Our Ref: 9/2/219/0001

Enquiries: Phillip Hine Tel: 021 462 4502 Email: phine@sahra.org.za CaseID: 174 Date: Wednesday February 06, 2013



Interim Comment

Page No: 1

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

Attention: Mr Ayanda Bam Kuyasa Mining (Pty)Ltd Private Bag X 7250 Witbank Mpumalanga 1035

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE CONSTRUCTION OF A 600MW INDEPENDENT POWER PLANT AND ASSOCIATED INFRASTRUCTURE FOR KIPOWER (PTY) LTD NEAR DELMAS IN MPUMLANGA

Pistorius, July 2012. A Phase I Heritage Impact Assessment (Hia) Study For A Proposed 600mw Power Plant And Associated Infrastructure For Kipower (Pty) Ltd Near Delmas On The Eastern Highveld In The Mpumalanga Province Of South Africa

KiPower (Pty) Ltd. proposes the development of a 600MW power plant on the farms Haverglen 269IR and Haverklip 265IR, 20km southeast of Delmas, Mpumalanga Province. SAHRA APM commented on the Heritage Scoping Report for this project and recommended the following:

-Since the project will be situated within an area already heavily affected by previous mining activities SAHRA has no objection to the proposed development. However, the recommendations listed below must be implemented:

-A Palaeontological Impact Assessment must be undertaken before mining and construction may proceed. The report must be submitted to SAHRA for further recommendations. If the specialist deems it sufficient, a letter of exemption from further palaeontological studies may submitted to the heritage authority.

-The cemetery on the farm Haverklip will be affected by the proposed ash stock pile and will need to be relocated. If the graves are older than 60 years the developer must ensure that the mandatory 60 day consultation is done and a permit in terms of section 36 of the NHRA (Act no 25 of 1999) must be obtained from SAHRA Burial Grounds and Graves Unit.

-The author recommended that the Homestead Ruin on the farm Haverklip will need to be recorded in detail before it can be demolished. The Homestead Ruin on the farm Haverglen is younger than 60 years so no further action is required. Please note that Decisions in terms of Built Environment must be sought from the Mpumalanga Provincial Heritage Authority (Mr Benjamin Moduka, <u>bmoduka@mpg.gov.za</u>).

-Although the homestead and associated cemetery that is located north of stockpile area close to the R50 falls



The South African Heritage Resources Agency Street Address: 111 Harrington Street, Cape Town 8000 * Postal Address: PO Box 4637, Cape Town 8000 * Tel: +27 21 462 4502 * Fax: +27 21 462 4509 * Web: http://www.sahra.org.za

Our Ref: 9/2/219/0001

Enquiries: Phillip Hine Tel: 021 462 4502 Email: phine@sahra.org.za CaseID: 174 Date: Wednesday February 06, 2013



outside the footprint of the development, SAHRA strongly advises that the developer must ensure that no impact occur on them. These features must be mapped on construction maps and all contractors must be made aware of the legal status of heritage resources. To avoid secondary impacts that may result from the development, SAHRA recommends that the cemetery be fenced and access gates installed to allow visits for relatives and friends.

Page No: 2

-It is not clear from the heritage report if the proposed coal conveyor and sorbent conveyor routes were surveyed. Please note that these routes must be surveyed by a specialist and the results submitted in a report to SAHRA before development proceeds.

The new report submitted to SAHRA identified a further two cemeteries, however, it is only Graveyard 4 that will be affected by the proposed Ash Stockpile Area. This cemetery contains two graves. The cemetery is fenced, although it is overgrown with vegetation.

Decision

1) Since Graveyard 4 falls within the stockpile area the two graves related to this cemetery will need to be relocated. SAHRA BGG Unit will only support relocation dependent on the results of the 60-day public participation process. A Permit will be required in terms of section 36 of the National Heritage Resources Agency (Act no. 25 of 1999). Graveyards 1, 2, and 3 must be retained *in situ*. For this purpose all graves must be cleaned and restored where and a proper fence must be installed with access gates to allow visits from relatives and friends. No development is allowed within 15-20 meters of the graveyards.

2) SAHRA APM Unit specifically requested that the alignment for the coal conveyor be surveyed. The report submitted does not mention the coal conveyor so it is unclear from SAHRA's perspective if this was undertaken. SAHRA APM Unit therefore recommends that before construction starts on the conveyor route, an archaeologist must provide a walk down report to SAHRA APM Unit.

3) SAHRA APM Unit specifically requested a palaeontological impact assessment, which has not been submitted yet. Please note that a PIA must be undertaken or at least a letter of exemption will be required from a professional palaeontologist indicating that such a study is unnecessary. SAHRA will not be able to issue the final comment for this project until the PIA is received.

4) The heritage scoping report undertaken by Dr R. De Jongh recommended that the Homestead Ruin on the farm Haverklip will need to be recorded in full detail. This has not been done during the current study. Decisions regarding the built environment must be sought from the Mpumalanga Provincial Heritage Authority (Mr Benjamin Moduka, <u>bmoduka@mpg.gov.za</u>).

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

Yours faithfully



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Our Ref: 9/2/219/0001

Enquiries: Phillip Hine Tel: 021 462 4502 Email: phine@sahra.org.za CaseID: 174 Date: Wednesday February 06, 2013



Page No: 3

June

Phillip Hine Heritage Officer

l M. Jehny

Colette Scheermeyer SAHRA Head Archaeologist South African Heritage Resources Agency

ADMIN:

Direct URL to case: http://www.sahra.org.za/node/26753 (DEA, Ref: 12/12/20/2333)

Terms & Conditions:

- 1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
- 2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
- 3. SAHRA reserves the right to request additional information as required.



The South African Heritage Resources Agency

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



Our Ref: 9/2/219/0001

Enquiries: Phillip Hine Tel: 021 462 4502 Email: phine@sahra.org.za CaseID: 174 Date: Tuesday August 14, 2012



Final Comment

Page No: 1

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

Attention: Mr Ayanda Bam Kuyasa Mining (Pty)Ltd Private Bag X 7250 Witbank Mpumalanga 1035

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE CONSTRUCTION OF A 600MW INDEPENDENT POWER PLANT AND ASSOCIATED INFRASTRUCTURE FOR KIPOWER (PTY) LTD NEAR DELMAS IN MPUMLANGA

De Jong, R. & Van Vollenhoven, AC. July 2010. Specialist study: Heritage Scoping (Basic Assessment) Report: Input into EIA, IWWMP and IWULA for the proposed Kuyasa IPP power generation plant on portions of the farms Haverglen 269 IR and Haverklip 265 IR near Delmas, Mpumalanga Province.

KiPower proposes the development of an independent 600MW power plant and associated infrastructure, 20km south east of Delmas, Mpumalanga Province. A Scoping Heritage Impact Assessment was conducted for the proposed development which investigated two site alternatives. Preferred Site 1 refers to Site 3 (Ash Stock) in the EIA report and Preferred Site 2 refers to Site 5 (Power Plant Footprint) in the EIA report. It is noted that the Heritage Report reviewed three areas, Site 1 and 2 for the proposed Power Plant footprint and an area north of Preferred Site 2 (Site 5) for the Ash Dump (landfill site).

The Haverglen Farmstead Ruin is situated on the proposed power footprint site, but since the site is younger than 60 years it is of low significance. A small cemetery with two graves and a homestead ruin is located on the farm Haverklip which is the preferred site for Ash Stockpile. The homestead ruin is older than 60 years but is of low significance. The report does not indicate the age of the graves. The cemetery is fenced and appears to be overgrown; it is assumed that it may be related to the homestead and therefore older than 60 years. The Ash Stock pile will likely have an impact on the cemetery.

A further homestead and associated cemetery is located to the north of the Stock Pile area, close to the R50. However, these features appear to be outside the footprint of the development. The specialist did not provide any specific information on these two sites.

This development was not subject to a palaeontological assessment.

Since the project will be situated within an area already heavily affected by previous mining activities SAHRA has no objection to the proposed development. However, the recommendations listed below must be implemented:

A Palaeontological Impact Assessment must be undertaken before mining and construction may proceed. The



The South African Heritage Resources Agency Street Address: 111 Harrington Street, Cape Town 8000 * Postal Address: PO Box 4637, Cape Town 8000 * Tel: +27 21 462 4502 * Fax: +27 21 462 4509 * Web: http://www.sahra.org.za

Our Ref: 9/2/219/0001

Enquiries: Phillip Hine Tel: 021 462 4502 Email: phine@sahra.org.za CaseID: 174 Date: Tuesday August 14, 2012



report must be submitted to SAHRA for further recommendations. If the specialist deems it sufficient, a letter of exemption from further palaeontological studies may submitted to the heritage authority.

Page No: 2

The cemetery on the farm Haverklip will be affected by the proposed ash stock pile and will need to be relocated. If the graves are older than 60 years the developer must ensure that the mandatory 60 day consultation is done and a permit in terms of section 36 of the NHRA (Act no 25 of 1999) must be obtained from SAHRA Burial Grounds and Graves Unit.

The author recommended that the Homestead Ruin on the farm Haverklip will need to be recorded in detail before it can be demolished. The Homestead Ruin on the farm Haverglen is younger than 60 years so no further action is required. Please note that Decisions in terms of Built Environment must be sought from the Mpumalanga Provincial Heritage Authority (Mr Benjamin Moduka, <u>bmoduka@mpg.gov.za</u>).

Although the homestead and associated cemetery that is located north of stockpile area close to the R50 falls outside the footprint of the development, SAHRA strongly advises that the developer must ensure that no impact occur on them. These features must be mapped on construction maps and all contractors must be made aware of the legal status of heritage resources. To avoid secondary impacts that may result from the development, SAHRA recommends that the cemetery be fenced and access gates installed to allow visits for relatives and friends.

It is not clear from the heritage report if the proposed coal conveyor and sorbent conveyor routes were surveyed. Please note that these routes must be surveyed by a specialist and the results submitted in a report to SAHRA before development proceeds.

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

Yours faithfully

Phillip Hine Heritage Officer

M. Almy



The South African Heritage Resources Agency Street Address: 111 Harrington Street, Cape Town 8000 * Postal Address: PO Box 4637, Cape Town 8000 * Tel: +27 21 452 4502 * Fax: +27 21 462 4509 * Web: http://www.sahra.org.za

Our Ref: 9/2/219/0001

Enquiries: Phillip Hine Tel: 021 462 4502 Email: phine@sahra.org.za CaseID: 174

Colette Scheermeyer SAHRA Head Archaeologist South African Heritage Resources Agency

ADMIN:

Direct URL to case: http://www.sahra.org.za/node/26753 (DEA, Ref: 12/12/20/2333)

Terms & Conditions:

- 1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
- 2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
- 3. SAHRA reserves the right to request additional information as required.

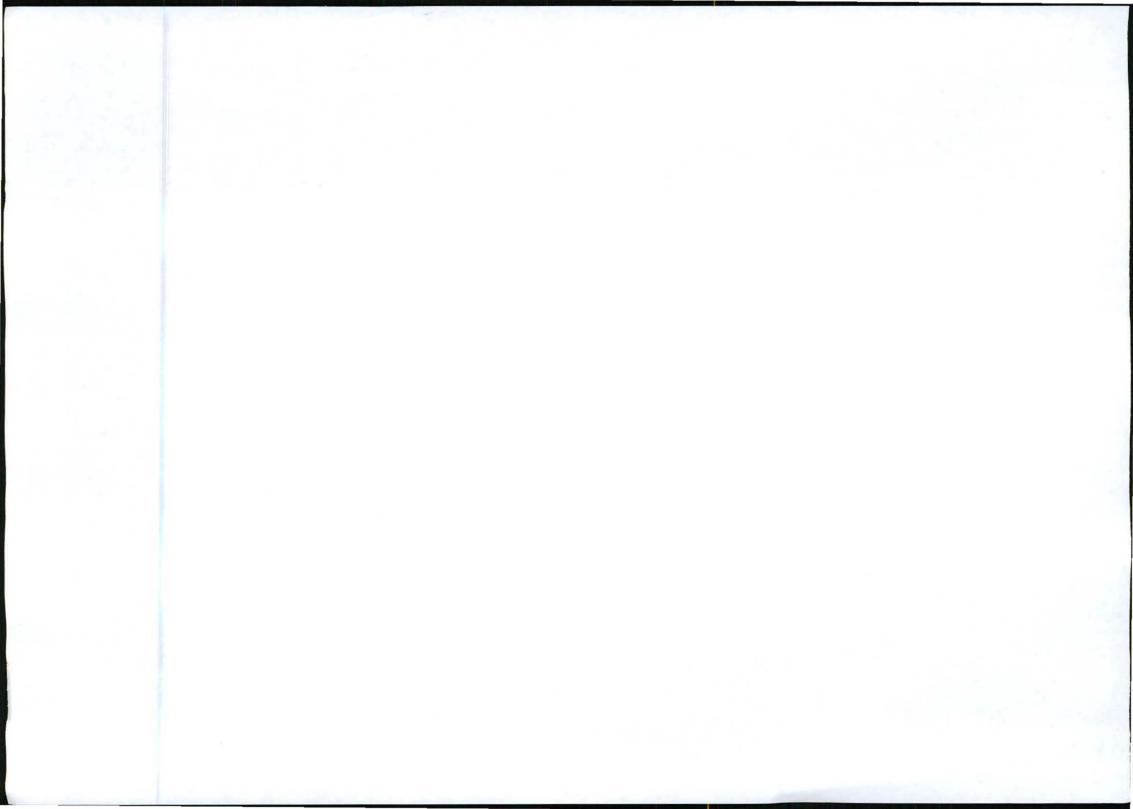


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Date: Tuesday August 14, 2012

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Zitholele Consulting Reg. No. 2000/000392/07

PO Box 6002 Halfway House 1685 South Africa Thandanani Park, Matuka Close Halfway Gardens, Midrand Tel + (27) 11 207 2060 Fax + (27) 86 674 6121 E-mail : mail@zitholele.co.za

Our Ref : 12653: Let-02

22 March 2012

Attention: To whom it may concern

Dear Mr / Ms

INA report on sochis

REVIEW OF THE DRAFT SCOPING REPORT FOR THE PROPOSED 600 MW INDEPENDENT POWER PLANT FOR KIPOWER NEAR DELMAS

(DEA REF: 12/12/20/2333 & NEAS REF DEA/EIA/0000364/2011)

Introduction

An Integrated Environmental Impact Assessment (EIA) and other environmental processes are being undertaken for the proposed construction of an independent power plant and associated infrastructure for KiPower (Pty) Ltd near Delmas in Mpumalanga. KiPower is a subsidiary of Kuyasa Mining, which also owns the Delmas and Ikhwezi Coal Mines, south-east of Delmas in Mpumalanga. KiPower wishes to establish a 600MW power plant in close proximity to Delmas Coal, utilising coal from this mine as the fuel for the power plant. Associated with the power plant, would be an ash disposal facility that must also be located near the plant

As per Government Notice No. 33306 of June 2010, Chapter 2, (6), the Minister, MEC or competent authority (Department of Environmental Affairs - DEA) must consult with <u>every state</u> <u>department</u> that administers a law relating to a matter affecting the environment relevant to that application for an environmental authorisation when he or she considers an application. A state department consulted <u>must submit its comments within 40 days</u> from the date on which the Minister, MEC or competent authority requests such state department, in writing, to submit comments.

In terms of the aforementioned Zitholele Consulting is in the process of distributing the Draft Scoping Report for this proposed project to the relevant departments and organisations, such as yourself, for comment. The relevant organisations that have received a copy of the report are:

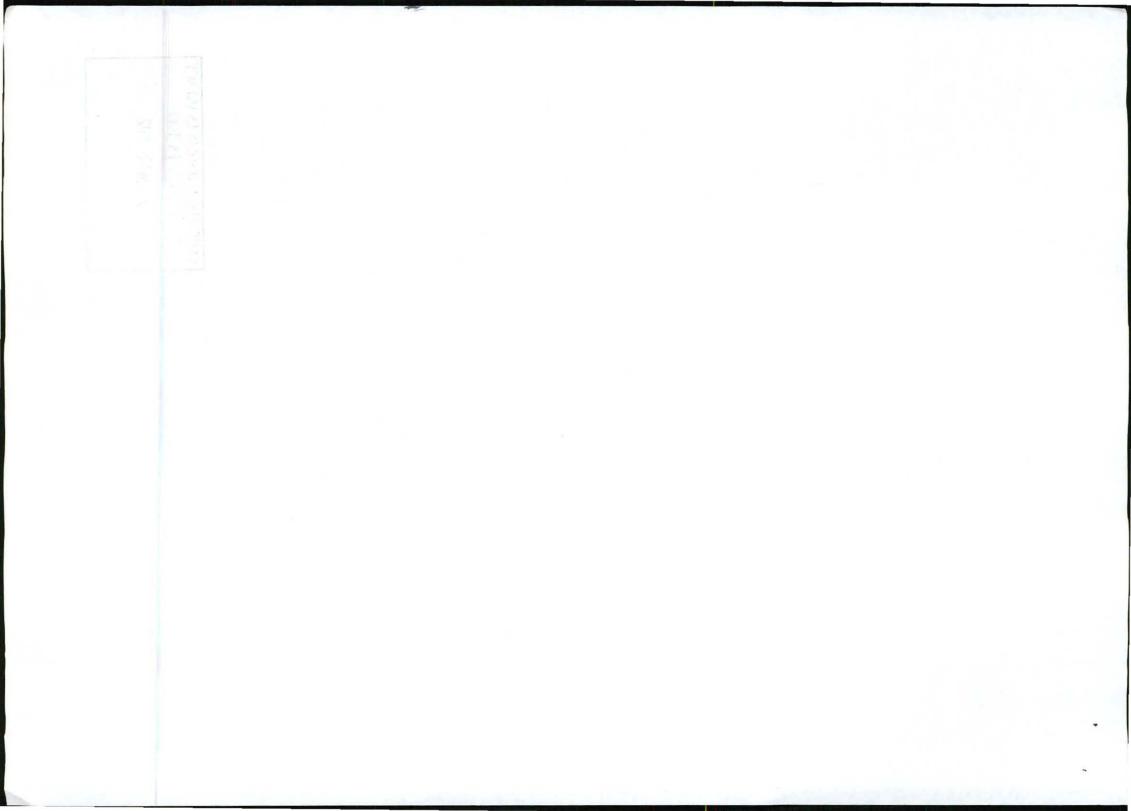
- National Department of Environmental Affairs including the waste section;
- Department of Water Affairs;
- Mpumalanga Department of Economic Development, Environment and Tourism;
- South African Heritage Resource Agency;
- Nkangala District Municipality; and
- Victor Khanye Local Municipality

2 6 MAR 2012

SA HERITAGE RESOURCES AGENCY

RECEIVED





In an aim to minimise delays, Zitholele Consulting has distributed the Draft Scoping Report to the above-mentioned departments and organisations with the objective of facilitating comments to assist the DEA in making an informed decision on whether to approve the Scoping Phase of the project without unforeseen delays.

Please submit your comments to Zitholele Consulting and the DEA before **11 May 2012**. You can submit your comments by fax or email as follows (please remember to use the reference number **[REF NO: 12/12/20/2333 & NEAS REF NO: DEA/EIA/0000364/2011]** with your comments) :

Zitholele Consulting: Fax: 086 676 9950

Email: andrej@zitholele.co.za / patiswam@zitholele.co.za

Fax: (012) 320 7539 Email: <u>nngoveni@environment.gov.za</u>

Attached to this letter is the proposed date of a public meeting that will be held as well as a list of public places where the Draft Scoping Report can be viewed. You are welcome to attend the meeting.

Should you have any queries please don't hesitate to contact me.

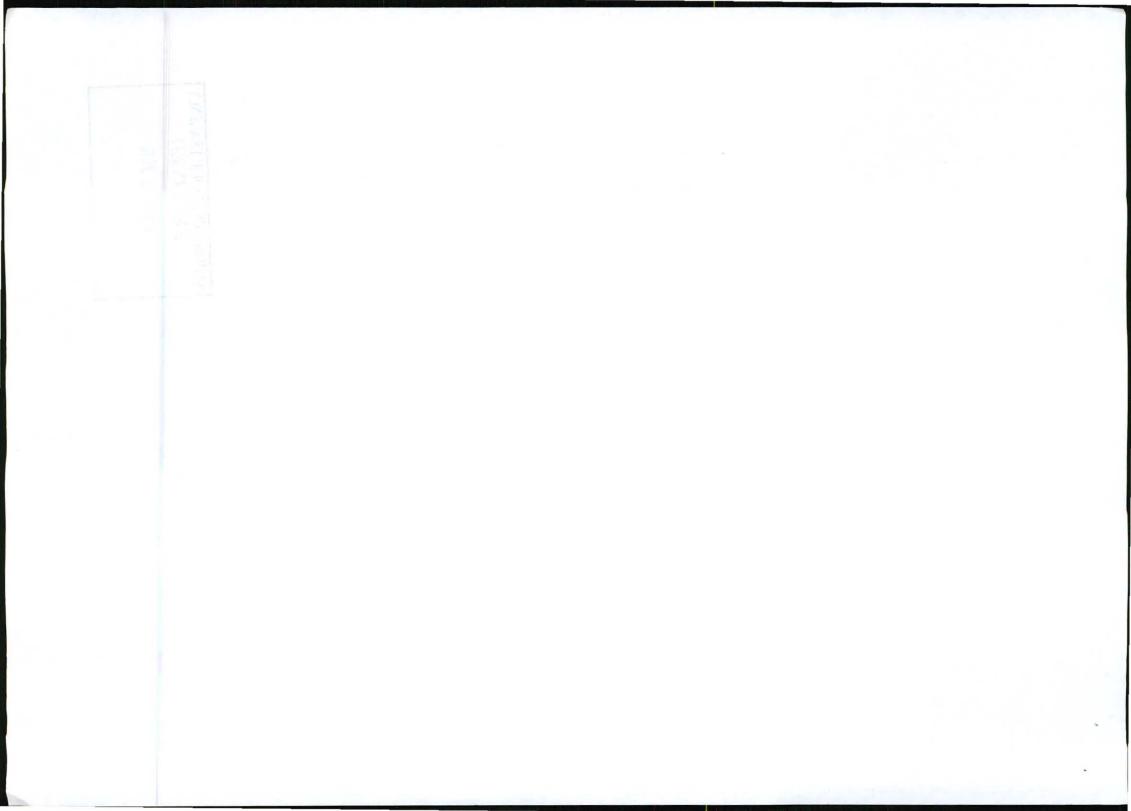
Yours faithfully

Andre Joubert **ZITHOLELE CONSULTING (PTY) LTD** Attachments: 1 x Hard copy of Draft Scoping Report ; 1 x Letter containing arrangement with regards to the public meeting and a list of public places; and Comment Sheet.

> SA HERITAGE RESOURCES AGENCY RECEIVED 2 6 MAR 2012

ZITHOLELE CONSULTING

DEA:





Zitholele Consulting (Pty) Ltd

Reg. No. 2000/000392/07 PO Box 6002 Halfway House 1685 South Africa Thandanani Park, Matuka Close Halfway Gardens, Midrand Tel 011-207 2060 Fax 086-676-9950 E-mail: mail@zitholele.co.za

19 March 2012

Dear Stakeholder

Draft Scoping Report of the proposed 600 MW independent power plant for KiPower near Delmas available for public comment and an invitation to a public meeting (DEA Ref No.: 12/12/20/2333; NEAS Ref No.: DEA/EIA/0000364/2011)

An Integrated Environmental Impact Assessment (EIA) and other environmental processes are being undertaken for the proposed construction of an independent power plant and associated infrastructure for KiPower (Pty) Ltd near Delmas in Mpumalanga. KiPower is a subsidiary of Kuyasa Mining, which also owns the Delmas and Ikhwezi Coal Mines, south-east of Delmas in Mpumalanga. KiPower wishes to establish a 600MW power plant in close proximity to Delmas Coal, utilising coal from this mine as the fuel for the power plant. Associated with the power plant, would be an ash disposal facility that must also be located near the plant.

Documents to announce this process were sent to you during July this year. Zitholele Consulting trusts that you received the documents and wishes to extend sincere thanks to those stakeholders who have already submitted contributions.

Availability of Draft Scoping Report for public review from 22 March to 11 May 2012

In accordance with the EIA Regulations, one of the purposes of a scoping process is to identify issues related to a project. It also provides an opportunity for the public to comment, identify issues and concerns regarding the activity and/or alternatives, suggesting ways of avoiding, reducing or mitigating negative impacts of an activity and enhancing positive impacts. Issues and concerns raised by the public, along with issues identified by the environmental technical specialists, will be used to define the Terms of Reference for the Specialist Studies that will be conducted during the Impact Assessment Phase of the EIA.

The Draft Scoping Report (DSR) also allows Interested and Affected Parties (I&APs) to verify that their contributions have been captured and correctly understood.

The DSR will be available for public review from **Thursday**, **22 March to Friday**, **11 May 2012**. Thereafter the report will be updated and submitted to the lead authority for the EIA, the Department of Environmental Affairs (DEA).

Please use the **enclosed** form to request your own copy of the DSR if you intend to comment. In addition, the DSR will be available at the public places listed below. The DSR will also be available on the Zitholele Consulting website: zitholele.co.za/kipower.

List of Public Places

Contact	Location	Contact Tel
Lydia Mehlape	Delmas Public Library, Delmas	Tel: 013 665 2425
Reception	Delmas Coal	Tel: 013 665 7000
Marius van Zyl	Jones & Wagener, 59 Bevan Road, Bryanston	Tel: 011 519 0220
Andre Joubert	Zitholele Consulting, Thandanani Park, Matuka Close, Halfway Gardens, Midrand	Tel: 011 207 2077

You are requested to comment on the DSR in any of the following ways:

- · By completing the comment sheet enclosed with the reports;
- By writing a letter, or producing additional written submissions;
- · By email or telephone to the public participation office; or
- By attending the public meeting (see below for details).

Invitation to an open house and public meeting on 19 April 2012

You are also invited to an open house and public meeting where the findings of the scoping process will be presented and discussed. The open house is there for stakeholders who cannot make the meeting in the evening to come and discuss the project with the study team.

It is important that you register in advance. Please use the enclosed form and return it by Friday, 13 April 2012. The details of the open house and public meeting are:

Date:	Thursday, 19 April 2012
Venue:	Conference Centre, Delmas Coal
	The conference centre is situated on the left, just before the security gate at the entrance to North Shaft, Delmas Coal
Time of Open House	16:00 – 18:00
Time of Public Meeting:	18:00 – 19:30

Kindly send your reply to André Joubert or Pat Mnqokoyi at the Public Participation Office on tel: (011) 207-2077 or (011) 207- 2074, fax: 086-676-9950 or e-mail: andrej@zitholele.co.za / patiswam@zitholele.co.za.

