



## mineral resources

Department:  
Mineral Resources  
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATIONS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

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### IMPORTANT NOTICE

**Kindly note that:**

1. As from 8 December 2014, this document serves as the application form, and incorporates the requisite documents that are to be submitted together with the application for the necessary environmental authorisations in terms of the said Acts.
2. This application form is applicable while the Mineral and Petroleum Resources Development Amendment Act of 2008 is in effect, as the form may require amendment should the Act be further amended.
3. Applicants are required to apply for the necessary water use licence and any other authorisations nor licences to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right or permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use licence has been applied for.
4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
5. 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.
6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorisation and consequently of the right or permit applied for.
7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.

PLEASE STATE TYPE OF AUTHORISATIONS BEING APPLIED FOR.

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R10 000.00	X
NEMA BAR application on its own	R 2 000.00	
NEMWA S&EIR application on its own	R10 000.00	
NEMWA BAR application on its own	R 2 000.00	
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	

1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT

2. DETAILS OF THE APPLICANT

Project applicant:	Department of Water and Sanitation		
Registration no (if any):	N/A		
Trading name (if any):	N/A		
Responsible Person, (e.g. Director, CEO, etc.):	Chief Engineer: Options Analysis (South)		
Contact person:	Menard Mugumo		
Physical address:	185 Frances Baard Street, Sedibeng Building, Pretoria		
Postal address:	Private Bag X313, PRETORIA		
Postal code:	0001	Cell:	082 804 5162
Telephone:	012 336 6838	Fax:	012 336 7399
E-mail:	MugumoM@dws.gov.za		

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Donavan Henning		
Professional affiliation/registration:	<ul style="list-style-type: none"> <li>Environmental Assessment Practitioners of South Africa (EAPSA)</li> <li>IAIA</li> </ul>		
Contact person (if different from EAP):	Same		
Company:	Nemai Consulting		
Physical address:	No. 147 Bram Fischer Drive, Ferndale, 2194		
Postal address:	P.O. Box 1673 Sunninghill		
Postal code:	2157	Cell:	082 891 0604
Telephone:	011 781 1730	Fax:	011 781 1731
E-mail:	donavanh@nemai.co.za		

If an EAP has not been appointed please ensure that an independent EAP is appointed as stipulated by the NEMA Regulations, prior to the commencement of the process.

The declaration of independence and the Curriculum Vitae (indicating the experience with environmental impact assessment and relevant application processes) of the EAP must also be attached as **Appendix 1**.



#### 4. PROJECT DESCRIPTION

Farm Name:	See table below and refer to maps in Appendix 4.
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	Name	Coordinates	Property Description	SG Code	Area
Borrow Pits	C3	NW: 32°38'31.15"S, 26°16'09.65"E SW: 32°38'46.87"S, 26°16'10.46"E NE: 32°38'29.80"S, 26°16'30.93"E SE: 32°38'45.10"S, 26°16'30.12"E	Ptn 1 of Elands Drift 86	C02500000000008600001	27 Ha
	C2	NW: 32°39'01.93"S, 26°15'58.27"E SW: 32°39'16.10"S, 26°16'00.34"E NE: 32°39'01.02"S, 26°16'08.43"E SE: 32°39'15.15"S, 26°16'10.91"E	Ptn 1 of Elands Drift 86	C02500000000008600001	12 Ha
			Ptn 5 of Elands Drift 86	C02500000000008600005	
			Ptn 7 of Elands Drift 86	C02500000000008600007	
			Ptn 3 of Elands Drift 86	C02500000000008600003	
	C6	NW: 32°39'24.56"S, 26°16'03.92"E SW: 32°39'46.06"S, 26°16'08.27"E NE: 32°39'22.02"S, 26°16'24.81"E SE: 32°39'43.23"S, 26°16'29.41"E	Erf 1 of Adelaide	C02500010000000100000	37 Ha
			111	C02500000000011100000	
			Ptn 2 of Mancasana Drift 126	C01000000000012600002	
	C7	NW: 32°39'51.12"S, 26°15'59.08"E SW: 32°40'06.28"S, 26°15'58.67"E NE: 32°39'51.33"S, 26°16'05.77"E SE: 32°40'06.50"S, 26°16'05.12"E	Erf 1 of Adelaide	C02500010000000100000	8 Ha
			Leeuw Hoek 129	C01000000000012900000	
Quarry	D1	NW: 32°40'24.74"S, 26°15'51.43"E SW: 32°40'35.81"S, 26°16'00.02"E NE: 32°40'13.72"S, 26°16'11.62"E SE: 32°40'23.73"S, 26°16'20.12"E	Erf 1 of Adelaide	C02500010000000100000	25 Ha
			Leeuw Hoek 129	C01000000000012900000	
	Centreline	NW: 32°40'32.98"S, 26°16'05.72"E SW: 32°40'40.11"S, 26°16'12.12"E NE: 32°40'24.02"S, 26°16'20.27"E SE: 32°40'30.02"S, 26°16'26.46"E	Erf 1 of Adelaide	C02500010000000100000	12 Ha
	D2	NW: 32°40'38.21"S, 26°16'15.72"E SW: 32°40'48.52"S, 26°16'26.06"E NE: 32°40'32.30"S, 26°16'24.02"E SE: 32°40'42.18"S, 26°16'34.51"E	Erf 1 of Adelaide	C02500010000000100000	12 Ha
			Leeuw Hoek 129	C01000000000012900000	
	Quarry	NW: 32°36'56.38"S, 26°15'27.07"E SW: 32°37'24.41"S, 26°15'37.46"E NE: 32°36'40.64"S, 26°15'57.67"E SE: 32°36'56.58"S, 26°16'16.69"E		C01000000000011500000	90 Ha
			Fathers Poort 116	C01000000000011600000	
			Faders Poort 114	C01000000000011400000	

