Appendix 1: Authority Correspondence



13/09/2012

Department of Minerals and Resources (DMR) Private Bag A1 Klerksdorp 2570.

To Phumudzo Nethwadzi

# Authority Notification: Environmental Authorisation Processes for the proposed Re-processing of Anglo American Platinum's Waterval Tailings Storage Facilities located in Rustenburg, North West Province

#### 1. Notification

Anglo American Platinum Limited: Rustenburg Platinum Mines Limited (RPM) proposes the reprocessing of Waterval Tailings Storage Facilities (TSF's) located within the mine lease area of RPM in Rustenburg. WSP Environment and Energy (WSP) have been appointed to conduct the environmental authorisation processes required for the proposed development.

According to the Mineral and Petroleum Resources Development Act (No. 20 of 2002) (MPRDA), RPM are required to undergo an environmental management programme (EMPR) amendment process. Thus, notification of an Environmental Impact Assessment (EIA) and an Environmental Management Programme Amendment process is hereby given.

#### 2. Project Background

The Waterval TSFs (East and West dams) were previously used to deposit tailings material from mineral processing operations. Following tests conducted on the Waterval tailings, latent reserves have been identified that warrant the re-processing of the tailings material. The re-processing of the Waterval TSFs, including associated infrastructure, was authorised by the Department of Minerals and Energy (now the Department of Mineral Resources – DMR) as part of an amendment to the existing EMPR in 2002. Although authorised, the re-processing of the Waterval tailings has not yet commenced and recent changes to proposed infrastructure and the layout of the project require the 2002 EMPR to be amended. Additionally, some of the changes involve activities for which environmental authorisation from the North West Provincial Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be required. For further detail please refer to the *Background Information Document* contained within the presentation package (Including detailed GIS maps).

#### 3. Proposed Activities and Authorisation processes required

According to the MPRDA, RPM are required to undergo an EMPR Amendment Process as portions of the proposed project fall within the RPM mine lease area.

In addition, the undertaking of certain listed activities requires environmental authorisation in accordance with the National Environmental Management Act No. 107 of 1998, as amended (NEMA), Government Notice Regulation (GN. R) 544 and 545.

The activities listed in GN. R 544 associated with the proposed project include:

- Activity 9;
- Activity 10;
- Activity 11 (iii);
- Activity 18 (i);
- Activity 22;
- Activity 23; and
- Activity 47.

WSP Environmental (Pty) Ltd WSP House

Bryarston Place Bryarston Place 199 Bryanston Drive Bryarston, 2021 Tel: +27 (0)11 361 1380 Fax: +27 (0)11 361 1381 http://www.wspenvironmental.co.za Reg. No: 1995/08790/07

WSP Group plc Offices worldwide



The activity listed in GN. R 545 associated with the proposed project is:

Activity 6 (ii): The construction of facilities or infrastructure for the bulk transportation of dangerous goods – in liquid form, outside an industrial complex, using pipelines, exceeding 1000 metres in length, with a throughput capacity of more than 50 cubic metres per day.

Application for environmental authorisation for activities listed in GN. R 545 requires that a Scoping and EIA process be undertaken, as such, an application in this regard was submitted to NWDEDECT on 21 Sept 2012.

Furthermore, the proposed pipeline route will cross a watercourse, and a proposed pollution control dam and an emergency slurry catchment dam will be constructed. The following water use activities listed under Chapter 4, Section 21 of the National Water Act (No. 38 of 1998) (NWA) may be relevant and may require authorisation in the form of a general authorisation or new/amended Water Use License:

- 21 (c): impeding or diverting the flow of water in a watercourse,
- 21 (i): altering the bed, banks, course or characteristics of a watercourse, and
- 21 (g): disposing of waste in a manner which may detrimentally impact on a water resource.

#### 4. Public Participation Process

WSP are to undertake a transparent and comprehensive public participation process in accordance with GN. R 543 of NEMA, Section 10 of the MPRDA and section 3 of the GN. R 26275 (MPRDA). WSP will ensure that all Interested & Affected parties are given sufficient opportunity to voice comments, concerns and/or queries relating to the project. WSP will ensure that the DMR is informed of any and all outcomes of the process. Please do not hesitate to contact the undersigned should you have any queries.

Regards,

Dance

Jared O'Brien Consultant Tel: 011 361 1396 Fax: 086 505 3939 Email: Jared.OBrien@wspgroup.co.za

### **MEETING NOTES**



Project Title							
Date	13/09/2012						
Time	14:00-15:00						
Venue	Vaal University of Technology Building, c/o Voortrekker & Margaretha Prinsloo Streets, Klerksdorp, 2570.						
Subject	DMR Notification Meeting						
Present	Catherine Greengrass (CG); Alex Kinmont (AK); Nishi Haripursad (NH) and Phumudzo Nethwadzi (PN)						
Apologies	N/A						
Attachments	Appendix A – Meeting Presentation Appendix B – Attendance Register						

WSP Environment & Energy South Africa WSP House Bryanston Place 199 Bryanston Drive Bryanston 2191 Tel: +27 11 361 1384 Fax: +27 86 556 9717 www.wspenvironmental.co.za

MATTERS ARISING	ACTION						
Welcome and Team Introductions							
CG introduced the attendees and thanked all for attending the meeting							
Topics Discussed							
1. <u>General Matters</u> CG indicated that WSP has submitted an environmental authorisation application form to the NW DEDECT in terms of NEMA due to certain activities falling outside of the mine lease area. CG explained that the purpose of the current meeting is to inform the DMR of the environmental authorisation process to be undertaken. CG indicated that she will submit the scoping report to the DMR once complete for the Departments subsequent review.	N/A						
<ol> <li><u>Project location</u></li> <li>NH indicated by the use of an A2 project layout locality map where each of the major components of the project lie.</li> </ol>	N/A						

