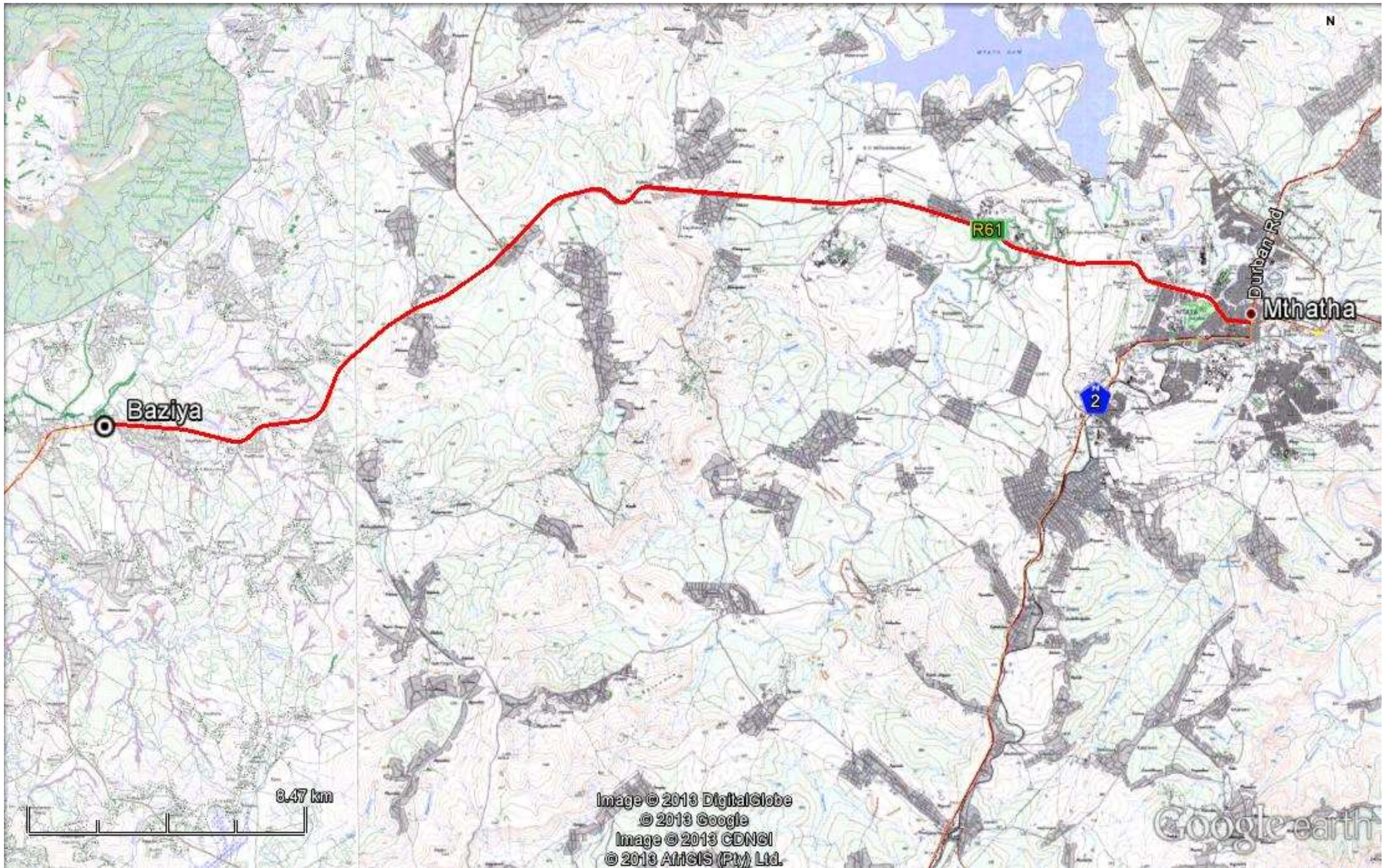
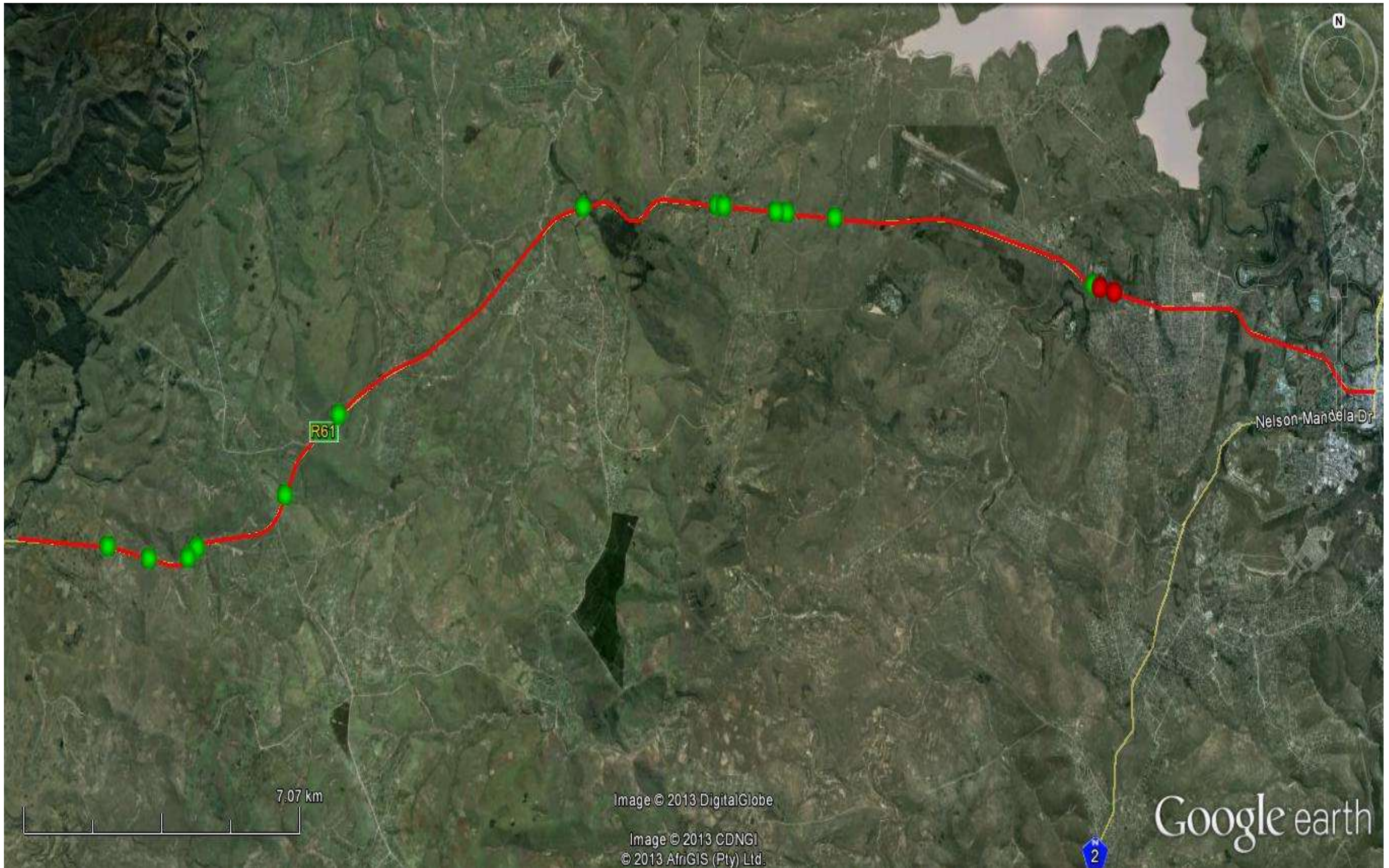