Application area (Ha)	See table above
Magisterial district:	Adelaide Eastern Cape
Distance and direction from nearest town	Most southern borrow pit located approximately 3.3 km from the town of Adelaide.
21 digit Surveyor General Code for each farm portion	See table above
Locality map	Attach a locality map at a scale not smaller than 1:250000 and attach as <b>Appendix 2</b>
<p>Description of the overall activity.</p> <p>(Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)</p>	<p>DWS is investigating the feasibility of developing a multi-purpose dam on the Koonap River outside of Adelaide in the Eastern Cape. The proposed site is known as the Foxwood Dam site.</p> <p>The components of the proposed project include the following:</p> <p><b><u>Major storage dam (Foxwood Dam) -</u></b></p> <ul style="list-style-type: none"> <li>• Dam wall</li> <li>• Embankment</li> <li>• Dam outlet works (including dam intake tower, tunnel and outlet valve house)</li> <li>• Access roads (construction and operation)</li> <li>• Quarry and earthfill borrow areas</li> <li>• Electrical supply</li> </ul> <p><b><u>Bulk water supply pipeline -</u></b></p> <ul style="list-style-type: none"> <li>• Pump station</li> <li>• Pipeline and associated structures</li> </ul> <p><b><u>Gauging Weir -</u></b></p> <ul style="list-style-type: none"> <li>• Weir and associated instrumentation</li> <li>• Access roads (construction and operation)</li> <li>• Electrical supply</li> </ul> <p><b><u>Relocation of Infrastructure -</u></b></p> <ul style="list-style-type: none"> <li>• Relocate water supply canal</li> <li>• Relocate R344 &amp; Relocate MR00639</li> <li>• Relocate Telkom telephone line</li> <li>• Relocate Eskom power line</li> </ul> <p>The proposed dam is a 1 Mean Annual Runoff (MAR) composite concrete gravity and earth embankment dam. The concrete gravity section is made up of a spillway section and a non-overflow section.</p> <p>Earthfill borrow areas and a quarry have been identified to source construction material for the project. Mining Right to be applied for.</p>



## 5. ACTIVITIES TO BE AUTHORISED

(Please provide copies of Environmental Authorisations obtained for the same property as **Appendix 3**).

(For an application for authorisation that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated. Please note that any authorisation that may result from this application will only cover activities specifically applied for). (Attach a proposed site plan, drawn to a scale acceptable to the competent Authority, showing the location of all the activities to be applied for, as **Appendix 4**)

