate, Centurion. Kindly inform us, how and if we will be affected by this construction.</p>	<p>19 March 2014  Lindelwa ketwa and Mark Masih <a href="mailto:stikili1ketwa@yahoo.com">stikili1ketwa@yahoo.com</a></p>	<p>From our data the Silverwood Estate is approximately 3km south of the proposed 2km sewer pipeline and in our opinion, we cannot foresee you being affected by the proposed sewer pipeline installation.</p>
<p>Herewith my contact details as an Interested party as owner of Poole ave 372 My Contact details : C Jacobs Poole ave 372</p>	<p>25 June 2014  Carel Jacobs <a href="mailto:carel.jacobs@iafrica.com">carel.jacobs@iafrica.com</a></p>	<p>Thank you for your response, I have registered you as Interested and/or Affected Party Member for the proposed Raslouw X15 Project.</p>

<p>Raslouw Tel : 0827841962 P.O.Box 2955 The Reeds 0158</p> <p>e- mail : <a href="mailto:carel.jacobs@iafrica.com">carel.jacobs@iafrica.com</a></p>		<p>We will keep you updated regarding the process in the future.</p>
<p><u>Draft Basic Assessment Report for the proposed Raslouw Extension 15 sewer pipeline, Gauteng Province</u></p> <p>In light of the above discussion, the Department request that the following be effected:</p> <p>a) A Risk Management Plan should be compiled and attached to the Final Basic Assessment Report.</p> <p>b) Comments from Gauteng Department of Public Transport (GAUTRANS) should be sought and included in the Final Basic Assessment for review.</p> <p>c) Comments from the City of Tshwane Department of Water and Sanitation should be sought and included in the Final Basic Assessment Report regarding the proposed material/structure of the pipeline.</p> <p>d) Comments from Gauteng Department of Water and Sanitation should be sought and included in the final report.</p> <p>e) Consent from landowners whose properties is planned to be transverse should be sought and included in the final report.</p>	<p>21 October 2014</p> <p>K Molefa <a href="mailto:kemmonem@tshwane.gov.za">kemmonem@tshwane.gov.za</a></p>	<p>a) This should be made a condition of the Environmental Authorisation.</p> <p>b) Comments were sought after at the Department at more than one instance and no comments have been received. Please refer to Annexure E.</p> <p>c) 1x hard copy and 3x electronic copies were distributed to the City of Tshwane for their various sections. No comments were received from the Water and Sanitation Section. The Final BAR will be sent to them again and should we receive comments it would be responded to.</p> <p>d) Comments were sought after on various occasions and no comments have been received. Please see correspondence attached to Annexure E.</p> <p>e) This should be made a condition of the Environmental Authorisation.</p>
<p>Regarding your client's development Raslouw X15, provision was made in our township (Sunderland Ridge X13) for a sewer servitude</p>	<p>Paul Dallas <a href="mailto:Pauld@amka.co.za">Pauld@amka.co.za</a></p>	<p>Noted. We have mentioned this to the engineer. It is recommended that the</p>

<p>for a future municipal sewer line. Please ensure that sewer line runs within the servitude provided.</p>	<p><b>Amka</b></p>	<p>engineers of both the projects should ensure that the sewer lines run in the registered servitudes.</p>
<p>Herewith, please find a copy of the approved General Plan for Sunderland Ridge X13, which shows the position of the servitude for the sewer line.</p>	<p>Paul Dallas <a href="mailto:Pauld@amka.co.za">Pauld@amka.co.za</a> <b>Amka</b></p>	<p>Thank you for your comment on the sewer line.</p> <p>We have asked the engineer to have a look at it. As soon as he reverts back to us we will let you know.</p>