Appendix A
Site maps

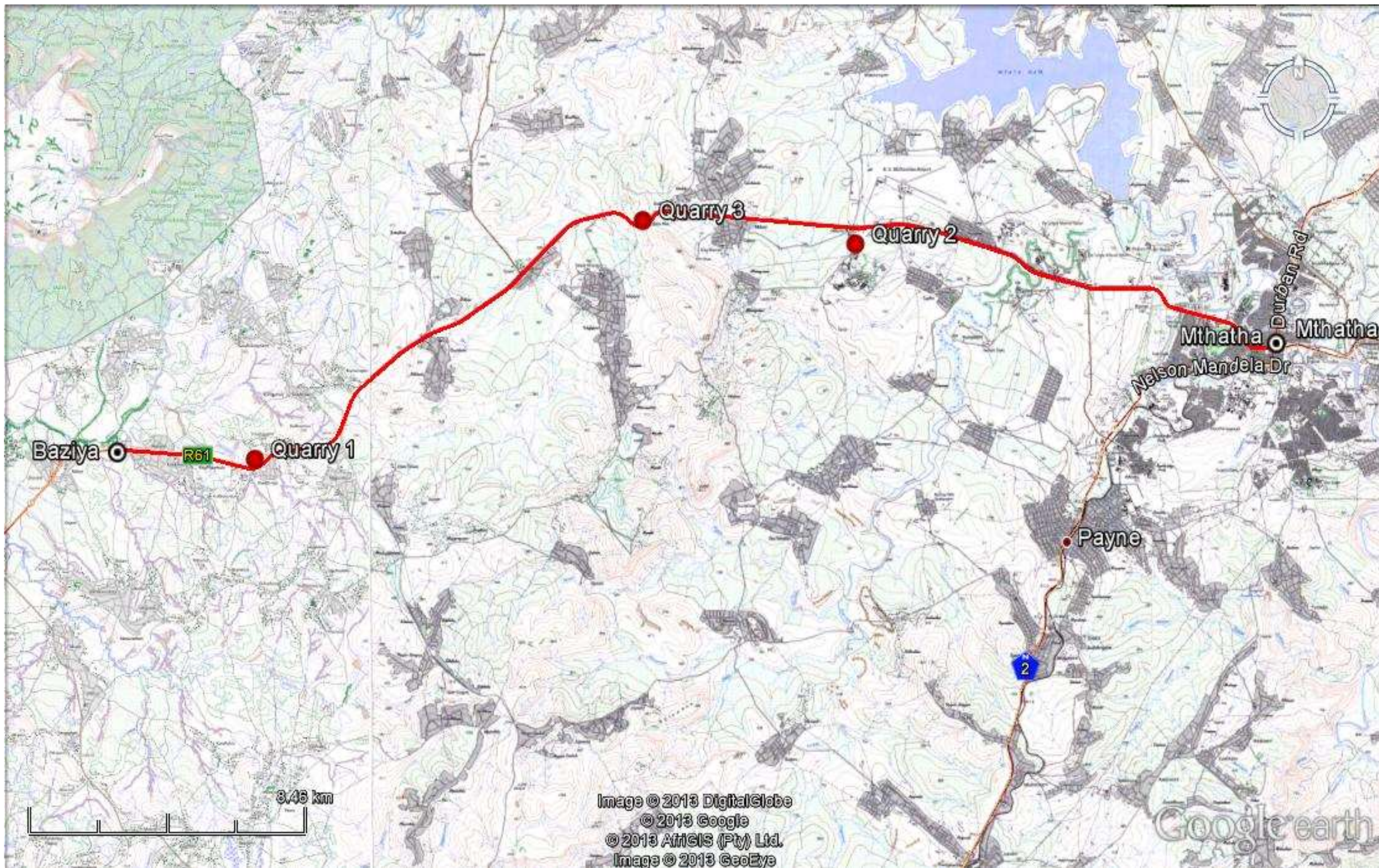
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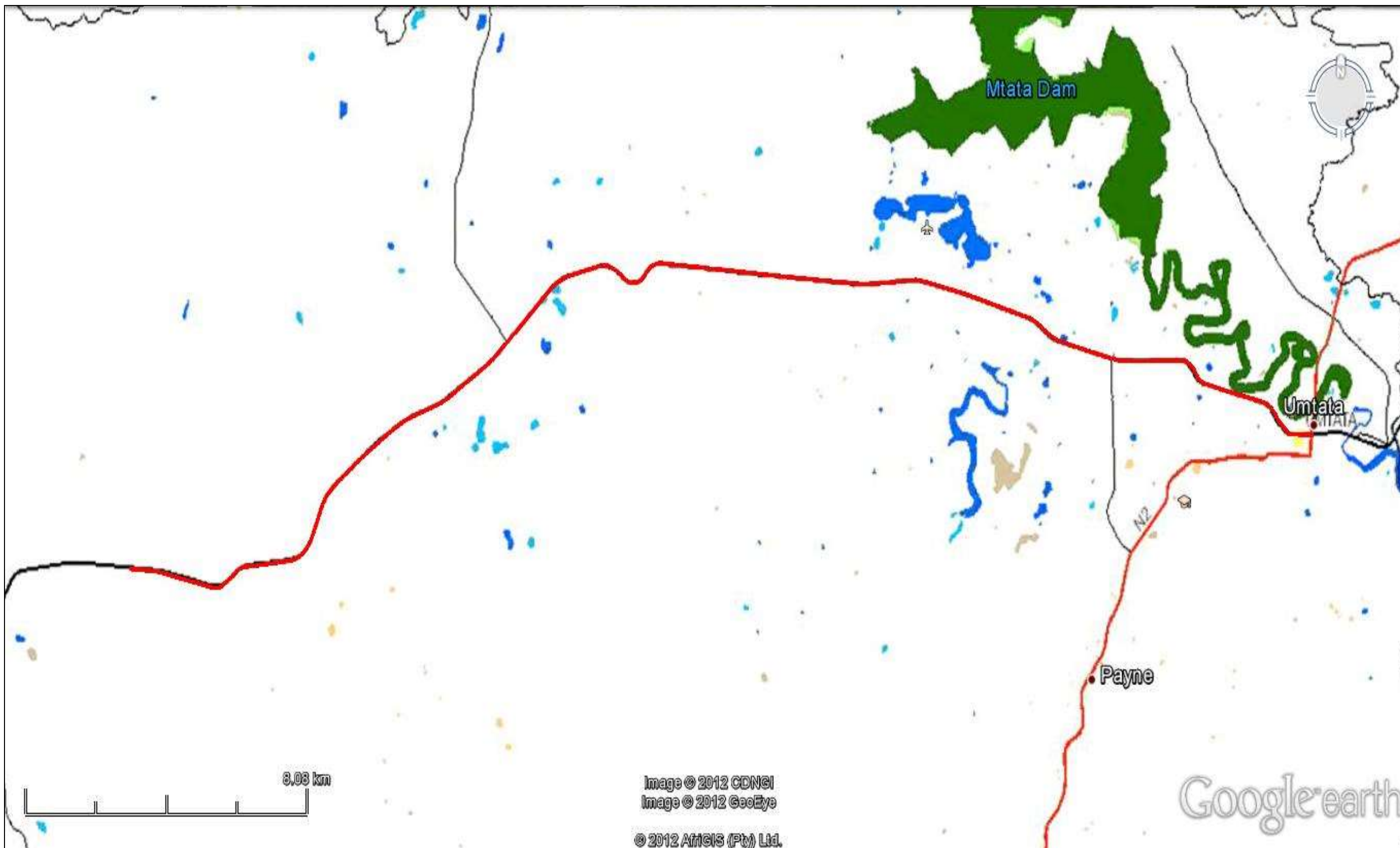
A-1: The horizontal alignment of the R61 Road upgrade.