NAME OF ACTIVITY	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY	APPLICABLE LISTING NOTICE	WASTE MANAGEMENT AUTHORISATION																				
(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)		(Mark with an <b>X</b> where applicable or affected).	(Regulation Notice 983; 984; 985)	(Indicate whether an authorisation is required in terms of the Waste Management Act).  (Mark with an <b>X</b> )																				
Mining - sourcing construction material by creating a quarry and borrow areas.	<table><tr><td rowspan="7">Borrow Pits</td><td>Name</td><td>Area</td></tr><tr><td>C3</td><td>27 Ha</td></tr><tr><td>C2</td><td>12 Ha</td></tr><tr><td>C6</td><td>37 Ha</td></tr><tr><td>C7</td><td>8 Ha</td></tr><tr><td>D1</td><td>25 Ha</td></tr><tr><td>Centreline</td><td>12 Ha</td></tr><tr><td>D2</td><td>12 Ha</td></tr><tr><td colspan="2">Quarry</td><td>90 Ha</td></tr></table>	Borrow Pits	Name	Area	C3	27 Ha	C2	12 Ha	C6	37 Ha	C7	8 Ha	D1	25 Ha	Centreline	12 Ha	D2	12 Ha	Quarry		90 Ha	X Activity no. 21	GN No. R.983	N/A
			Borrow Pits	Name	Area																			
				C3	27 Ha																			
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				C6	37 Ha																			
				C7	8 Ha																			
				D1	25 Ha																			
Centreline	12 Ha																							
D2	12 Ha																							
Quarry		90 Ha																						
X Activity no. 17	GN No. R.984	N/A																						
X Activity no. 18	GN No. R.984	N/A																						
X Activity no. 19	GN No. R.984	N/A																						
X Activity no. 21	GN No. R.984	N/A																						
Decommissioning – reinstatement and rehabilitation of borrow areas C3 and D2 as well as the quarry, which are situated outside of the dam basin, following the sourcing of construction material.	<table><tr><td rowspan="3">Borrow Pits</td><td>Name</td><td>Area</td></tr><tr><td>C3</td><td>27 Ha</td></tr><tr><td>D2</td><td>12 Ha</td></tr><tr><td colspan="2">Quarry</td><td>90 Ha</td></tr></table>	Borrow Pits	Name	Area	C3	27 Ha	D2	12 Ha	Quarry		90 Ha	X Activity no. 22	GN No. R.983	N/A										
			Borrow Pits	Name	Area																			
				C3	27 Ha																			
D2	12 Ha																							
Quarry		90 Ha																						

**6. PUBLIC PARTICIPATION**  
(Provide details of the public participation process proposed for the application as required by Regulation.

**Details of the Public Participation process to be followed.**

**6.1.1. IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED**

IDENTIFICATION CRITERIA	Mark with an X where applicable	
	YES	NO
Will the landowner be specifically consulted?	X	
Will the lawful occupier on the property other than the Landowner be consulted?	X	
Will a tribal authority or host community that may be affected be consulted?	N/A	
Will recipients of land claims in respect of the area be consulted?	<i>To be confirmed</i>	
Will the landowners or lawful occupiers of neighbouring properties been identified?	X	
Will the local municipality be consulted?	X	
Will the Authority responsible for power lines within 100 metres of the area be consulted?	X	
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?	X	
Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? (Specify) <i>Telephone Line</i>	X	
Will the Provincial Department responsible for the environment be consulted?	X	
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above?	X	
Will all the parties identified above be requested in writing to provide information as to how their interests (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project?	X	
Other, Specify	-	



## 6.1.2. DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

<p><b>Steps to be taken to notify interested and affected parties</b>(Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice boards, and copies of advertisements and notices notifying potentially interested and affected parties of the proposed application must be attached as Appendix)</p>	<p><b>PROVIDE DESCRIPTION HERE</b></p> <p>The following tasks have been undertaken to date as part of the overall EIA process:</p> <ul style="list-style-type: none"> <li>• Background Information Documents and Reply Forms, as well as Notification Letters, were prepared and forwarded to the Interested and Affected Parties (I&amp;APs) contained in the database.</li> <li>• Onsite notices (English, Afrikaans and Xhosa), which also served to announce the project, provided the details of the public meetings and explained how to register as an I&amp;AP, were placed at strategic points within the project footprint.</li> <li>• A total of 600 postal inserts were placed at the following locations: <ul style="list-style-type: none"> <li>○ Bedford Post Office;</li> <li>○ Adelaide Post Office;</li> <li>○ Bedford Municipal Office; and</li> <li>○ Adelaide Golf Course.</li> </ul> </li> <li>• Advertisements were placed in the following newspapers on 16 October 2013 as notification of the project and the public meetings: <ul style="list-style-type: none"> <li>○ Die Burger (05 March 2015);</li> <li>○ The Herald (06 March 2015); and</li> <li>○ Winterberg News (05 March 2015).</li> </ul> </li> <li>• A public meeting was held on 24 March 2015.</li> <li>• I&amp;APs were notified of the review of the Draft Scoping Report and public meetings via letters and newspaper advertisements.</li> </ul> <p>Going forward, the following public participation tasks will be undertaken:</p> <ul style="list-style-type: none"> <li>• Update A Comments and Response Report.</li> <li>• Update I&amp;AP Database, as necessary.</li> <li>• Notification – Approval of Scoping Report and Review of EIA Report:</li> <li>• Advertisements will be placed in newspapers as notification that the Scoping Report has been approved, as well as of the review of the EIA Report and the details of the public meeting.</li> <li>• In addition, all I&amp;APs will be notified o phase via fax, email or registered mail (as necessary).</li> <li>• A 30-day period will be provided to I&amp;APs to review the Draft EIA Report, and copies of the document will be lodged for public review.</li> <li>• A public meeting will be held during the review period for the Draft EIA Report.</li> <li>• A Comments and Response Report will be compiled and included in the EIA Report.</li> <li>• All I&amp;APs will be notified via email, fax or post after having received written notice on the final decision. Newspaper advertisements will also be placed.</li> </ul>
<p><b>Information to be provided to Interested and Affected Parties.</b></p>	<p><b>Compulsory</b></p> <ul style="list-style-type: none"> <li>• The site plan.</li> <li>• List of activities to be authorised</li> <li>• Scale and extent of activities to be authorised</li> <li>• Typical impacts of activities to be authorised ( e.g.surface disturbance, dust, noise, drainage, fly rock etc.)</li> <li>• The duration of the activity.</li> <li>• Sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land)</li> </ul> <p><b>Other, specify:</b></p>
<p><b>Information to be required from Interested and Affected Parties.</b></p>	<p><b>Compulsory</b></p> <ul style="list-style-type: none"> <li>• To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions</li> <li>• To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity</li> <li>• To provide information on current land uses and their location within the area under consideration</li> <li>• To provide information on the location of environmental features on site to make proposals as to how and to what standard the impacts on site can be remedied. requested to make written proposals</li> <li>• To mitigate the potential impacts on their socio economic conditions to make proposals as to how the potential impacts on their infrastructure can be managed, avoided or remedied).</li> </ul>