**Comments from I&Ap's on  
Basic Assessment (BA) Report**

**(Not Available)**





**Comments from I&Ap's on  
Amendments to the BA Report**

**(Not yet available)**



## **Copy of the Register of I&AP's**



Nr	Registered Parties	Contact details	Address
<b>Stakeholders</b>			
1	Council Geo-Science	<a href="mailto:jgrobler@geoscience.org.za">jgrobler@geoscience.org.za</a>	
2	SAHRA Gauteng	<a href="mailto:asalomon@sahra.org.za">asalomon@sahra.org.za</a> <a href="mailto:nndobochani@sahra.org.za">nndobochani@sahra.org.za</a>	
3	PHRAG	<a href="mailto:maphata.ramphele@gauteng.gov.za">maphata.ramphele@gauteng.gov.za</a>	
4	DWA	<a href="mailto:justicem@dwaf.gov.za">justicem@dwaf.gov.za</a> <a href="mailto:keetm@dwaf.gov.za">keetm@dwaf.gov.za</a> <a href="mailto:siwelanel@dwa.gov.za">siwelanel@dwa.gov.za</a> <a href="mailto:tshifaror@dwa.gov.za">tshifaror@dwa.gov.za</a>	
5	Eskom	<a href="mailto:central@eskom.co.za">central@eskom.co.za</a> <a href="mailto:paia@eskom.co.za">paia@eskom.co.za</a>	
6	SANRAL	<a href="mailto:schmidk@nra.co.za">schmidk@nra.co.za</a>	
7	Gautrans	<a href="mailto:kumen.govender@gauteng.gov.za">kumen.govender@gauteng.gov.za</a>	
8	Randwater	<a href="mailto:mmpshe@randwater.co.za">mmpshe@randwater.co.za</a> <a href="mailto:nkoneigh@randwater.co.za">nkoneigh@randwater.co.za</a>	
9	City Of Tshwane	<a href="mailto:RudzaniM@tshwane.gov.za">RudzaniM@tshwane.gov.za</a>	
10	Spoornet	<a href="mailto:daniel.ramokone@transnet.net">daniel.ramokone@transnet.net</a> <a href="mailto:loveous.tampane@transnet.net">loveous.tampane@transnet.net</a>	
11	DA Roads	<a href="mailto:casperm@tshwane.gov.za">casperm@tshwane.gov.za</a>	
12	<b>Ward Councillor</b> Marike Kruger-Muller	<a href="mailto:marikekrugermuller@gmail.com">marikekrugermuller@gmail.com</a>	
<b>Interested and Affected Parties</b>			
1	Corlize van Wyk Amka Products (Pty) Ltd	<a href="mailto:Corlizev@amka.co.za">Corlizev@amka.co.za</a> Tel: 012 674 0407	
2	Paul Dallas	<a href="mailto:pauld@amka.co.za">pauld@amka.co.za</a>	



**Comments from I&AP's  
on the Application  
(Not available)**



**Water Use Licence(s), SAHRA Information,  
Service Letters from Municipalities &  
Water Supply Information  
(Not Available)**





## Letter

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

Attention: Purple Roof Developers (Pty) Ltd

**The following farms/properties will be affected: Holding 1 and 4 of Raslouw Agricultural Holdings; Portion 124, 166, 164, 163, 607, 606, 446, 412 and 168 of the Farm Zwartkop 356 JR; and Portion 462 of the Farm Mooiplaats 355 JR**

Thank you for your notification regarding this development.

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 prior to development it is incumbent on the developer to ensure that a **Heritage Impact Assessment** is done. This must include the archaeological component (Phase 1) and 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.

The quickest process to follow for the archaeological component is to contract an accredited specialist (see the web site of the Association of Southern African Professional Archaeologists [www.asapa.org.za](http://www.asapa.org.za)) to provide a Phase 1 Archaeological Impact Assessment Report. This must be done before any large development takes place.

The Phase 1 Impact Assessment Report will identify the archaeological sites and assess their significance. It should also make recommendations (as indicated in section 38) about the process to be followed. For example, there may need to be a mitigation phase (Phase 2) where the specialist will collect or excavate material and date the site. At the end of the process the heritage authority may give permission for destruction of the sites.

Where bedrock is to be affected, or where there are coastal sediments, or marine or river terraces and in potentially fossiliferous superficial deposits, a Palaeontological Desk Top study must be undertaken to assess whether or not the development will impact upon palaeontological resources - or at least a letter of exemption from a Palaeontologist is needed to indicate that this is unnecessary. If the area is deemed sensitive, a full Phase 1 Palaeontological Impact Assessment will be required and if necessary a Phase 2 rescue operation might be necessary. Please note that a nationwide fossil sensitivity map is now available on SAHRIS to assist with this.

If the property is very small or disturbed and there is no significant site the heritage specialist may choose to





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send a letter to the heritage authority to indicate that there is no necessity for any further assessment.

Any other heritage resources that may be impacted such as built structures over 60 years old, sites of cultural significance associated with oral histories, burial grounds and graves, graves of victims of conflict, and cultural landscapes or viewsapes must also be assessed.

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

Yours faithfully

---

Andrew Salomon  
Heritage Officer: Archaeology  
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/158075>  
(GDARD, Ref: Gaut: 002/13-14/E0287)

