

Title	The construction of facilities for the storage handling of bulk emulsion at iMpunzi Mining Complex.	
Status	BAR	December 2012.
Ref	12/5850	BAR for iMpunzi Emulsion Facility



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Department:
Economic Development, Environment and Tourism
MPUMALANGA PROVINCIAL GOVERNMENT

**Basic assessment report in terms of the
Environmental Impact Assessment Regulations, 2010, promulgated in terms of the
National Environmental Management Act, 1998(Act No. 107 of 1998), as amended.**

	(For applicant / EAP to complete)
File Reference Number:	17/2/3N-176
Project Title:	Erection of bulk emulsion silos at the AEL mining services distribution depot at iMpunzi Mining Complex ,Xstrata Coal, South Africa on Portion 7 of steenkoolspruit18 IS
Name of Responsible Official:	Okwethu-kuhle Fakude

	(For official use only)
NEAS Reference Number:	
Date Received:	

Kindly note that:

1. Required information must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. Tables can be extended as each space is filled with typing.
2. Where applicable **black out** the boxes that are not applicable in the form.
3. An incomplete report may be returned to the applicant for revision.
4. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
5. All reports (draft and final) must be submitted to the Department at the address of the relevant **DISTRICT OFFICE** given below or by delivery thereof to the relevant **DISTRICT OFFICE**. Should the reports not be submitted at the relevant district office, they will not be considered.
6. No faxed or e-mailed reports will be accepted.

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7. One copy of the draft version of this report must be submitted to the relevant district office. The case officer may request more than one copy in certain circumstances.
8. **Copies of the draft report must be submitted to the relevant State Departments / Organs of State for comment.** In order to give effect to Regulation 56(7), proof of submission/delivery of the draft documents to the State Departments / Organs of State must be attached to the draft version of this report.
9. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
10. All specialist reports must be appended to this document, and all specialists must complete a declaration of independence, which is obtainable from the Department.

HEAD OFFICE (18 Jones Street, Nelspruit)	EHLANZENI DISTRICT (50 Murray Street, Nelspruit)	NKANGALA DISTRICT (Pavilion Centre, Cnr Botha & Northey Streets, Witbank)	GERT SIBANDE DISTRICT (13 De Jager Street, Ermelo)
Attention: Directorate: Environmental Impact Management Private Bag X 11215 Nelspruit, 1200 Tel: (013) 759 4000 Fax (013) 759 4165	Attention: Directorate: Environmental Impact Management Private Bag X 11215 Nelspruit, 1200 Tel: Fax:	Attention: Directorate: Environmental Impact Management P. O. Box 7255 Witbank, 1035 Tel: Fax:	Attention: Directorate: Environmental Impact Management P. O. Box 2777 Ermelo, 2351 Tel: Fax:

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SECTION A: BACKGROUND INFORMATION

Project applicant:	AEL Mining Services Limited		
Trading name (if any):	N/A		
Contact person:	Ellen Van Dongen		
Physical address:	1 Platinum Drive, Longmeadow Business Estates North		
Postal address:	P.O. Modderfontein, Modderfontein		
Postal code:	1645	Cell:	082 813 9611
Telephone:	011 606 0843	Fax:	011 605 0843
E-mail:	Ellen.vandongen@aelms.co.za		

Environmental Assessment Practitioner:	Willchem cc Risk and Environmental Consulting		
Contact person:	Chris Williams		
Postal address:	P. O. Box 783, Jukskei Park		
Postal code:	2153	Cell:	082 453 3491
Telephone:	011 462 6052	Fax:	011 704 4593
E-mail:	Chris@willchem.co.za		
Qualifications:	BSc (Witwatersrand), B. Com (Hons) Unisa		
Professional affiliations (if any):	Member IAIA, SAIMM		

SECTION B: DETAILED DESCRIPTION OF THE PROPOSED ACTIVITY

Describe the activity, which is being applied for, in detail. The description must include the size of the proposed activity (or in the case of linear activities, the length) and the size of the area that will be transformed by the activity.