## 7. Description of the assessment process to be undertaken

ITEM	DESCRIPTION
<b>Environmental attributes.</b> Describe how the Environmental attributes associated with the development footprint will be determined.	The environment in the project area was primarily assessed in the Scoping phase through site visits and appraisals, desktop screening via Geographical Information System (GIS) and aerial photography, incorporating existing information from previous studies, and input received from authorities and I&APs.
<b>Identification of impacts and risks.</b> (Describe the process that will be used to identify impacts and risks.	<p>The potential environmental impacts associated with the proposed project were identified during the Scoping phase through an appraisal of the following:</p> <ul style="list-style-type: none"> <li>Proposed locations and footprint of the project infrastructure and components, which included a desktop evaluation with a GIS and aerial photography, as well as site investigations;</li> <li>Activities associated with the project life-cycle (i.e. pre-construction, construction, operation and decommissioning);</li> <li>Nature and profile of the receiving environment and potential sensitive environmental features and attributes;</li> <li>Input received during public participation from authorities and I&amp;APs; and</li> <li>Legal and policy context.</li> </ul>
<b>Consideration of alternatives.</b> Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined.	<p>Various options to meeting the project's objectives were considered during the Technical Feasibility Study, which eventually lead to the identification of alternatives to be investigated as part of the EIA.</p> <p>The feasible options are taken forward in the impact prediction, where the potential positive and adverse effects to the environmental features and attributes are examined further. The EIA phase will include a detailed comparative analysis of the project's feasible alternatives that emanate from the Scoping exercise, which will include environmental (with specialist input) and technical evaluations. This will ultimately result in the selection of a Best Practicable Environmental Option.</p>
<b>Process to assess and rank impacts.</b> Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.	<p>The EIA quantitative impact assessment will further focus on the direct and indirect impacts associated with the project. All impacts will be analysed with regard to their nature, extent, magnitude, duration, probability and significance. The following definitions and criteria apply:</p> <div> <p><b><u>Nature (/Status)</u></b></p> <p>The project could have a positive, negative or neutral impact on the environment.</p> </div> <div> <p><b><u>Extent</u></b></p> <ul style="list-style-type: none"> <li>Local - extend to the site and its immediate surroundings.</li> <li>Regional - impact on the region but within the province.</li> <li>National - impact on an interprovincial scale.</li> <li>International - impact outside of South Africa.</li> </ul> </div> <div> <p><b><u>Magnitude</u></b></p> <p>Degree to which impact may cause irreplaceable loss of resources.</p> <ul style="list-style-type: none"> <li>Low - natural and social functions and processes are not affected or minimally affected.</li> <li>Medium - affected environment is notably altered; natural and social functions and processes continue albeit in a modified way.</li> <li>High - natural or social functions or processes could be substantially affected or altered to the extent that they could temporarily or permanently cease.</li> </ul> </div> <div> <p><b><u>Duration</u></b></p> <ul style="list-style-type: none"> <li>Short term - 0-5 years.</li> </ul> </div>