MATTERS ARISING	ACTION					
3. <u>Presentation</u> CG ran through the presentation as indicated in <i>Appendix A</i> . The following points were discussed in additional detail and have therefore been indicated below.						
NH added to the project description by indicating that Klipfontein is to come to the end of its life in the near future. As such, Anglo intend to re-process the tailings material from the Waterval Tailings Storage Facilities (TSF). The tailings material will be pumped via a pipeline (AK described the route which will be followed by the pipeline) to the Western Limb Tailings Retreatment Facility. PN questioned the final destination of the tailings which will result from the process. NH and CG explained that the tailings will be transferred via an existing pipeline to the Hoedspruit TSF, which has the capacity to store all the tailings material resulting from the process. AK further described that the height of the Hoedspruit TSF will need to be increased to accommodate the Waterval tailings material. PN queried the need to upgrade the Hoedspruit TSF in terms of the structure of the facility. CG responded indicating that the project team is investigating the structural upgrade requirements.	N/A					
CG indicated that a pollution control dam (PCD) will be constructed for the project. CG indicated (within the presentation) that a WUL amendment may be required for the project however, the WUL will include the said river crossings and not the PCD due to the volume being under the legislated capacity.	N/A					
CG described the proposed public participation process which WSP intent to undertake. PM responded by emphasising the need to be very comprehensive in the process to ensure that all stakeholders are included to avoid public issues at a later stage in the project. PN added that WSP should address all the potential anticipated social and environmental impacts which may arise as a result of the project.	WSP					
<ul> <li>4. <u>Additional points raised by PN</u></li> <li>PN stated that WSP need to ensure that continuous correspondence is maintained with the Department to avoid unnecessary delays of the process.</li> </ul>	WSP					
PN put emphasis on the quality of information provided in environmental reporting. He explained the need to ensure that all the information provided is relevant to the project, concise and auditable.	WSP					
5. <u>Current unrest in the mining industry</u> CG raised the current unrest in the mining industry as a point of concern. CG asked for advice for PN on the approach WSP is to undertake in terms of public participation. PN responded indicating that the current situation on the ground will settle down over time. PN indicated that he does not believe the unrest will impact on the public participation process as the majority of people who will be engaged will be members of the general public and not necessarily members of Anglo or any other mining organisation. PN went on to say that public unrest cannot be ruled out during the process and the team must ensure that appropriate risk assessments are conducted prior to going to site.						
Close Meeting						
CG indicated the meeting closed						
Distribution: All Present						
Appendices Appendix A – Meeting Presentation						

Appendix A – Meeting Presentation Appendix B – Attendance Register

WSP Environment & Energy South Africa Registered office: WSP House, Bryanston Place, 199 Bryanston Drive, Bryanston, 2191, South Africa Registered number 1995/008790/07 www.wspenvironmental.co.za

					-	Puletenado	Ì	Orrien	Jared		入いろのつて	Alex	and the second	Heinlawsad	Nishi	Name
					DINK	<del>)</del> 		ht			127	Ó		C	Analo Heut	Company
					DU, MEMFax:	+ -/ -	Core Sulfre	Harrist	1. 1 /	- Canal	1000	Pariet		CMIT	Cal. D.	Designation
Tel:	Email:	Fax	Tel:	Ξ	6	Tel: Phymers 9830	mail:	, xer	Tel:	Email: attacksate tup. Sa	Fax	Tel: 082 806 0577	Email: Mishi han pirsad canglacimencan dur	Fax:	Tel: 0145982169/0834638919	Contact details (Tel/Fax/Email)
				(	P			PA		, J	X		cour (Jus	14	V bib	Signature

ATTENDANCE REGISTER

# DMR NOTIFICATION MEETING

**DMR NOTIFICATION MEETING/13 SEPTEMBER 2012** 

# 13 SEPTEMBER 2012

THE PROPOSED RE-PROCESSING OF THE WATERVAL TAILINGS STORAGE FACILITIES AT RPM

# ATTENDANCE REGISTER

----

Your ref: Re-mining of Waterval Tailings Storage Facilities (TSFs) Rustenburg, North West Province Our ref: 28006



20 August 2012

Attention: Mr. NS Mukhola (Office E10)

Department of Agriculture, Conservation, Environment and Rural Development Agricentre Building Cnr. Dr. James Moroka & Stadium Road Mmabatho 2735

Dear Mr Mukhola

Application Form: Environmental authorisation process proposed Re-mining of Waterval Tailings Storage Facilities (TSFs) Rustenburg, North West Province.

Please find attached herewith five copies (one original and four photocopies) of the required application form submitted on behalf of the proponent, Anglo American Platinum: Rustenburg Platinum Mines Limited, for the proposed Re-mining of Waterval Tailings Storage Facilities (TSFs) Rustenburg, North West Province.

Should you have any queries, please do not hesitate to contact the undersigned

Yours faithfully

Catherine Greengrass Senior Consultant Tel: 011 361 1395 Email: catherine.greengrass@wspgroup.co.za

WSP Environmental (Pty) Ltd WSP House Bryanston Place 199 Bryanshan Dires Bryanshan, 2021 Tel: +27 (0)(11361 1360 Fax: +27 (0)(11361 1361 http://www.eperariammental100.25 Reg. No: 1995/08790/07

WSP Group pla Offices workhvide the **DEDECT** 



Department: Economic Development, Environment, Conservation and Tourism North West Provincial Government Republic of South Africa

Agricentre Building Cnr. Dr. James Moroka & Stadium Road Private Bag X2039, Mmabatho. 2735

#### DIRECTORATE: ENVIRONMENTAL QUALITY & PROTECTION

Tel: (018) 389 5959/ 5156 Fax: (018) 389 5006 Smukhola@nwpg.gov.za

#### APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

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

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

#### PROJECT TITLE

The re-mining of the Anglo American Platinum, Waterval Tailings Storage Facilities (TSFs) located in Rustenburg, North West Province (refer to Locality Maps – Appendix 1)

#### Kindly note that:

- This application form is current as of 2 August 2010. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
- The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
- 3. Where applicable black out the boxes that are not applicable in the form.
- 4. Incomplete applications may be returned to the applicant for revision.
- The use of the phrase "not applicab'e" in the form must be done with circumspection. Should it be done in respect of material information required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the Regulations.
- This application must be handed in at the offices of the relevant competent authority as determined by the Act and regulations.
- 7. No faxed or e-mailed applications will be accepted.
- Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.

Queries must be addressed to the contact hereunder:

#### Departmental Details/Provincial Authority

Postal address: Department of Agriculture, Conservation, Environment and Rural Development Attention: Director: Environmental Quality and Protection Private Bag X2039 Mmabalho 2735

Physical address: Department of Agriculture, Conservation, Environment and Rural Development Agricentre Building Cnr. Dr. James Moroka & Stadium Road Mmabatho 2735

Queries should be directed to the Directorate: Environmental Quality and Protection at:

Tel: 018-389 5959/5156 Fax: 018-389 5006

Applications to be couried for attention Mr. NS Mukhola Office E10

#### SITE IDENTIFICATION AND LINKAGE

Please indicate all the Surveyor-general 21 digit site (erl/farm/portion) reference numbers for all sites (including portions of sites) that are part of the application.