A-2: Locations of the different bridges/ major culverts within the study site.



A-3: Location of the proposed mining sites.



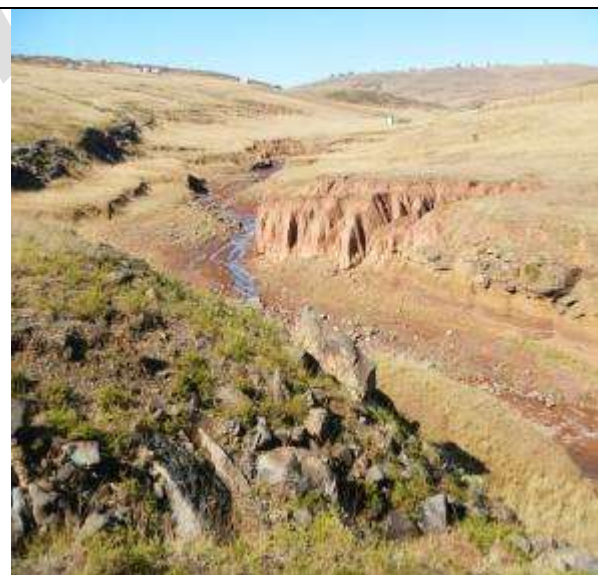
A-4: Location of all wetlands within 1km of the R61 road.

Appendix B
Site photographs

Photographs were taken every few kilometers from the starting point in Baziya.