Yours sincerely

André Joubert Public Participation Office

Environmental processes for the proposed 600 MW independent power plant for KiPower near Delmas

DEA Ref No: 12/12/20/2333

NEAS Ref No DEA/EIA/0000364/2011

COMMENT SHEET ON THE DRAFT SCOPING REPORT

Available for public review from 22 March to 11 May 2012

ElA Public Participation Office Andre Joubert / Patiswa Mnqokoyi Zitholele Consulting (Pty) Ltd, P O Box 6002, Halfway House, 1685 Tel: (011) 207 2077/2074, Fax: 086-676-9950 Email: andrej@zitholele.co.za or patiswam@zitholele.co.za

Please complete by 11 May 2012, and return to the Public Participation Office (as above)

TITLE	FIRST NAME			
INITIALS	SURNAME			
ORGANISATION (Please do not use any acronyms)				2
ADDRESS				POSTAL CODE
TEL NO		FAX NO	2	
CELL		EMAIL		
SIGNATURE	ii a	Farm name and number if you a	portion re a directly	
DATE		affected landow	ner	

COMMENTS (Please use separate sheets if necessary)

Have your questions, conc	cerns, issues and suggestions been captured? If not, please indicate below.
Of the issues already cove	ered, do you wish to add additional aspects that have not yet been mentioned?
Please tell us, did you find	d the Draft Scoping Report useful? Please indicate below.
Please tell us, did you find	d the Draft Scoping Report useful? Please indicate below. Please tell us why:
YES, USEFUL	
YES, USEFUL NEED IMPROVEMENT	
YES, USEFUL	
YES, USEFUL NEED IMPROVEMENT	
YES, USEFUL NEED IMPROVEMENT	Please tell us why:
YES, USEFUL NEED IMPROVEMENT NO, NOT USEFUL	Please tell us why:

THANK YOU FOR YOUR CONTRIBUTION

OMGEWINGSIMPAKBEPALING EN AANSOEK VIR WATERGEBRUIKLISENSIE VIR DIE VOORGESTELDE 600 MW KIPOWER KRAGSTASIE

DEA 12/12/20/2333 NEAS DEA/EIA/0000364/2011

KOMMENTAARBLAD VIR DIE KONSEP-OMVANGBEPALINGSVERSLAG

Beskikbaar vir openbare insae van 22 Maart tot 11 Mei 2012

OIB Kantoor vir Openbare Deelname André Joubert / Patiswa Mnqokoyi Zitholele Consulting, Posbus 6002, Halfway House, 1685 Tel: (011) 207 2077/2074 Faks: 086-676-9950 E-pos: andrej@zitholele.co.za of patiswam@zitholele.co.za

Vul asb in en stuur teen 11 Mei 2012 terug aan die Kantoor vir Openbare Deelname (soos hierbo)

TITEL	VOORNAAM		
VOORLETTERS	VAN		
ORGANISASIE (Nie akronieme nie, asb.)			
ADRES			POSKODE
TEL NO		FAKS NO	1 3 3 NE
SEL		E-POS	
HANDTEKENING		Naam van plaas en nommer van gedeelte as u 'n direk	
DATUM		geaffekteerde grondeienaar is	

KOMMENTAAR (Gebruik asb afsonderlike velle, indien nodig)

3. Is u vrae, kwessies, kwellings en voorstelle opgeneem? Indien nie, dui asb hieronder aan.

		2
4.	Van die kwessies wat reeds	gedek word, wil u bykomende aspekte byvoeg wat nog nie genoem is nie?
3.	Was die Konsep-Omvangbe	epalingsverslag vir u nuttig? Dui asb hieronder aan.
	JA, NUTTIG	Sê asb vir ons hoekom:
	KAN VERBETER WORD	
	NEE, NIE NUTTIG NIE	
4.	Enige ander kommentaar:	

KIPOWER (PTY) LTD

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE CONSTRUCTION OF A 600MW INDEPENDENT POWER PLANT AND ASSOCIATED INFRASTRUCTURE FOR KIPOWER (PTY) LTD NEAR DELMAS IN MPUMLANGA <u>DRAFT SCOPING REPORT</u>

(DEA Ref No.: 12/12/20/2333; NEAS Ref No.: DEA/EIA/0000364/2011)

Report No.: JW058/10/C182- Rev A

FOR COMMENT BY INTERESTED AND AFFECTED PARTIES DUE DATE FOR COMMENTS: 11 MAY 2012

MARCH2012



PURPOSE OF THIS REPORT

KiPower (Pty) Ltd is a subsidiary of Kuyasa Mining, which also owns Delmas Coal and iKhwezi Colliery located approximately 20km to the south-east of the town of Delmas in the Victor Khanye Municipality, within the Nkangala District Municipality of the Mpumalanga Province.

KiPower wishes to establish a new 600MW power plant in close proximity to Delmas Coal, utilising coal from this mine as the fuel for the power plant. Associated with the power plant, would be an ash disposal facility that must also be located in close proximity to the plant.

As part of the authorisation process, an Environmental Impact Assessment (EIA) is required. The EIA must comply with the requirements of the Environmental Impact Assessment Regulations of 2010.

This Draft Scoping Report complies with the EIA Regulations of 2010 and contains a description of the project, the terms of reference for specialist assessments, issues of concern raised by interested and affected parties and the project motivation.

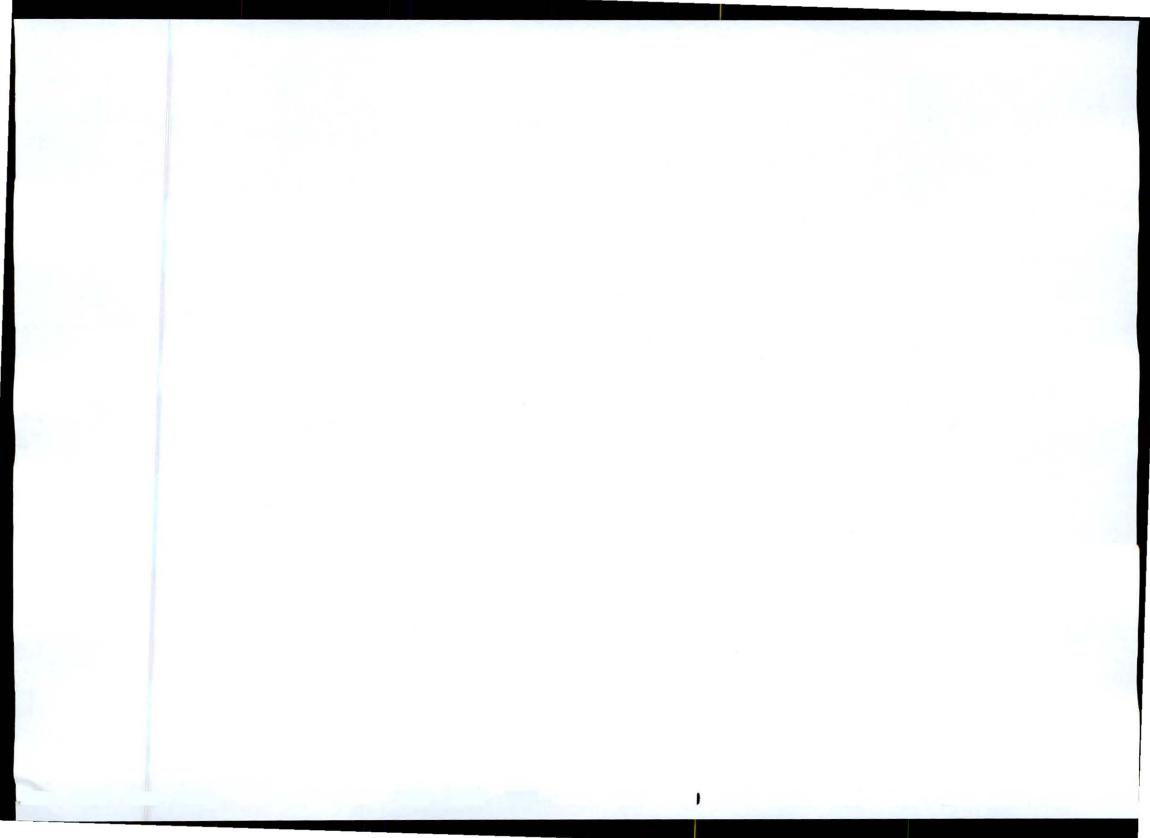
According to EIA Regulations, interested and affected parties (I&APs) must be given the opportunity to comment on the proposed project and the Scoping Report before it is submitted to the National Department of Environmental Affairs (DEA). I&APs have an opportunity to comment on this Draft Scoping Report from **Thursday**, **22 March to Friday**, **11 May 2012**. The Scoping Report will be submitted to the DEA together with all comments received on this report for a decision on whether or not KiPower may proceed with the impact assessment phase for the proposed project.

Please use the contact details given below should you wish to discuss this report or submit comments about this report. This report is available on the following websites for stakeholders to comment on: www.jaws.co.za; and www.zitholele.co.za. In addition, copies of the report are available at the following public places and upon request:

Contact	Location	Contact Tel
Ms Lydia Mehlape	Delmas Public Library, Delmas	Tel: 013 665 2425
Reception	Delmas Coal	Tel: 013 665 7000
Thandiwe Mbongwa/ Marius van Zyl	Jones & Wagener, 59 Bevan Road, Rivonia	Tel: 011 519 0200
Mr Andre Joubert	Zitholele Consulting, Thandanani Park, Matuka Close, Halfway Gardens, Midrand	Tel: 011 207 2077

EIA Public Participation Office André Joubert / Florence Rambuda Zitholele Consulting (Pty) Ltd P O Box 6002, Halfway House, 1685 Tel: (011) 207 2077 / 2075 Fax: 086-676-9950 Email: andrej@zitholele.co.za or florencer@zitholele.co.za

Jones & Wagener Consulting Civil Engineers



DOCUMENT APPROVAL RECORD

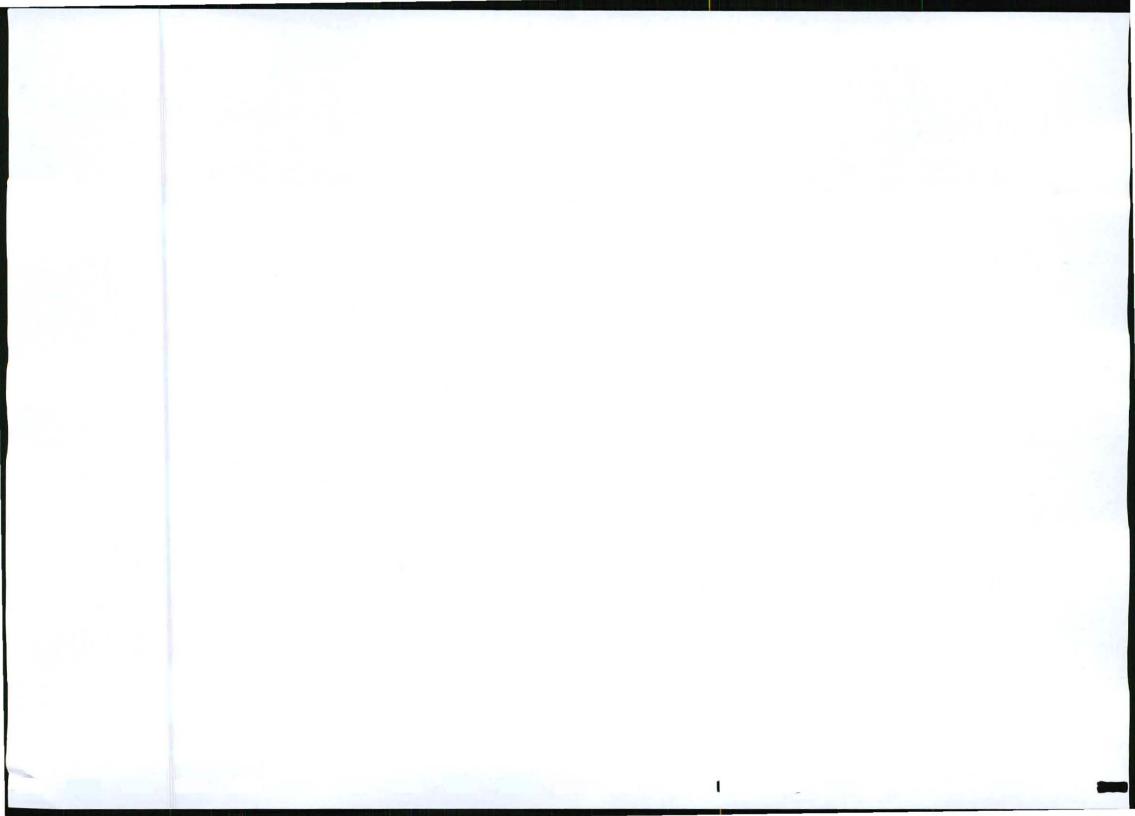
Report No.: JW058/10/C182- Rev A

ACTION	FUNCTION	NAME	DATE	SIGNATURE
Prepared	EIA Coordinator	P Sewmohan	23/02/2012	Beunda -
Reviewed	Project manager	M van Zyl	24/02/2012	Manff
Approved	Project Manager	M van Zyl	14/03/2012	Manff

RECORD OF REVISIONS AND ISSUES REGISTER

Date	Revision	Description	Issued to	Issue Format	No. Copies
20/3/2012	RevA	Draft Scoping Report	A Joubert	Hardcopy/CD	3
20/3/2012	RevA	Draft Scoping Report	T Mbongwa	Hardcopy	1
20/3/2012	RevA	Draft Scoping Report	C Nienaber	Electronic	1
20/3/2012	RevA	Draft Scoping Report	M Saliwa	Hardcopy/CD	1
20/3/2012	RevA	Draft Scoping Report	T Aziz	Electronic	1
22/3/2012	RevA	Draft Scoping Report	DEA; MDEDET; DWA; DMR; Victor Khanye Municipality	Hardcopy/CD	1 ea

JW058/10/C182- Rev A



KIPOWER (PTY) LTD

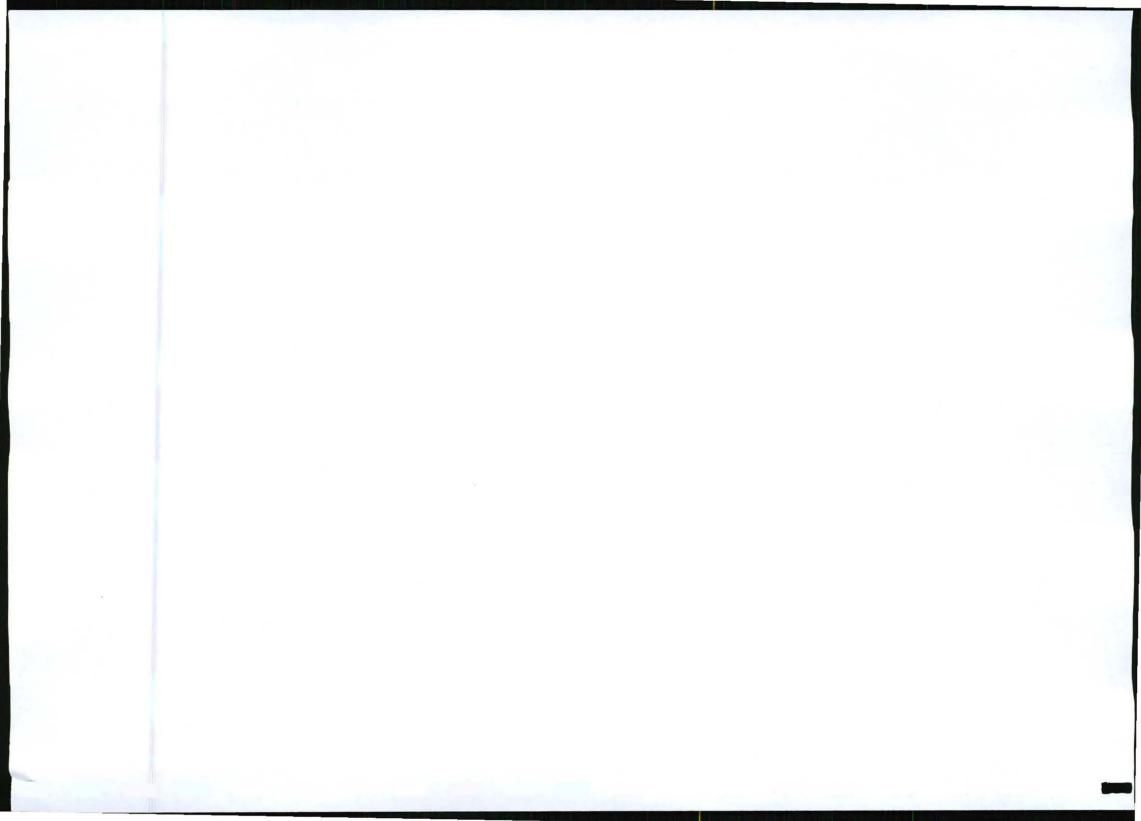
ENVIRONMENTAL IMPACT ASSESSMENT FOR THE CONSTRUCTION OF A 600MW INDEPENDENT POWER PLANT AND ASSOCIATED INFRASTRUCTURE FOR KIPOWER (PTY) LTD NEAR DELMAS IN MPUMLANGA DRAFT SCOPING REPORT

REPORT NO: JW058/10/C182- Rev A

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1.4	Project engineering consultant
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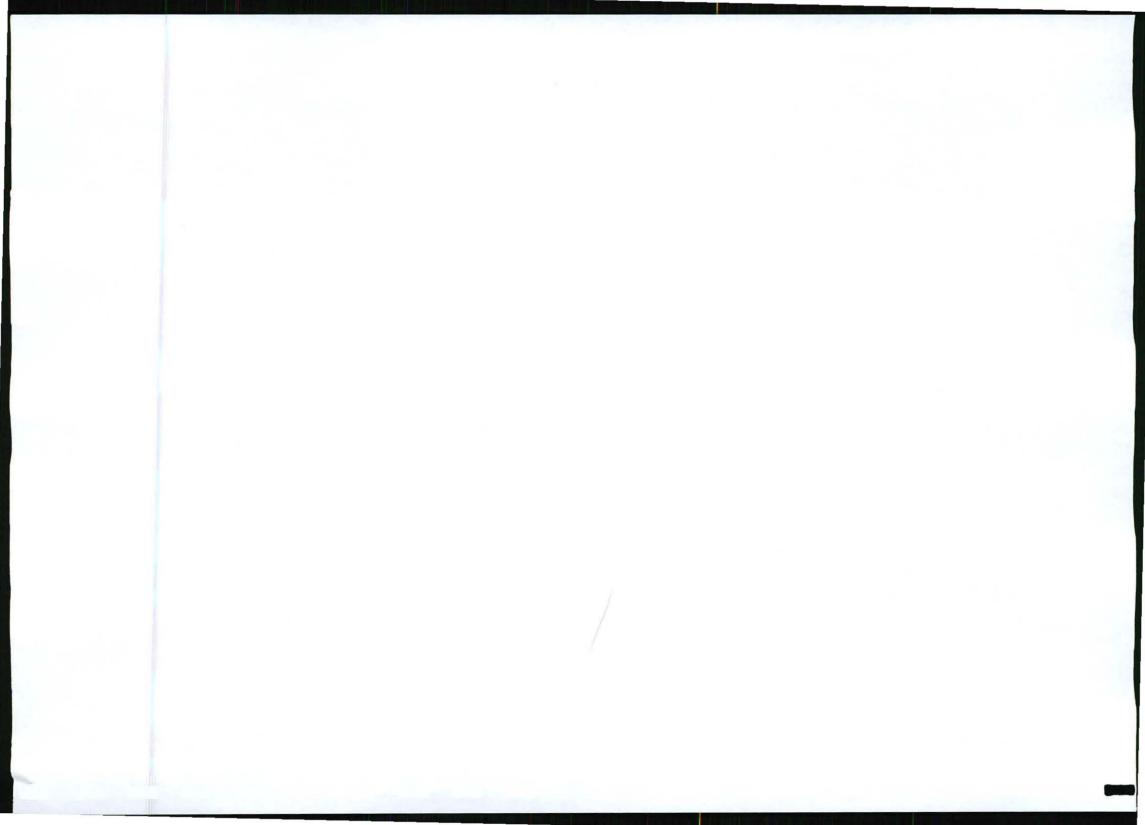




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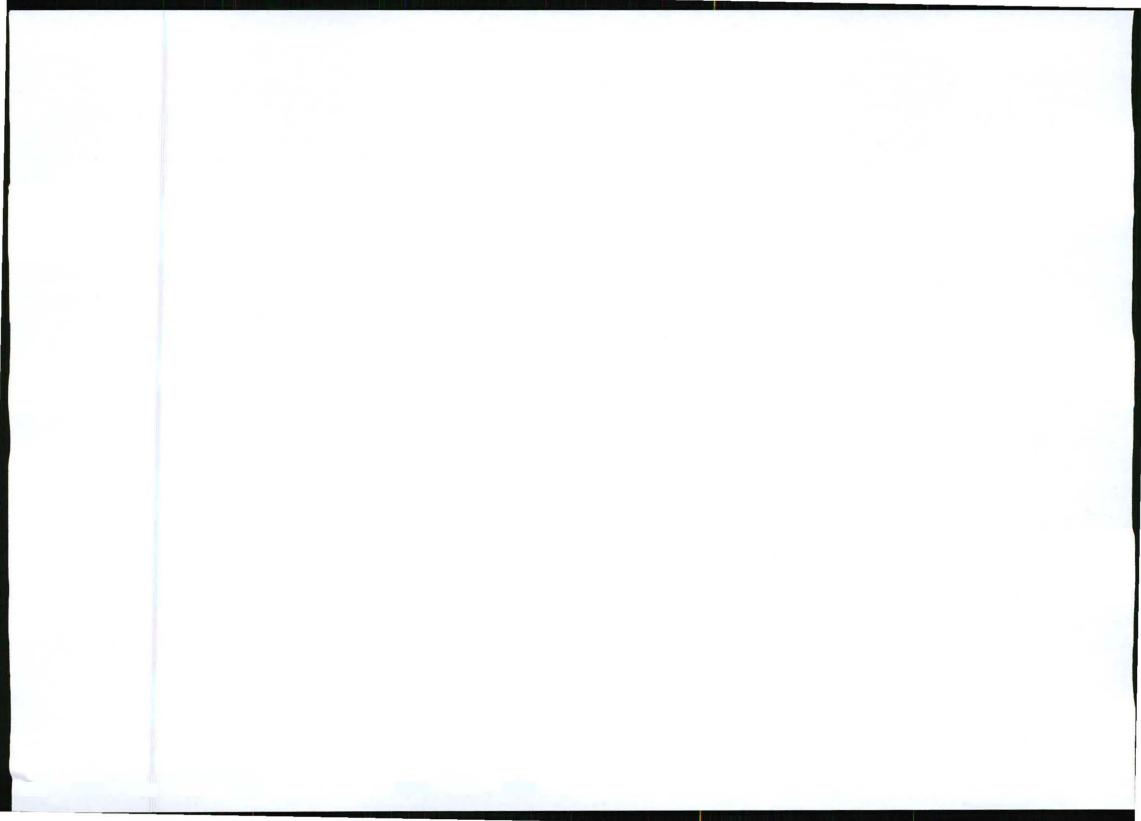
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APPENDICES

Appendix A

EAP CV's

Appendix B

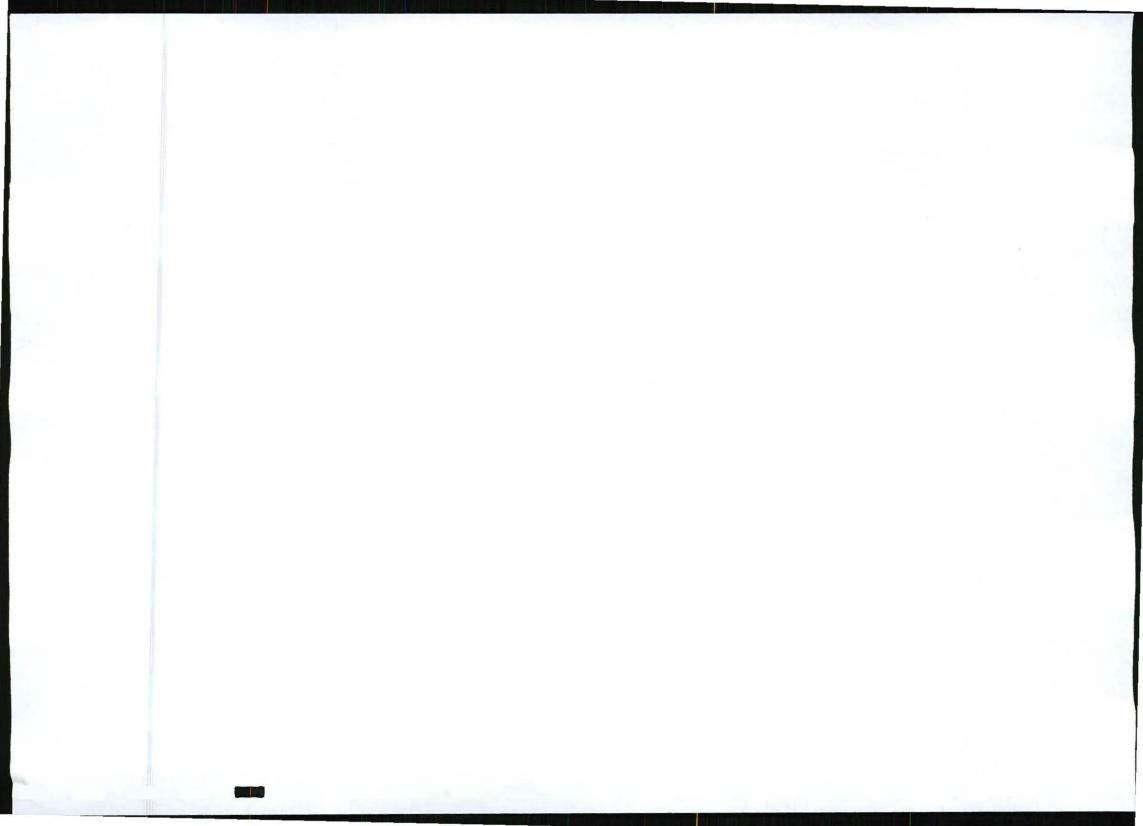
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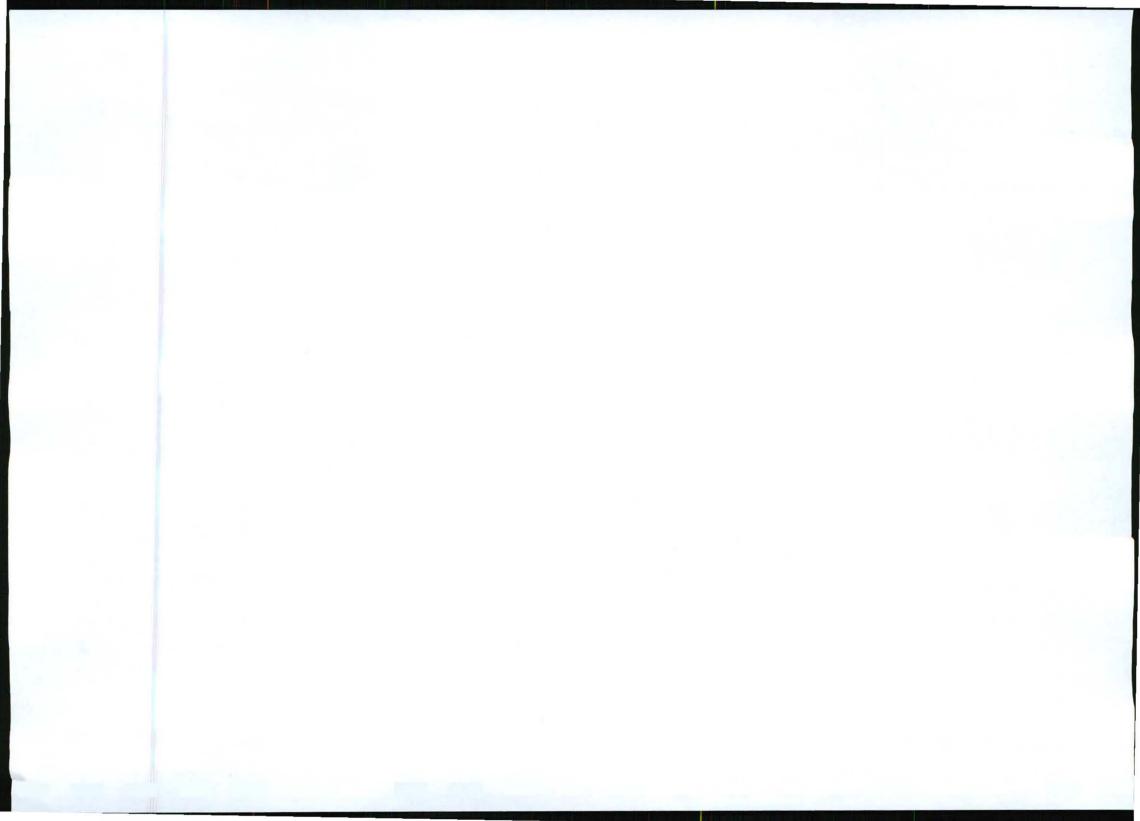
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ABBREVIATIONS AND TERMS USED IN THIS REPORT

Abbreviation/ term	Definition / explanation		
2010 EIA Regulations	EIA Regulations R543, R544 and R545 promulgated in terms of NEMA in June 2010		
CFB	Continuous Fluidised Bed Boiler. Type of reactor where the different chemicals are kept in suspension using air or liquid. The bed refers to the body of suspended particles. The bed is termed fluidised since the particles move as in a liquid/ fluid manner.		
DEA	National Department of Environmental Affairs		
DEIR	Draft Environmental Impact Report		
DSR	Draft Scoping Report		
EAP	Environmental Assessment Practitioner		
EIA	Environmental Impact Assessment		
EMPr	Environmental Management Programme		
EIR	Environmental Impact Report		
FSR	Final Scoping Report		
GDP	Gross domestic product. Measure of economic value		
GN 704	Government Notice 704, which regulates how water is managed on a mining site. Used as a best practice guideline for industrial sites.		
HP	High pressure		
I&AP	Interested and Affected Party		
kV	Kilo-Volt. Measure of electricity generation or usage.		
LP	Low pressure		
m ³	Cubic meters. Measure of volume. 1 m ³ = 1,000 litres		
МН	Major Hazard Installation; in terms of the MHI Regulations promulgated under the Occupational Health and Safety Act.		
MW	Mega Watt (measurement of electricity generation or usage)		
NEMA	National Environmental Management Act, Act 107 of 1998 as amended		
NEM:AQA	National Environmental Management: Air Quality Act, Act 39 of 2004		
NEM:WA	National Environmental Management: Waste Act, Act 59 of 2008		
NERSA	National Energy Regulator of South Africa		
NHRA	National Heritage Resources Act, Act 25 of 1999		
NOx	Oxides of nitrogen. Noxious gas, for which there are emission standards in South Africa		
NWA	National Water Act, Act 36 of 1998, as amended		
OHSA	Occupational Health and Safety Act, Act 85 of 1993, as amended		
PP	Public participation		
SAPP	Southern African Power Pool		
Sorbent	Chemical or substrate used to absorb liquids or gases		
SO ₂ , SO _x	Sulphur dioxide, oxides of sulphur. Noxious gas, for which there are emission standards in South Africa		
Rpm	Revolutions per minute – measure of speed of a turbine or engine.		