T	0	J	Q	0	0	0	0	0	0	0	0	0	2	9	8	0	0	0	0	0
T	0	J	Q	0	0	0	0	0	0	0	0	0	2	9	8	0	0	0	1	9
т	0	J	Q	0	0	0	0	0	0	0	a	0	2	9	8	0	0	0	0	5
T	0	J	Q	0	0	0	0	0	0	0	0	0	2	9	9	0	0	0	2	3
T	0	J	Q	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	2
Т	0	J	Q	0	0	0	0	0	0	0	C	0	3	0	2	0	0	0	0	0
T	0	J	Q	0	0	0	0	0	0	0	C	0	3	0	3	0	0	0	1	5
T	0	J	٩	0	0	0	0	0	0	0	C	0	3	0	3	0	0	0	4	6
T	0	J	Q	0	0	0	0	0	0	0	C	0	3	0	3	0	0	0	0	9
T	0	J	Q	0	0	0	0	0	0	0	C	0	3	0	3	0	0	0	4	7
т	0	J	Q	0	0	0	0	0	0	0	C	0	3	0	3	0	0	0	1	3

Т	0	J	Q	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	1	0
T	0	J	Q	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0
Т	0	J	Q	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	1	9

(if there are more that 6, please attach a list with the rest of the numbers)

(These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site)

#### PROJECT TITLE

The re-mining of the Anglo American Platinum, Waterval TSFs located in Rustenburg, North West Province.

#### 1. BACKGROUND INFORMATION

Project applicant:	Anglo American Platinum: Rustenburg	Platinum Mi	nes Limited						
Trading name (if any):	Anglo Platinum Management Services								
Contact person:	Danie Vermaak								
Physical address:	WLTR Plant,								
	Rustenburg,								
	South Africa.								
	25° 41' 15.55" S 27° 23' 49.62" E								
Postal address:	P.O. Box 8202,								
	Rustenburg.								
Postal code:	0300	Cell:	+27 83 4550967						
Telephone:	+27 14 598 3422	Fax:	+						
E-mail:	danie.vermaak@angloamerican.com		·						
Landowner:	Refer to Appendix 2 for property and la	andowner inf	ormation						
Contact person:									
Postal address:									
Postal code:									
Telephone:									
E-mail:									
	In instances where there is more landowners with their contact details to		요즘 것은 것을 가지 않는 것을 하는 것이 같아요. 이 것을 많은 것이 있는 것을 알았다. 이 것을 많은 것을 다 가지 않는 것을 것을 하는 것을 것을 했다. 것을 것을 하는 것을 것을 하는 것을 것을 하는 것을 것을 했다. 것을 것을 하는 것을 것을 하는 것을 것을 하는 것을 것을 하는 것을 것을 수 있다. 것을 것을 하는 것을 것을 수 있다. 것을 것을 하는 것을 것을 하는 것을 것을 수 있다. 것을 것을 것을 것을 것을 수 있다. 것을						
Local authority in whose	Rustenburg Local Municipality	9.1							
jurisdiction the proposed									
activity will fall:									
Nearest town or districts:	Rustenburg Rural								
Contact person:	Kelebogile Mekgoe								
Postal address:	( <b>*</b> )								
Postal code:	31275	Cell:	-						
Telephone:	014 590 3185	Fax:	014 590 3070						
E-mail:	kmekgoe@rustenburg.gov.za								
	In instances where there is more than	one local au	thority involved, please attach a list						
	of local authorities with their contact d	etails to this a	application.						
	N/A								

#### 2. ACTIVITIES APPLIED FOR TO BE AUTHORISED

#### Brief project Description

Anglo American Platinum: Rustenburg Platinum Mines (RPM) is situated in Rustenburg, in the North West Province. The Waterval TSFs (West and East TSFs), which are positioned in the RPM lease area, are located 4 km's east of the town of Rustenburg, 1.5 km's west of Bokamoso, 3.5 km's North of Waterkloof and 3.5 km's South of Boitekong. The Waterval TSFs were previously used to discard tailings material resulting from mineral processing operations. Following tests conducted on the TSFs, latent reserves have been identified that warrant the remining of the tailings dams. The re-mining of the Waterval TSFs was authorised in 2002 however, there have been changes to proposed infrastructure and the layout of the project, which require an amendment to the EMPR (2002) and environmental authorisation. In addition to this, the NEMA listed activities came into effect after 2002 and will therefore require authorisation before commencement. NEMA activities have been indicated in the table below.

The re-mining process involves the use of hydraulic hoses, which sluice the mining face. The resulting slurry collects in a sump via a system of drains or launders. The slurry will then be pumped (via a proposed pump station and pre-treatment plant) through a proposed pipeline to the Western Limb Tailing Retreatment (WLTR) Plant at which point the minerals contained in the tailings material will be extracted from the slurry. The WLTR Plant was initially constructed to retreat tailings material from the Klipfontein TFS, which are located 6km's south east of the Waterval TFSs. The re-mining of the Klipfontein TSF is expected to reach completion in 2015, at which point the re-mining of the Waterval TSFs will need to be initiated.

The process, design and layout changes to the re-mining of the Waterval TSFs project include: the addition of 4 new IsaMillsTM within Mainstream Inert Grinding (MIG) applications in the WLTR Plant facility; an alteration to the location of the proposed pump station with the inclusion of a pre-treatment plant; the construction of one booster pump station along the pipeline, an amendment to the proposed pipeline route and the construction of a pollution control dam (PCD) and other associated infrastructure. An amendment to the height of the Hoedspruit TSF is also proposed. A detailed project description will be included in the Scoping Report.

WSP Environmental and Energy (WSP) has been appointed as the independent environmental assessment practitioner (EAP) to facilitate the stakeholder engagement process and undertake the required environmental authorisation process. For an application for authorisation that involves more than one listed or specified activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated.

Indicate the number and date of the relevant notice:	Activity No (s) (in terms of the relevant notice) :	Describe each listed activity as per project description <sup>1</sup> :
GNR 544, 18 June 2010	9 (i) (ii)	The construction of facilities or infrastructure exceeding 1000 metres in length for the bulk transportation of water, sewerage or storm water- (i) With an internal diameter of 0.36 metres or more; or (ii) With a peak throughput of 120 litres per second or more,
		<ul> <li>Excluding where:</li> <li>a. Such facilities or infrastructure are for bulk transportation of water, sewerage or storm water or storm water drainage inside a road reserve; or</li> <li>b. Where such construction will occur within urban areas but further than 32 metres from a watercourse, measured from the edge of the watercourse.</li> </ul>
GNR 544, 18 June 2010	10	The proposed development entails the construction of a slurry pipeline and a return water pipeline betweer the Waterval tailings and the Western Limb Tailings Retreatment Plant (WLTR). The construction of facilities or infrastructure for the transmission and distribution of electricity (i) outside urban areas or industrial complexes with a capacity of more than 33 kV but less than 275 kV; or (ii) inside urban areas or industrial complexes with a capacity of 275 kV or more.
		Power lines may need to be relocated/extended in order to bring power to a proposed pre-treatment facility.
GNR 544, 18 June 2010	11 (iii)	The construction of bridges where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.
		The proposed slurry pipeline will cross watercourses at three different points on route to the WLTR plant.
GNR 544, 18 June 2010	18 (i)	The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock or more than 5 cubic metres from watercourse.