The erection of bulk emulsion silos at the AEL Mining services distribution depot at iMpunzi Mine, Xstrata Coal South Africa on Steenkoolspruit 18 IS Portion 7 including infrastructure. The erection of a 140 Ton Emulsion storage facility on a site measuring 100 meters x 50 meters, with office and ablution facilities. The storage area will comprise 2 x 70 ton bulk emulsion silos complete with bunds and an effluent containment area. There will be a gassing mixing unit which will include a solution mixing tank, Sodium Nitrite storage and pumping facility.

On site will be 2 x 70 ton conical bottom discharge Emulsion silos, one Gassing mixing (Sodium Nitrite) tank and a storage container (6m x 2.5m) located in a bunded area with a collection sump. The mixing tank inside the container will be approximately 400 litres. One

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office (4m x2.5m) facility connected to septic tank. One gatehouse (3m x 3m). One effluent collection pit that will be maintained and serviced by the iMpunzi mine principal.

SECTION C: PROPERTY/SITE DESCRIPTION

Provide a full description of the preferred site alternative (farm name and number, portion number, registration division, erf number etc.):

Preferred site alternative

The proposed activity will be located on Steenkoolspruit 18 IS Portion 7 which is part of the iMpunzi Mining Complex, Xstrata Coal South Africa. The location of this site is shown in the map appendix A.1 and the photos showing the general environment of the site are shown in appendix B.1 also the appendix B.2.1 showing the layout plan for the proposed and ancillary facility.

Indicate the position of the activity using the latitude and longitude of the centre point of the preferred site alternative. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection. The position of alternative sites must be indicated in Section B of this document.

Latitude (S):		Longitude (E):	
26°	5.010'S	29°	13.750'E

In the case of linear activities:

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

Latitude (S):		Longitude (E):	
	N/A		N/A
	N/A		N/A
	N/A		N/A

SITE OR ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as an appendix to this document.

The site or route plans must be at least A3 and must include the following:

- 6.1 A reference no / layout plan no., date, and a legend / land use table
- 6.2 The scale of the plan which must be at least a scale of 1:2000;
- 6.3 The current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 6.4 The exact position of each element of the application as well as any other structures on the site;
- 6.5 The position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;

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- 6.6 all indigenous trees taller than 1.8 metres and all vegetation of conservation concern (protected, endemic and/or red data species);
- 6.8 servitudes indicating the purpose of the servitude;
- 6.9 sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
 - watercourses and wetlands;
 - the 1:100 year flood line;
 - ridges;
 - cultural and historical features;
- 6.9 10 metre contour intervals

SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached as an appendix to this form.

See Appendix B.1

FACILITY ILLUSTRATION

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

See Appendix B.2.1

SECTION D: BASIC ASSESSMENT REPORT

Prepare a basic assessment report that complies with Regulation 22 of the Environmental Impact Assessment Regulations, 2010. The basic assessment report must be attached to this form and must contain all the information that is necessary for the competent authority to consider the application and to reach a decision contemplated in Regulation 25, and must include:

See attached Basic Assessment Report page 9

(Checklist
for official
use only)

1. A description of the environment that may be affected by the proposed activity and the manner in which the geographical, physical, biological, social, economic and cultural aspects of the environment may be affected by the proposed activity.	
2. An identification of all legislation and guidelines that have been considered in the preparation of the basic assessment report.	
3. Details of the public participation process conducted in terms of Regulation 21(2)(a) in connection with the application, including – (i) the steps that were taken to notify potentially interested and affected parties of the proposed application;	