Jones & Wagener Consulting Civil Engineers



|ones & Wagener

Consulting Civil Engineers 59 Bevan Roac PO Box 1434 Rivoria 2128 South Africa Tel: (0 1) 519-0200 Fax: (0 1) 519-0201 Email: post@jaws.co.za

KIPOWER (PTY) LTD

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE CONSTRUCTION OF A 600MW INDEPENDENT POWER PLANT AND ASSOCIATED INFRASTRUCTURE FOR KIPOWER (PTY) LTD NEAR DELMAS IN MPUMLANGA DRAFT SCOPING REPORT

REPORT NO: JW058/10/C182- Rev A

1. INTRODUCTION

KiPower (Pty) Ltd is a subsidiary of Kuyasa Mining, which also owns Delmas Coal and iKhwezi Colliery located approximately 20km to the south-east of the town of Delmas in the Victor Khanye Municipality, within the Nkangala District Municipality of the Mpumalanga Province of South Africa.

KiPower wishes to establish a new 600MW power plant in close proximity to Delmas Coal, utilising coal from this mine as the fuel for the power plant. Associated with the power plant would be an ash disposal facility that must also be located in close proximity to the plant.

1.1 Project scope

The new power plant scope is based on an initial 600MW project. However, KiPower may wish to expand the power plant up to 2000MW in the long term. Sufficient coal is available from Delmas Coal to supply a 2000MW plant.

As is standard practice for large industrial developments, the design life of the power plant is planned at 30 years. The ash from the power plant would need to be disposed of on anew ash disposal facility.

1.2 **Contact details**

1.2.1 Proponent

Project applicant:	Kuyasa Mining (Pty)Ltd on behalf of KiPower (Pty) Ltd		
Trading name (if any):	KiPower		
Contact person:	Mr Ayanda Bam		
Physical address:	2 Neven Street, Witbank, Mpumalanga		
Postal address:	Private Bag X 7250, Witbank, Mpumalanga 1035		
Email:	ayanda@kuyasamining.co.za	Fax:	013 690 3545

JONES & WAGENER (PTY) LTD REG NO. 1993/02655/07 VAT No. 4410136685

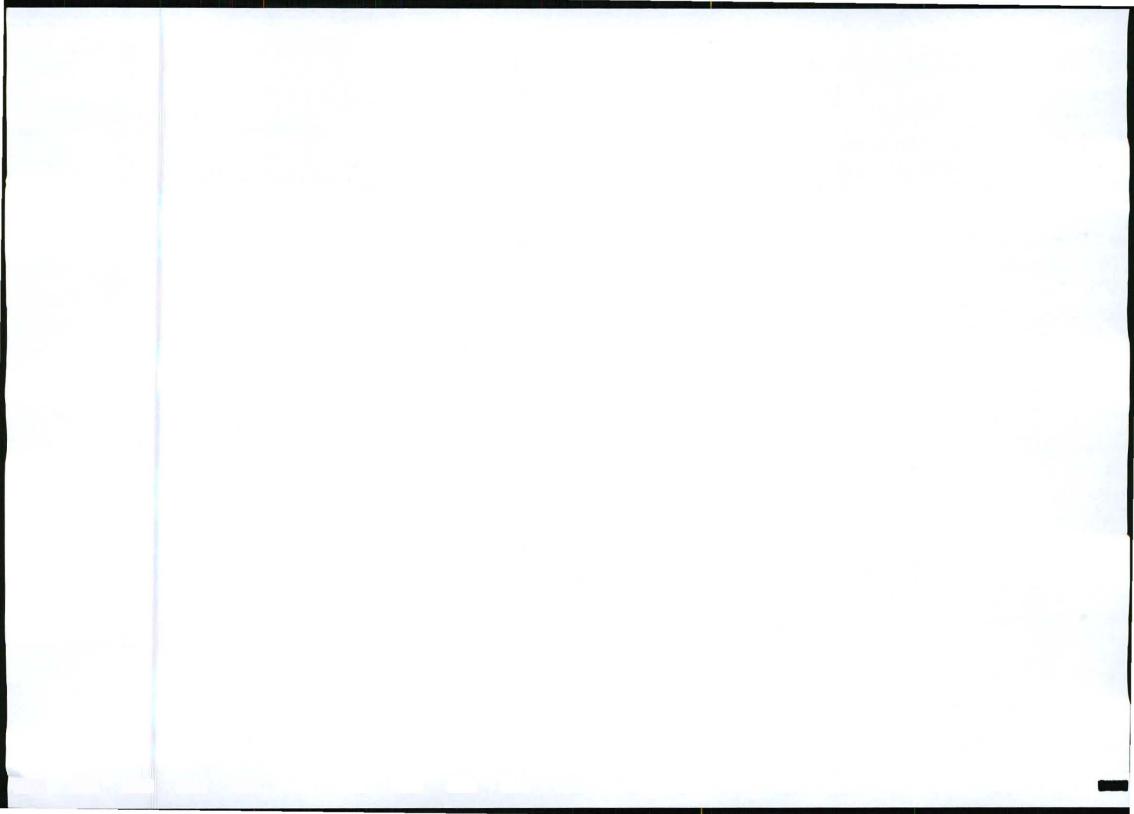
DIRECTORS: PW Day (Chairman) Pring MSt Eng HonPSACE D Brink (CEO) Pring Beng Hons) FSACE PG Gage Pring CEng BSt Eng GDEMSAICE AlBrude JP van der Berg Pring PD MEng MSAICE

TT Goba PErig MEng (FSMCE GR Wardle (Alternate) REig MSC(E) FASCE / FM g Wardle (Alternate) REig MSC(E) FASCE / Goba (MSMCE / Goba (MSMCE) / MSMCE / M TG le Roux PrEna MEna MSAICE

CONSULTANTS: W Ellis PrEng CEng Migrude

FINANCIAL MANAGER: HC Neveling BCom MBL

Member of Consulting Engineers South Africa



2

1.2.2 Landowners

Please refer to Section 2.1 regarding the location of specific facilities and infrastructure.

1.2.3 Environmental assessment practitioner

Contact person:	Marius van Zyl Jones and Wagener Consulting Civil Engineers (Pty) Ltd		
Company			
Postal address:	PO Box 1434, Rivonia, 2128		
E-mail:	Vanzyl@jaws.co.za	Fax:	011 519 0201

1.3 Independent Environmental Assessment Practitioner

Jones and Wagener Consulting Civil Engineers (J&W) is the independent environmental consultant appointed to conduct the EIA. The project has been registered with the Department of Environmental Affairs (DEA), as the delegated authority mandated to issue integrated NEMA and NEM:WA licenses. Jones and Wagener is an established consulting practice based in Rivonia, Johannesburg that specialises in waste management, tailings and environmental projects. There are two certified EAPs and five environmental practitioners with more than 50years' experience amongst them.

The EAP on this project is Marius van Zyl, assisted by Prav Sewmohan, and CV's are provided in **Appendix A**; various other personnel and specialists are contributing to this EIA process.

According to the EIA Regulations, interested and affected parties (I&APs) must be given the opportunity to comment on the proposed project and the Scoping Report before it is submitted to the DEA. I&APs have an opportunity to comment on this Draft Scoping Report (DSR) from Thursday, 22 March to Friday, 11 May 2012.

Once comments have been received on the DSR the report will be finalised. The Final Scoping Report (FSR) will be made available for public and authority comment.

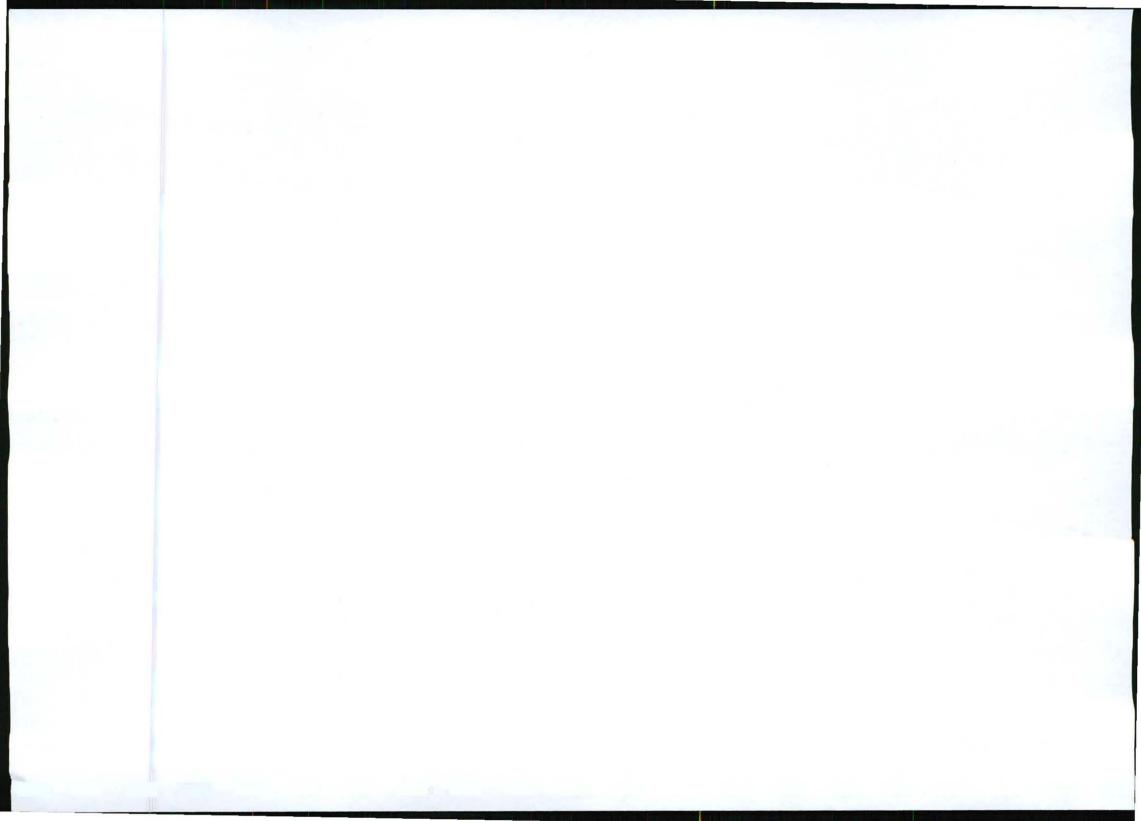
The FSR will also be submitted to the DEA together with all comments received on this report for a decision on whether or not KiPower may proceed with the impact assessment for the proposed project.

1.4 Project engineering consultant

There are two key engineering consultants as well as various sub-consultants involved in this project:

1.4.1 Power plant engineering consultant

Engineering consultant	Black & Veatch Corporation		
Contact person:	Mr Tariq Aziz		
Postal address:	11401 Lamar Avenue, Overland Park, KS, 66211 USA		
E-mail:	azizt@bv.com	Fax:	+1 913-458-9020



1.4.2 Ash disposal facility engineering consultant

Engineering consultant	Jones and Wagener Consulting Civil Engineers(Pty Ltd		
Contact person:	Mr Donovan Rowe		
Postal address:	PO Box 1434, Rivonia, 2128		
E-mail:	rowe@jaws.co.za	Fax:	011 519 0201

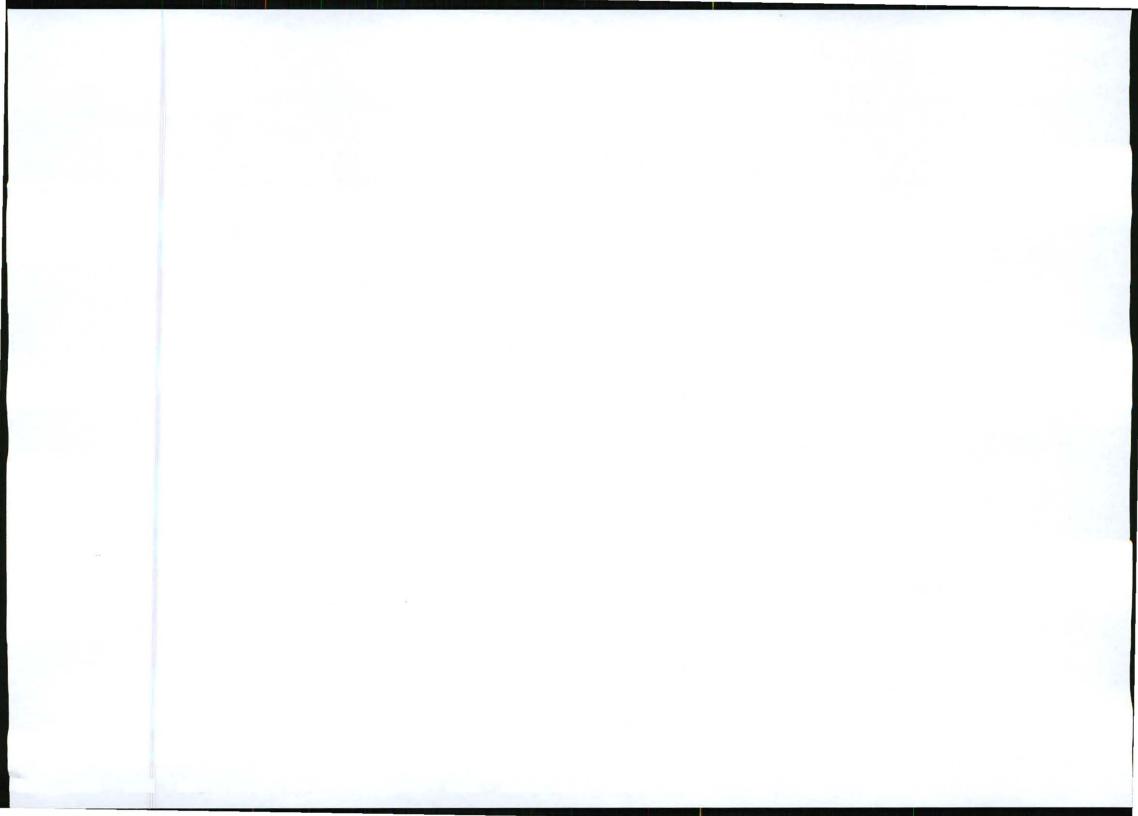
1.5 Compliance with EIA Regulations

This report complies with the requirements of Section 28(1) of Regulations R543 (2010 EIA Regulations) as indicated in Table 1.1.

Table 1.1: Compliance with Section 28(1) of Regulation 543

	Section in this Report	
	the EAP who prepared this report, and the expertise of the EAP ut scoping procedures	Section 1.3
A descript	ion of the proposed activity	Section 2
A descrip identified	tion of any feasible and reasonable alternatives that have been	Section 3
A descript	ion of the property on which the activity is to be undertaken	Section 2.1
	tion of the environment that may be affected by the activity and er in which the activity may be affected by the environment	Section 4
	cation of all legislation and guidelines that have been considered paration of the scoping report	Section 1.6
	otion of environmental issues and potential impacts including e impacts that have been identified	Section 6
Details of 27(a), incl (i) (ii) (iii) (iii) (iv)	 the public participation process conducted in terms of Regulation luding: The steps taken to notify potentially interested and affected parties of the application Proof that notice boards, advertisements and notices notifying potentially interested and affected parties of the application have been displayed, placed or given A list of all persons or organisations that were identified and registered in terms of regulation 55 as interested and affected parties in relation to the application A summary of the issues raised by interested and affected parties, the date of receipt of and the response of the EAP to those issues. 	Section 5 Appendix D
A descript	tion of the need and desirability of the proposed activity	Section 2.9
including	tion of identified potential alternatives to the proposed activity, advantages and disadvantages that the proposed activity or es may have on the environment and the community affected by y	Section 3
Conies of	any representations, and comments received in connection with	Section 5





	Section in this Report	
the applica	Appendix D Section 5 Appendix D	
Copies of the minutes of any meetings held by the EAP with interested and affected parties and other role players which record the views of the participants		
Any respo views	Section 5 Appendix D	
the propo	study for the environmental impact assessment, which sets out sed approach to the environmental impact assessment of the n, which must include:	
(i)	A description of the tasks that will be undertaken as part of the environmental impact assessment process, including any specialist reports or specialised processes, and the manner in which such tasks will be undertaken	
(ii)	An indication of the stages at which the competent authority will be consulted	Section 6
(iii)	A description of the proposed method of assessing the environmental issues and alternatives, including the option of not proceeding with the activity	
(iv)	Particulars of the public participation process that will be conducted during the environmental impact assessment process	
Any speci	fic information required by the competent authority	None requested
Any other matters required in terms of 24(4)(a) and (b) of the Act.		None

1.6 Applicable legislation

1.6.1 The Constitution of the Republic of South Africa (Act 108 of 1996)

Section 24 of the Constitution states that: Everyone has the right:

(a) to an environment that is not harmful to their health or well-being; and

(b) to have the environment protected, for the benefit of present and future generations, through reasonable legislative and other measures that-

- prevent pollution and ecological degradation;

promote conservation; and

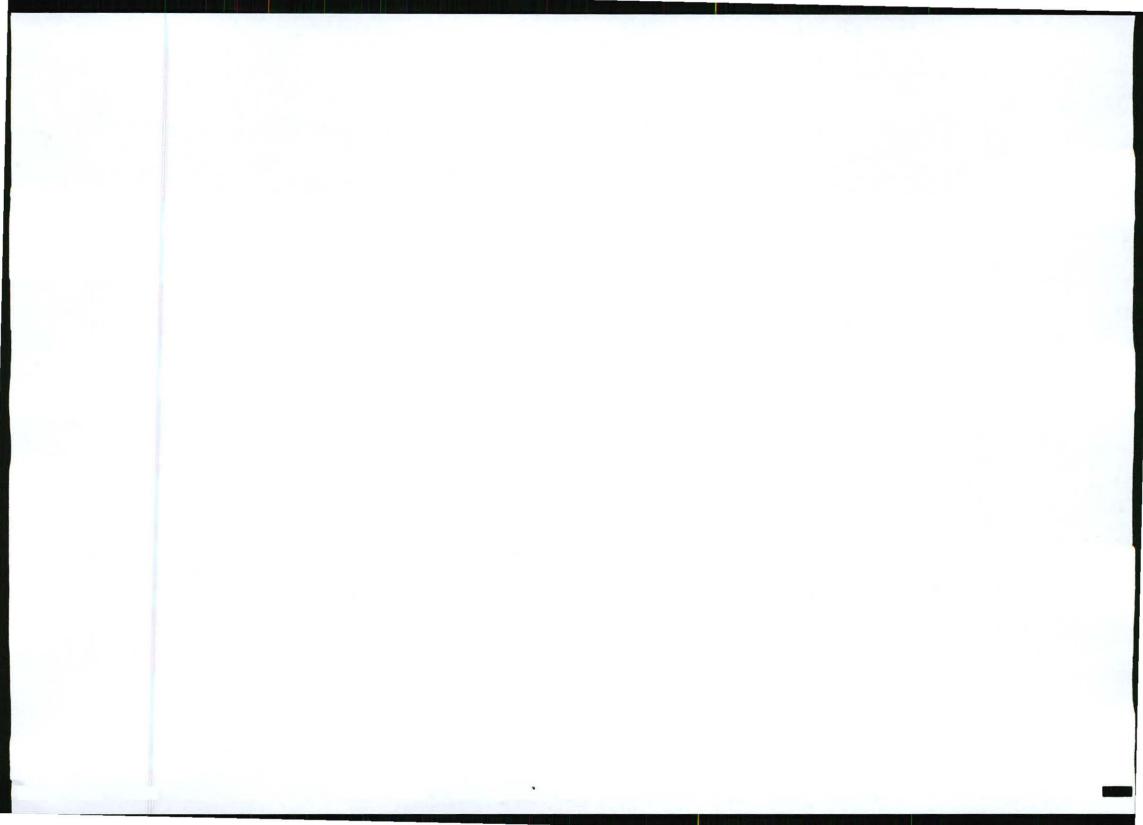
- secure ecologically sustainable development and use of natural resources, while promoting justifiable economic and social development

The current environmental laws in South Africa concentrate on protecting, promoting, and fulfilling the Nation's social, economic and environmental rights; while encouraging public participation, implementing cultural and traditional knowledge and benefiting previously disadvantaged communities.

1.6.2 National Environmental Management Act (Act 107 of 1998), as amended (NEMA)

The National Environmental Management Act, 107 of 1998, as amended, (NEMA), specifies that where an activity requires permission by law and may significantly affect





the environment, it is necessary for an applicant to undertake an EIA, which meets the minimum requirements of section 24(7) of NEMA.

The EIA must be presented to all organs of state that are required to grant (or refuse) the permission that is required by law to undertake the proposed activity. The minimum requirements of section 24(7) of NEMA are regulated in terms of Regulations 543, 544 and 545 of June2010. The activities identified in these regulations that are applicable to this project are listed in Table 1.2 below.

Relevant notice:	Activity No (s)	Description of listed activity	
	11.	Bridge crossings may be required for the transfer of coal, ash, waste and/or water depending on the final site selection scenario for the power plant and ash disposal facility.	
	12.	Water and storm water storage facilities on site will be required as part of the water management infrastructure for the plant. These may exceed 50,000 m3 depending on the site specific drainage conditions.	
R544 18 June 2010	13.	Dangerous goods may be stored on site such as diesel and chemica reagents. It is unlikely that the storage capacity would exceed 500 cubic meters.	
	18.	Conveyors may cross watercourses resulting in the disturbance o embankments.	
	20.	The power plant will fall within the mining rights area of Kuyasa Mining and an amendment of the mining rights may be required for the project.	
	22	An access road to the power plant will be required. This will tie into the existing provincial road that runs to the north of the mine.	
	47	Widening of existing access roads may be required	
	1.	The proposed plant is for 600MW.	
	5.	Air emissions licence and water use licence will be required for the power plant.	
R545 18 June 2010	6	Conveyors for ash and coal transport may be required if road haulage is not used.	
	15.	The power plant will require in excess of 20 hectares.	
R546 18 June 2010	14.	Clearing of area bigger than 5 hectares outside an urban area.	

Table 1.2: Activities requiring EIA under NEMA regulations

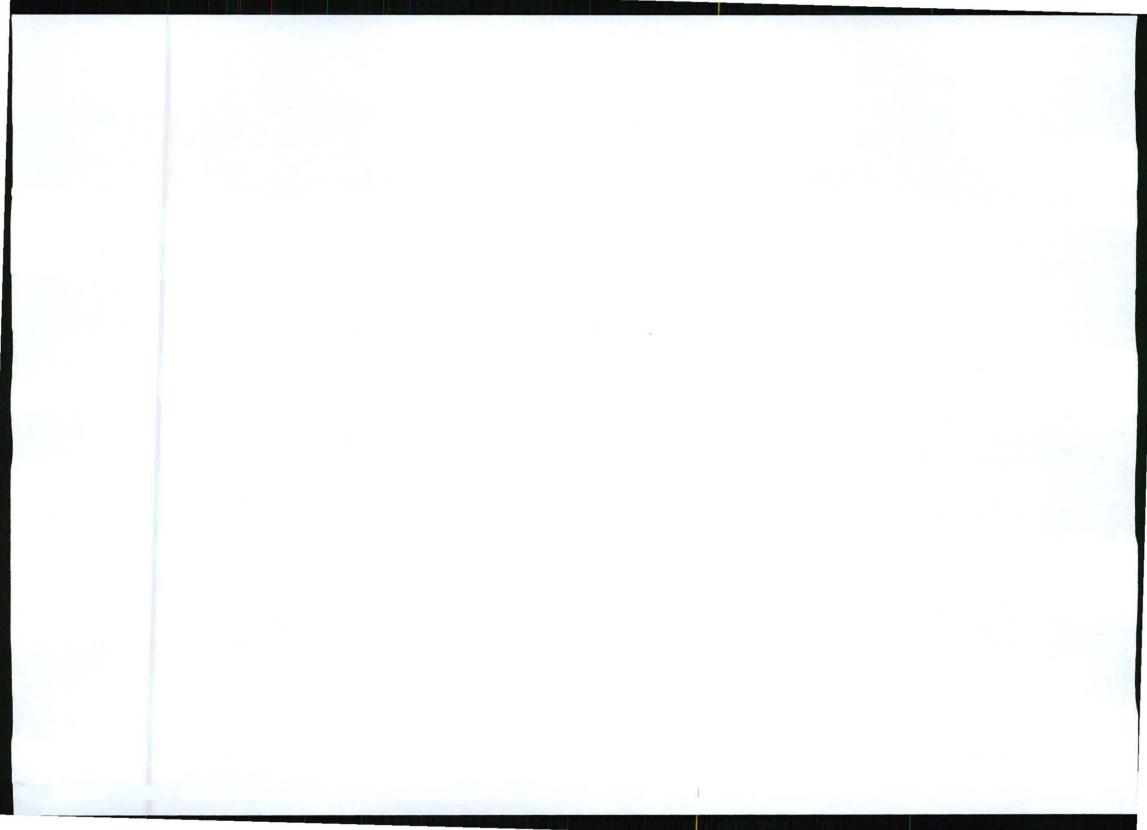
1.6.3 National Environmental Management: Waste Act (Act 59 of 2008) (NEM:WA)

In terms of Government Notice 718 of 2009, promulgated under NEM:WA, an EIA must be conducted and submitted to the DEA for authorisation in terms of the NEM:WA (2008).

The Department may consult with other national, provincial and local government departments before finalising its decision regarding the project.. The DEA has to consult with the Department of Water Affairs (DWA) before a licence can be issued for the waste activities to be undertaken at the KiPower.

The activities listed under this notice that are applicable to this project are given in Table 1.3. In addition to the above, the DEA has also recently published draft regulations pertaining to the classification of waste and the disposal of waste (DEA. 2011a and 2011b). These regulations may be promulgated before the Power Plant and ash disposal facility are constructed, and therefore their requirements will be taken into account during the authorisation process.





ACTIVITY No.	Description of Activity	
Category A 3(1)	It is expected that more than 100m ³ of general waste will be stored on site especially during the construction phase of the power station	
Category A 3(2)	It is expected that more than 35m ³ of hazardous waste will be stored on site, especially during the construction phase.	
Category A 3(5)	At the waste recycling plant/salvage yard more than 1 ton of general wa will be sorted for recycling purposes per day.	
Category A 3(9)	Should a garden waste composting plant be constructed it may have the capacity to treat more than 10m ³ of garden waste per day.	
Category A 3(11)	More than 2000m ³ , but less than 15 000m ³ of sewage water will be treat at the onsite sewage works per annum.	
Category A 3(12)	During the construction and operational phase, it is likely that diesel and o spills will be treated in situ.	
Category A 3(18)	The construction of any of the above activities will trigger this activity	
Category B 4(9)	This activity is triggered by the disposal of the boiler ash onto a wasted disposal facility if the boiler ash classifies as hazardous waste.	
Category B 4(10)	This activity is triggered by the disposal of the boiler ash onto a wasted disposal facility if the boiler ash classifies as general waste.	
Category B4(11)	The construction of any of the above facilities triggers this activity.	

Activities requiring EIA under NEM:WA regulations Table 1.3:

1.6.4 National Water Act, 1998 (Act No. 36 of 1998), as amended (NWA)

The NWA guides the management of water in South Africa as a common resource. The Act aims to regulate the use of water and activities which may impact on water resources through the categorisation of 'listed water uses' encompassing water extraction, flow attenuation within catchments, as well as the potential contamination of water resources, where the Department of Water Affairs (DWA) is the administering body in this regard.

A water use license application for the power plant will be submitted to the DWA, and will utilise the specialist studies undertaken for the EIA process.

The DWA Minimum Requirements and latest liner design specification for different category waste disposal sites will be used to guide the design of water-holding structures, long term stockpile and/or storage areas and the ash disposal facility.