<sup>&</sup>lt;sup>1</sup> Please note that this description should not be a verbatim repetition of the listed activity as contained in the relevant Government Notice, but should be a brief description of activities to be undertaken as per the project description

		The proposed pipeline may cross a watercourse. This will be investigated in the EIA process.
GNR 544, 18 June 2010	22	The construction of a road, outside urban areas, I. With a road reserve wider than 13.5 metres or, II. Where no reserve exists where the road is wider than 8 metres.
		Access roads may be required. This will be determined in the EIA.
GNR 544, 18 June 2010	23	<ul> <li>The transformation of undeveloped, vacant or derelict land to-</li> <li>(i) Residential, retail, commercial, recreational, industrial or institutional use, inside an urban area, and where the total area to be transformed is 5 hectares or more, but less than 20 hectares, or</li> <li>(ii) Residential, retail, commercial, recreational, industrial or institutional use, outside an urban area, and where the total area to be transformed is bigger than 1 hectare but less than 20 hectares.</li> </ul>
GNR 544, 18 June 2010	47	The widening of a road by more than 6 meters, or the lengthening of a road by more than 1 kilometre – (i) where the existing reserve is wider than 13.5 meters; or (ii) where no reserve exists, where the existing road is wider than 8 meters – excluding widening or lengthening occurring inside urban areas.
		Existing roads may need to be upgraded.
GNR 545, 18 June 2010	6	<ul> <li>The construction of facilities or infrastructure for the bulk transportation of dangerous goods –</li> <li>I. In gas form, outside an industrial complex, using pipelines, exceeding 1000 metres in length, with a throughput capacity of more than 700 tons per day;</li> <li>II. In liquid form, outside an industrial complex, using pipelines, exceeding 1000 metres in length, with a throughput capacity of more than 50 cubic metres per day; or</li> <li>III. In solid form, outside an industrial complex, using funiculars or conveyors with a throughput capacity of more than 50 tons per day.</li> </ul>

Please note that any authorisation that may result from this application will only cover activities specifically applied for.

#### 3. SOCIO-ECONOMIC BENEFITS

3.1 What is the expected capital value to be contributed for North West Province Growth Domestic Product? The total cost of the project is valued at R1 274 078 148.

3.2 How many new employment opportunities will be created in the development phase? Information pertaining to employment will be provided as part of the Scoping and EIA process.

3.3 How many permanent employment opportunities will be created during operational phase? Information pertaining to employment will be provided as part of the Scoping and EIA process.

#### 4. OTHER AUTHORISATIONS REQUIRED

#### 4.1 DO YOU NEED ANY AUTHORISATIONS IN TERMS OF ANY OF THE FOLLOWING LAWS?

4.1.1 National Environmental Management: Waste Act	/No
4.1.2 National Environmental Management: Air Quality Act	/No
4.1.3 National Environmental Management: Protected Areas Act	/No
4.1.4 National Environmental Management: Biodiversity Act	/No
4.1.5 Mineral Petroleum Development Resources Act	Yes/
4.1.6 National Water Act	Yes/
4.1.7 National Heritage Resources Act	/No
4.1.8 Other (please specify)	/No
4.2 Have such applications been lodged already?	/No

#### 5 ACTIVITY POSTITIONS

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in 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.

List alternative sites, if applicable.

Alternative:	Latitu	de (S):		Longitude (E):			
Alternative S1 <sup>2</sup> (preferred or only site alternative)	250	39'	12.25"	27°	18'	34.98"	
Alternative S2 (if any)		_					
Alternative S3 (if any)	α	.t.	1	0	4	· ·	

NOTE: The coordinates above are for the Waterval TSFs, where the main activity remining will occur. Refer Appendix 1 for the locations of all other project infrastructure.

Alternatives will be investigated during the Scoping and EIA Process and Information will be provided in Scoping and EIA Report.

In the case of linear activities: Pipeline Route - Alternative (Preferred):

Latitude (S):

Longitude (E):

Alternative S1 (preferred or only route alternative)

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

25°	39'	22.25"	270	18'	40.01"
25°	40'	10.25"	27º	21'	09.43"
25°	41'	07.39"	270	23'	51.38"

Alternatives will be investigated during the Scoping and ElA Process and information will be provided in the Scop and EIA Report.

<sup>&</sup>lt;sup>3</sup> "Alternative S.," refer to site alternatives.

#### 6. DECLARATIONS

#### 6.1 The Applicant

DJR Vermaak

declare that I -

am, or represent<sup>6</sup>, the applicant in this application: .

- have appointed an environmental assessment practitioner to act as the independent environmental assessment practitioner for this application7;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2010, Including but not limited to
  - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
  - costs incurred in respect of the undertaking of any process required in terms of the Regulations; .
  - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations; .
  - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
  - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be . required by the competent authority;
- will ensure that the environmental assessment practitioner Is competent to comply with the requirements of these Regulations and e will take reasonable steps to verify whether the EAP complies with the Regulations;
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any llability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations:
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations; all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

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

Name of company (if applicable):

D.J.R. VERMAAK

Date:

ale: 08/08/2012

<sup>&</sup>lt;sup>6</sup> If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached.

<sup>&</sup>lt;sup>7</sup> If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.

If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority. An EAP may not sign on behalf of an applicant.