BASIC ASSESSMENT REPORT



BASIC ASSESSMENT REPORT



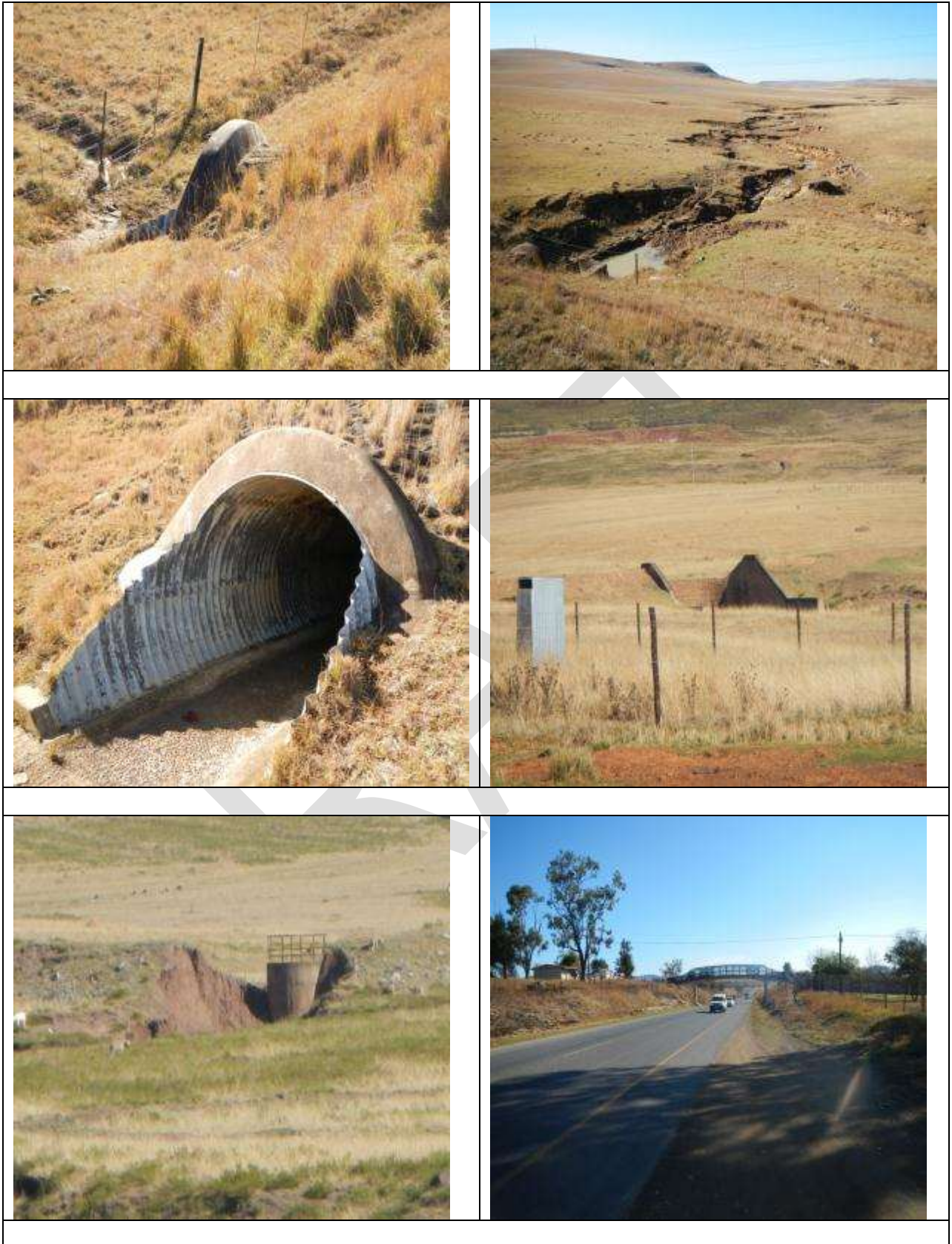


BASIC ASSESSMENT REPORT

Photographs of all the bridges and culverts proposed for upgrading



BASIC ASSESSMENT REPORT



BASIC ASSESSMENT REPORT

GPS Co-ordinates of other (minor) culverts associated with stormwater management that is found along the R61 Section 7:

Additional minor culverts	GPS Co-ordinates
Minor culvert 1	S 31°36.119" E 28°27.223"
Minor culvert 2	S 31°37.102" E 28°27.869"
Minor culvert 3	S 31°36.003" E 28°28.012"
Minor culvert 4	S 31°36.438" E 28°29.449"
Minor culvert 5	S 31°35.570" E 28°30.306"
Minor culvert 6	S 31°33.266" E 28°36.520"
Minor culvert 7	S 31°34.361" E 28°43.736"
Minor culvert 8	S 31°34.680" E 28°45.430"
Minor culvert 9	S 31°34.794" E 28°45.955"
Minor culvert 10	S 31°36.893" E 28°25.189"
Minor culvert 11	S 31°36.929" E 28°25.626"
Minor culvert 12	S 31°36.942" E 28°25.919"
Minor culvert 13	S 31°36.951" E 28°26.046"
Minor culvert 14	S 31°36.955" E 28°26.096"
Minor culvert 15	S 31°36.968" E 28°26.241"
Minor culvert 16	S 31°37.012" E 28°26.747"
Minor culvert 17	S 31°37.043" E 28°26.884"
Minor culvert 18	S 31°37.190" E 28°27.589"
Minor culvert 19	S 31°37.183" E 28°27.678"
Minor culvert 20	S 31°37.138" E 28°27.818"
Minor culvert 21	S 31°36.883" E 28°28.684"
Minor culvert 22	S 31°36.870" E 28°28.764"
Minor culvert 23	S 31°36.850" E 28°28.960"
Minor culvert 24	S 31°36.365" E 28°29.484"
Minor culvert 25	S 31°36.187" E 28°29.568"
Minor culvert 26	S 31°36.069" E 28°29.642"
Minor culvert 27	S 31°36.027" E 28°29.678"
Minor culvert 28	S 31°35.897" E 28°29.840"
Minor culvert 29	S 31°35.822" E 28°29.951"
Minor culvert 30	S 31°35.756" E 28°30.040"
Minor culvert 31	S 31°35.718" E 28°30.097"
Minor culvert 32	S 31°35.680" E 28°30.147"
Minor culvert 33	S 31°35.649" E 28°30.191"
Minor culvert 34	S 31°35.437" E 28°30.494"
Minor culvert 35	S 31°35.368" E 28°30.603"
Minor culvert 36	S 31°35.144" E 28°31.033"
Minor culvert 37	S 31°35.039" E 28°31.297"
Minor culvert 38	S 31°35.024" E 28°31.351"
Minor culvert 39	S 31°34.990" E 28°31.471"
Minor culvert 40	S 31°34.917" E 28°31.687"
Minor culvert 41	S 31°34.876" E 28°31.766"
Minor culvert 42	S 31°34.826" E 28°31.852"
Minor culvert 43	S 31°34.756" E 28°31.977"
Minor culvert 44	S 31°34.711" E 28°32.060"
Minor culvert 45	S 31°34.343" E 28°32.609"
Minor culvert 46	S 31°33.969" E 28°33.126"