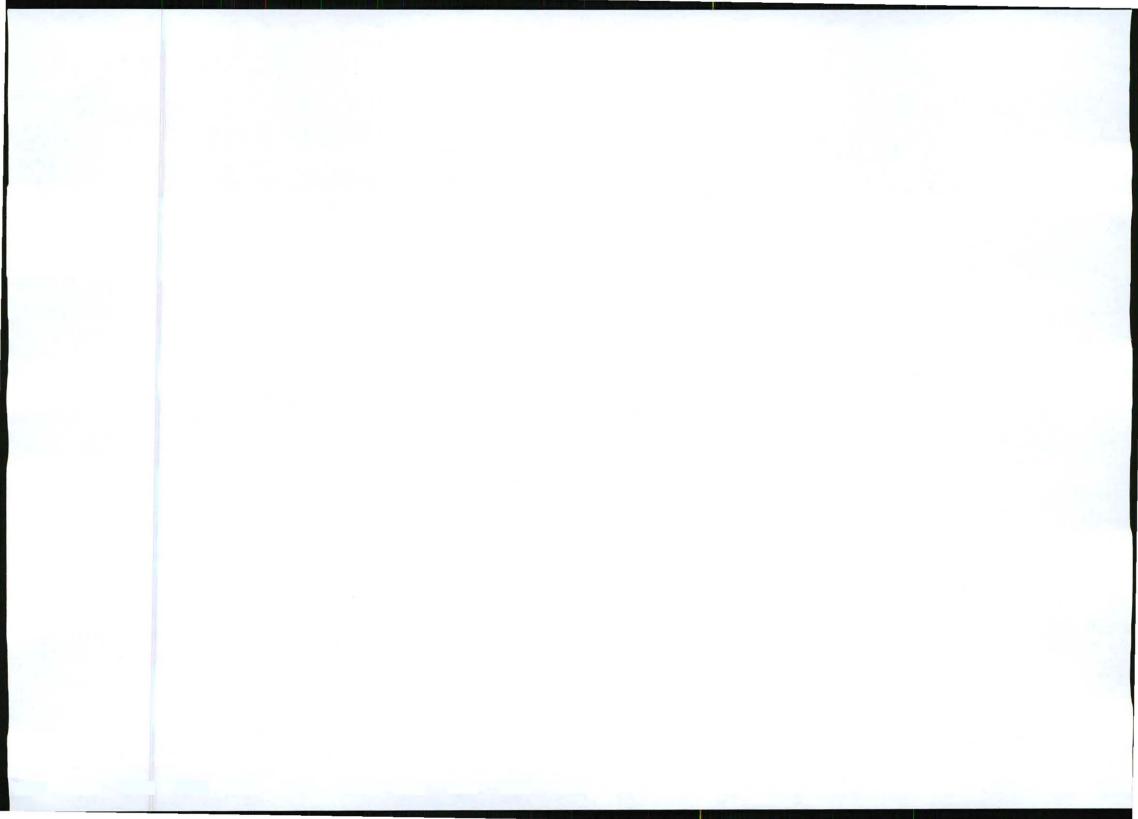
In addition, water use licenses will be applied for any river and wetland crossings (for coal and ash conveyors and water pipelines).

1.6.5 National Environmental Management: Air Quality Act(Act 39 of 2004) (NEM:AQA)

Power generation and coal combustion are Listed Activities under the NEM:AQA. This means that the power plant must be licensed. The licence requires provision of all point and non-point emissions deriving from the facility.

The latest air quality standards and emissions standards will be used to guide the design of the power plant and ash facility.





1.6.6 National Heritage Resources Act, 1999

This Act serves to protect and preserve, where possible, archaeological and cultural heritage artefacts and sites. Approval for pipelines and new facilities are required and the heritage specialist report will be submitted to the South African Heritage Resources Agency for consideration of the project.

1.6.7 Occupational Health and Safety Act, Act 85 of 1993

Employees on the facilities sites may carry out work which exposes them to the intake of hazardous chemical substances. The regulations under the Occupational Health and Safety Act of 1993 require that an employer shall ensure that employees are adequately trained and informed of the potential source of exposure, the risks of exposure, protection measures, personal protective equipment, maintenance of safety equipment, air sampling and medical surveillance, safe working procedures and emergency actions. This information should also be provided to the drivers of vehicles carrying any hazardous chemical substances.

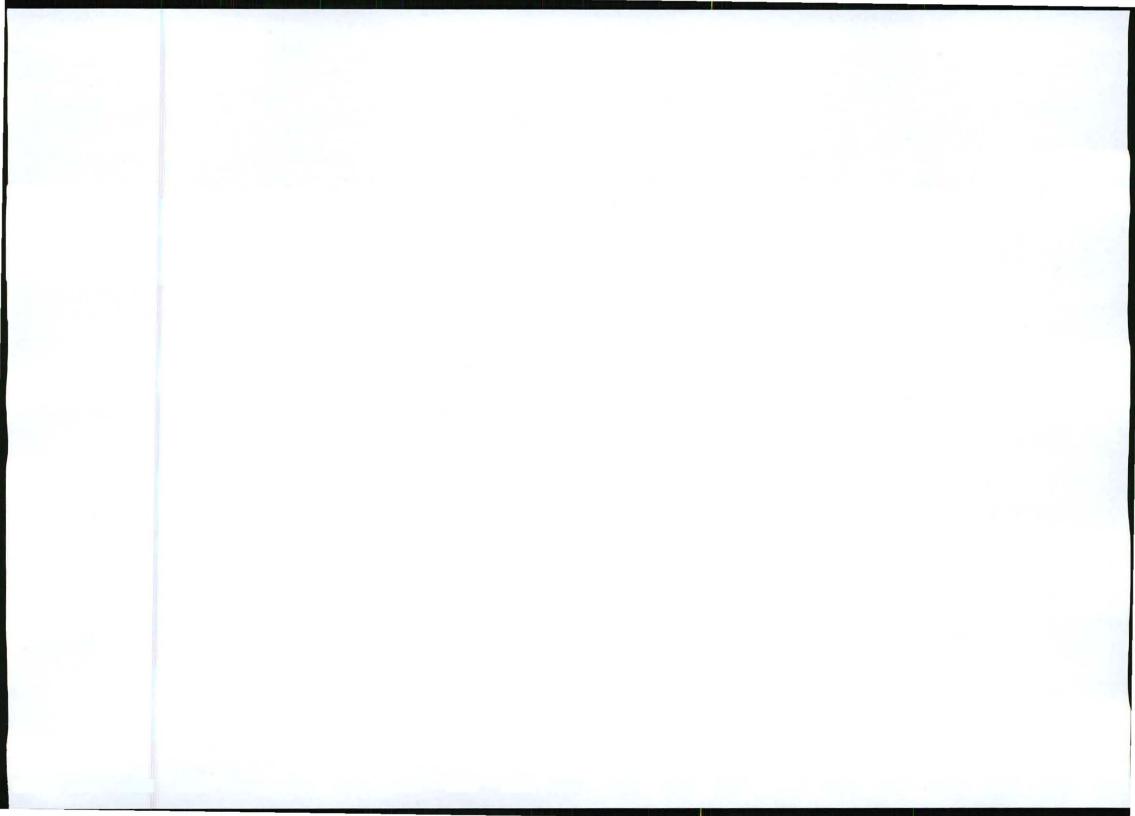
Employers shall control the amount of exposure of employees to hazardous chemical substances by attempting to use a substitute for the compound or limiting the use of and the number of employees exposed. Labelling, packaging, transportation and storage of hazardous chemical substances must also be carried out in accordance with codes of practice published by the South African Bureau of Standards (SANS 10228 dealing with the identification and classification of dangerous substances and goods and SANS 10229 which deals with the packaging of dangerous goods for road and rail transportation).

1.6.8 Land zoning

There are two sets of regulations that govern the zoning and re-zoning of land, which are briefly outlined below. Either of these regulations would be applicable to this project, depending on the nature of the project, the current zoning and which authority has jurisdiction over the land in terms of zoning. The re-zoning requirement will be dealt with during the impact assessment phase of the EIA process and the appropriate process will be chosen when more information on the sites for the power plant and ash facility are available.

1.6.8.1. Development Facilitation Act, 1995

The Development Facilitation Act, 1995 was specifically aimed at creating a single legal mechanism to deal with all the diverse aspects of land development in an integrated fashion. This may include the simultaneous subdivision/consolidation of the affected land portions and the cancellation of whatever conditions of title or servitudes may encumber the site. This process allows a prospective applicant to approach a single provincial planning tribunal for authorisation rather than to submit the matter to the municipal sphere of Government. The planning tribunal, at provincial level, has wide powers to incorporate and decide on various issues including the possibility of cancelling servitudes, amending zoning provisions and authorising subdivision of land (where relevant).



1.6.8.2. Town Planning and Townships Ordinance, 1986 (Ordinance 15 Of 1986)

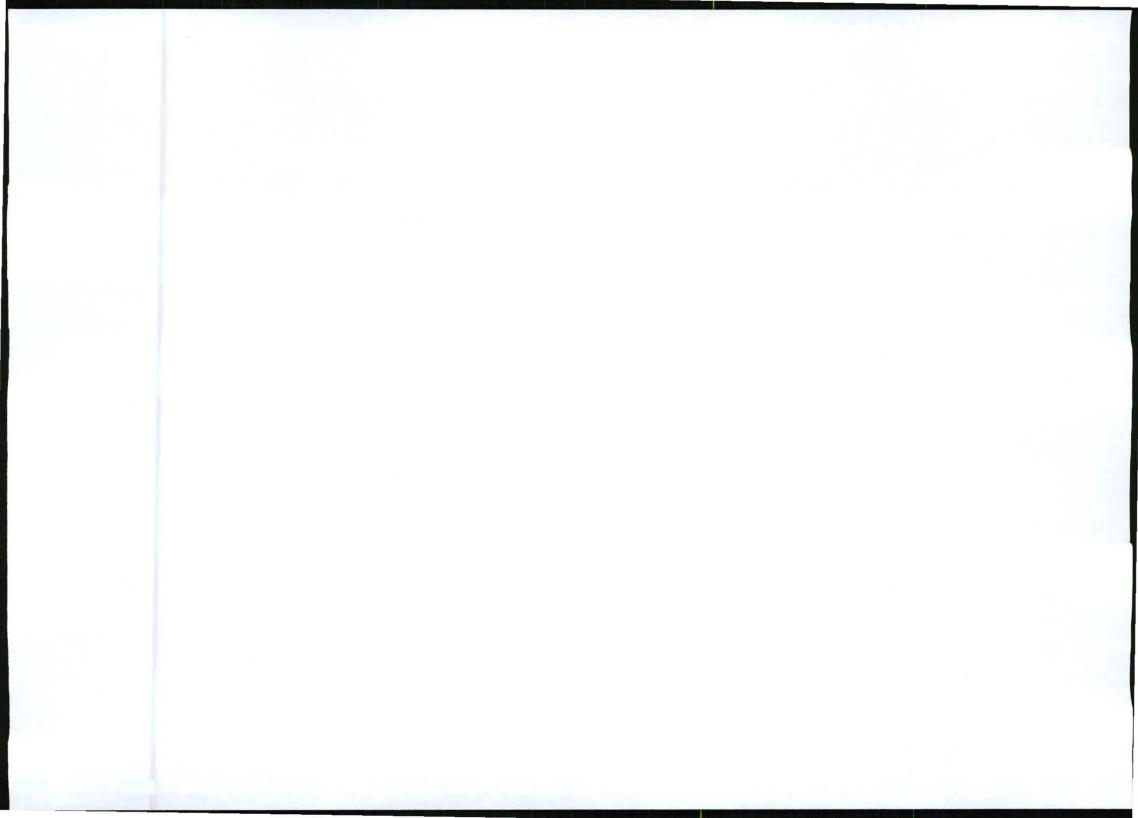
As an alternative to the Development Facilitation Act, a similar application may be submitted and processed under Ordinance 15 of 1986 (the Ordinance). The important difference in this regard lies in the fact that, in terms of the Ordinance, the decision making authority rests with the Municipality, in this case the Victor Khanye Municipality. In the first alternative, the decision lies with a provincial tribunal appointed by the Premier. Whilst an application in terms of the Development Facilitation Act requires of the applicant to comply with various mandatory requirements (i.e. specialist reports by a conveyancer, engineers, land surveyor, geotechnical expert, environmental consultant and the town planner), the Ordinance does not, *per se*, enforce the same mandatory requirements as part of the submission. However, in both alternatives, the applicant is usually required to provide the same information/specialist reports, albeit at different stages throughout the application procedure.

1.6.9 Local municipal regulations

Local regulations in terms of the following aspects will need to be taken into account in the development of the project:

- Occupational health and safety;
- Protected natural environments;
- Limited development areas; and
- Noise, vibration and shock





2. DESCRIPTION OF THE PROJECT

This section provides an outline of the proposed project.

2.1 Location of the project

Delmas Coal and Ikhwezi Colliery are located approximately 20km as the crow flies south-east of Delmas town as shown in **Figure 2.1**. The power plant will be a mine mouth coal-fired power generation facility and it will be located as close to the mine as possible.

The location for the power plant is Site 5, on the farm Haverglen 269 IR, and is currently owned by BHP Billiton South Africa. The location for the ash disposal facility is Site 3, on the farmHaverklip265 IR, which is owned by Ikhwezi Colliery, a subsidiary of Kuyasa Mining.

A water supply pipeline will run from the existing Rand Water bulk supply line located south of the N17 Highway, via Devon, to the farm Enkeldebosch. From there, the water pipeline will be routed to the coal plant at Delmas Coal's North Shaft. From North Shaft, the pipeline will continue north to the power plant. The power plant will use air cooled condensers, therefore it will use significantly lower volumes of water than an equivalent power plant with wet cooling system. In addition, a dry ash management system will also be used.

In order to meet the required emissions standards, limestone or dolomite will be supplied via the existing rail that runs along the western boundary of Delmas Coal. A new rail spur will be added for unloading the limestone/dolomite onto an overland conveyor which will be used to deliver the limestone/dolomite to the power plant. There will be a short coal conveyor from Delmas Coal's North Shaft processing plant to the power plant, and an ash conveyor from the power plant to the ash disposal facility.

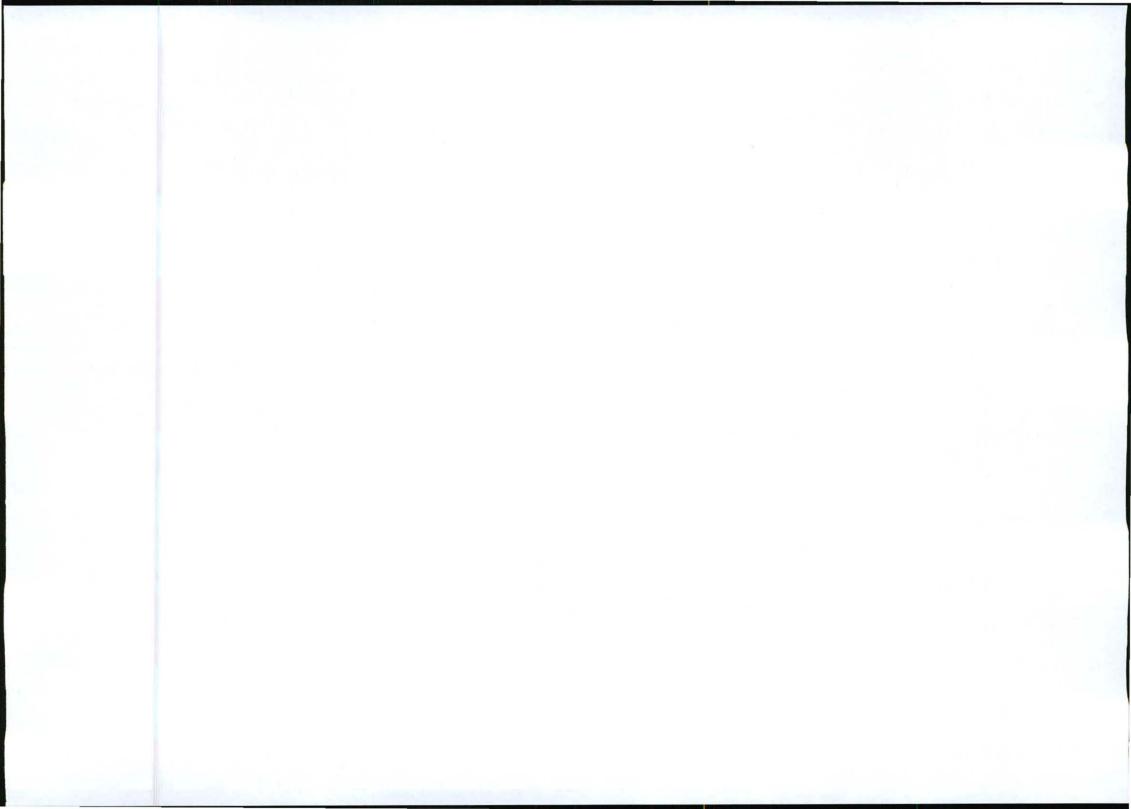
The farms that would be affected by the project are outlined in Table 2.1.

Facility/ infrastructure	Farm portions affected
Power plant	Haverglen 269 IR rem of 269. Owned by BHP Billiton. Land negotiation underway
Ash disposal facility	Haverklip 265 IR portions 3, 4, 5. Owned by Ikhwezi Investments (part of Kuyasa Mining)

Table 2.1: Details of farms affected by the project

2.1.1 Access

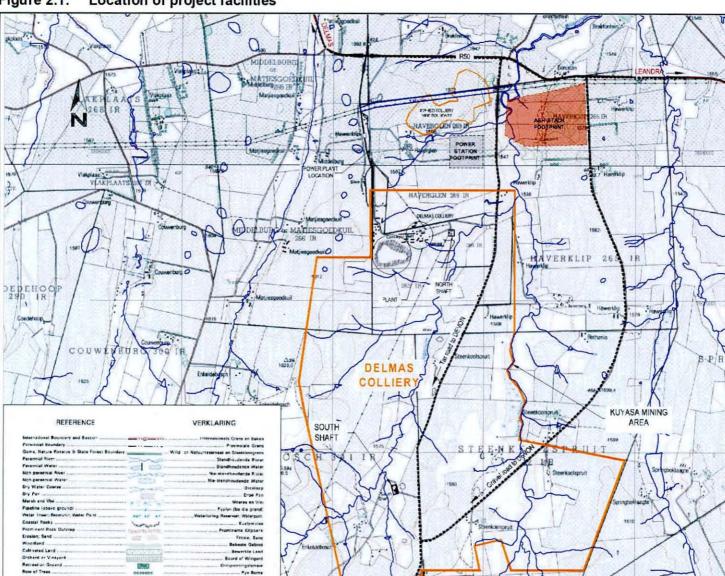
Access to the main entrance of the power plant site will require a tarred road upgrade of the existing gravel road leading from R50 toward the entrance of the power plant site. Service roads will also be constructed alongside the coal and ash conveyors to allow for general maintenance on the conveyors, and to serve as emergency routes to deliver coal and transport ash in the event of a conveyor failure and/or depletion of temporary coal/ash storage reserves.

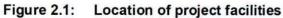


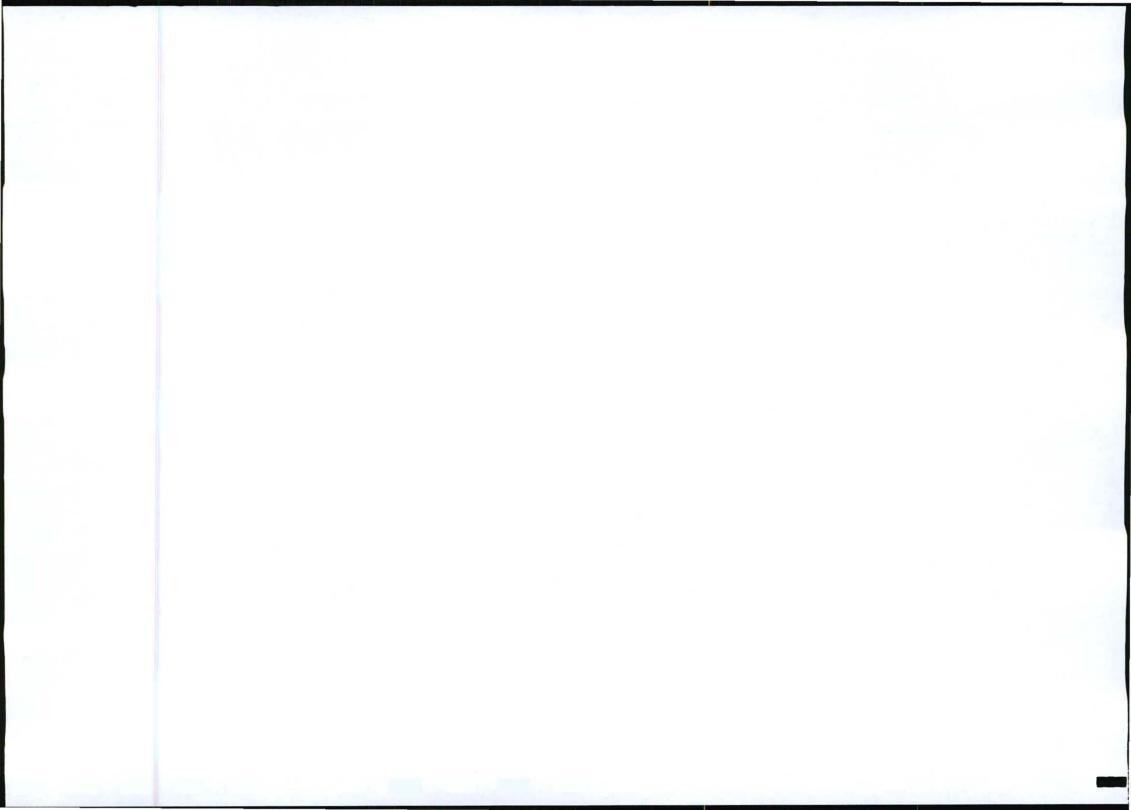
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N

Brakton







22 Power plant

2.2.1 Process Description

2.2.1.1. Coal supply

Delmas Coal will supply coal to the Kuyasa Power Plant from its No. 4 upper and No. 2 lower coal seams. Preliminary geological investigations indicate that Delmas Coal currently owns approximately 200 million tonnes in coal reserves that will sufficiently support the 600 MW Power Plant. Additional coal reserves will be available through the extension of Kuyasa's mining rights to support any possible expansions to the firstphase of the KiPower Power Plant Project.

Delmas Coal will provide washed and crushed coal to the power plant via an overland conveyor that extends from Delmas Coal to the power plant site. The coal will be stacked at an onsite coal storage facility for use in the power plant. More detail on the coal handling will be provided in the EIR.

2.2.1.2. Sorbent

To conform to South Africa's standards for sulphur dioxide (SO₂) emissions of 400 mg/Nm3, the Power Plant will require in-bed sorbent injection. Either dolomite or limestone can be used as a sorbent and trial combustion tests were conducted at Eskom's testing facility during September 2011 to February 2012 with both of these materials. The choice between dolomite and limestone will be made based on the process performance of these sorbents, their delivered costs and reliability of supply. More information about this will be made available in the EIR later in the EIA process.

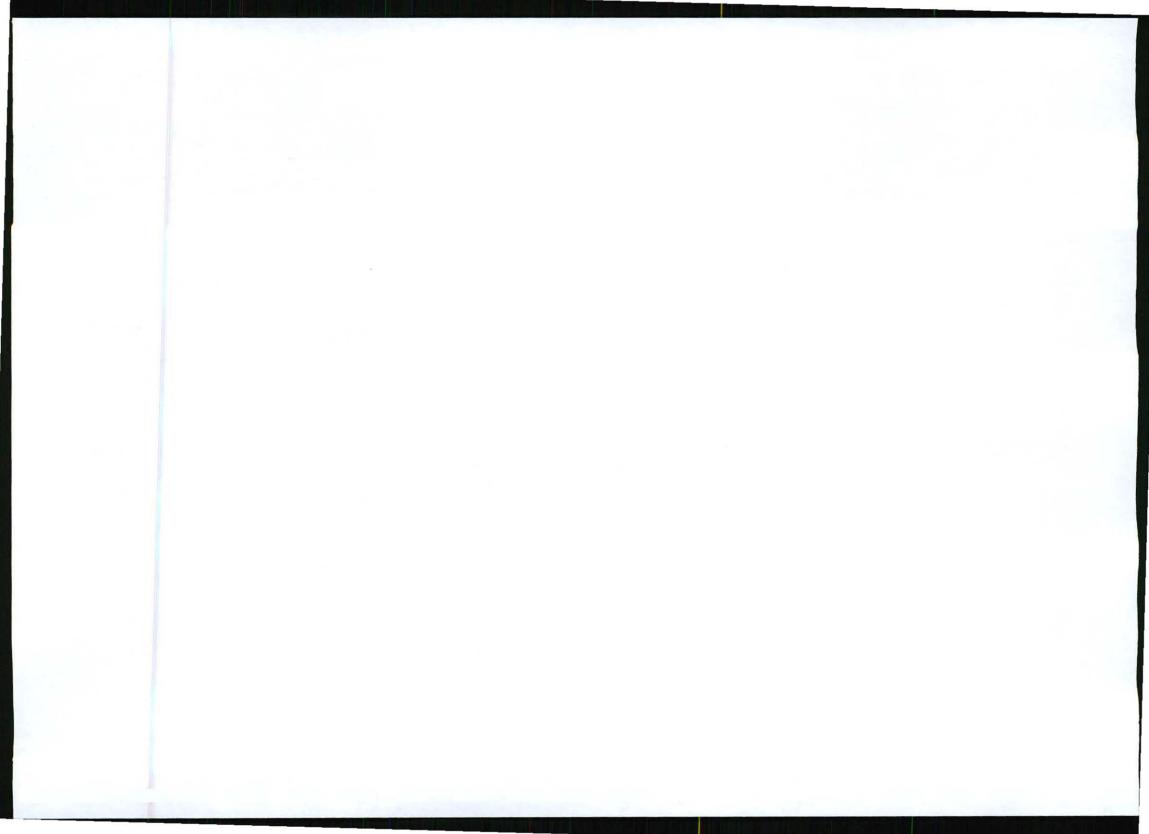
To meet the proposed South African emissions standards, the Power Plant will require approximately 693,000 tonnes of dolomite per year at 85 percent capacity factor or approximately 21 million tonnes of dolomite over an assumed 30 year economic plant life. Similarly the project will require about 440,000 tonnes of limestone per year at 85 percent capacity factor corresponding to approximately 13 million tonnes of limestone over the assumed 30 years economic life of the plant. The sorbent will be delivered to a sorbent unloading station immediately north of Delmas Coal, or delivered directly to the project site.

2.2.1.3. Power plant units

Each of the Power Plant Project's four 150 MW units will consist of a single subcritical drum type, reheat circulating fluidised bed (CFB) boiler. Balanced draft within the boilers will be maintained by one full capacity induced draft fan per unit. South African SO2 emissions limits will be controlled through combustion processes by directly injecting sorbent into the boiler's combustion chamber and if required to meet the environmental standards, supplemented by a Novel Integrated Desulphurisation (NID) system that utilises lime and recycled ash to absorb additional SO2 particles escaping the CFB boiler. Nitrogen oxide (NOx) emissions limits will be controlled through regulating combustion temperature by varying combustion air supplied by one full capacity primary air fan, and one full capacity secondary air fan. A pulse jet fabric filter (PJFF) system will control particulate emissions. Two reinforced concrete chimneys (one chimney per two units) will be equipped with continuous emissions monitoring

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TT Goba PErg MEng RAICE GR Wardle (Alternate) PEng MS(Eng) HonFSAICE D Brink (CEO) PEng BEng(Hons) FSAICE PG Gage PEng CEng BS(Eng) GDEMSAICEAlBrudE JP van der Berg PEng PiD MEng MSAICE TT Goba PErg MEng RAICE GR Wardle (Alternate) PEng MS(Eng) RAICE TECHNICAL DIRECTORS JA Kempe PEng BBJErg) GDE MSAICEABrudE JR Shamrock PErg MS(Eng) MSAICEMWM JE Glendinning PSINat MS(Env Geotiem) NJ Vermeulen PEng PiD MEng MSAICE DC Rowe PEng BS(Eng) MSAICE A Costhuizen PEng BBJErg) SMSAICE HR Aschenborn PEng BEng(Hons) MSAICE M van Zyl PSINat MS(Env Geotiem) MWM ASSOCIATES: BR Antrobus PSINita BS(Hons) MSAICE MW Palmer MS3(Eng) AMSAICE AJ Bain BEng AMSAICE PJJ Smit BEng(Hons) AMSAICER Puchner PSINat MS3(Geol) MSAIES MAES TG Ie Roux PEng MEng MSAICE CONSULTANTS: W Ellis PEng CEng MISrudE FINANCIAL MANAGER: HC Neveling BCom MBL



systems (CEMS) to monitor the plant's flue gas quality on continuous basis.

Each unit will consist of a 3,000 revolutions per minute (rpm) condensing steam turbine with air cooled condenser. The turbines will be hydrogen cooled and produce 150 MW at the generator output terminals. Power generated by each turbine would be stepped up to 275 kV by a three-phase generator step-up transformer per unit. Power would then be connected to a 275 kV double bus single breaker switchyard. Power from the switchyard will subsequently be connected to Eskom's 275 kV transmission system. The environmental authorisations for the switchyard will be undertaken by Eskom and is excluded from this authorisation process. The reason for this is that the switchyard will be constructed, owned and operated by Eskom.