	<ul style="list-style-type: none"> <li>• Medium term - 5-11 years.</li> <li>• Long term - impact ceases after the operational life cycle of the activity either because of natural processes or by human intervention.</li> <li>• Permanent - mitigation either by natural process or by human intervention will not occur in such a way or in such a time span that the impact can be considered transient.</li> </ul> <p><b>Probability</b></p> <ul style="list-style-type: none"> <li>• Almost certain - the event is expected to occur in most circumstances.</li> <li>• Likely - the event will probably occur in most circumstances.</li> <li>• Moderate - the event should occur at some time.</li> <li>• Unlikely - the event could occur at some time.</li> <li>• Rare/Remote - the event may occur only in exceptional circumstances.</li> </ul> <p><b>Significance</b></p> <p>Provides an overall impression of an impact's importance, and the degree to which it can be mitigated. The range for significance ratings is as follows-</p> <p>0 – Impact will not affect the environment. No mitigation necessary.</p> <p>1 – No impact after mitigation.</p> <p>2 – Residual impact after mitigation.</p> <p>3 – Impact cannot be mitigated.</p>
<p><b>Contribution of specialist reports</b> Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.</p>	<p>The information obtained from the respective specialist studies will be incorporated into the EIA report in the following manner:</p> <ol style="list-style-type: none"> <li>1. The information will be used to complete the description of the receiving environment in a more detailed and site-specific manner;</li> <li>2. A summary of each specialist study will be contained in the report, focusing on the approach to the study, key findings and conclusions drawn;</li> <li>3. The evaluations performed by the specialists on the alternatives will be included in the comparative analysis to identify the most favourable option;</li> <li>4. The specialists' impacts assessment, and the identified mitigation measures, will be included in the overall project impact assessment;</li> <li>5. Specialist input will be obtained to address comments made by I&amp;APs that related to specific environmental features pertaining to each specialist discipline; and</li> <li>6. Salient recommendations made by the specialists will be taken forward to the final EIA Conclusions and Recommendations.</li> </ol>
<p><b>Determination of impact management objectives and outcomes.</b> Describe how impact management objectives will be determined for each activity to address the potential impact at source, and how the impact management outcomes will be aligned with standards.</p>	<p>The Environmental Management Programme (EMPr) will provide performance criteria required to address potential environmental impacts during the project life-cycle.</p> <p>The EMPr will address the following:</p> <ul style="list-style-type: none"> <li>• Establish management objectives during the project life-cycle in order to enhance benefits and minimise adverse environmental impacts;</li> <li>• Provide targets for management objectives, in terms of desired performance;</li> <li>• Describe actions required to achieve management objectives;</li> <li>• Outline institutional structures and roles required to implement the EMPr; and</li> <li>• Provide legislative framework.</li> </ul> <p>Provision will be made in the EMPr for the following types of monitoring:</p> <ul style="list-style-type: none"> <li>• Baseline Monitoring (determine to the pre-construction state of the receiving environment);</li> <li>• Environmental Monitoring (checking, at pre-determined frequencies, whether thresholds and baseline values for certain environmental parameters are being exceeded); and</li> <li>• Compliance Monitoring and Auditing.</li> </ul>



## 8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	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			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			X
National Water Act	X			X
National Heritage Resources Act	X			X
Others: Please specify				
National Forests Act (No. 84 of 1998)	X			X

Please provide proof of submission of applications in **Appendix 5**.

In the event that an authorization in terms of the National Environmental Waste Management Act is required for any of the activities applied for please state so clearly in order for such an authorisation to be considered as part of this application.

## 9. DRAFT EMPr

For consultation purposes, provide a high level approach to the management of the potential environmental impacts of each of the activities applied for.

ACTIVITIES	PHASE (of operation in which activity will take place).	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining:- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	State; Planning and design, Pre-Construction Construction, Operational, Rehabilitation, Closure, Post closure.	(volumes, tonnages and hectares or m²)	(Eg, storm water control, dust control, noise control, access control, rehabilitation etc..., etc....)	(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
<i>Note that a comprehensive list of mitigation measures will be included in the EMPr for the project's life-cycle. Certain key measures are listed below.</i>				
<b>Mining:</b>				
	Construction	To be confirmed	<ul style="list-style-type: none"> <li>Borrow pits and quarries situated outside of the dam basin to be created, operated and rehabilitated in accordance with the EMPr, as authorised by the Department of Mineral Resources.</li> </ul>	<p>The environmental parameters to be included as part of the environmental monitoring programme, which is to be undertaken by the Contractor, includes the following:</p> <ol style="list-style-type: none"> <li>Air Quality – <ul style="list-style-type: none"> <li>Dust fallout;</li> <li>Particulate matter</li> </ul> </li> </ol>