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(ii)	proof that notice boards, advertisements and notices notifying potentially interested and affected parties of the proposed application have been displayed, placed or given;	
(iii)	a list of all persons, organisations and organs of state that were registered in terms of regulation 55 as interested and affected parties in relation to the application; and	
(iv)	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;	
4.	A description of the need and desirability of the proposed activity;	
5.	A description of any identified alternatives to the proposed activity that are feasible and reasonable, including the advantages and disadvantages that the proposed activity or alternatives will have on the environment and on the community that may be affected by the activity;	
6.	A description and assessment of the significance of any environmental impacts, including— (i) cumulative impacts, that may occur as a result of the undertaking of the activity or identified alternatives or as a result of any construction, erection or decommissioning associated with the undertaking of the activity; (ii) the nature of the impact; (iii) the extent and duration of the impact; (iv) the probability of the impact occurring; (v) the degree to which the impact can be reversed; (vi) the degree to which the impact may cause irreplaceable loss of resources; and (vii) the degree to which the impact can be mitigated;	
7.	Any environmental management and mitigation measures proposed by the EAP;	
8.	Any inputs and recommendations made by specialists to the extent that may be necessary;	
9.	A draft environmental management programme containing the aspects contemplated in regulation 33;	
10.	A description of any assumptions, uncertainties and gaps in knowledge;	
11.	A reasoned opinion as to whether the activity should or should not be authorised, and if the opinion is that it should be authorised, any conditions that should be made in respect of that authorisation	
12.	Any representations, and comments received in connection with the application or the basic assessment report;	
13.	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;	
14.	Any responses by the EAP to those representations, comments and views;	
15.	Any specific information required by the competent authority; and	
16.	Any other matters required in terms of sections 24(4)(a) and (b) of the Act.	

The basic assessment report must take into account –

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- (a) Any relevant guidelines; and
(b) Any departmental policies, environmental management instruments and other decision making instruments that have been developed or adopted by the competent authority in respect of the kind of activity which is the subject of the application.

* In terms of Regulation 22(4), the EAP managing the application must provide the competent authority with detailed, written proof of an investigation as required by section 24(4)(b)(i) of the Act and motivation if no reasonable or feasible alternatives, as contemplated in subregulation 22(2)(h), exist.

Have reasonable and feasible alternatives been identified, described and assessed?	YES	
If NO, the motivation and investigation required in terms of Regulation 22(4) must be attached as an Appendix to this document		

SECTION E: CONSULTATION WITH OTHER STATE DEPARTMENTS

Provide a list of all State Departments / Organs of State that have been consulted and registered as interested and affected parties, and to whom draft reports have been submitted for comment. **Proof of submission / delivery of the draft report to all State Department / Organs of State must be attached to this document.**

Department:	Department of Water Affairs		
Contact person:	Mr Starnford Macevele		
Postal address:	P/Bag X10580 Bronkhorstspuit		
Postal code:	1020	Cell:	078 460 3439
Telephone:	013 932 2061	Fax:	
E-mail:	maceveles@dwa.gov.za		

Department:	Department of Mineral & Energy		
Contact person:	Ms Sonia Chipu		
Postal address:			
Postal code:		Cell:	
Telephone:	013 656 1448	Fax:	013 656 0932
E-mail:	Sonia.chipu@dmr.gov.za		

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Department:	Department of Land Affairs and Administration		
Contact person:	Mr Tshepo Shabangu		
Postal address:	P/Bag X7255 Witbank		
Postal code:	1035	Cell:	
Telephone:	013 690 1279	Fax:	
E-mail:	tmthemba@wit.mpu.gov.za		

Department:	Emalehleri Municipality		
Contact person:	Mr Makwakwa		
Postal address:	P O Box Witbank		
Postal code:	1035	Cell:	
Telephone:	013 690 6208	Fax:	
E-mail:	Makwakwa@emalehleri.gov.za		

Department:	Mpumalanga Parks Board		
Contact person:	Mr Andre Hoffman		
Postal address:	P O Box 1250 Groblersdal		
Postal code:	470	Cell:	082 412 5756
Telephone:	013 262 4844	Fax:	013 262 4844
E-mail:	andre.hoffman@vodamail.co.za		

Department:	Department of Agriculture and Land Administration		
Contact person:	Mr Peter Molapo		
Postal address:	Private Bag x 4017, Kwamhlanga,		
Postal code:	1022	Cell:	0846152442
Telephone:	0136533808	Fax:	0136533849
E-mail:	Peter.molapo@labour.gov.za		

SECTION F: APPENDICES

The following appendices must be attached to the basic assessment report as appropriate:

Site plan(s)

Photographs See appendix B.2

Facility illustration(s) See appendix B.2.1

Specialist reports

Comments and responses report See section D3

Other information