2.2.1.4. Water use

KiPower plans to bring in potable water by tapping into a Rand Water line that runs between Springs and Devon to the south of the mine. Other potential sources of water are also being investigated to reduce and/or supplement this source of water in the long term. The power plant, although a dry cooling system, requires approximately 100 000 cubic meters per month. This quantity of water may be reduced significantly if additional NID desulphurisation of the flue gases is not required.

Plant makeup water supply for the power plant will be provided by a valve connection from Rand Water via the water supply to Delmas Coal. Water will be piped to the site and stored in water storage reservoirs. Two demineralisation water trains (plants) will treat, on average, approximately 43 m³ per hour of water from the reservoirs for subsequent storage in a demineralised water storage tank. High quality demineralised water from the demineralised water storage tank will be sent to each power generation unit for cycle makeup water. Each unit's feed water heating cycle design includes three low pressure (LP) feed water heaters, a de-aerating feed water heater, and two high pressure (HP) feed water heaters for a six feed water heater cycle. Main cycle heat rejection would be accomplished with air-cooled condensers while auxiliary cooling will utilize fin-fan coolers. The Power Plant will be a zero liquid discharge (ZLD) facility utilizing a brine concentrator/crystallizer to minimize the facility's water consumption and eliminate wastewater discharge. Brine/crystalliser effluent from the concentrator will be blended with the ash leaving the facility.

Bed ash (i.e. bed ash and flue gas desulphurisation (FGD) by-products) and fly ash, produced as a result combustion, will be pneumatically conveyed to ash storage silos and subsequently wetted to minimise dust generation and conveyed to the ash disposal facility as indicated in **Figure 2.1**.

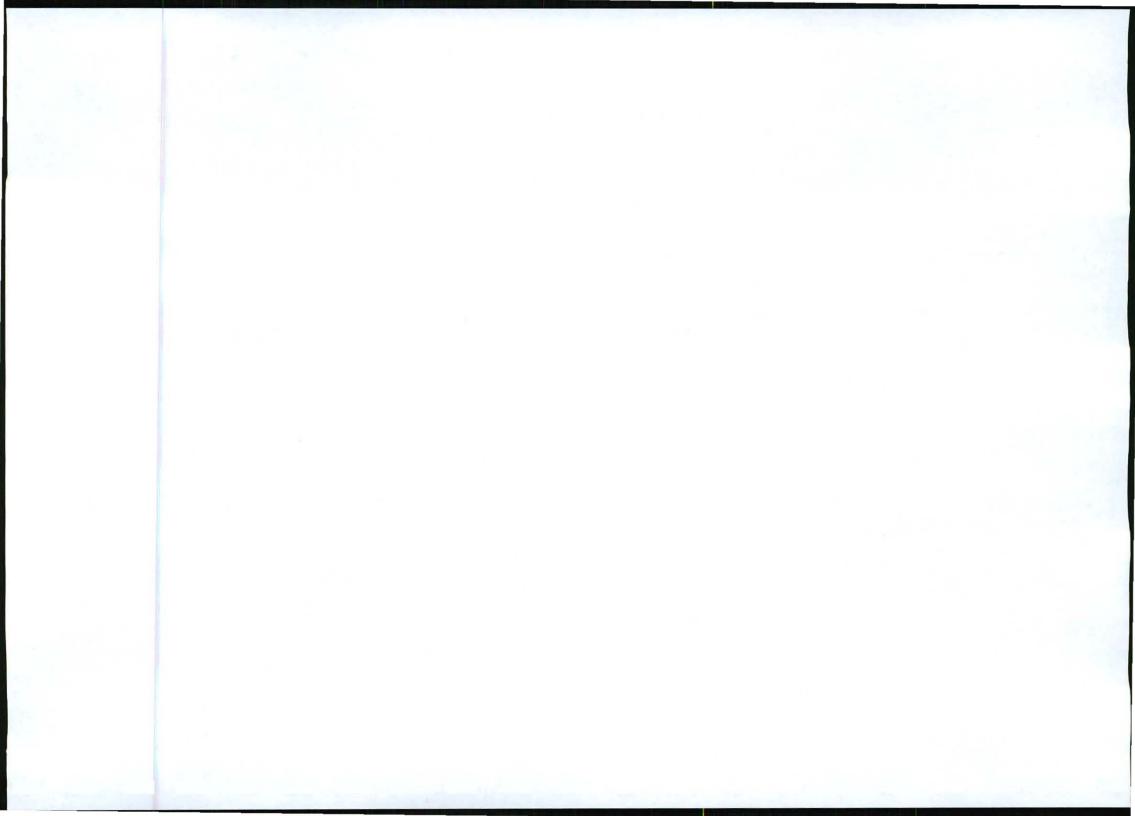
Sorbent (limestone or dolomite) from the Delmas Coal rail link will be conveyed to the plant site by an overland sorbent conveyor to the on-site storage yard. Conveyors will convey the coal/sorbent from the storage yard to the tripper gallery where the tripper conveyor system would unload the coal and sorbent to their respective coal and sorbent bunkers prior to being fed into the CFB boilers.

Each of the boilers will require approximately three weeks of maintenance outage every two years. The availability of the Power Plant is expected to be 88 percent.

2.2.2 Plant design basis

Table 2.1 outlines the design basis for the plant.





Unit No.	Design Basis (using dolomite as a sorbent)	Check Basis (using limestone as a sorbent)
Gross Plant Output, MW	600	600
Auxiliary Load, MW	76.4	76.4
Net Plant Output, MW	523.6	523.6
Boiler Efficiency (HHV Basis), percent	86.3	86.7
Net Plant Heat Rate (HHV Basis), kJ/kWh	11,659	11,605
Net Plant Thermal Efficiency (HHV Basis), percent	30.9	31.0
Fuel Bum Rate, tonnes per hour	375	373
Capacity Factor, percent	85	85
Plant Raw Water Requirement, m3/hr	156	152
Bed Ash Production, tonnes/hr	130	119
Fly Ash Production, tonnes/hr	87	80
Sorbent Consumption, tonnes/hr	93	59
NID Lime Consumption, tonnes/hr	1.5	1.5

Table 2.1: Design basis for the power plant

2.3 Ash management system disposal facility

An ash management system is required for the Power Plant ash. An ash management system would have the following components, each described in more detail below:

- Ash handling systems.
- The ash stack.
- Water handling systems.

2.3.1 Ash handling systems

This would typically comprise an overland conveyor to transport ash from the power station to the ash stack site. The dry ash would be conditioned by the addition of water at the power station to ensure dust generation is minimised. At the ash stack site the conveyor would discharge onto a loading cone on a concrete lined platform, alternatively into a truck loading silo, from where it would be loaded into haul trucks and driven to the active component of the stack. A road would be constructed next to the conveyor to act as a maintenance access road, as well as a haul road for trucks to carry out emergency ash transportation in the case that conveyor maintenance and repair is required.

Depending on the final site layout, it may be feasible to extend the conveyor up the ash stack as it develops so that the final ash discharge point is closer to the active cell. In this scenario it is likely that an ash stacker will be used.





2.3.2 Ash stack

The ash stack is essentially a landfill where only the ash and brine generated by the power station is to be deposited. This would be a lined facility to minimise pollution risks to the environment. The liner or barrier design would be governed by the waste classification of the ash material by means of the Department of Environmental Affairs waste classification regulations for the disposal of waste and the regulations governing the design of waste disposal facilities.

The ash stack must be sized to accommodate the ash generated over the life of the facility, at present this is 30 years. This is a sizeable footprint and so it is best to subdivide the ash stack site into a number of developmental phases or cells. This has the following advantages:

- Reduced up-front capital expenditure.
- Reduced catchment area for impacted surface water.
- Reduced risk of exposed landfill liner being damaged as it is exposed for less time.
- Reduced impact to the environment in that portions of the site are only developed when needed.

The ash stack will be formed either by haul trucks loading ash from the loading platform, driving up haul roads on the facility to its plateau and dumping the ash with a bulldozer performing final shaping activities or by using an ash stacker. The side slopes will be shaped to an overall slope of 1:4.5, equivalent to 1:3.7 slope (15 degrees), with 8m wide benches every 10m vertical intervals. The peak height above ground level will be in the order of 40m. Depending on the final site's geotechnical stability characteristics, the need to construct a single or even multiple low level ash platforms to precede the advance of the main stack can be determined.

The phasing of the site into cells that will rise to full height does mean that concurrent rehabilitation can commence relatively early in the life of the site. As the earthworks for a new phase is done, the topsoil and spoil from this activity would be placed on top of the previous cells, reducing handling costs and the need to form intermediate stockpiles. The topsoil will also be of a better quality than that which has been left in stockpiles for many years.

From a water handling perspective, the ability to construct in phases over the full height reduces the amount of rain water that come into contact with the ash, so reducing the size and cost of the dirty water handling systems.

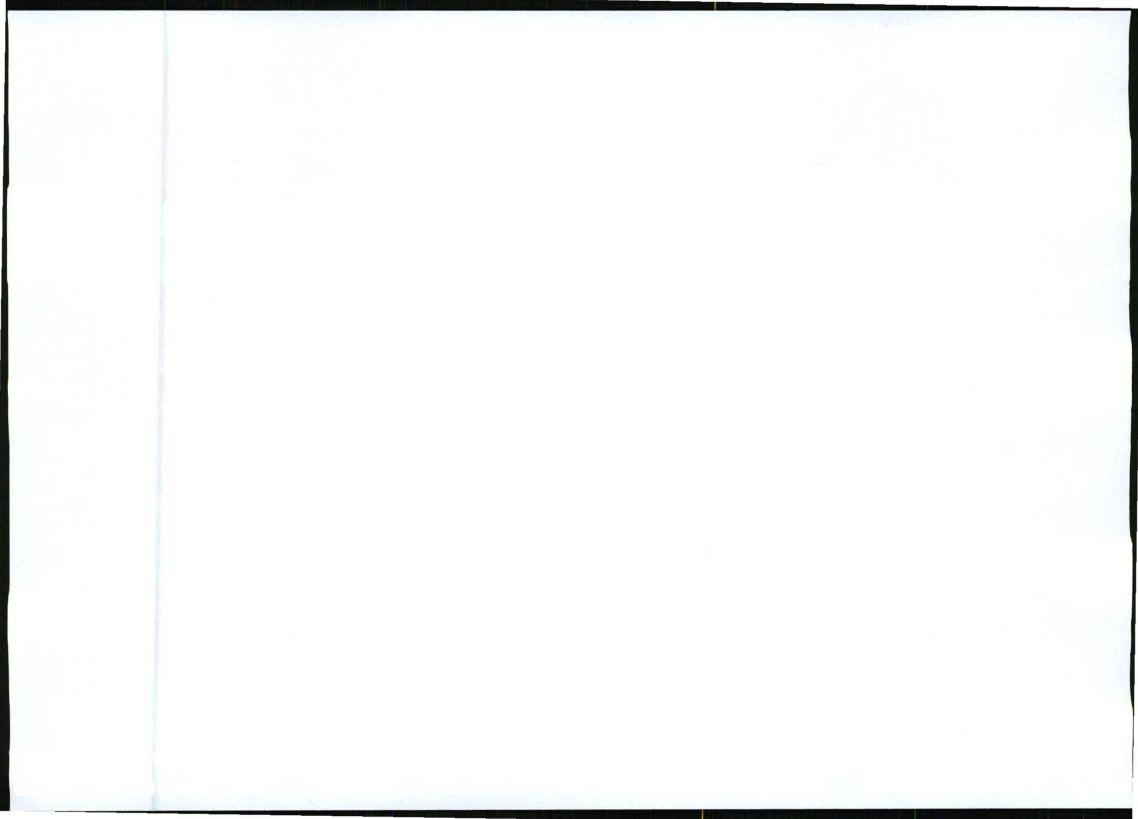
2.3.3 Water handling systems

A major component of the facility will be its water handling. This comprises systems to handle and separate both clean and dirty water. Government Notice GN704 (also R77) although aimed at the mining industry, forms a best practice guideline and will be used in the design of the water handling facilities.

2.3.3.1. Clean Water Systems

Clean storm water from upstream of the site must be deviated around the site as much as possible such that it remains clean. Once portions or phases of the stack are rehabilitated, grassed and drainage/erosion controls provided, the storm water arising off these must also be discharged into the environment.





A further source of clean water may be groundwater arising from under the footprint of the site. If required, groundwater control drains (sub-surface drains) will be placed under the liner to collect this water. It will be released back into the environment if it is proved to be clean and meets the DWA water release specifications.

2.3.3.2. Dirty Water Systems: Storm water

The dirty water systems must handle contaminated run-off from the active cell and any filled cells that have not been rehabilitated. It should be noted that the size of each cell and hence the phasing planning, has a large impact on the size of the dirty water dams.

2.3.3.3. Dirty Water Systems: Leachate

The dirty water systems must also handle leachate generated within the body of the ash stack. Given that the leachate flow would be of relatively small flows spread over long durations, the over-riding design criteria for a dirty water system would be the storm water run-off.

2.3.3.4. Pollution Control Dam (s)

All dirty water will be channelled or piped to a pollution control dam. The liner design of this dam would also be governed by the waste classification of the potential leachate by means of the Department of Water Affairs: Minimum Requirements for Waste Disposal by Landfill or the proposed new standards of the DEA. The dam would have to be sized appropriately by means of a water balance study to ensure that the risk of spilling is minimised to a maximum rainfall over 24-hour period with a 1:50 year occurrence (1:50 year rainfall event). Water will be extracted from the dam into an irrigation system that will dampen down the advancing face of the ash, side slope dozing activities, as well as exposed surfaces that are yet to be rehabilitated. Haul roads on the stack are also a source of dust. The dam must incorporate a water tanker standpipe so that tankers can be filled easily. An interconnection pipe between the power station and the dam may be provided to ensure flexibility of water handling. Depending on the final site topography, it may be necessary or advantageous to have multiple smaller dams rather than one large single dam.

2.4 Access and supply of materials

The provincial R50 road runs to the north of Delmas Coal, and North shaft is accessed directly off this road - see Figure 2.1. It is likely that both the power plant and the ash disposal facility would require access onto this road for construction and operations.

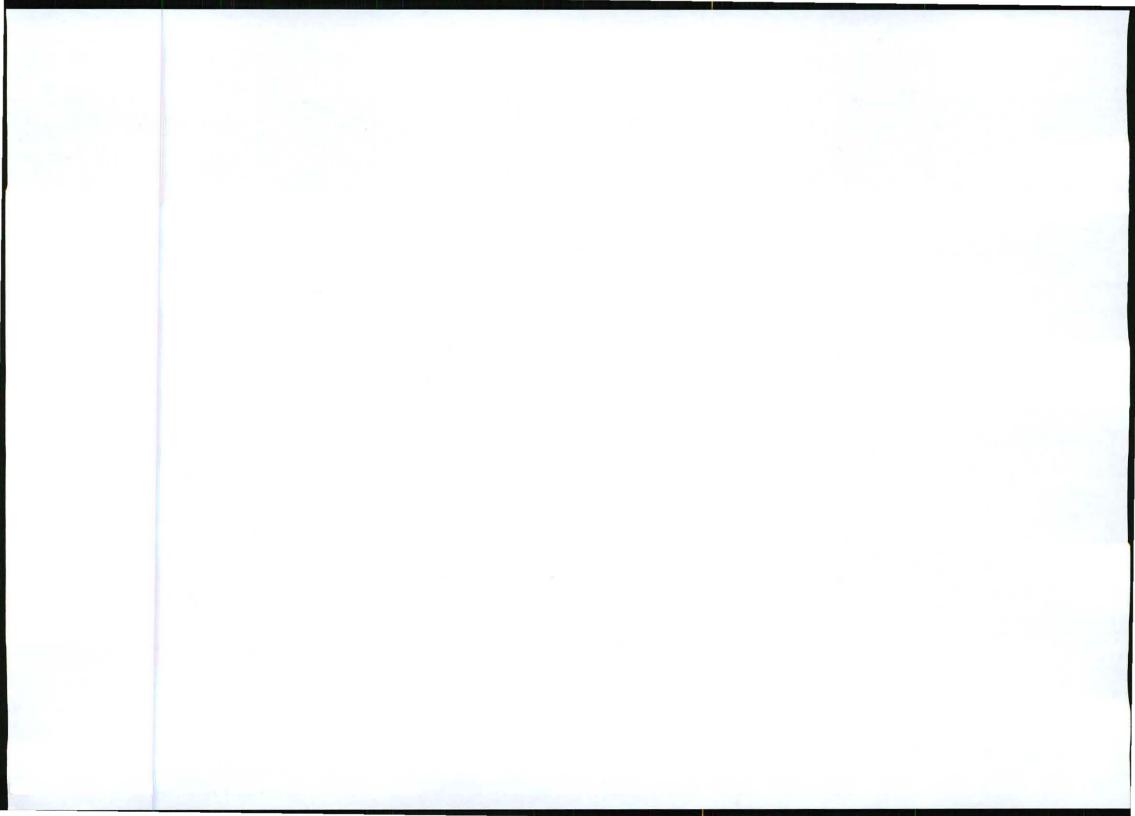
There is a rail link that runs to the west of the mine, and some raw materials, such as the dolomite or limestone to be used for air emissions control, can be brought in via this route as well. This rail link is used to export coal from Delmas Coal.

2.5 Transmission connections

Existing 275 kV Eskom transmission lines run within 500 metres of the proposed site. In addition, new 400 kV power lines parallel to these existing lines are proposed by Eskom and have been authorised. These are shown in Figure 2.1

Electricity from the KiPower Plant will be fed into the Eskom system via a switch yard.





2.6 Construction requirements

Construction labour requirements for the power plant and ash facility is expected to peak at about 3000 workers. Construction is expected to require 30 months for the power plant, and during this time the ash facility preparation, access road, conveyors and river crossings will be constructed. Depending on the contractor that will undertake the detailed design and implementation, some 500 skilled workers that are not South African, are expected to be used for highly specialised functions during construction.

A contractor's lay-down area will be created within either the power plant site or the ash facility site. This area will have access control and will be used for storage of materials and equipment, as well as for offices and workshops to service the contractor's personnel on site. Temporary toilets, washrooms, change rooms and kitchen facilities will be included in the lay down area. No accommodation for staff will be allowed.

Construction staff will be required to take up accommodation in the nearest towns of Delmas, Devon and Leandra. Shuttle facilities will be provided for construction staff to access the site.

2.7 Power Plant labour requirements

During operations, some 200 to 250 permanent positions will be created. These will range from unskilled to highly specialised positions. No accommodation for staff will be allowed on site.

2.8 Project implementation schedule

It is anticipated that the permitting processes will be concluded by end of 2012. As a result, construction is planned to commence early in 2013 and to be completed by late 2015. The power plant and ash facility operation will therefore likely commence in 2016. It is likely that the power generating units will commence operation as each one is completed. The Power Plant will therefore follow a staggered start-up process.

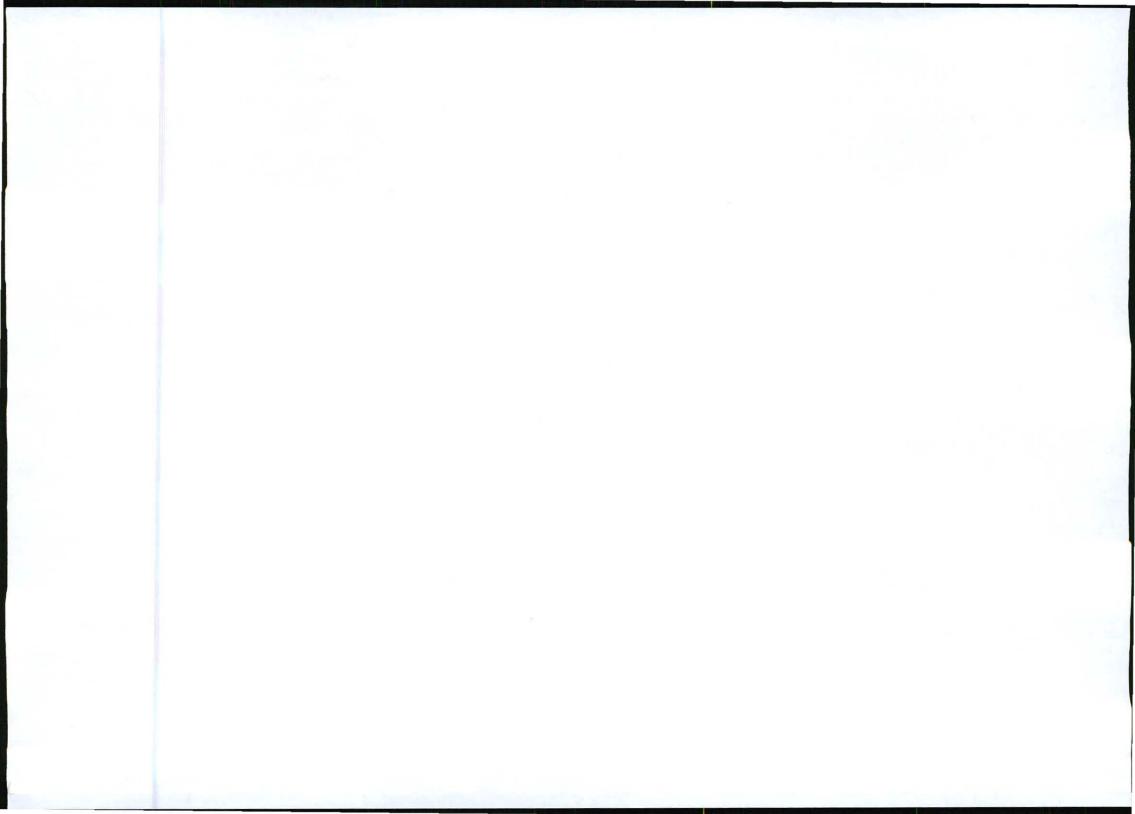
2.9 Project motivation (need and desirability)

From the available data collected from the Southern African Power Pool (SAPP) and the National Energy Regulator of South Africa (NERSA), and Eskom, electric power reliability issues are expected to continue at least until 2015 assuming all potential and planned SAPP projects are implemented. Although Eskom is aggressively pursuing the construction of additional capacity resources, based on available data, it is anticipated that Eskom alone will not be able to reliably and efficiently support South Africa's grid in the foreseeable future.

Other participating SAPP countries have indicated potential projects to be implemented in the future. Provided that these potential projects receive the required funding and are implemented on schedule, South Africa's grid may sufficiently be supported in 2015 through the SAPP interconnection. This scenario would be unlikely, since according to SAPP's 2008 Annual Report, these projects have not secured financing. In such a scenario, the first-phase of this Power Plant Project is feasible from a need for power perspective and will aid in providing invaluable grid stability and reliable, efficient power within South Africa.

In addition, as this is a mouth of mine power plant, the cost and environmental impacts of transporting coal over significant distances to remote power plants are significantly reduced. There is also a possibility that coal discard may be used as an energy

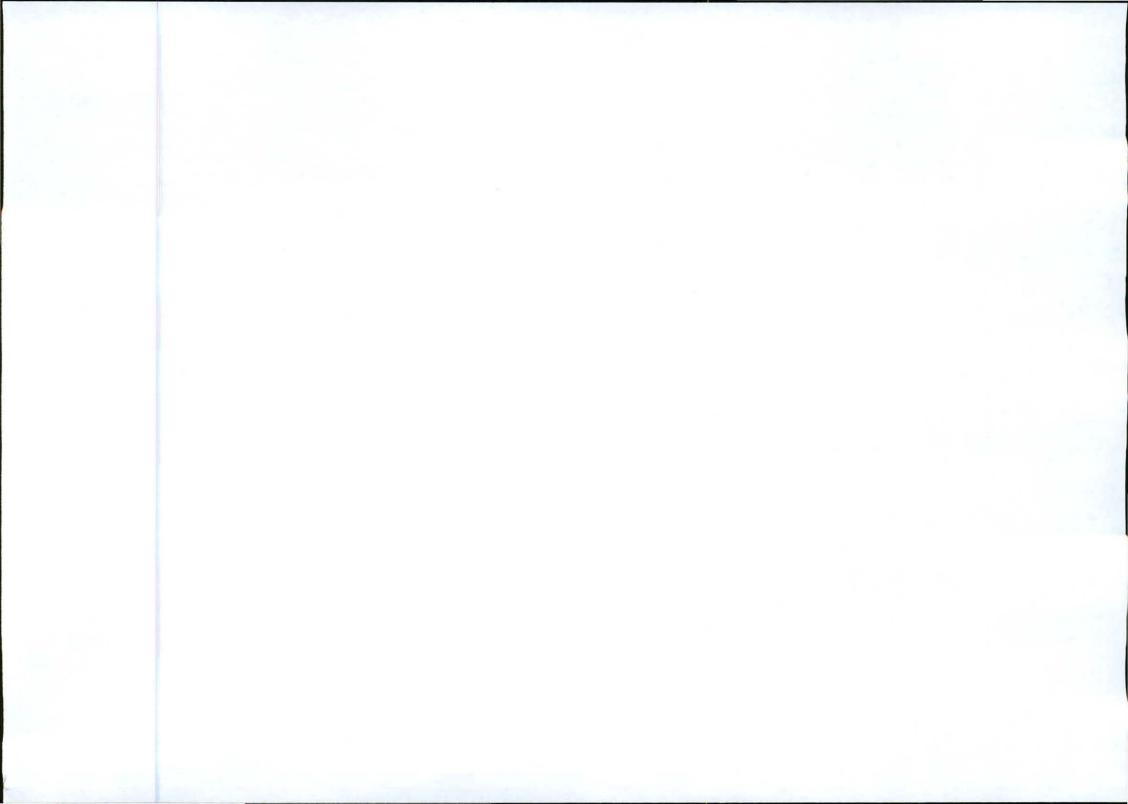




source, thereby optimising coal reserves and reducing discard dump liabilities. The latter possibility is still being investigated.

Lastly, Delmas Coal's No.4 seam coal is a low grade coal not suitable for use in existing Eskom power stations, except if blended with higher grade coal. The use of CFB boiler technology in this project provides the ability to burn low grade coal, without sacrificing its boiler performance compared to conventional pulverized coal (PC) technology, for power generation, whilst at the same time the project is able to meet current strict emission requirements. Thus, this project will have the environmental benefit of utilising Delmas Coal's low grade coal, which is currently being discarded.

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3. CONSIDERATION OF ALTERNATIVES

3.1 Steam generator technology

Steam generator design for high pressure reheat boiler applications in conventional coal-fired power plants has evolved into two basic combustion and heat transfer technologies. Suspension firing of pulverized coal (PC) and circulating fluidized bed (CFB) combustion of crushed coal are the predominant technologies in use today. This project utilises the CFB boiler technology. Primary advantages of CFB boilers compared to PC boilers are as follow:

- CFB boilers have the capability for superior fuel flexibility compared to PC boilers. Since the combustion temperature of CFB boilers is below the ash initial deformation temperature, the slagging and fouling characteristics of alternative fuels are not a concern. As long as the CFB boiler auxiliaries such as fuel feed equipment and ash removal equipment are provided with sufficient capacity, a very wide range of fuel heating values and ash content can be burned in a CFB boiler without sacrificing its boiler performance. This allows the project to utilise low grade coals, which are currently being discarded, for power generation.
- Due to the long fuel residence time in the CFB boiler combustion loop, a very wide range of fuel volatile matter content can also be utilized. Fuel volatility ranges well below that needed to burn the fuel in suspension in a PC boiler can be efficiently burned in a CFB boiler.
- The lower combustion temperatures of the CFB boiler also result in a significant reduction in the NOx emissions of the CFB boiler compared to a PC boiler.