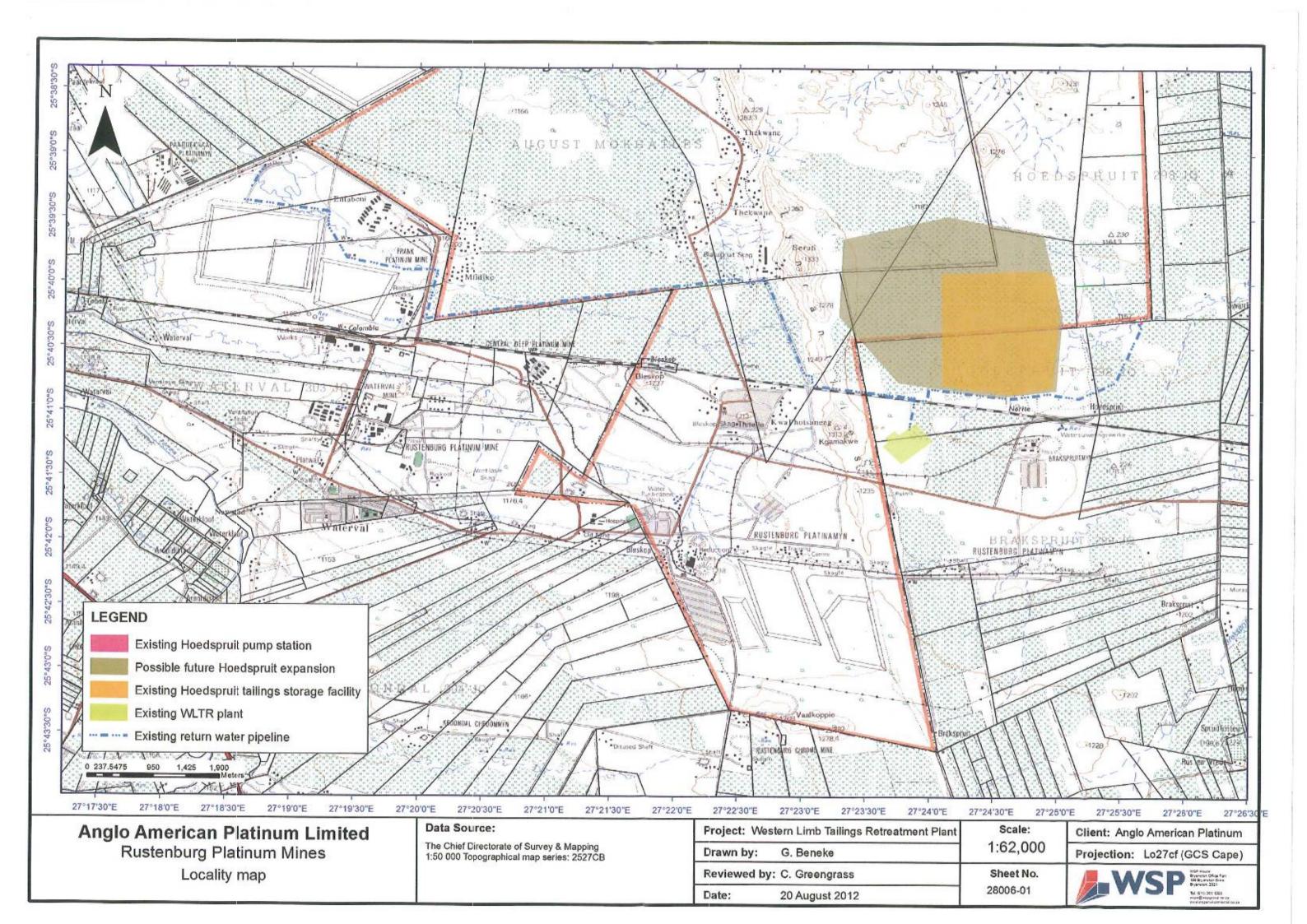
#### **APPENDIX 1: LOCALITY MAPS**

- Drawing showing project area, with proposed infrastructure
- Locality map showing the project area showing property boundaries (without proposed new infrastructure)



1111

FOR SULTARTS (	DRAMIN	C Ho				Aligia American Flatinus Lind Vote No. 816566
APROPRIATE AND PRODUCT LANSAGEMENT			. Online	THE REPORT OF		
SPEAK201	111	Cabana .		75.188	1154 25 45 12	PROJECT DESIGN PHASE
NUMBER OF A	111	CALL COL	1.2	Dep rs		
Filum .		Linepon (	111	ALC: N		FEL 3
HIRDINA	111	Treus	11	A market		VESTERNLING TARINGS
OVER .	111	ALAST A	IT	Tenti		WEATERATERA LACENCE
ACTIVICS CONTRACT		SUMTS I	WUTR - SEMERIE OF WATERWAY			
	CALING CALING				Called Automatical Control of Con	
		NUL	TT	19.067.5cm		TAILS THERE WALLS RECOVERY
				804		OVFRALL PHOJECT ADLA CO. DROMETES
				WARM'S	1.14.20	LAYOUT
Description of the second seco		100710	T LL	TONY DEC APEN ONE AND ADDA DEC MOTO		



# **APPENDIX 2: AFFECTED PROPERTY OWNER INFORMATION**

Landowner:	Anglo American Platinum: Rustenburg Platinum Mines Limited				
Contact person:	Andre Britz				
Postal address:	Anglo Platinum Limited,				
	CENTRAL SERVICES,				
	Klipfontein Main Offices,				
	Bleskop Road,				
	Rustenburg,				
	South Africa.				
Postal code:	0300	Cell:	+27 (0) 83 455 8874		
Telephone:	+27 (0) 14 598 1109 Fax: +27 (0) 14 598 1				
E-mail:	andre.britz@angloamerican.com				
Contact person: Postal address: Postal code:	Modisaotsile Mokate PO Box 1 Phokeng South Africa 0335 Cell:				
Telephone:	+27 (0) 14 566 1200	Fax:			
E-mail:	Modisaotsile.Mokate@bafokeng.com				
Landowner:	Files Trust				
Contact person:	Fike Trust				
Postal address:	George Khunou, Managing Director				
Postal code:	PO Box 1, Phokeng, South Africa 0335	0-11-	000 050 5004		
Telephone:	0335	Cell:	083 653 5621		
E-mail:		Fax:	014 566 1296		
L-IIIdil.	george@bafokengsports.co.za				

the **DEDECT** 



Department: Economic Development, Environment, Conservation and Tourism North West Provincial Government Republic of South Africa

Agricentre Building Cnr. Dr. James Moroka & Stadium Road Private Bag X2039, Mmabatho, 2735

#### DIRECTORATE: ENVIRONMENTAL QUALITY & PROTECTION

Tel: (018) 389 5959/ 5156 Fax: (018) 389 5006 Smukhola@nwpg.gov.za

#### DETAILS OF EAP AND DECLARATION OF INTEREST

File Reference Number: NEAS Reference Number: Date Received:

For officia	use only)
-------------	-----------

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

#### PROJECT TITLE

The re-mining of the Anglo American Flatinum, Waterval Tailings Storage Facilities (TSFs) located in Rustenburg, North West Province