BASIC ASSESSMENT REPORT

Additional minor culverts	GPS Co-ordinates
Minor culvert 47	S 31°33.857" E 28°33.247"
Minor culvert 48	S 31°33.770" E 28°33.356"
Minor culvert 49	S 31°33.542" E 28°33.626"
Minor culvert 50	S 31°33.484" E 28°33.698"
Minor culvert 51	S 31°33.420" E 28°33.802"
Minor culvert 52	S 31°33.311" E 28°34.150"
Minor culvert 53	S 31°33.268" E 28°34.377"
Minor culvert 54	S 31°33.231" E 28°34.635"
Minor culvert 55	S 31°33.307" E 28°34.862"
Minor culvert 56	S 31°33.429" E 28°35.066"
Minor culvert 57	S 31°33.443" E 28°35.140"
Minor culvert 58	S 31°33.346" E 28°35.360"
Minor culvert 59	S 31°33.286" E 28°35.414"
Minor culvert 60	S 31°33.214" E 28°35.558"
Minor culvert 61	S 31°33.209" E 28°35.680"
Minor culvert 62	S 31°33.215" E 28°35.773"
Minor culvert 63	S 31°33.222" E 28°35.865"
Minor culvert 64	S 31°33.227" E 28°35.965"
Minor culvert 65	S 31°33.233" E 28°36.050"
Minor culvert 66	S 31°33.239" E 28°36.120"
Minor culvert 67	S 31°33.246" E 28°36.242"
Minor culvert 68	S 31°33.288" E 28°36.810"
Minor culvert 69	S 31°33.295" E 28°36.928"
Minor culvert 70	S 31°33.325" E 28°37.350"
Minor culvert 71	S 31°33.358" E 28°37.867"
Minor culvert 72	S 31°33.380" E 28°38.162"
Minor culvert 73	S 31°33.424" E 28°38.772"
Minor culvert 74	S 31°33.432" E 28°38.892"
Minor culvert 75	S 31°33.444" E 28°39.017"
Minor culvert 76	S 31°33.460" E 28°39.317"
Minor culvert 77	S 31°33.454" E 28°39.423"
Minor culvert 78	S 31°33.432" E 28°39.798"
Minor culvert 79	S 31°33.418" E 28°39.952"
Minor culvert 80	S 31°33.406" E 28°40.203"
Minor culvert 81	S 31°33.440" E 28°40.447"
Minor culvert 82	S 31°33.453" E 28°40.552"
Minor culvert 83	S 31°33.515" E 28°40.826"
Minor culvert 84	S 31°33.533" E 28°40.956"
Minor culvert 85	S 31°33.566" E 28°41.080"
Minor culvert 86	S 31°33.678" E 28°41.513"
Minor culvert 87	S 31°33.750" E 28°41.807"
Minor culvert 88	S 31°33.838" E 28°42.152"
Minor culvert 89	S 31°33.863" E 28°42.250"
Minor culvert 90	S 31°33.915" E 28°42.382"
Minor culvert 91	S 31°33.998" E 28°42.508"
Minor culvert 92	S 31°34.098" E 28°42.664"
Minor culvert 93	S 31°34.178" E 28°42.920"

BASIC ASSESSMENT REPORT

Additional minor culverts	GPS Co-ordinates
Minor culvert 94	S 31°34.250" E 28°43.232"
Minor culvert 95	S 31°34.275" E 28°43.351"
Minor culvert 96	S 31°34.304" E 28°43.480"
Minor culvert 97	S 31°34.370" E 28°43.798"
Minor culvert 98	S 31°34.396" E 28°44.103"
Minor culvert 99	S 31°34.393" E 28°44.226"
Minor culvert 100	S 31°34.393" E 28°44.331"
Minor culvert 101	S 31°34.393" E 28°44.445"
Minor culvert 102	S 31°34.391" E 28°44.748"
Minor culvert 103	S 31°34.390" E 28°45.023"
Minor culvert 104	S 31°34.462" E 28°45.189"
Minor culvert 105	S 31°34.637" E 28°45.321"
Minor culvert 106	S 31°34.696" E 28°45.504"
Minor culvert 107	S 31°34.770" E 28°45.842"
Minor culvert 108	S 31°34.813" E 28°46.046"
Minor culvert 109	S 31°34.861" E 28°46.277"
Minor culvert 110	S 31°34.890" E 28°46.408"
Minor culvert 111	S 31°34.989" E 28°46.702"

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Appendix D
Specialists Reports


- Summary of Specialist Reports
- Heritage Impact Assessment
- Wetland Delineation Report
- Ecological Impact Assessment
- Sensitivity Assessment

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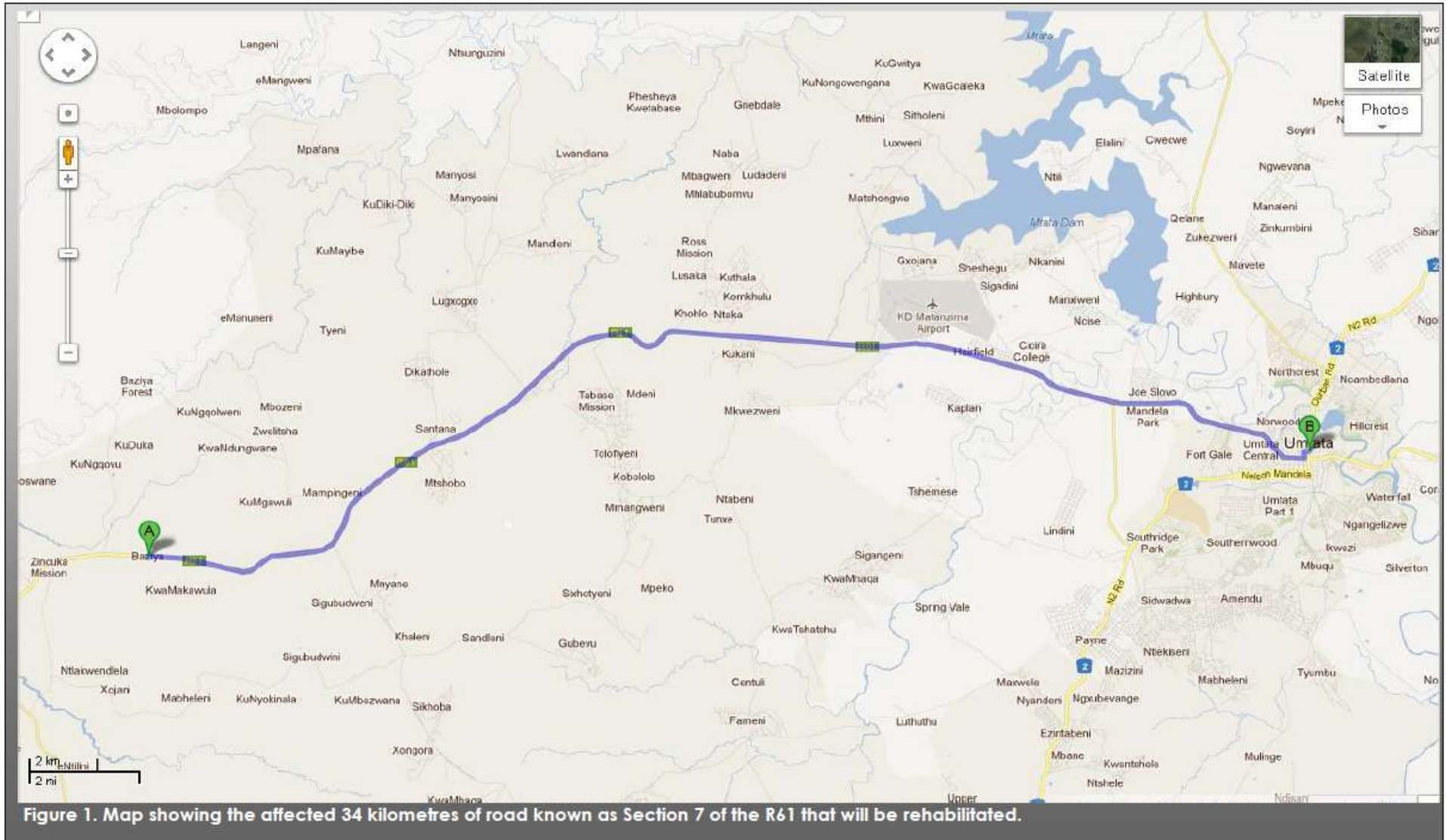
**Appendix E
Public Participation**