			<ul style="list-style-type: none"> <li>• Construction activities to remain within the designated construction areas.</li> <li>• Subsoil and overburden should be stockpiled separately to be returned for backfilling in the correct soil horizon order.</li> <li>• Suitable barricading to be erected around open excavations / trenches, as per the Construction Regulations (2003).</li> <li>• Provide signage as a warning of open excavations.</li> <li>• Divert runoff away from excavations, where necessary.</li> <li>• Prior to commencing with blasting activities, the blasting Contractor should submit a Method Statement which should comply with the Explosives Regulations (2003) and all relevant SANS standards and health and safety standards for mitigating blasting.</li> <li>• The Contractor shall employ industry standard methods to control the impact of blasting and limit the risk of damage to buildings and structures by reducing blast vibrations induced in the rock mass, eliminating fly rock and limiting air-blast and noise to acceptable levels..</li> <li>• Remove, stockpile and preserve topsoil for re-use during rehabilitation.</li> <li>• Implement suitable stormwater management measures at borrow pits and quarry.</li> <li>• No direct discharge of sediment laden water without treatment.</li> <li>• Manage dangerous conditions (e.g. steep slopes, loose and unstable material).</li> <li>• Subject to approval,</li> </ul>	<p>(PM<sub>10</sub>);</p> <ol style="list-style-type: none"> <li>2. Noise; and</li> <li>3. Water quality.</li> </ol> <p>Dust fallout - Comply with ASTM D1739; SANS 1929, SANS 69.</p> <p>Noise levels - Comply with SANS 10103:2008.</p> <p>All water discharges to comply with legal requirements associated with the National Water Act (Act No. 36 of 1998), including GN No. 399.</p> <p>Analysis is to be undertaken at a SANS 17025 certified laboratory.</p>
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			certain borrow pits and / or quarry may be utilised for the disposal of spoil material and inert building rubble.	
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## 10. CLOSURE PLAN

In the space provided under each heading below, please provide a high level description of the plan for closure and the information that will be provided in the draft EMPr accompanying draft basic assessment report or environmental impact reports going forward.	
<b>Baseline environment</b> Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical environment	Questionnaire to be provided to I&APs with specific reference to environmental status quo of affected properties (including sensitive environmental features, existing structures, current land use, etc.
<b>Closure objectives</b> Describe the closure objectives and the extent to which they will be aligned to the baseline environment	<p>Subject to approval, certain borrow pits and / or quarry may be utilised for the disposal of spoil material and inert building rubble.</p> <p>Borrow pit C3 and D2 as well as the quarry, which are located outside of the dam basin, will be rehabilitated. Management objectives in this regard will include:</p> <ul style="list-style-type: none"> <li>• Adequate reinstatement and rehabilitation of construction areas (outside dam basin); and</li> <li>• Conduct concurrent or progressive rehabilitation of areas affected by construction activities that are situated outside of the dam footprint.</li> </ul> <p>Specific objectives and targets to be set in the EMPr for the following:</p> <ul style="list-style-type: none"> <li>• Removal of structures and infrastructure;</li> <li>• Inert waste and rubble;</li> <li>• Hazardous waste and pollution control;</li> <li>• Final shaping;</li> <li>• Topsoil replacement and soil amelioration;</li> <li>• Ripping and scarifying;</li> <li>• Planting;</li> <li>• Grassing; and</li> <li>• Maintenance and monitoring.</li> </ul>
<b>Rehabilitation Plan</b> Describe the scale and aerial extent of the prospecting or mining listed activities to be authorised, including the anticipated prospecting or mining area at the time of closure, and confirm that a site rehabilitation plan drawn to a suitable scale will be provided in the draft EMPr to be submitted together with the draft EIR or Basic Assessment Report as the case may be.	<p><i>Refer to table in Section 4 and maps in Appendix 4 for the areas of the borrow pits and quarry.</i></p> <p>Rehabilitation plan to be developed for borrow pit C3 and D2 as well as the quarry, which are located outside of the dam basin. Provision to be made in the EMPr for rehabilitation requirements.</p> <p>Performance criteria in terms of rehabilitation to be provided in the project specification in the form of minimum standards and measures to be implemented by the Contractor. The Contractor shall provide detailed method statements on how the performance criteria will be met, through the application of the specification. These methods are to be reviewed and approved by the Project Manager to ensure that they are adequate.</p>
<b>Rehabilitation Cost</b> Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof	To be confirmed during the design phase. Provision for rehabilitation to be included in the Contractor's bill of quantities, in accordance with the specifications.
<b>Decommissioning</b> Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting or mining activity.	Contractor to conduct concurrent or progressive rehabilitation of areas affected by construction activities that are situated outside of the dam footprint, as required.





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

DEPARTMENT OF WATER AND SANITATION

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Name of company (if applicable):

3.11.2015

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Date:

## APPENDIX 1 DECLARATION OF THE EAP

I, **Donavan Henning**, declare that –

General declaration:

- 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.