Environmental Assessment Practitioner (EAP):1	WSP Environment and Energy (Pty) Ltd		
Contact person:	Catherine Greengrass		
Postal address:	PO Box 5334, Rivonia		
Postal code:	2128	Cell:	079 501 5303
Telephone:	011 361 1395	Fax:	086 86 240 0693
E-mail:	Catherine.greengrass@wspgroup.co.za		
Professional affiliation(s) (if any)	N/A		

Project Consultant:	TWP Projects (pty) Ltd				
Contact person:	Alex Kinmont				
Postal address:	PO Box 61232, Marshaltown				
Postal code:	2107	Cell:	082 806 0577		
Telephone: E-mail:	011 218 3472 akinmont@twp.co.za	Fax:	0861 897 329		

#### 4.2 The Environmental Assessment Practitioner

Catherine Greengrass

I, declare that -

General	declaration:
---------	--------------

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

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

I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity
proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations,
2010;

Signature of the environmental assessment practitioner:

#### WSP Environment and Energy (Pty) Ltd

Name of company:

2012 08 20

Date: Signature of the Commissioner of Oaths: S DO 01 Date: CA (SA

Designation:

Official stamp (below)

#### COMMISSIONER OF OATHS Johan Janse van Rensburg CA (SA) Commissioner of Oaths (RSA) 8 Orchard Avenue, Bordeaux

Randburg 2194, South Africa

Appendix 2: WSP Capability Statement



# WSP Environment & Energy Capability Statement





# CORPORATE PHILOSOPHY, STRUCTURE AND SERVICES

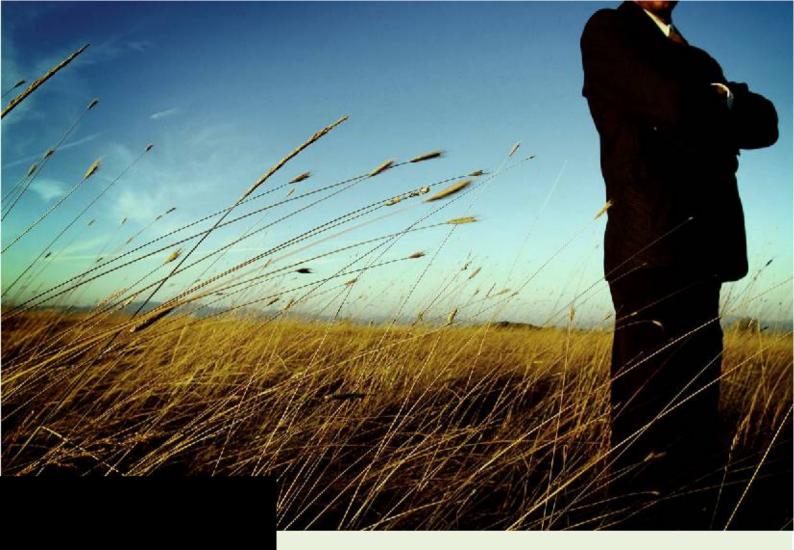
# Our Vision

Our vision is to provide an independent, innovative and professional service whereby we strive to achieve a balance between environmental protection, social desirability and economic development. WSP Environment & Energy (WSP) is a leading South African environmental consultancy with a broad range of expertise and over 20 years experience in the regional environmental market. Whilst we are operated by WSP Environmental Ltd, a global environment and energy consultancy listed on the London Stock Exchange (WSP Group plc), we are also committed to transformation in our operational region having achieved Level 4 BEE compliance in South Africa. As part of a global business we provide the regional marketplace with a dynamic blend of local and global expertise.

WSP's Environment and Energy has offices in Durban, Cape Town, Johannesburg and Pietermaritzburg. WSP is owned by WSP Group Africa Ltd, a 900-member strong subsidiary of WSP Group plc, an international FTSE 250 management, engineering and built environment consultancy, with 10,000 employees worldwide, which is listed on the London Stock Exchange. As part of WSP Group, we have access not only to a broad range of environmental and sustainability specialists, but to leading international engineers across the full range of disciplines: energy, electrical, civil, and structural, among others.

WSP has received a number of international awards for our contribution to sustainable development including the Acquisitions Monthly Environmental Advisor of the Year Award for 2010, and the Winner of the 2009 and 2010 Big Tick Award for Climate Change, awarded by the Prince of Wale's Business in the Community charity, based upon our global climate change consulting services to clients.





#### **Our Values**

Trust Sharing and Supporting Pride and Passion Sustainability Innovation By incorporating our principles of Trust, Sharing and Support, Pride and Passion, Sustainability and Innovation into our day to day operations, we are able to deliver an independent, insightful and professional service to our clients to achieve a balance between environmental protection, social desirability and economic development.

Stronger regulatory control, market pressures, stakeholder awareness and global concerns, have caused businesses to adopt an innovative, proactive approach to the evaluation of environmental issues. The provision of sound environmental advice is therefore becoming an essential ingredient for progressive business management and success. By fully understanding our clients business, associated operations and requirements, and combining this knowledge with our strong legal and technical competence we are able to provide our clients with sound strategic advice and improved environmental performance.

We pride ourselves on our reputation for delivery and technical excellence and provide a broad range of environmental and energy related services across a range of economic arenas including the industrial, mining, financial, tourism and public sectors.

# STAFF WELFARE

Creating the optimum social and environmental framework for staff is essential if we are to attract and retain the intellectual capital that sets our business apart from our competitors. We actively promote capacity building through staff and knowledge transfers between our international offices.



# OUR SERVICES

WSP brings to the South African marketplace a dynamic blend of local expertise and global cutting-edge technology. Being part of a large global company, we are also able to draw on considerable international resources and expertise accumulated over many years.

We have a well established team of environmental scientists and our team can provide a range of environmental solutions to businesses in the following fields:

- Air Quality Management
- Asbestos Surveys
- Climate Change Adaptation and Mitigation Strategies
- Contaminated Land and Remediation
- Corporate Social Responsibility
- Due Diligence, Compliance and Liability Audits
- Energy Efficiency and Management
- Energy Project Development and Investment
- Environmental Engineering
- Environmental Management Systems
- Environmental Project Management
- Human Health and Ecological Risk Assessment
- Environmental Toxicology
- Environmental Training
- Geotechnical Investigations
- Groundwater Monitoring and Modelling
- Integrated Environmental Management
- Public Participation Programs
- Renewable Energy
- Surface Water Hydrology
- Sustainability Management Systems
- Sustainability Reporting
- Sustainable Solutions
- Waste Engineering
- Waste Management, Waste Characterisation and Delisting





There is a growing awareness that if an organisation or project is to succeed in the 21st century it will need to meet new challenges by working in partnership with key stakeholders and integrating social and environmental factors into business decisions alongside the more traditional economic issues. We deliver proactive sustainability solutions, offering real business benefits, which include reducing operating costs, protecting corporate reputations and meeting stakeholder aspirations in society.