Background information Document (BID):

**BACKGROUND INFORMATION DOCUMENT & INVITATION TO COMMENT:
Proposed rehabilitation of Section 7 of the R61 National Route from Baziya to Mthatha, Eastern Cape.**

<p>AIM OF THIS DOCUMENT The aim of this Background Information Document is to provide people affected by and interested in the proposed project with information about this project, the process being followed and to provide them with an opportunity to be involved in the EIA process.</p> <p>Interested and Affected Parties (I&APs) may raise issues of concern. These will be examined and included in the Reports.</p> <p>The findings of the EIA will be provided to DEA for final decision making, as to whether or not the project should go ahead and if so under what conditions.</p> <p style="text-align: center;">Return address for comments:</p> <p style="text-align: center;">Roy de Kock 1 Hampton Court 2 Marine Terrace P.O Box 8145 Nahoon, 5210</p> <p>Tel: (043) 742 3302 Fax: (043) 742 3306 Email: r.dekock@cesnet.co.za</p> <p style="text-align: center;">Your involvement in this process is critical, and will help ensure that all relevant issues are raised and assessed in the EIA process</p> <div style="text-align: center;">  </div>	<p style="text-align: center;">BACKGROUND</p> <p>SANRAL (South African National Roads Agency Ltd) is proposing the rehabilitation and widening of Section 7 of the R61 National Route, from Baziya to Mthatha.</p> <p style="text-align: center;">PROJECT DESCRIPTION</p> <p>Notice is hereby given in terms of Regulation 54(2) published in Government Notice No. R543 under Chapter 5 of the National Environmental Management Act (Act 107 of 1998) (NEMA), of the intent to submit an application for an Environmental Impact Assessment (EIA) to the Department of Environmental Affairs (DEA). The process will also include a Water Use License application as regulated by the National Water Act (Act No. 36 of 1998), and a quarry mining license as regulated by the Minerals and Petroleum Resources Development Act (Act No. 28 of 2002).</p> <p>Coastal & Environmental Services has been commissioned to undertake the Environmental Impact Assessment. You are hereby invited to register as an Interested & Affected Party (I&AP). Please submit your name, contact information and any comments to the contact person below within 30 days.</p> <p style="text-align: center;">RELEVANT LEGISLATION</p> <p>The Government Notice R.543 in terms of the National Environmental Management Act (Act No 107 of 1998) identifies activities in terms of 24(2) (a) and (d) which may not commence without an authorisation from the competent authority Department of Environmental Affairs (DEA). In order to apply for authorisation for the investigation, assessment and communication of potential impacts of the activities must follow the procedure as described in regulations 27 to 36 of the Environmental Impact Assessment Regulations, (2010), promulgated in terms of section 24(5) of the Act.</p> <p>The proposed project is subject to a Basic Impact Assessment in terms of the following listed activities:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 2px;">GN R 544: 11 (iii), (vi) & (xi)</td> <td style="padding: 2px;">The construction of – (iii) Bridges; (vi) Bulk stormwater outlet structures; (xi) Infrastructure covering 50 square metres or more; Where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse.</td> </tr> <tr> <td style="padding: 2px;">GN R 544: 18 (i)</td> <td style="padding: 2px;">The infilling or depositing of any material of more than 5 cubic meters into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock from – (i) A watercourse.</td> </tr> <tr> <td style="padding: 2px;">GN R 544: 39 (iii) & (v)</td> <td style="padding: 2px;">The expansion of – (iii) Bridges; (v) Bulk stormwater outlet structures; Within a watercourse or within 32 meters of a water course, where such an expansion will result in an increased development footprint.</td> </tr> <tr> <td style="padding: 2px;">GN R 544: 47 (i)</td> <td style="padding: 2px;">The widening of a road by more than 6 meters, or the lengthening of a road by more than 1 kilometre – (i) Where the existing road reserve is wider than 13.5 meters.</td> </tr> <tr> <td style="padding: 2px;">GN R 546: 19 (a) ii (ee)</td> <td style="padding: 2px;">The widening of a road by more than 4 meters – (a) In the Eastern Cape ii. Outside urban areas ee. In critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority.</td> </tr> </table> <p>The following Specialist studies will be conducted to identify all relative impacts and recommend possible mitigations:</p> <ul style="list-style-type: none"> • A Heritage Impact assessment • Palaeontological Impact Assessment • Aquatic Eco-status Impact Assessment • Ecological Impact Assessment • Sensitivity Impact Assessment 	GN R 544: 11 (iii), (vi) & (xi)	The construction of – (iii) Bridges; (vi) Bulk stormwater outlet structures; (xi) Infrastructure covering 50 square metres or more; Where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse.	GN R 544: 18 (i)	The infilling or depositing of any material of more than 5 cubic meters into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock from – (i) A watercourse.	GN R 544: 39 (iii) & (v)	The expansion of – (iii) Bridges; (v) Bulk stormwater outlet structures; Within a watercourse or within 32 meters of a water course, where such an expansion will result in an increased development footprint.	GN R 544: 47 (i)	The widening of a road by more than 6 meters, or the lengthening of a road by more than 1 kilometre – (i) Where the existing road reserve is wider than 13.5 meters.	GN R 546: 19 (a) ii (ee)	The widening of a road by more than 4 meters – (a) In the Eastern Cape ii. Outside urban areas ee. In critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority.
GN R 544: 11 (iii), (vi) & (xi)	The construction of – (iii) Bridges; (vi) Bulk stormwater outlet structures; (xi) Infrastructure covering 50 square metres or more; Where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse.										
GN R 544: 18 (i)	The infilling or depositing of any material of more than 5 cubic meters into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock from – (i) A watercourse.										
GN R 544: 39 (iii) & (v)	The expansion of – (iii) Bridges; (v) Bulk stormwater outlet structures; Within a watercourse or within 32 meters of a water course, where such an expansion will result in an increased development footprint.										
GN R 544: 47 (i)	The widening of a road by more than 6 meters, or the lengthening of a road by more than 1 kilometre – (i) Where the existing road reserve is wider than 13.5 meters.										
GN R 546: 19 (a) ii (ee)	The widening of a road by more than 4 meters – (a) In the Eastern Cape ii. Outside urban areas ee. In critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority.										