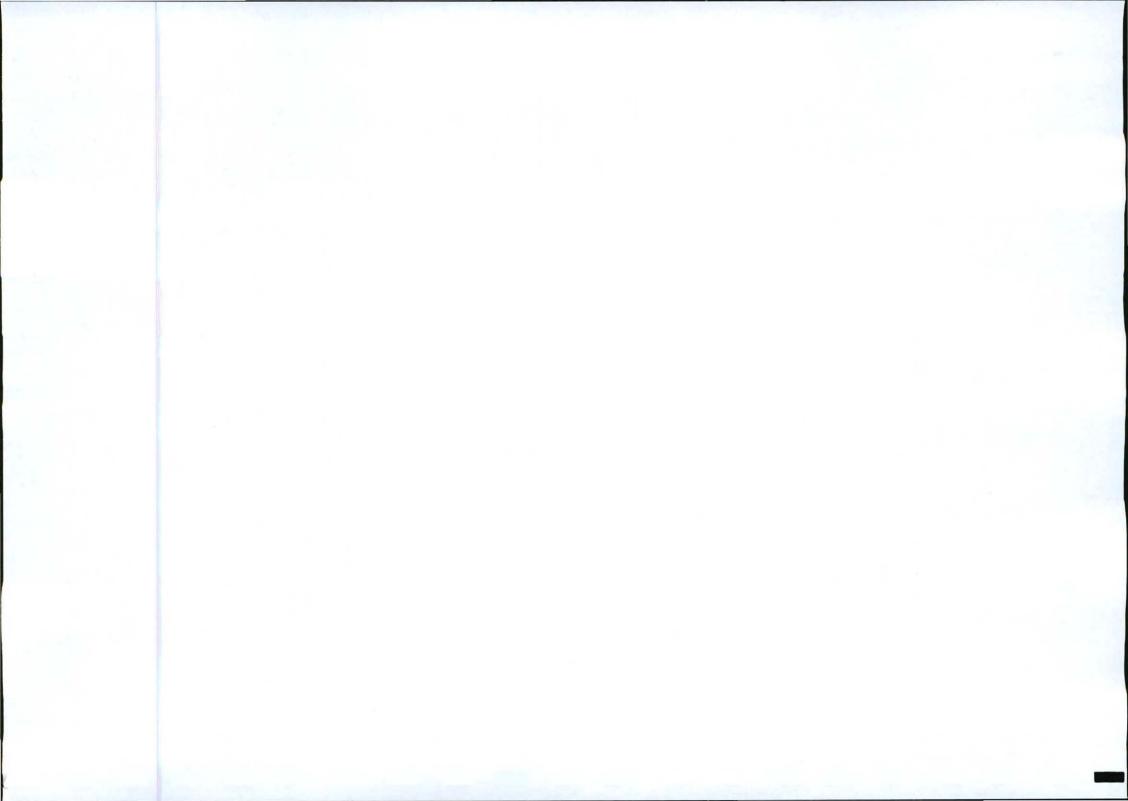
Over the past 25 years, CFB boilers have been utilised for steam generation for electric power generation, the availability and reliability have improved and at this time are considered to be equivalent to PC boilers. Several improvements in the refractory system designs, fuel and sorbent feed system designs, and ash extraction equipment designs have been made that adequately address the initial problems encountered with these system components. Since the CFB boiler systems do not have pulverisers and do not have multiple burner systems with the large number of moving or controlled components, and have significantly fewer soot-blowers, many of the high maintenance components of conventional PC boilers do not exist with CFB boilers.

3.2 Ash disposal facility options

There are two key options for ash disposal: surface or underground disposal.

Underground disposal has been investigated for other projects in South Africa and is considered technically challenging, of high environmental impact and sometimes just unfeasible. Usually, ash filling in underground mine workings is done to provide stability to mine workings and to fill easily accessible voids that are not in use and will not drain to operational workings. In addition, water from the ash cannot be recovered from underground disposal operations and thus water needed for ash disposal becomes a significant requirement. This cannot be considered a primary storage technology as deposition rates and storage capacities vary from day to day as voids fill at differing rates, this could result in outages of the power station. Lastly, this option is difficult to license due to the environment and technical challenges. At Delmas Coal, due to ongoing operations, ash filling of old underground workings is not considered feasible.





Surface disposal is either carried out using wet ash/slurry or dry ash stacking:

- Wet ash dams have several environmental concerns associated with it, which include increased soil and surface and ground water contamination over dry ash stacking. Water usage is higher for slurrying of ash and water management becomes more complex due to the volumes involved. Another disadvantage of this option is that development costs are high since most of the required footprint must be prepared upfront. The topography of the Delmas sites is not suited to wet dam disposal as the rates of rise are likely to be very high for sustained periods, with associated ash dam stability concerns. Wet ash dams, if operated poorly, can also generate significant dust from the top basin, which can only be rehabilitated at the end of the life of the facility.
- Dry ash stacking is preferred mainly because it uses less water. In addition, dry . ash stacking has advantages over wet ash/slurry disposal. The ash body is more stable making it safer to construct and maintain. Concurrent rehabilitation can be carried out more easily on the surfaces thereby reducing dust generation potential as well as the impact on the natural drainage catchment areas. The associated water management systems are easier to construct, maintain and operate. The development costs are lower since the disposal operations can be phased more easily. This option is therefore the preferred technology for this project.

3.3 Power plant and ash disposal facility location

A comprehensive site selection process has been undertaken for siting the power plant and ash disposal facility. A site selection report (July 2011) was completed that identified a shortlist of sites for these two facilities. The shortlisted sites were further assessed by developing concept designs and site layouts for the power plant and ash facility on the different shortlisted sites, and taking coal and ash haulage into consideration. Section 5.3.2 outlines the outcome of the assessment of the shortlisted sites. The site selection report is included in Appendix B and a brief summary is provided in Section 3.3.1.

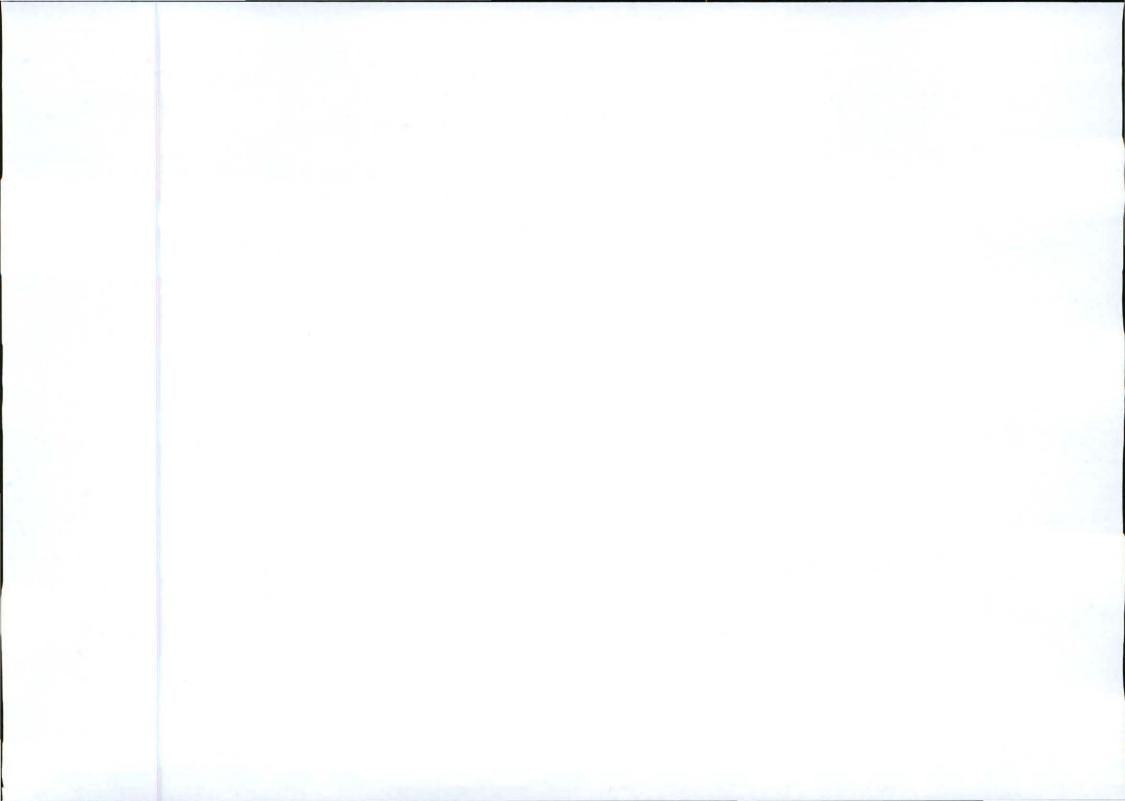
3.3.1 Identification of suitable sites (brief summary of site selection report)

> Both the ash disposal facility and the power plant require the following key criteria with respect to location:

- The area must preferably not be undermined due to long term ground stability risks associated with undermined areas.
- The area must not hold viable reserves of coal, which would be sterilised if the . plant or ash were placed on it.
- The area should preferable have a low agricultural potential. .
- Significant surface water resources must be protected due to the highly stressed . nature of the local water sources.
- Known biodiversity sensitivities must be avoided, especially wetlands, .
- The power plant and ash disposal facility must be within close proximity of the coal . source and preferable each other.

Using available information on the above criteria, 9 areas were identified as potentially suitable for the power plant and ash facility, as shown in Figure 3.1.





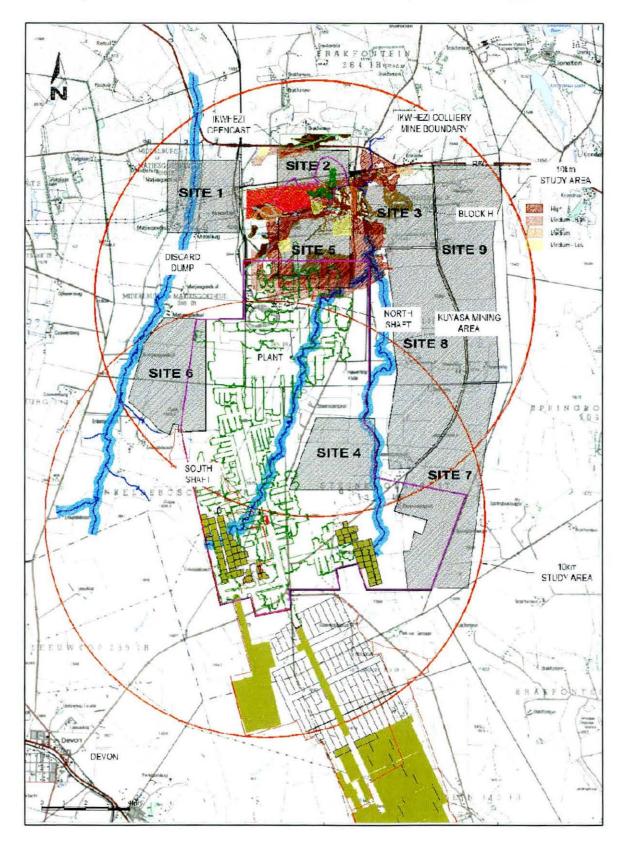
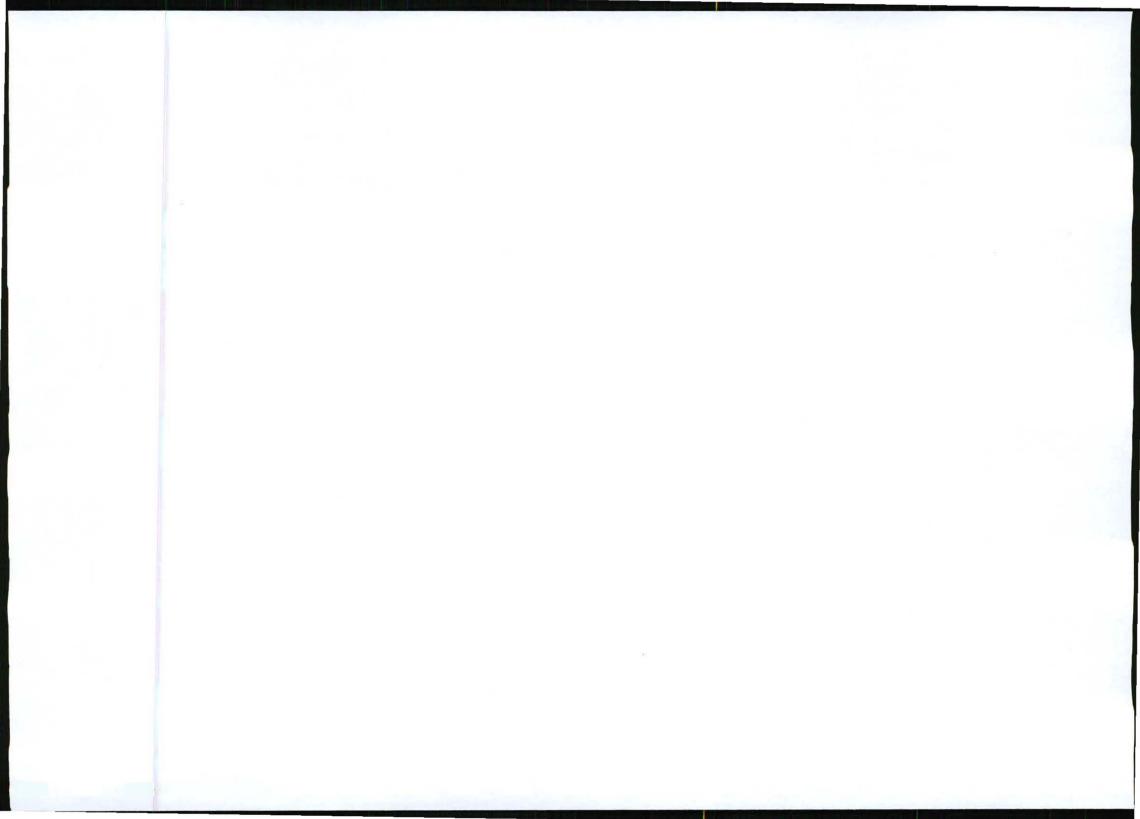


Figure 3.1: Initial 9 sites identified for the power plant and ash facility.





3.3.2 Initial screening of the sites (summary of site selection report)

Technical screening

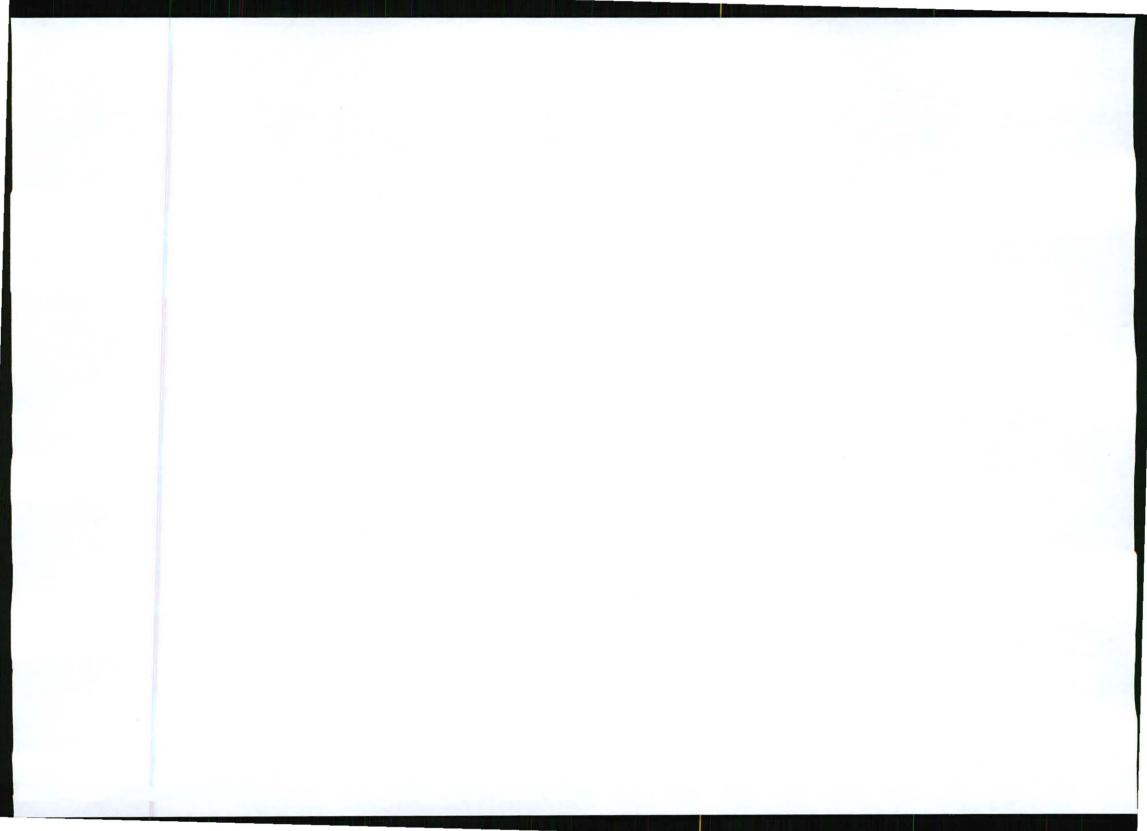
Black & Veatch provided a technical screening for the nine sites using the following list of criteria that was appropriate for the siting of the power plant:

- Distance to coal supply: The distance to coal supply affects the capital and operating costs for the power plant.
- Topography: Levelling, excavations and filling of areas may be required to provide a suitably flat foundation for the plant and thus, topography will affect construction cost.
- Site Constructability: Both construction cost and ease of operations and maintenance are factors of this criterion.
- Transmission connection: The power plant will feed into the national electricity grid managed by Eskom. Eskom 275 kV transmission lines (4 circuits) run in close proximity to some of the sites. The transmission connection permitting will be handled by Eskom.
- Water supply: The further the source of water, the longer (and more expensive) the pipeline required to get it to the plant.
- Distance to ash facility: As for coal, the distance to the ash facility will affect the capital and operating costs.
- Expansion potential: KiPower may wish to increase the plant up to 2000MW. In which case, sites that would allow for expansion within its footprint were favoured.
- Underground workings: Due to stability considerations, current and future underground workings should be avoided.
- Coal reserves: Where possible, coal reserves should be avoided to ensure future resources are not sterilised due to the presence of a power plant on the surface.
- Land ownership: Land owned by Kuyasa Mining or its subsidiaries is preferable since land acquisition costs will be avoided and rezoning applications can be simplified.
- Accessibility: The provincial R50 runs close to most of the northern-most sites. Nevertheless the intersection may need upgrading and for the more southern sites, the local road may need upgrading from the R50 to the plant site entrance. This will affect cost of the project and may influence operational costs later.

Jones and Wagener engineers provided a technical screening of the sites using the following list of criteria that was appropriate for the siting of the ash facility:

- Capacity of site: This refers to the amount of ash that could be accommodated on the site. Sites that could not accommodate 30 years of ash production from a 600MW plant were screened out as multiple small facilities in general have a total impact higher than a single large one.
- Storage Efficiency: This refers to how the site could be maximally utilised for storage of ash, which reduces the footprint needed for the facility.
- Topography: The topography affects the water management beneath the facility. Additional drains, sumps and pumping systems to manage the facility will add to the cost.





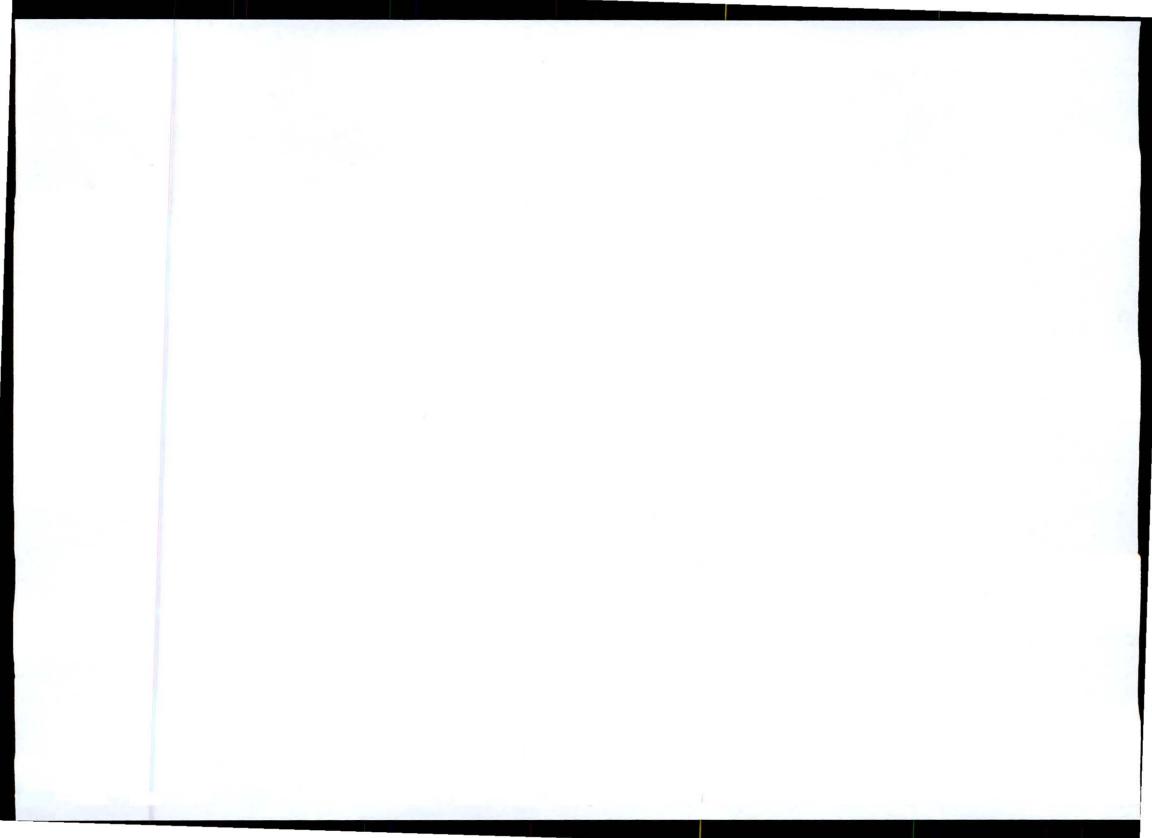
- Drainage direction: Ideally the site should drain in one direction so that water can be effectively collected through drains and trenches. If a site straddles a ridge, the collection of water at the bottom of the facility becomes complicated and will require two sets of collection systems, which increases costs, management requirements and the risk of overtopping and spillage from the site.
- Slope: In order to ensure effective drainage of the site, a sloped site is preferred. On the other hand, a steep slope would have a higher risk of failure of the ash facility. Thus the slope of the site has to be considered from both a drainage and stability perspective. Normally a site with a slope between 2 and 4 degrees is favoured.
- Expansion potential: This refers to the potential to expand the facility beyond the 30-year 600MW ash generation scenario. Sites large enough to cater for expansion were favoured.
- Conveyor/truck access: This refers to access to the site for a conveyor and/or haul road for the ash to be brought to the site.
- Land ownership: Land owned by Kuyasa Mining or its subsidiaries is preferable since land acquisition costs will be avoided and rezoning applications can be simplified.
- Potential to fit plant and ash on site: Sites that could accommodate both the ash disposal facility and the power plant were favoured as a single complex is preferred for easier operations as well as for land acquisition.
- Geotechnical: the type of geology would influence how strong foundations will be; what the seepage potential of the site would be, soil profile, soil properties, founding conditions, etc.

Environmental screening

Environmental specialists that will be involved in the detailed assessment of this project screened the sites for its use as a power plant or ash disposal facility based on the following key environmental components and using available information about the sites:

- Ground water: Ground water pollution from various sources associated with a either the power plant or the ash facility could occur. These include pollution control dams, chemical storage areas, transmission oils, water treatment plant, coal stockpile area and offices, workshops and ablutions. Thus, sensitive ground water areas, where people are dependent on ground water for potable and agricultural use, or where ground water feeds a key surface water resource, such as rivers and wetlands, should be avoided. Mitigation measures to prevent ground water pollution can and will be built into the project, however, ground water sensitivity was taken into account in the site selection process.
- Surface water: Surface water pollution from various sources associated with a power plant and ash facility can occur. These include overflows from pollution control dams, contaminated storm water from storage areas such as coal and other raw materials, oils and greases from workshops and equipment, etc. As for ground water, sensitive surface resources should be avoided. Mitigation measures can be built into the project, which will influence the cost. Nevertheless, the sensitivity of surface water resources was considered in the site selection process.
- Economic: This assessment is from an external perspective. It is not related to the construction and operation costs associated with the plant and ash facility, which





are already included in the technical assessment. The loss of land for agricultural use; impact on Land Values and the potential impact on Local Businesses were considered.

- Ecology: Potential impacts on flora and fauna in the area were considered. Information from previous studies in the area as well the Mpumalanga Provincial Department database¹ was used. Wetlands/rivers and biodiversity were considered.
- Aesthetic/other: This assessed potential impacts associated with visual intrusion, proximity to people and cultural/archaeological issues.

A rating and ranking process was carried out to determine the most suitable sites, as detailed in the site selection report.

Suitable sites for power plant:

The outcome was that Sites 3 and 5 are most suitable for the power plant

Suitable sites for ash facility:

Sites 5, 8 and 9 were considered to be the most suitable for the ash facility. During this initial site selection, Site 3 was considered too small for the ash facility due to the presence of opencast pits. This view was revised later in a re-assessment of the site selection process, as indicated in Section 3.3.4

3.3.3 Land acquisition

Power plant

The shortlisted sites for the power plant were Sites 3 and 5. Site 3 is owned by Ikhwezi Colliery and is available to KiPower. Site 5 is owned by BHP Billiton and is in the process of being purchased by Kuyasa Mining and will thus be available to KiPower. Thus both sites were considered further.

Ash facility

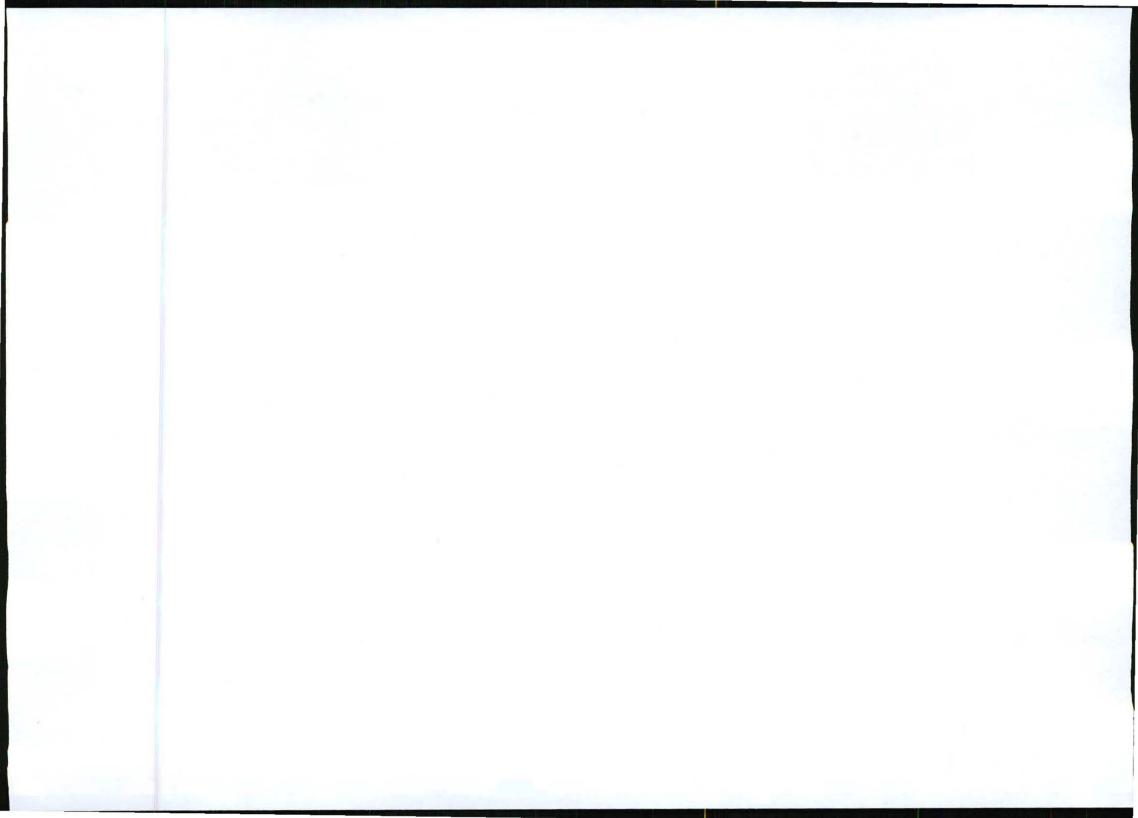
After the initial assessment, Sites 8 and 9 were found to be the preferred sites for the ash disposal facility and land acquisition discussions were initiated by Kuyasa Mining with the owners of Sites 8 and 9. The owners indicated the following requirements:

- Purchase price in the range of R45,000 to R60,000 per hectare.
- Requirement that Kuyasa Mining purchase all their land and associated assets in the Delmas area, and not only land required for the KiPower project.
- Relocation costs for the owners and their staff.

Land purchases in the Delmas area range from R8,000 to R30,000 per hectare, depending on the assets and infrastructure associated with the land (see land value assessment in **Appendix B**). The high purchase price on Sites 8 and 9 will result in land acquisition costs of about R30 to R50 million. The land acquisition cost was then taken into consideration in the comparison of the shortlisted sites. Based on the reassessment, Sites 5 and 3 were considered the preferred sites for ash disposal.



¹MDEDET, 2011: CD of various shape files from MDEDET head office provided January 2011.