# CORPORATE SUSTAINABILITY

#### Our key capabilities and services include the following:

- Corporate Sustainability Strategy, Reporting and Verification
- Benchmarking Tools (e.g. Sustainability Assessment Technique)
- Sustainability and Value Management Systems
- Corporate Governance and Communicating with Stakeholders (King and Turnbull Reports)
- Community Enhancement and Corporate Citizenship
- Teambuilding and Employee Volunteering Programmes
- Green Procurement
- Energy Efficiency, Renewable Energy and Climate Change Strategies
- Waste Management and Eco-labelling
- Local, Regional and National Strategy Planning (e.g. Local Agenda 21 policy and plans)

Our Sustainability Assessment Technique (SAT) is designed to visually represent the assessment, and superimposed onto it are the impacts associated with a development. Used throughout the project life cycle, it will identify the threats and opportunities associated with the development.





A changing climate threatens those businesses that cannot adapt in an efficient manner. How businesses adapt can influence the longevity and profitability of your business. WSP assesses the climate change risk to business using holistic outlook taking into account economic, social and environmental factors. Incorporating business resilience, resistance and continuity plans will ensure your business can react positively to a business interruption and will be in a far better position to prevent, survive, prosper and gain prepared competitors.

# CLIMATE CHANGE ADAPTATION AND MITIGATION STRATEGIES

WSP offers an integrated approach to business climate risk management, utilising global expertise across all spheres. Our offering can be adapted to meet the needs of your business.

#### Our basic capabilities include the following:

- Climate Risk and Opportunity Assessments
- Detailed Carbon Inventory Analyses
- Business Adaptation Strategy
- Assisting with Carbon Disclosure Project (CDP) responses
- Renewable Energy and Energy Efficiency
- Carbon finance services:
  - Assisting with access to specialised finance for sustainable energy investments.
  - Carbon Credit projects (Kyoto CDM, voluntary market etc.)
  - Supporting client transactions via carbon offset market.

# FOOTPRINTING SERVICES

Responding to climate change can be best perceived as a journey, starting with Greenhouse Gas (GHG) inventory and acquiring an understanding your organisation's climate change risks. Further development of this response includes exploring the broader environmental impacts of products and embedding sustainability of one's of climate change specialists, but experts across various environmental disciplines, including sustainability, toxicology, ecology and waste management. WSP are specialists in the field of footprinting – from life cycle assessments for Apple's Macbook laptops, water footprinting for GlaxoSmithKline, ecological footprinting for the City of London or carbon emissions modelling for the South African recycled oil industry, we have a proven track record in developing solutions to our clients' sustainability needs.

#### WSP's footprinting services include:

- Comprehensive Product Life Cycle Assessment (LCA)
- End-to-End Carbon Footprinting and Carbon Labelling (PAS2050 methodology)
- Water Footprinting
- Ecological Footprinting





Understanding energy usage and potential efficiency gains within a business or industry sector is becoming increasingly important in a world of tightening legislative requirements and increased pressure from governments and business shareholders to lower carbon emissions resulting from production processes. We are able to operate in close co-operation with the WSP Energy Africa group and Green Buildings Business of WSP, and in house engineering teams to provide energy advice on efficiency options in line with the needs of individual business requirements.

## ENERGY MANAGEMENT AND EFFICIENCY

#### Our integrated services include:

- Energy risk analysis
- Process alternatives assessment
- Business, industry or country specific assessments of energy efficiency potential
- Development of solution implementation plans

# Specialist services offered by WSP Green Building Services include:

- Sustainability in the built environment consultants
- Consulting to professional team to assist in designing sustainable buildings
- Facilitate and administer Green Star accreditation process
- Architectural, urban and engineering background





Integrated Environmental Management (IEM) covers all aspects of environmental management in the project life cycle, from planning and design, to construction, operations, decommissioning and closure.

### INTEGRATED ENVIRONMENTAL MANAGEMENT

# We offer environmental services appropriate to all project phases such as:

- Risk assessments and fatal flaw analyses
- Scoping studies
- Route/site/process alternatives assessment
- Public participation programmes
- Environmental impact assessments
- Environmental management plans
- Environmental management programmes
- Environmental monitoring of construction and operational activities
- Closure plans

Our studies are all conducted according to the regulatory frameworks of the countries in which we operate, so that we can obtain regulatory approval for our clients. Internationally funded projects are carried out in the manner specified by the lending agency and to world standards of best environmental practice.

# In particular, we have experience in the following business sectors:

- Mining
- Infrastructure development (power lines, pipelines, roads, telecommunications)
- Building construction
- Manufacturing
- Industry
- Eco-tourism
  - Water development projects
  - Waste disposal
  - Community development





Public participation involves a process resulting in improved decision-making. The process should lead to a joint effort by stakeholders, technical specialists, the authorities and the proponent who work together to produce more informed decisions.

Strong and independent facilitation, coupled with the necessary empathy for people's concerns, is required during meetings with stakeholders. At times, it is necessary to direct stakeholder concerns to the authorities rather than to the proponent.

# STAKEHOLDER ENGAGEMENT

# WSP offers comprehensive stakeholder engagement services, which include the following:

- Design of public participation processes
- Identification of stakeholders
- Compilation and maintenance of stakeholder databases
- Co-ordination and facilitation of public meetings, stakeholder workshops, multi-sectoral meetings and Open Houses/Days
- Compilation of proceedings of meetings and verification of issues
- Compilation of issues trails
- Liaison with authorities, clients and stakeholders to facilitate negotiations
- Report compilation detailing public participation process on projects





WSP provides strategic advice and operational support to a range of clients across five continents. We strongly believe that our team is at the forefront of Environmental Systems (EMS) in a way, which integrates environmental issues into existing business systems and operations.

# ENVIRONMENTAL MANAGEMENT SYSTEMS AND TRAINING

#### In particular we can offer the following services:

- Raising awareness and providing information on the full range of EMS approaches and recognised standards (e.g. EMAS, ISO 14001:2004 series, OHSAS 18000 etc)
- Advanced training for EMS implementation and auditing
- System design, gap analysis and implementation on specific projects including the development of procedures
- Auditing throughout the development of an EMS and identification of the potential for system improvement and pre-preparation audits
- Development and review of legal registers
- Software based implementation tools and training
- Supply chain management protocols and coaching programmes
- Certified EMS Implementation Training Course
- Certified EMS Internal Auditors Training Course

Our EMS Team can draw on experience of EMS work across a broad range of economic sectors including: construction, manufacturing (e.g. BMW), mining, financial services, government agencies and departments and office based organisations.