**Disclosure of Vested Interest (delete whichever is not applicable)**

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;
- ~~I have a vested interest in the proposed activity proceeding, such vested interest being:~~

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

N/A

\_\_\_\_\_  
Signature of the environmental assessment practitioner:

\_\_\_\_\_  
Nemai Consulting  
Name of company:

\_\_\_\_\_  
09 November 2015  
Date:

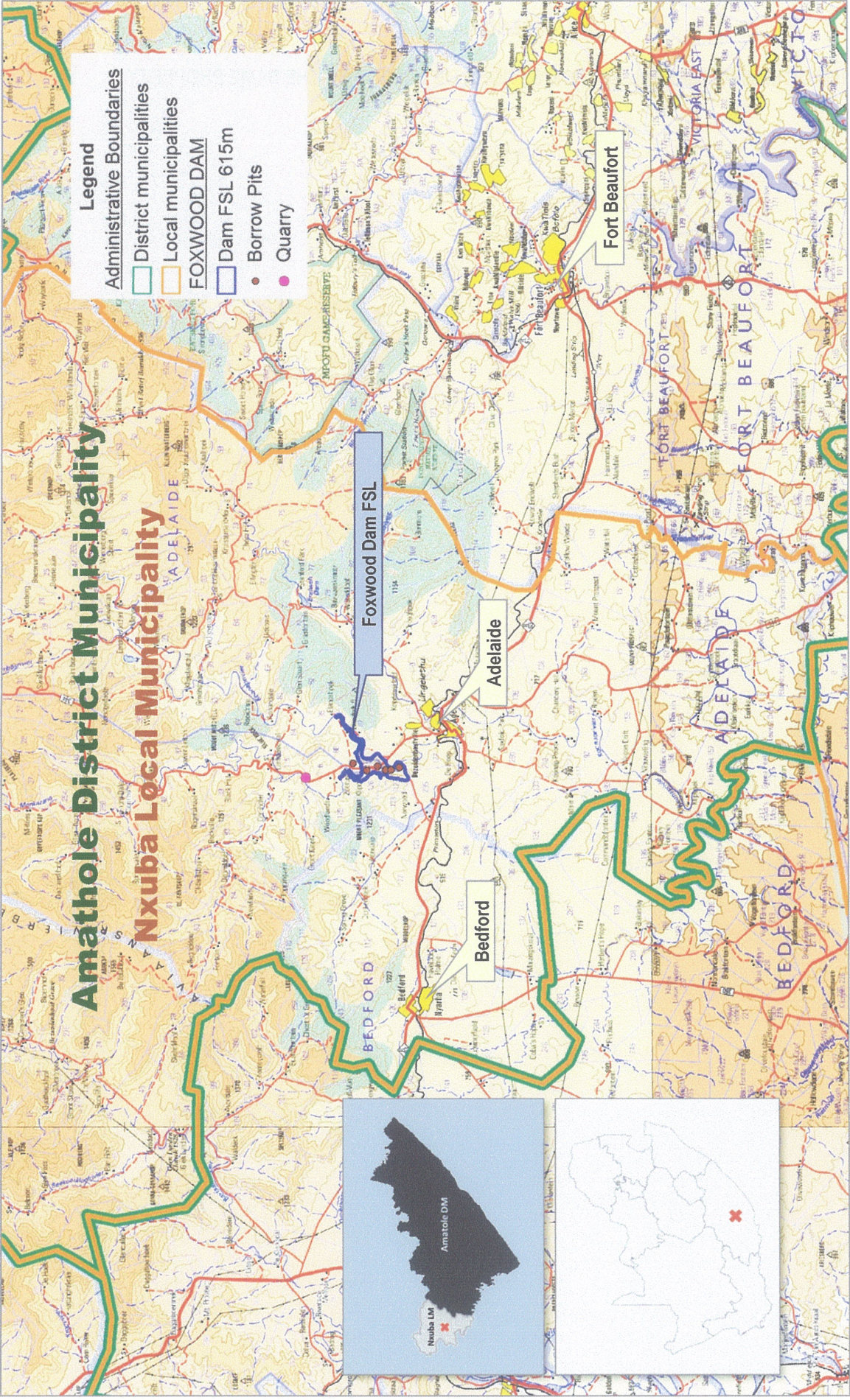
APPENDIX 2  
LOCALITY MAP

MAP OF THE LOCALITY OF THE STUDY AREA, SHOWING THE LOCATION OF THE STUDY AREA IN RELATION TO THE SURROUNDING AREAS.