3.3.4 Consideration of Sites 3 and 5 for the power plant and ash facility

Site 3

Site 3 has historical partly opencast pits which require rehabilitation. Should these pits be rehabilitated to an appropriate level, the area can be used for ash disposal. Recent trends in the coal mining and power generation sector of South Africa shows a move towards using previously disturbed areas for ash disposal, such as rehabilitated open cast areas and residual pits. An assessment of the available space on Site 3, taking rehabilitation of the pits into consideration, was undertaken by Jones and Wagener, and it was found that 30 years of ash from a 600MW power plant can be stored on the site.

Site 5

Undermining of site 5 was noted in the initial site selection investigation. The undermining information was limited to No. 4 seam. Recent data from Kuyasa Mining indicates that No. 2 seam mining operations extend significantly beneath Site 5 (see **Figure 3.2**). As a result of the undermining on Site 5, the area that can be used for the power plant and ash facility is significantly constrained. There is sufficient space for either facility, but not for both.

Figure 3.2: No 2 and No 4 seam undermining on Site 5



3.3.5 Cost comparison for different shortlisted site alternatives

A cost comparison was done by Jones and Wagener and is given in **Appendix B**. Costs based on a concept level design for the ash facility, taking into consideration site specific characteristics, were compared for the following site configuration options:



- Power plant at Site 3, ash at Site 5;
- Power plant at site 3, ash at Site 8;
- Power plant at site 3, ash at Site 9;
- Power plant at site 5, ash at Site 3; and
- Power plant at site 5, ash at Site 8.

Costs include components such as:

- Conveyor infrastructure for:
 - coal from North Shaft boundary to the Power Plant, to leading to the ash stack; and
 - ash from Power Plant to ash facility.
- Load out facility at the stack,;
- Ash stack landfill;
- Contaminated storm water handling;
- Minor pumps for irrigation water cycling; and
- Final closure shaping and rehabilitation.

The power plant costs are not likely to differ significantly for the different site options. Cost comparisons for the ash disposal facility are presented in **Figure 3.3**.

The operational costs involved in moving coal from the shaft to the power station and ash from station to the ash disposal site (conveyors), as well as, the truck component are given in **Table 3.1**. These are expressed in real costs per annum. Locating the ash at Site 3 and power station at Site 5 is the cheapest alternative for any given ash disposal facility liner type (the liner type will be determined based on the results of the waste classification study and site specific conditions). The next best alternative is the power station remaining at Site 5, but Site 8 being used for ash. These results are intuitive, given that the power station transports three times as much coal as ash.

Savings on minimising coal transportation thus has a far bigger impact than minimising ash transportation.

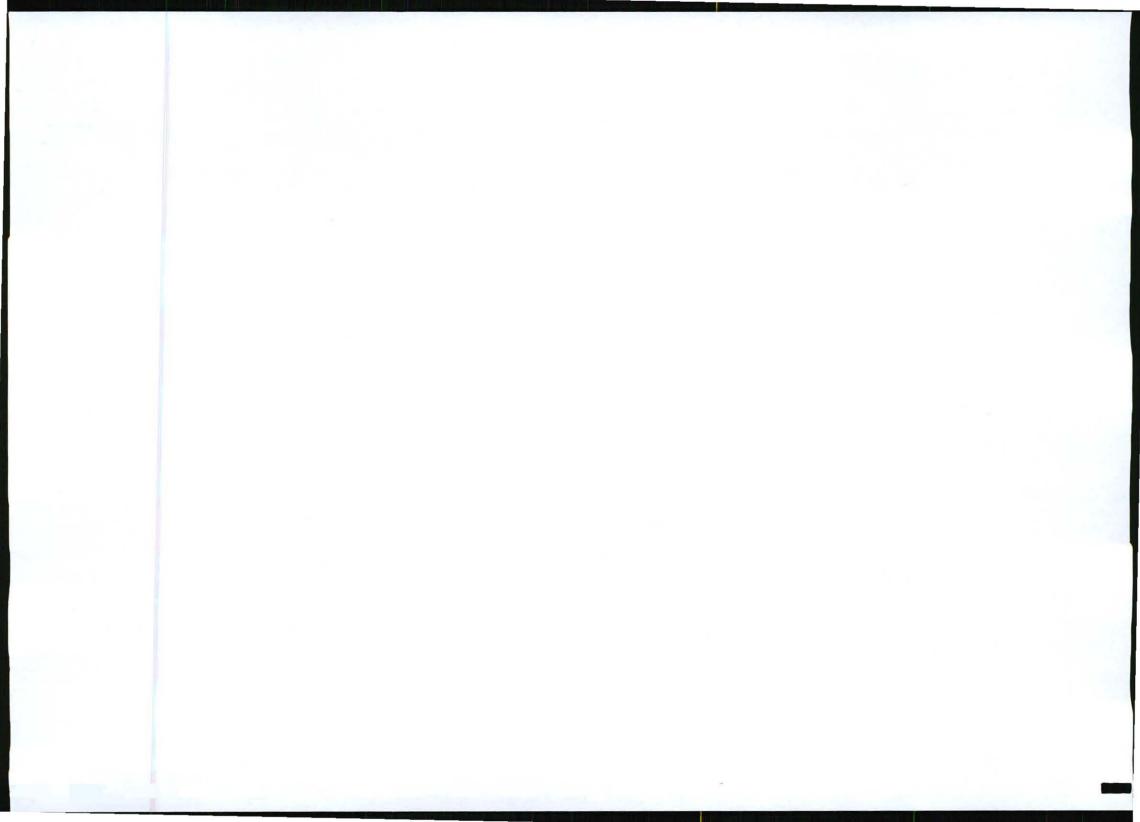
3.3.6 Site selection outcome

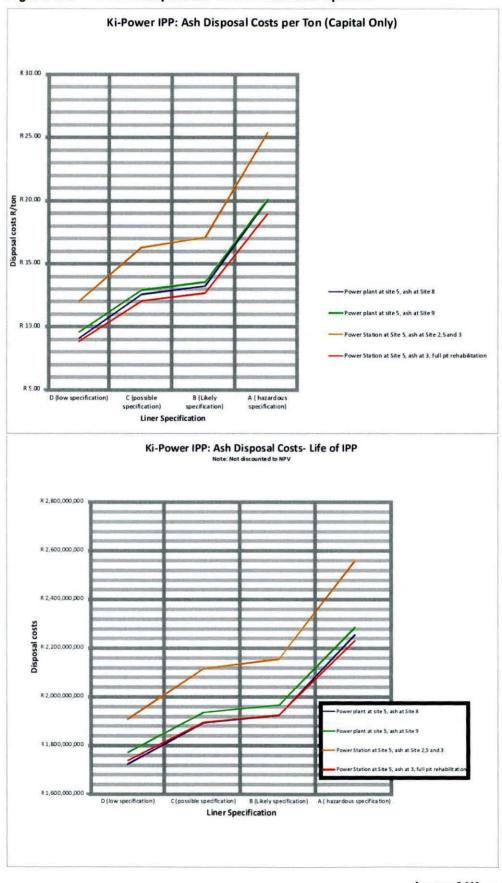
Power plant

The power plant will be located on Site 5 as shown in **Figure 3.4**, outside of the areas that are undermined. Some infrastructure may impinge on undermined areas, but a stability analysis has confirmed this will not pose a risk (see **Appendix B**). Detailed geotechnical assessments will be done prior to detail design.

Ash facility

The ash facility will be located on Site 3 as shown in **Figure 3.4**, with rehabilitation of the existing pit to accommodate the ash facility. The costs for the rehabilitation of the pits will be borne by Ikhwezi Colliery, a subsidiary of Kuyasa Mining.







JW058/10/C182- Rev A





Options	Operating Costs / ton	% Difference from lowest
Power plant at site 5, ash at Site 8	R 23.21	0%
Power plant at site 5, ash at Site 9	R 23.89	3%
Power Station at Site 5, ash at Site 2,5 and 3	R 24.26	5%
Power Station at Site 5, ash at 3, full pit rehabilitation	R 23.96	3%

Table 3.1: Comparison of operating costs for different ash disposal sites.

Options	Materials Handling Costs per Year	% Difference from lowest
Power plant at site 5, ash at Site 8	R 42,500,200	0%
Power plant at site 5, ash at Site 9	R 43,605,850	3%
Power Station at Site 5, ash at Site 2,5 and 3	R 44,205,250	4%
Power Station at Site 5, ash at 3, full pit rehabilitation	R 43,719,250	3%

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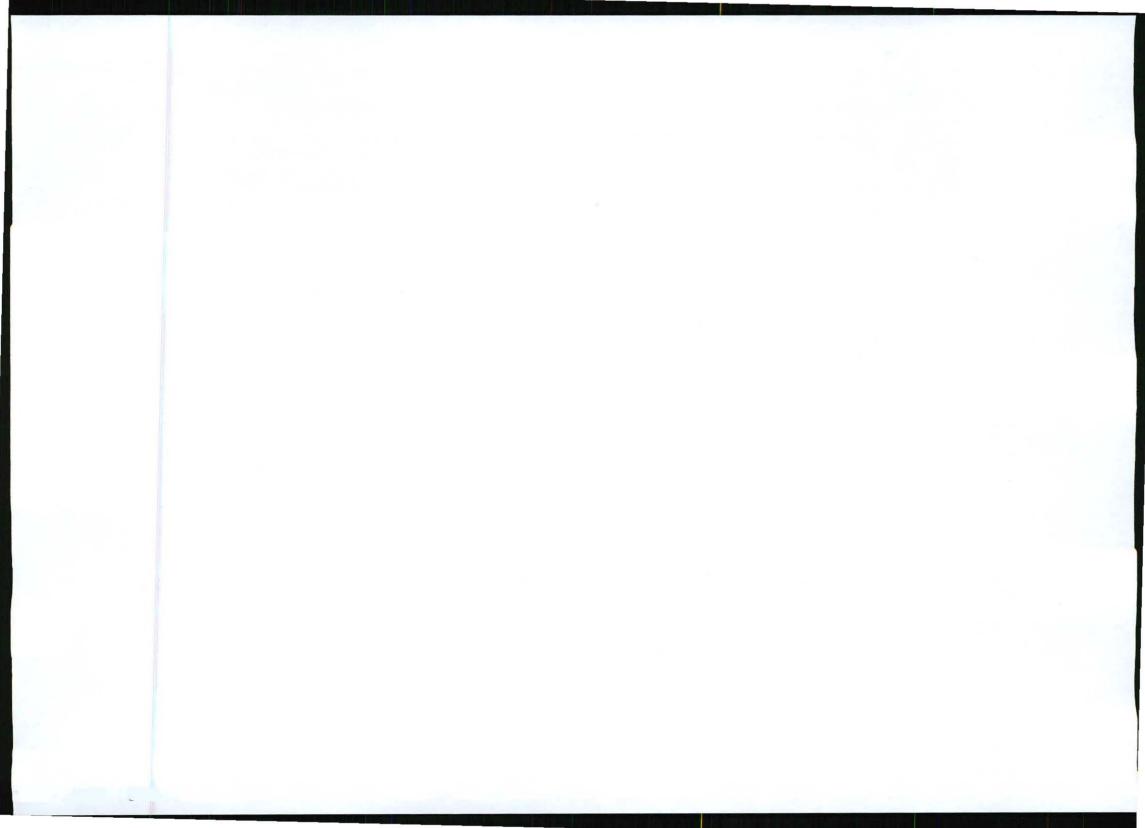
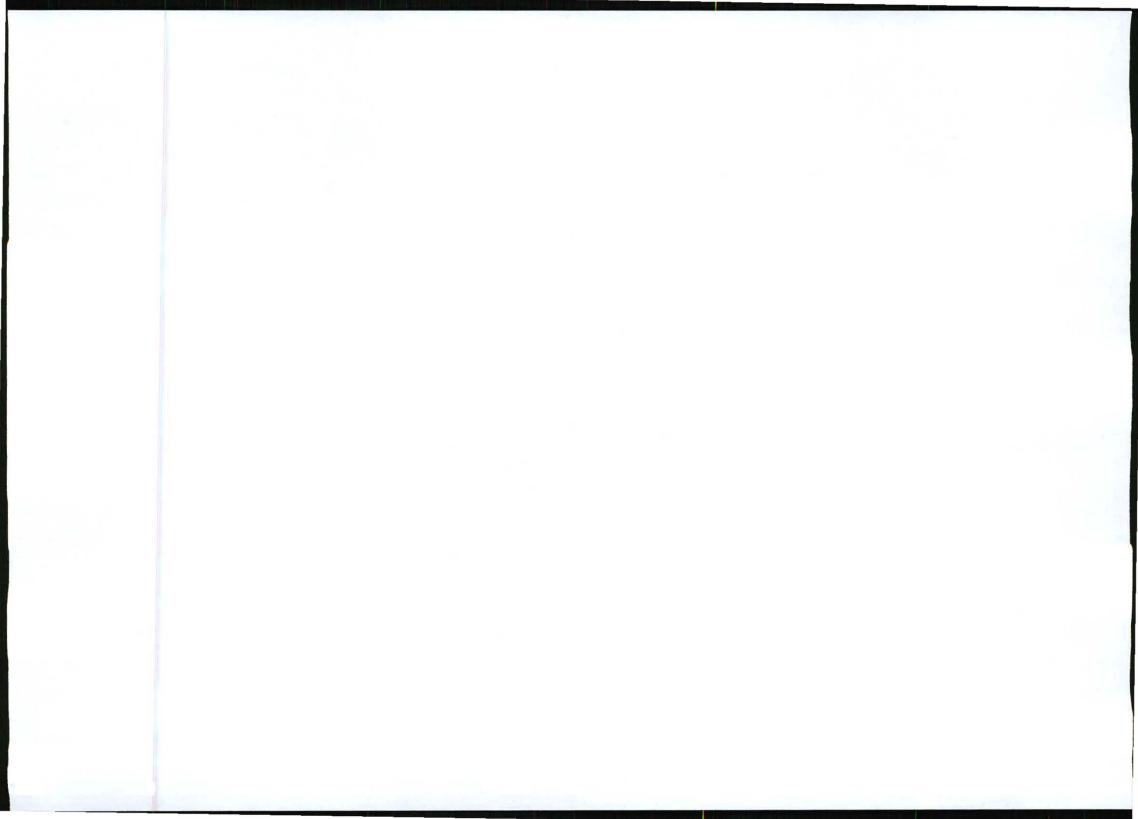




Figure 3.4: Preferred power plant site and ash stack location

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3.4 Water supply alternatives

This aspect of the project is being handled in a separate licensing and authorisation process, as the water supply alternative will also provide water to Delmas Coal. Unlike other coal mines, Delmas Coal is a water deficit mine.

A summary of the alternatives are provided here for completeness.

There are several water supply options available to this project as follows:

- Rand Water: A bulk supply pipeline runs west to east just south of the N17, passing close to Devon and Leandra. There are 2 existing manhole points just south of Devon and Leandra where a side leg pipeline supply can be installed for KiPower and Delmas Coal. In addition, Rand Water has indicated it plans a new supply line from this bulk water line to Delmas town. A pipeline can be installed from this proposed line to the power station and mine. Concept routes for the pipelines were developed and cost estimates were developed for comparative purposes only, as follows
 - Option 1 from tie-in near Leandra: R57mil
 - Option 2 from tie-in near Devon: R51mil
 - Option 3 from tie-in near Delmas: (R83mil)

It is clear that the Devon tie-in line is the cheapest alternative.

- Blommeland dolomitic aquifer: This farm has dolomitic water and uses this source of ground water for its own use. Whilst the yield has not been quantified, it is reported by the farm owner that significant volumes are available. A full investigation is needed to determine the sustainable yield of ground water on this farm as an alternative water source to KiPower. An investigation is being initiated to do so. If this proves to be a viable, sustainable source of water, further work to licence its use and develop and a well-field and pipeline to the Power Plant will be undertaken. It is anticipated that the investigative work to confirm sustainable yield and the licensing process will be lengthy. Thus, this source could assist in reducing the use of Rand Water in the long term and will be investigated for this reason.
- SamQuarz Quarry: The quarry has indicated that it discharges significant volumes
 of water from its operations, in excess of a few mega litres per day. However,
 discussions with the mine have not progressed to sufficient technical detail to
 confirm these figures.
- Further work will be done to confirm this source, ensure water use licensing can be carried out and other licences can be obtained. Thus, this source could assist in reducing the use of Rand Water in the long term and will continue to be investigated for this reason.
- Keaton Energy: This new mine has indicated it may have a positive water balance in the future as its operations develop. The mine is undertaking a study to determine how much water it could have in future. Thus, this source could assist in reducing the use of Rand Water in the long term and will continue to be investigated for this reason.
- Springboklaagte Mine: This is a proposed mining development to the east of the KiPower project area. The authorisation processes have recently commenced and it will be some time before it is known if any water may become available over time, as its operations develop. Thus, this source could assist in reducing the use of Rand Water in the long term and will continue to be investigated for this reason.



Thus, Rand Water will be pursued as the secure water supply for immediate development. Other sources will continue to be developed to replace, reduce or supplement the Rand Water over time. A separate licensing process, which will consider route options, will be undertaken for this pipeline supply project.

3.5 Coal and ash haulage

Due to the short distances, conveyor systems are preferred for coal and ash haulage. Service roads along the conveyors will ensure trucks can be used should there be down-time on the conveyors.

Conveyors are preferred over truck haulage for the following reasons:

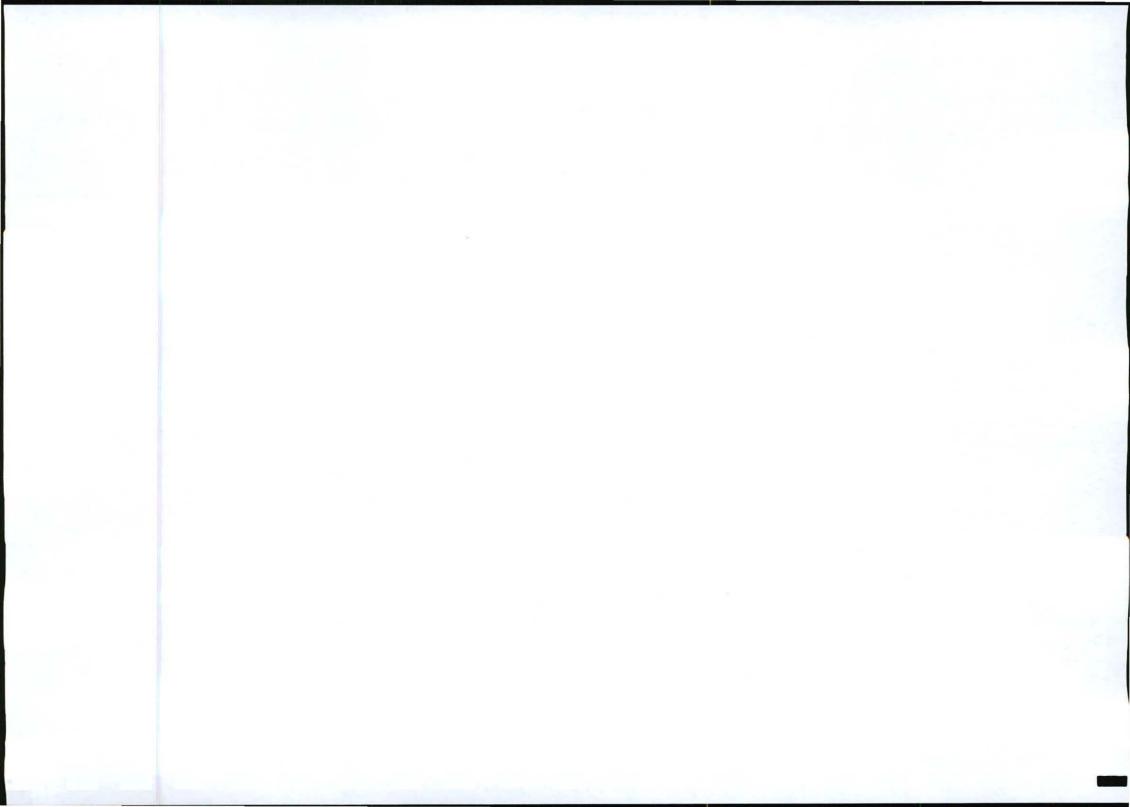
- Lower operating costs over short distances;
- Better environmental mitigation is possible and can be included up front in the design; and
- Higher reliability.

3.6 Limestone/dolomite

The CFB technology utilises a sorbent to minimise sulphur dioxide emissions from the power plant stack. Two potential sorbents are available: limestone and dolomite. Both can be supplied commercially in South Africa. Limestone usage would be lower than dolomite due to its higher calcium content (calcium reacts with the sulphur dioxide to form calcium sulphate[CaSO₄] in the CFB reactor). Tests are being run at a SANAS accredited laboratory to determine the reactor performance using local limestone and dolomite. The tests results will be considered in the selection of the sorbent. These results will be reported in the EIR later in the EIA process.

3.7 Labour

A social impact assessment is being carried out for this project and labour recruitment options will be considered for this project. The results will be reported in the EIR later in the EIA process.



4. ENVIRONMENTAL CONTEXT

This chapter provides a summary of the environmental context based on existing information for the area from the Delmas Coal Integrated Water Use License Application and iKhwezi Colliery Integrated Water Use License Application. A more detailed description will be included in the EIA report, drawing from the various specialists studies to be undertaken for the impact assessment phase of the process.

4.1 Regional soils and geology

The geology in this area is typically Karoo with dolerite sills and dolomite found in some areas.

Transported sandy soils to clayey residuals are found over the area. The area is dominated by farming, which is well suited to the arable soils found in the area.

4.2 Topography

The area is typically gentle rolling hills and vales, with many shallow drainage areas where seasonal pans and wetlands over broad floodplains exist. The area is part of the Highveld region, and lies at an altitude of around 1540 metres above sea level.

4.3 Climate

4.3.1 Rainfall

The Delmas area is characterised by warm wet summers and cold dry winters. The rainfall in the region is almost exclusively due to summer (October to March) showers and thunderstorms. Mpumalanga's mean annual rainfall is recorded at 736mm and the proposed project area is positioned in an area that receives on average between 500 and 750mm of rain per annum (MDEDET, 2005). The annual average rainfall from the nearby Devon weather station is 654mm (iKhwezi EMPR Amendment).

4.3.2 Temperature

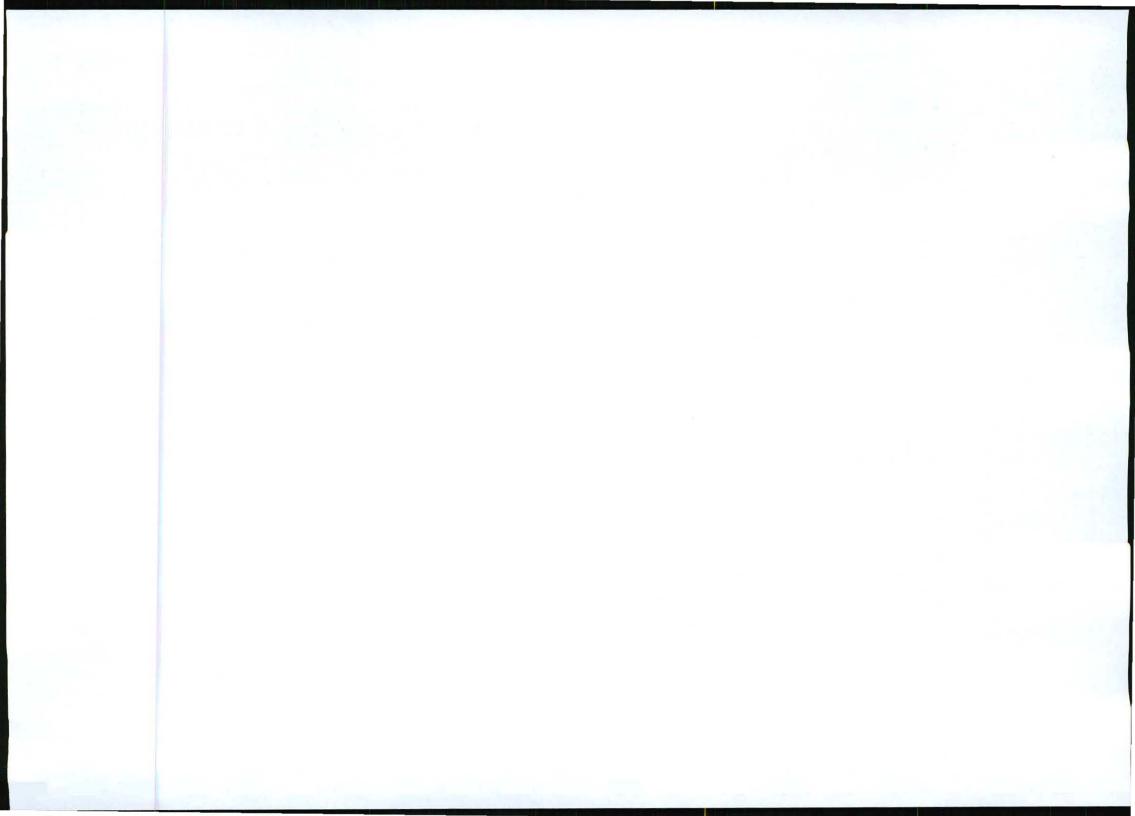
Temperature data from the nearby town of Delmas shows the warmest months of the year are December, January and February with an average temperature of 20°C. June, July and August are the coldest months of the year with the average temperatures being in the region of 7.4°C (Delmas Coal IWULA).

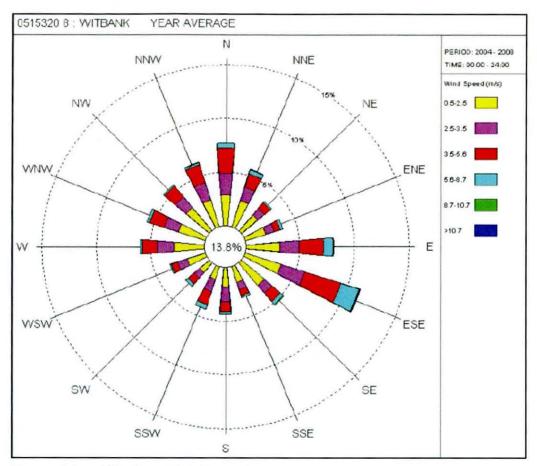
4.3.3 Evaporation

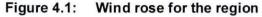
The mean monthly evaporation recorded in the 1997 Delmas Coal EMPR is 155mm (Symons Tank method) and 61mm ("A" Pan method) (Delmas Coal IWULA).

4.3.4 Wind

Wind blows predominantly from the east and east-south-east, although winds from the north, north-west and west are also common. The wind rose for the region is given in **Figure 4.1.**







(Source: Black and Veatch Feasibility Assessment)

4.4 Land use

The Delmas area is characterised by mainly agricultural activities. However, significant mining activities also exist in the area. With new and proposed coal mines in the region, the predominantly agricultural setting may become a mixed agricultural-mining setting.

4.5 Surface Water

Delmas Coal is situated within the Olifants Catchment Water Management Area. The area falls within the B2 sub-drainage region, the largest sub-catchment of the Limpopo Basin. The quaternary catchment area is B20E and the water management area (WMA) 4.

The Olifants River Catchment is of considerable economic importance as a significant number of mining, industrial and agricultural activities (including intensive irrigation schemes) are concentrated within the catchment. This catchment is a principal sub-catchment of the Limpopo River and covers an area of approximately 54 570 km² within the eastern parts of South Africa.



The Olifants River originates in the Highveld grasslands in Gauteng and Mpumalanga province and meanders North-east into Mozambique. In the upper reaches of the Olifants River, it is joined by a number of major tributaries including the Klein Olifants, Elands River, Wilge River and Bronkhorstspruit, before it passes through the Drakensburg Mountains and descends over the escarpment toward the Kruger National Park.

Delmas Coal itself falls within in the Wilge River Sub-Catchment of the Olifants River, which drains a relatively small area. This perennial river covers an approximate distance of 120km, before it reaches its confluence with the upper Olifants River, upstream from the Loskop Dam. Its perennial flow is largely maintained by a network of wetlands, as well as tributaries, including the Kromdraaispruit, Bronkhorstspruit, Saalboomspruit and Grootspruit. The proposed project falls within the upper reaches of the Wilge River (Delmas Coal IWULA).

4.6 Groundwater

Geohydrological evaluations for the 1997 Delmas Coal EMPR were performed by Jasper Muller & Associates (JMA). The information has been summarised below.

Groundwater Table 4.6.1

The average depth of the water tables is 12.98 metres below the surface. The deeper water levels observed in the northern part of the area were determined not to be a cause of mining related activities but rather to the groundwater abstraction by local farmers from the underlying dolomitic aquifer.

4.6.2 Groundwater Zone

The regional ground water zone likely to be influenced around Delmas Coal is referred to as a shallow Karoo type aquifer. On a local scale, these aquifers can be extremely complex due to the very nature of depositional and structural characteristics of the host rock in which the groundwater occurs and moves.