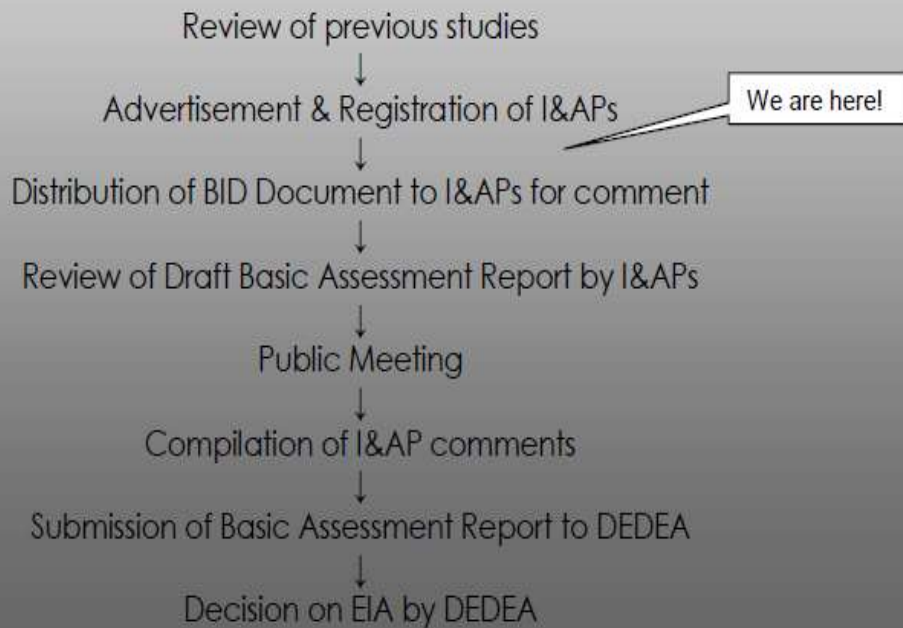
BASIC ASSESSMENT REPORT



APPROACH TO THIS BASIC ASSESSMENT REPORT

The process required for the proposed project is a Basic Environmental Assessment. This process serves primarily to inform the public and relevant authorities about the proposed project and to determine any impacts. Should all impacts and issues be adequately addressed in the report, it will serve as the final document. However, if not, the process will proceed into the next stage which is a full Environmental Impact Assessment.

Basic Assessment Process



HOW CAN YOU BE INVOLVED?

A Public Participation Process (PPP) is being conducted as part of the environmental process. The aim of the PPP is to allow everyone who is interested in, or likely to be affected by the proposed development to provide input into the process.

The Public Participation Process will include:

- Advertisement in the local newspaper
- Notice board on site
- Circulation of the BID (this document) to all identified I&APs
- Comments period
- Review of the report by all registered I&APs and DEA (National)
- A public meeting



**PROPOSED REHABILITATION OF SECTION 7 ON THE R61
FROM BAZIYA TO MTHATHA, EASTERN CAPE
NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT
AND INVITATION TO REGISTER AS AN I&AP**

Notice is hereby given in terms of Regulation 54(2) published in Government Notice No. R543 under Chapter 5 of the National Environmental Management Act (Act 107 of 1998) (NEMA), of the intent to submit an Environmental Impact Assessment (EIA) application to the Department of Environmental Affairs (DEA).

Proponent and Location:

SANRAL (South African National Roads Agency Ltd.) is proposing the rehabilitation of Section 7 on the R61 National Route from Baziya to Mthatha, in the Eastern Cape Province.

Project Activities:

The proposed project includes the widening of the existing road cross-section for climbing lanes, widening of the existing road reserve from 32m to 50m wide, strengthening of existing pavement, rehabilitation or reconstruction of major drainage structures and bridges, the improvement of a section of the road from a single carriageway into a dual carriageway. The process will also include a Water Use Licence application regulated by the National Water Act (Act No. 36 of 1998) and a quarry mining licence as regulated by the Minerals and Petroleum Resources Development Act (Act No. 28 of 2002).

Listed Activities:

The proposed project requires a BASIC ENVIRONMENTAL ASSESSMENT due to the following activities listed in terms of GN R 544 and 546:

- GN R 544 No 11: The construction of
 - (iii) Bridges,
 - (vi) Bulk stormwater outlet structures,
 - (xi) Infrastructure covering 50 square meters or more.
 Where such construction occurs within a watercourse or within 32 meters of a watercourse, measured from the edge of a watercourse.
- Activity 18(i) ; 39 (iii) & (v); 47(i)
- GN R 546 No 19: The widening of a road by more than 4 meters
 - (a) In the Eastern Cape
 - (ii) Outside urban areas
 - (ee) In critical biodiversity areas as identified in systematic biodiversity plans adopted by the competent authority.

Coastal & Environmental Services has been commissioned to undertake the Environmental Impact Assessment. You are hereby invited to register as an Interested & Affected Party (I&AP). Please submit your name, contact information and any comments to the contact person below within 30 days.

For more information, registration as an I&AP or submission of written comments contact by post, phone, fax or e-mail:

Contact details: Mr Roy de Kock, PO Box 8145, East London, 5210,
Tel: 043 742 3302, Fax: 043 742 3306, e-mail: rdekock@cesnet.co.za

Date of advert: 28 June 2012

Proof of advert placed on the Daily Dispatch on 28 June 2012.



Photo proof of notice placed on site.

Proof of notification of all stakeholders on project initiation:

1. Notification letter sent to all stakeholders:

COASTAL & ENVIRONMENTAL SERVICES
Environmental Management and Impact Assessment



67 African Street P.O. Box 934
Grahamstown 6140 SOUTH AFRICA
Tel: 046-822 2364 Fax: 046-822 6564
International: +27-46-622 2364
Email: info@cesnet.co.za
Website: www.cesnet.co.za

2 Marine Terrace P.O. Box 8145
East London 5210 SOUTH AFRICA
Tel: 043-722 5812 Fax: 043-742 3306
International: +27-43-722 5812
Email: cesel@cesnet.co.za
Website: www.cesnet.co.za

27 July 2012

Dear Stakeholder:

**NOTICE: PROPOSED REHABILITATION OF THE NATIONAL ROUTE R61 SECTION 7
FROM BAZIYA TO MTHATHA, EASTERN CAPE**

Proponent: The South African National Roads Agency (SANRAL) is proposing the upgrade of a section of the National Road R61 between Baziya and Mthatha in the Eastern Cape Province. Arcus Gibb has been appointed by SANRAL as the project Engineers who subcontracted Coastal and Environmental Services (CES) as the Environmental Assessment Practitioner (EAP).