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## PROPOSED DEVELOPMENT OF FOXWOOD DAM

### REGIONAL LOCALITY MAP



PREPARED FOR:

PREPARED BY:



### APPENDIX 3

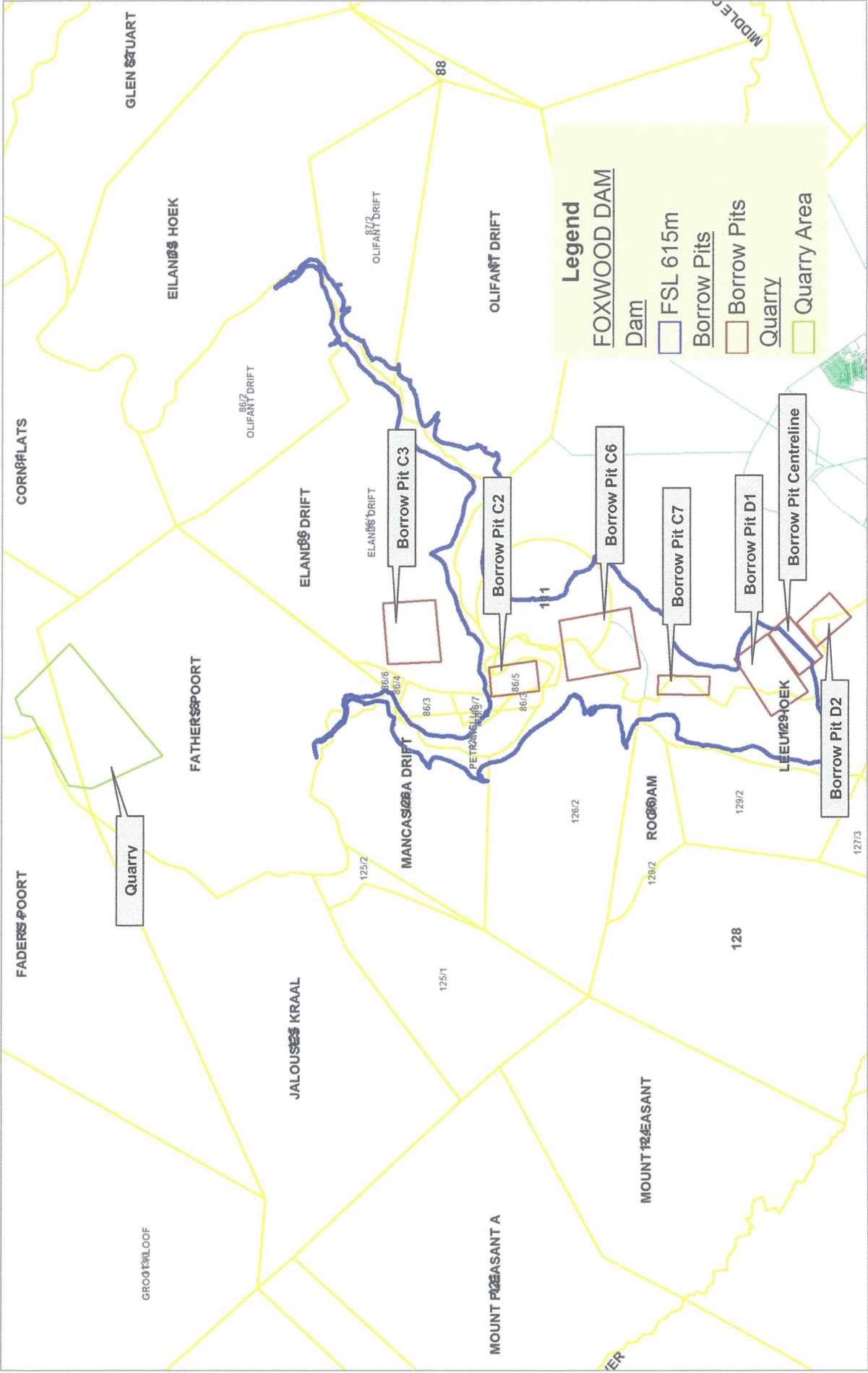
#### COPIES OF ENVIRONMENTAL AUTHORISATIONS OBTAINED FOR THE SAME PROPERTY

*Not applicable*



## APPENDIX 4

PROPOSED SITE PLAN SHOWING THE LOCATION OF ALL THE ACTIVITIES TO BE APPLIED FOR



PREPARED FOR:



PREPARED BY:

## PROPOSED DEVELOPMENT OF FOXWOOD DAM

### CADASTRAL MAP







## APPENDIX 5

### PROOF OF SUBMISSION OF OTHER AUTHORISATIONS REQUIRED

*Proof will only be provided in the EIA phase for applications submitted in terms of*

- *Mineral Petroleum Development Resources Act*
- *National Water Act*

*Applications in terms of the following pieces of legislation will only be undertaken during the project's design phase (if necessary):*

- *National Environmental Management: Biodiversity Act;*
- *National Heritage Resources Act;*
- *National Forests Act; and*
- *National Environmental Management: Waste Act.*