Preferential flow zones will exist primarily on dolerite/sediment contact zones, as well as on the sediment/coal contact zones. The permeability of these preferential flow zones is expected to vary between 1.0 and 10.0 m/day, with localised permeabilities of up to 50.0 m/day not being unrealistic.

No significant volumes of water are anticipated to occur in the dolerites as they are considered to be mostly un-weathered.

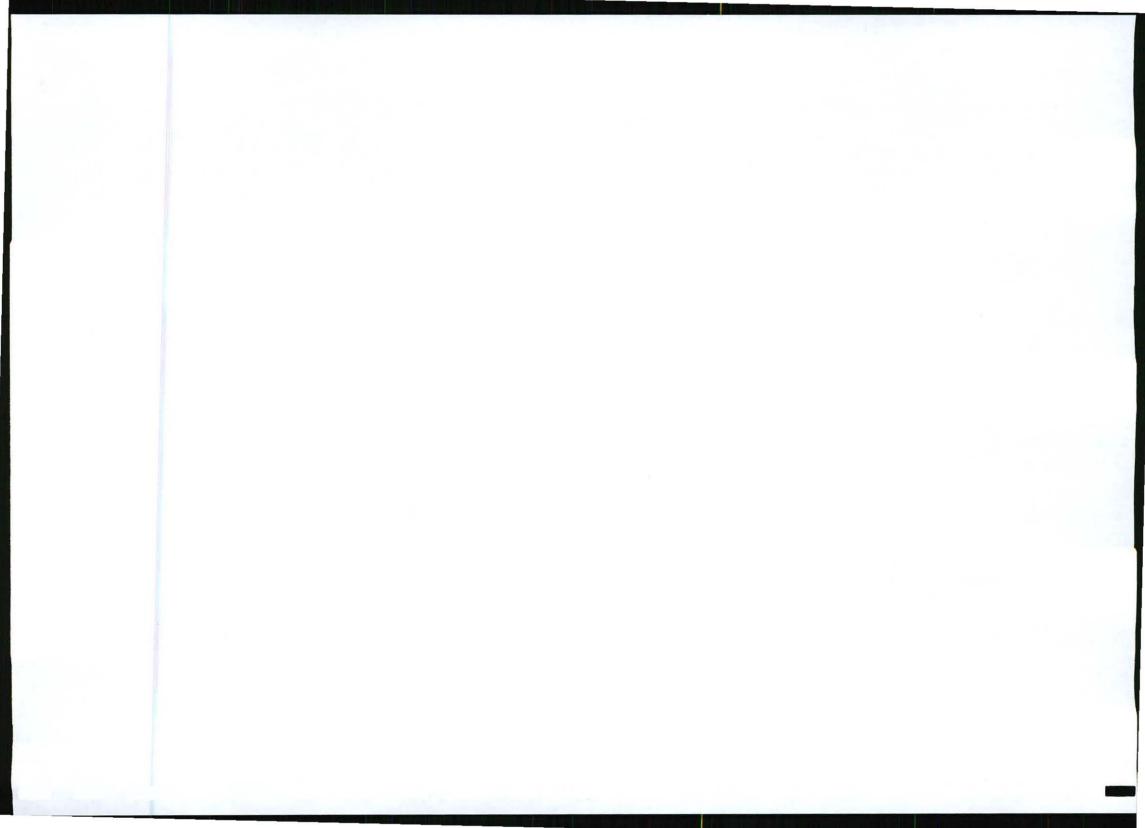
4.7 Air quality

The Delmas region falls within the Highveld Air Quality Priority Area due to the significant number of existing coal-fired power stations and metallurgical industries in the area. With emissions from power stations and significant agricultural activity in the area, ambient air quality can be expected to be poor due mainly to dust, sulphur dioxide and oxides of nitrogen emissions from existing power stations, coal mines and agricultural fields.

4.8 Heritage

A heritage survey done by Cultmatrix in June 2010 indicated that an archaeological site was identified in the area - see Appendix C. It dates to the recent historical past. This





is a small family grave yard consisting of only two graves. The graves are fenced by a metal construction. The two graves are the following:

- Dirk Jakobus Gerhardus Stephanus Botha, 13 August 1890 25 January 1940; and
- Wilhelmina Hart Botha (born Browne), 9 February 1900 27 April 1966

It is possible that there may be some other graves located close to the two identified graves, but these are not inside of the fence and due to the dense vegetation it is difficult to ascertain their locations.

A detailed assessment will be done during the impact assessment.

4.9 Socio-economic Environment

A social baseline was carried out for the proposed power station in 2009 and 2010 by MasterQ - see Appendix C. A short summary is included here.

In 2001, Delmas had a total population of 56,199 people. The population size decreased by some 5,747 people between 2001 and 2007, so that, in 2007, the population size was estimated at around 50,452 people. In 2007 the population density in the area was around 32 persons per km², which is indicative of the mostly rural nature of the area.

Delmas has a fairly young population and in 2007 well over a third of the population (42.0%) were below the age of 15. The economically active population group (defined by StatsSA as the ages between 15 and 65) accounts for just over a half (54.1%) of the total population. It is noteworthy that the biggest decline in population between 2001 and 2007 was in the economically active population (by some 8,562 people), whereas the biggest increase in the population during the same period was in the age category 0-14 (by some 3,247 people).

4.9.1 Education levels

In 2001, a guarter (25.9%) of the population aged 20 years and older had no form of schooling. Coupled with those individuals who only completed some form of primary education (a further 28.3%), this means that, in 2001, more than half (54.2%) of Delmas population had limited educational skills. The situation only improved marginally between 2001 and 2007. Although the number of people who had no form of education decreased drastically to 10.7%, those who completed Grade 12 also decreased to 12.7%, whereas those who only completed some form of primary or secondary education still accounted for more than two thirds of the population (71.8%).

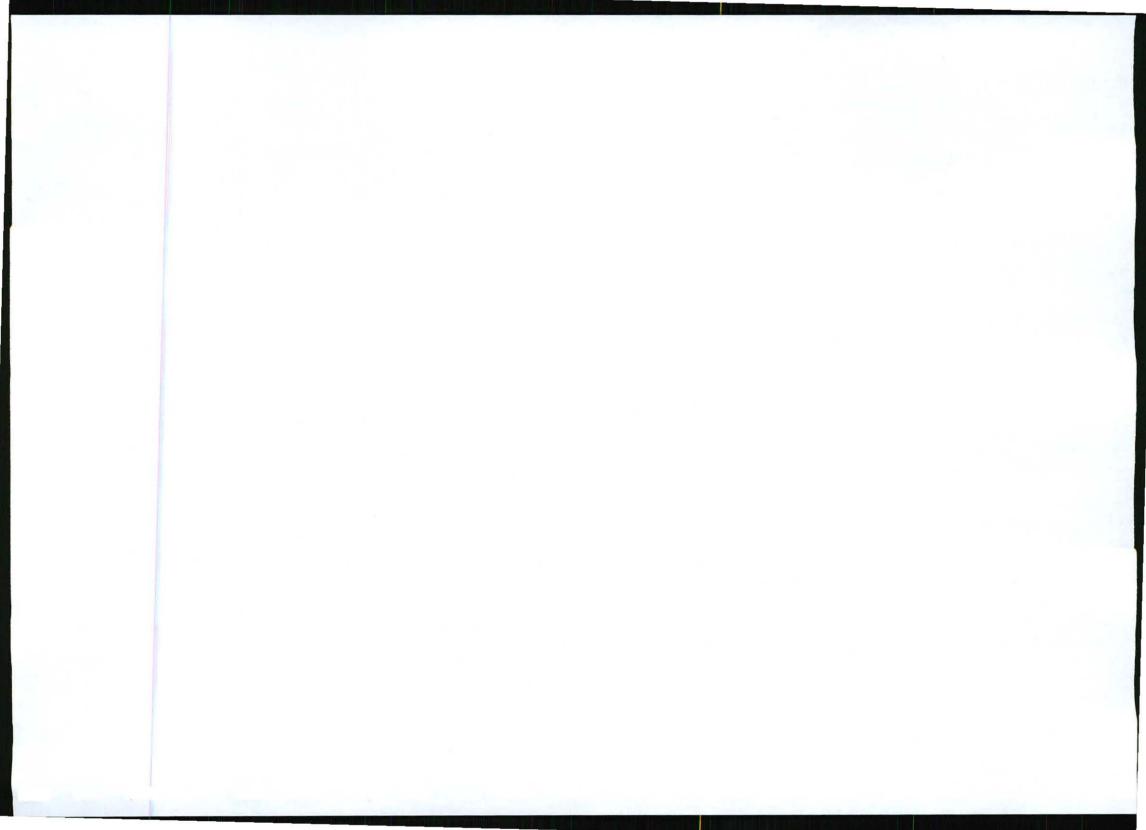
4.9.2 Availability of municipal services in the area

Although the overall number of households in the Delmas area who make use of electricity for lighting has increased between 2001 and 2007, large segments of the population still make use of coal for cooking and heating purposes.

At least three guarters of households within Delmas have their refuse removed once a week, which is much higher than the standard for the district where the majority of households make use of their own (informal) waste disposal sites. At least a quarter of households in Delmas access to water and sanitation services are below RDP standard.

According to the Delmas IDP (2009/10), water in the area is mostly supplied from boreholes. Numerous developments in the area, including residential and industrial





developments, have placed an enormous demand on the water supply, so much so that the demand for water now exceeds the supply (the demand is estimated at 18 Ml/day, while the boreholes are only able to supply 16 Ml/day). Currently the Rand Water supply is used to augment the water supply to Delmas.

Two sewer plants serve the Delmas area, one within Delmas itself with a capacity of 5 $M\ell/day$ and the other in Botleng with a capacity of 4 $M\ell/day$. Both these plants are over capacity, with the Delmas plant receiving up to 8 $M\ell/day$ and the Botleng plant receiving approximately 6 $M\ell/day$.

The Delmas Local Municipal area is serviced by 2 police stations, one in Delmas and one in Sundra. According to statistics supplied by the Crime Information Management Services of the South African Police Service, there was a steady decline in the crime rate of the area (measured against the Delmas and Sundra police stations' number of crimes reported for the years 2004/05, 2006/07 and 2008/09).

According to the Delmas IDP (2009/10), the area is serviced by one hospital, three primary health care clinics and three mobile clinics, of which only one is operational. In addition there are six private general practitioner practices and one private clinic. There are a total of 14 non-governmental organisations operating within the public health sector, but it appears as if most of these NGOs operate within the realm of HIV/AIDS care.

The Delmas Local Municipality has a Disaster Management Department whose responsibility it is to plan, prevent, respond, mitigate and rehabilitate any risks associated with significant events in the area. As part of their planning, the department has a Disaster Management Plan that is reviewed on a biannual basis. Some of the major shortcomings, as identified in the IDP, are a shortage in emergency response vehicles, limited emergency care products, and a shortage of trained and experienced staff.

4.10 Manner in which the environment could affect the project

The local environment has the following constraints which need to be considered in the project development.

4.10.1 Water

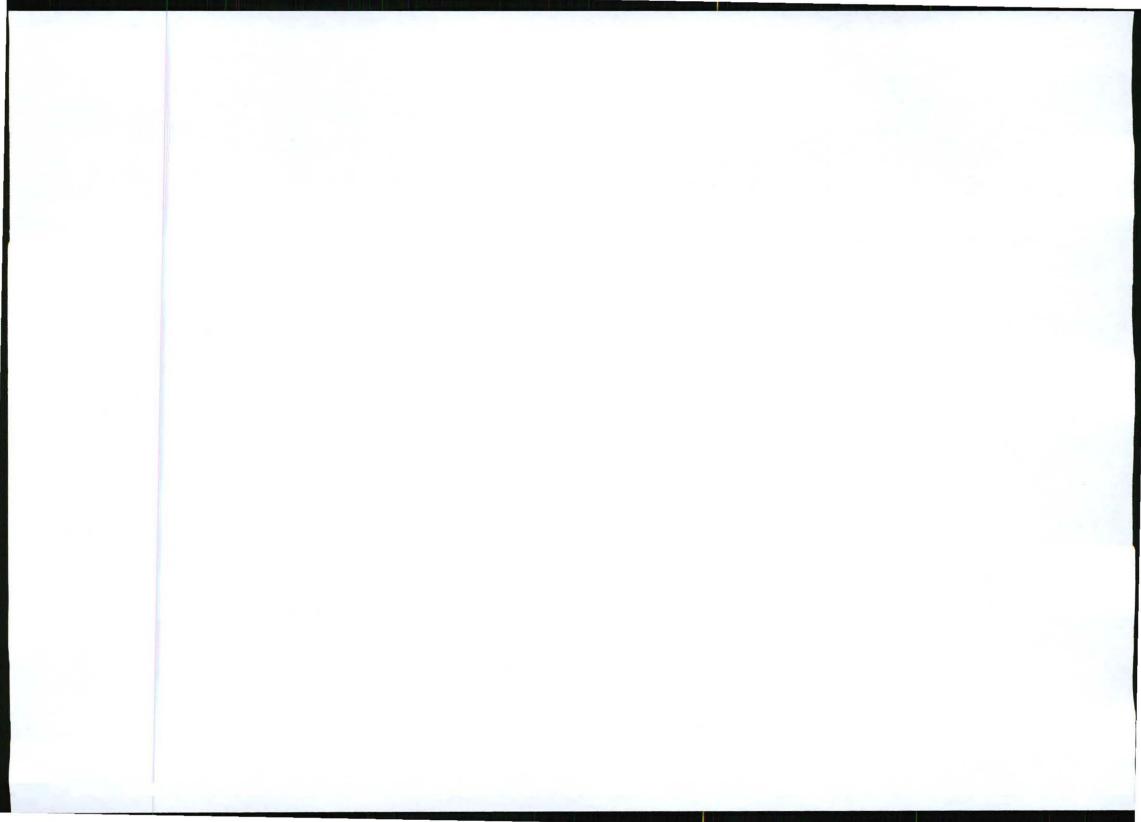
The Wilge and Olifants Rivers are both stressed catchments due to the extent of coal mining and industrial development in the region. The Wilge River sub-catchment, and Olifants River catchment have no assimilative capacity for additional pollutants. In addition, volumes of water in these rivers need to be maintained to meet reserve requirements as well as agricultural and domestic use needs.

The project would therefore need to ensure that:

- Storm water contamination would be minimised by diverting clean water around infrastructure and the ash facility.
- Any dirty storm water would be properly contained and no spillages or leaks occur.
- Any excess dirty water is treated before release.

4.10.2 Air quality

The Highveld region has been declared an air priority area due to the significant number of power stations, mines and industries contributing to sulphur dioxide, particulate and nitrous oxide emissions in the region. In such air priority areas,

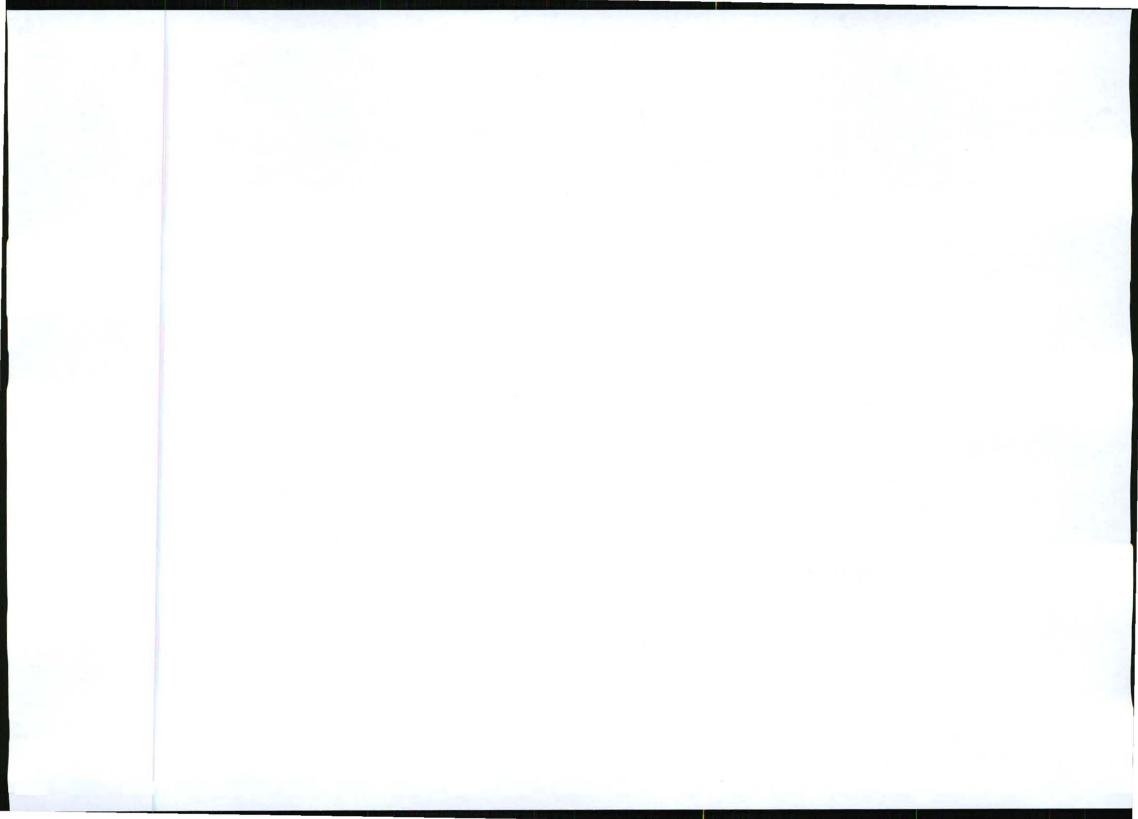


emission standards that are stricter than the current national standard may be enforced in order to alleviate the current ambient pollutant levels. Thus, the power station will need to meet stringent emission standards in its design and operation.

4.10.3 Socio-economic conditions

The Delmas area has a high unemployment level, which poses an opportunity for the project in terms of labour provision. However, skills levels are generally low, and this may result in skilled labour being imported into the area.

Opportunities to maximise local labour use should be investigated prior to construction so that local communities benefit from the project in terms of job creation and skills development.



5. PUBLIC PARTICIPATION DURING THE SCOPING PHASE

5.1 Application and commencement of process

The relevant application forms were completed and submitted in June and July of 2011 to the DEA. The DEA acknowledged receipt of the forms on 13 July 2011 and has issued the following reference numbers to the project:

- DEA Ref No.: 12/12/20/2333; and
- NEAS Ref No.: DEA/EIA/0000364/2011

5.2 Advertisement and site notices

Advertisements were placed in the following newspapers (Appendix D):

Table 5.1:	Advertisements	placed during	the announcement	phase
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NEWSPAPER	DATE
Springs Advertiser	20 July 2011
Streeknuus	20 July 2011
Beeld	21 July 2011

Site notice boards were positioned at prominent localities on 21 July 2011 on all roads in the study area. These notice boards were placed at conspicuous places and at various public places (see Appendix D, which provides a detailed register of where the site notices were placed and photographs).

5.3 Notice to potential IAPs

Notification letters (in both English and Afrikaans) were sent by registered mail on 24 June 2011 to all potentially affected stakeholders living on the alternative sites. The notification letter included a map of the study area, a background information document (BID), farms which are included in the potential alternative sites and a comment sheet. (see Appendix D for proof of notification).

A BID containing details of the proposed project, including a map of the project area, a registration / comment sheet and a letter of invitation to stakeholders to become involved was distributed via mail and email to all interested and potentially affected stakeholders on 20 July 2011. (See Appendix D for the stakeholder database).

A collage of BIDs handed out during this exercise is also attached to Appendix D.

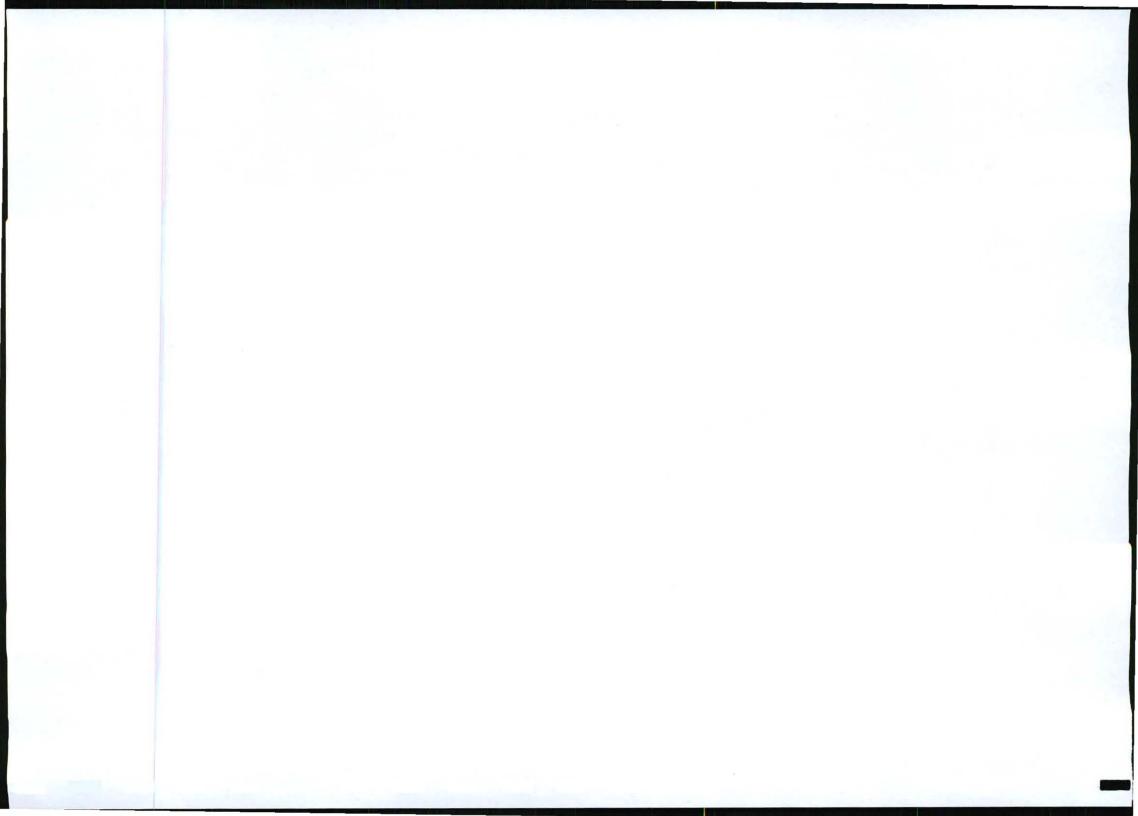
5.4 **Register of IAPs**

All IAPs that responded to the site notice, advertisements and notice are on the register of IAPs provided in Appendix D. The register includes all affected landowners, key authorities, ward councillors and municipal officers.

5.5 Landowner contact

A meeting was held on 11 August 2011 at Delmas Coal with potentially directly affected landowners to discuss the proposed project. All potentially affected landowners with





- Provide some background to the project;
- Explain the regulatory processes to be followed;
- · Present and discuss the site selection process and findings; and
- Discuss the availability of land for the proposed project.

All landowners also indicated they would not have a problem in selling their property should it fall in the selected alternative for this proposed project. (See **Appendix D** for the attendance register of the meeting).

5.6 Issues raised

The issues raised in the announcement phase of the project were captured in an Issues and Responses Report (CRR) Version 1 and appended to this DSR (**Appendix D**). The CRR will be updated to include additional Interested and Affected Parties contributions that may be received as the Scoping Phase process proceeds, and as the findings of the EIA become available.

The following versions of the CRR are compiled (every version is an update of the previous version):

- Version 1 appended to the Draft Scoping Report;
- Version 2 appended to the Final Draft Scoping Report;
- Version 3 appended to the Draft Environmental Impact Assessment Report; and
- Version 4 appended to the Final Environmental Impact Assessment Report.

5.7 Public review of this Draft Scoping Report

5.7.1 Comment period

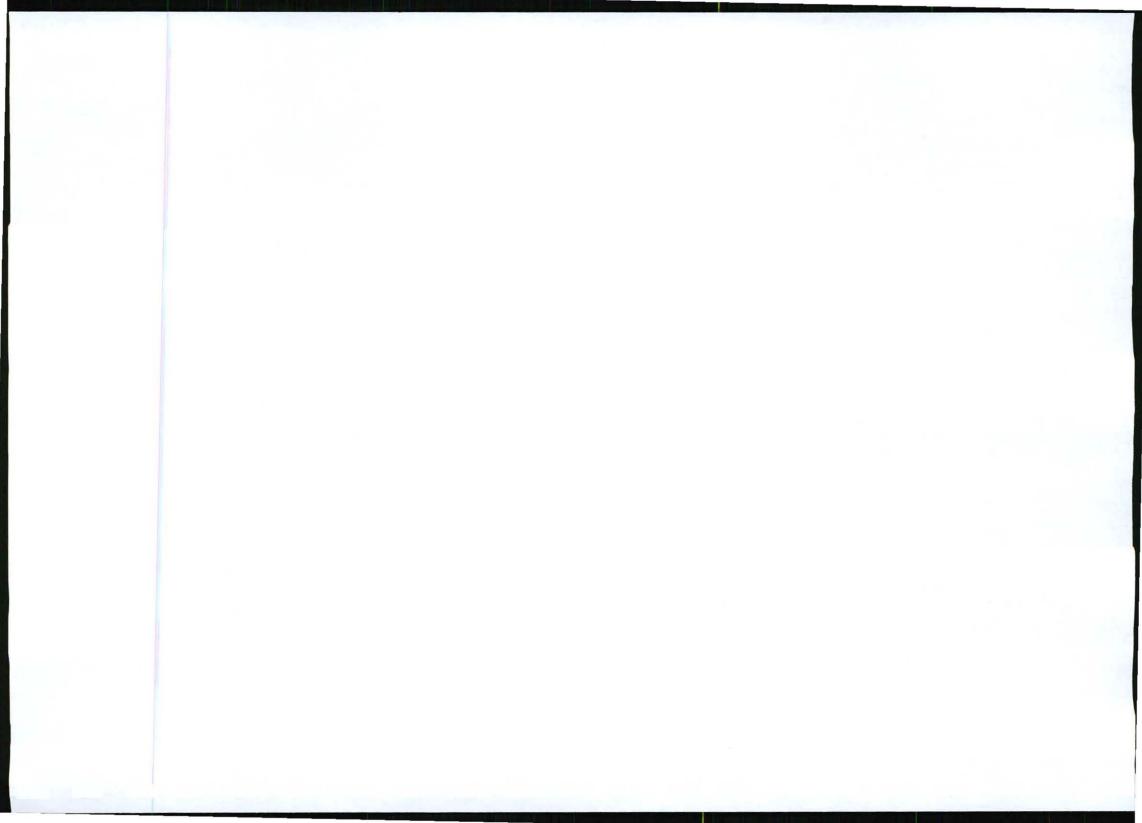
I&APs have an opportunity to comment on this Draft Scoping Report from Thursday, 22 March to Friday, 11 May 2012

5.7.2 Availability of DSR for comment

A letter was emailed, faxed and posted to registered IAPs to announce the availability of this Draft Scoping Report. A copy of the letter is included in **Appendix D**.

In addition, advertisements will be placed in The Springs Advertiser and Streeknuus newspaper to advertise the availability of this DSR for comment in the week of 19 March 2012.

The report is available on the Jones & Wagener and the Zitholele Consulting websites for stakeholders to comment on: www.jaws.co.za and www.zitholele.co.za. In addition, copies of the report are available at the following public places and upon request:



Contact	Location	Contact Tel
Ms Lydia Mehlape	Delmas Public Library, Delmas	Tel: 013 665 2425
Reception	Delmas Coal	Tel: 013 665 7000
Thandiwe Mbongwa	Jones & Wagener, 59 Bevan Road, Rivonia	Tel: 011 519 0200
Mr Andre Joubert	Zitholele Consulting, Thandanani Park, Matuka Close, Halfway Gardens, Midrand	Tel: 011 207 2077

The Draft Scoping Report can also be made available on CD upon request.

5.7.3 IAP and Authorities meetings during public review of DSR

Two meetings will be held to provide IAPs with an opportunity to comment on the DSR and to meet and interact with the EIA team. These meetings are being held as follows:

Meeting details	Authorities meeting	IAP and landowner meeting	
Date	Thursday, 19 April 2012	Thursday, 19 April 2012	
Venue	Conference Centre, Delmas Coal	Conference Centre, Delmas Coal	
Time	14:00 to 15:30	16:00 18:00 (Open House) 18:00 to 19:30 (Public meeting)	

5.8 Final Scoping Report

The Final Scoping Report (FSR) will be submitted to the DEA together will all comments received on this report for a decision on whether or not the EIA team may proceed or not with the impact assessment.

Registered IAPs will receive a letter announcing the availability of the FSR for further public review and comment. The FSR will be made available on the Jones & Wagener and the Zitholele Consulting websites for registered IAPs to review. Any comments received will be responded to and sent on to DEA.