Public Participation: A critical element of the Environmental Impact Assessment is the Public Participation. The objective is to contact, notify and inform members of the community who may be interested and/or affected by the proposed road upgrade, in order that any such party may fully participate, interact and inform the EIA process.

Activity: The activities that the proponent is applying for is the upgrade and construction of a 34km section of road by widening the existing road for climbing lanes and to provide the requisite level of service both in terms of geometrics and pavement structure, and reinforcing the existing pavement. A section of the road will be widened to a dual carriageway on both lanes. A number of "river crossing bridges" and drainage structures will also be reconstructed, widened and rehabilitated.

This letter of notification serves to inform you, in terms of Regulation 54 of the regulations published in Government Notice No. R 543 under Chapter 5 of the National Environmental Management Act (Act 107 of 1998), as amended 2010, of the intention to carry out a Basic Assessment for approval by the authorities of the Department of Environmental Affairs (DEA, Pretoria).

For more information, registration as an Interested and Affected Party (I&AP), or submission of written comments, please contact by phone, fax, post or email the person below within 30 days of this notice.

Coastal & Environmental Services
Attn: Ms. Nande Suka
PO Box 8145
East London
Tel: 043 742 3302
Fax: 043 742 3306
E-mail: n.suka@cesnet.co.za

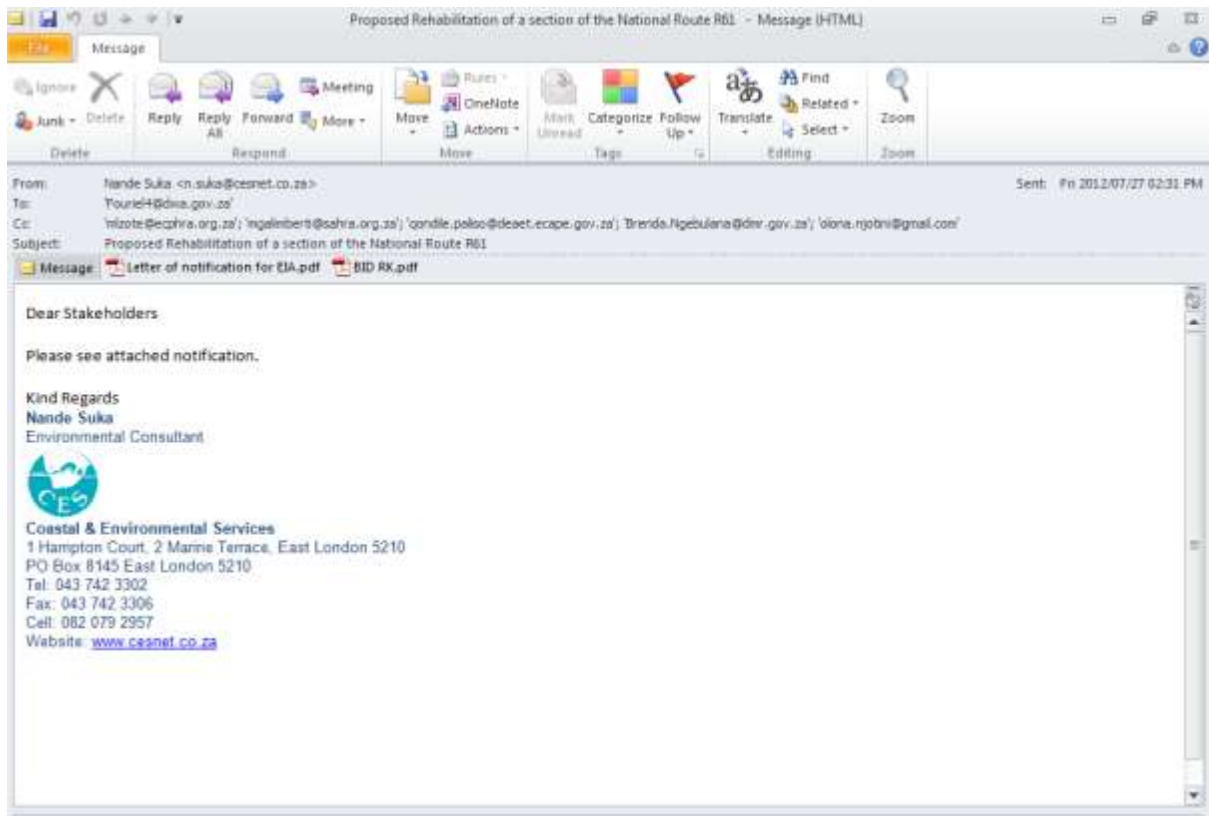
Mr Roy de Kock
PO Box 8145
East London
Tel: 043 742 3302
Fax: 043 742 3306
E-mail: r.dekock@cesnet.co.za

Kind regards

Roy de Kock
Environmental Consultant
Coastal & Environmental Services

BASIC ASSESSMENT REPORT

2. E-mail to Stakeholders:



3. Email notification of Public Review Period:

Proof that DEDEAT was given a copy of the Draft BAR to review and comment on:

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BASIC ASSESSMENT REPORT

I&AP database:

Organisation/association	Name/contact person	e-mail	Tel:	Fax:	cell
Identified Stakeholders					
DWA	Lizna Fourie (Licensing)	Fouriel4@dwa.gov.za	043 701 0248		
ECPHRA (EC Heritage)	Mzikayise L Zote	mizote@ecphra.org.za	043 642 2811	043 642 2812	076 836 5467
SAHRA	M Galimberti	mgalimberti@sahra.org.za			
DEDEAT	Qondile Paliso	qondile.paliso@deaet.ecape.gov.za	047 531 2287		071 874 8728
DMR	Brenda Ngebulana	Brenda.Ngebulana@dmr.gov.za			
Dept of Human Settlement	Olona Njoteni (Regional Director)	olona.njoteni@gmail.com	0475313511		0798822460
I&AP's					

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Appendix F
Impact Assessment

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