The Air Quality Unit (AQU) offers in-depth experience in all phases of air quality management, from calculation of emissions inventories, developing and implementing monitoring programs, air quality modelling in support of Environmental Impact Assessments or permit applications to designing pollution abatement strategies and emission control systems.

# AIR QUALITY MONITORING AND DISPERSION MODELLING

State of the art equipment, coupled with strategic modelling and risk assessment techniques enable WSP to evaluate problems accurately and engineer workable solutions to complex and potentially costly environmental issues.

#### Our core air quality management services include:

- Source, fence line and ambient air quality monitoring
- Air emissions inventories
- Atmospheric source-dispersion modelling
- Meteorological monitoring and data analysis
- Best practical available technology assessment
- Pollution controls system and cost-benefit analysis
- Quantitative health risk assessments for hazardous air pollutants
- Occupational health and safety monitoring
- Greenhouse emissions and carbon footprinting





The Contaminated Land Unit (CLU) in WSP offers consulting services, ranging from site assessment and investigation through to risk assessment, and contracting services ranging from environmental remediation and ongoing monitoring to regulatory compliance and sign-off. At present, clean-up contracts can be planned as procured services via a tender process with WSP CLU acting as consultants or on the basis of a turnkey design and supply project.

## LAND RESTORATION AND GROUND ENGINEERING

#### CONSULTING SERVICES:

- Contaminated land and geohydrological assessments
- Desk top and feasibility studies
- Full ground investigations
- Design, implementation and management of groundwater monitoring systems
- Soil and groundwater sampling and monitoring for organic and inorganic contaminants
- Geohydrological and contaminant plume modelling
- Human health and risk assessment
   Quantitative and qualitative risk assessment
  - Source, release mechanism,
  - pathway receptor relationships
     Determination of the need for remediation
  - Determination of site-specific remediation, goals and targets
  - Waste management
- Waste management strategy development
  - Waste classification, hazard rating and delisting
  - Landfillsite assessment and investigation
  - Waste treatment option assessments
- Surface water hydrology
  - Surface water management plans
  - Runoff modelling
  - Water balances
  - Floodline assessments
  - Water licensing and water use registrations
  - Reserve determination
- Geotechnical investigations
   Infrastructure and development
  - Foundation design engineering

#### CONTRACTING SERVICES:

WSP offers a full service remediation business, local and international, with a solution driven approach to remediation projects of all sizes and types.

We have a track record in negotiated settlements of environmental contamination issues and provide an integrated technical, financial, legal and environmental service to ensure the right solution.

Services include:

- Site investigations
- Land option appraisals
- Commercial risk evaluation
- Material classification and treatment studies
- Technical and financial feasibility studies
- Laboratory and field trials
- Risk-based remediation design
- Regulatory authority consultation
- Remediation contracting





## LIABILITY TRANSFER

The outsourcing of environmental liabilities using Active Transfer<sup>™</sup> allows a business to eliminate environmental liabilities without losing control of its assets. WSP is partnered with Willis and is capable of providing risk management, environmental engineering and financial modelling to provide a cost effective and permanent solution.

## DUE DILIGENCE, COMPLIANCE AND PRE-ACQUISITION AUDITING

As southern Africa becomes more and more part of the 'Global Village', increased awareness of environmental liabilities facing business and the risks associated with sub-standard environmental performance, will intensify. Our auditing services are designed to assess all the environmental risks and liabilities associated with commercial and industrial businesses and their assets, including identifying any latent environmental damage, regulatory non-compliance and third party liabilities.

## ENVIRONMENTAL FINANCE

WSP advises on business and project risks presented by environmental and operational issues. Using quantitative techniques favoured by financial analysts, models and forecasts are generated to assess, for example, the cost of environmental liabilities, asset impairment issues, or the impacts of future regulation and policy on the project or business enterprise.

We can therefore quantify risk, whether adverse or positive, in monetary terms and develop financial tools that when integrated with technical solutions from other parts of the business, lead to the development of a total risk management solution. This manifests itself in the implementation of strategies ranging from basic control measures through to elaborate financing tools, such as captive insurance and alternative risk transfer (ART).





The WSP is utilising its expertise in environmental sustainability and the built environment to provide consulting advice to clients on optimal planning / urban design for sustainable outcomes. WSP, along with traffic engineers, housing specialists and economists, have been involved with the development of Local Area Plan (LAP) projects for various municipalities within South Africa.

## SUSTAINABLE MASTERPLANNING

#### Our client offerings within this field include:

- Environmental guidance from conceptual planning to detailed design.
- Development Risk Assessment, Including 'No-go' Options.
- Strategic Environmental Impact Assessment & Identification of opportunities.
- Development Parameters Assessment.
- Integrated Assessment GIS and Mapping.
- Land-use management (LUMs) advice.
- Project implementation plans.





## CONTACT US:

WSP has offices located in Johannesburg, Durban, Pietermaritzburg and Cape Town.

#### JOHANNESBURG OFFICE:

WSP House, Bryanston Place Office Park 199 Bryanston Drive Bryanston, 2021 South Africa P O Box 5384 Rivonia 2128, RSA Tel +27 (0)11 361 1380 Fax +27 (0)11 361 1381

E-mail: <u>wspe@wspgroup.co.za</u>

#### CAPE TOWN OFFICE:

3rd Floor 35 Wale Street Cape Town 8001 South Africa P.O. Box 2613 Cape Town 8000, RSA Tel +27 (0)21 481 8700 Fax +27 (0)21 481 8799

E-mail: <u>wspe@wspgroup.co.za</u>

#### **DURBAN OFFICE:**

WSP House, 1 on Langford Langford Road Westville 3629 South Africa P O Box 1442 Westville 3630, RSA Tel +27 (0)31 240 8860 Fax +27 (0)31 240 8861

E-mail:wsped@wspgroup.co.za

#### PIETERMARITZBURG:

Suite 7B Cascades Office Park 21B Cascades Crescent Cascades 3202 PO Box 689 Hilton 3245, RSA Tel: +27(0)33 347 5391 Fax: +27(0)33 347 5391

E-mail:<u>wsped@wspgroup.co.za</u>

UNITED BY OUR DIFFERENCE



Appendix 3: Process Design Criteria





#### ANGLO PLATINUM MANAGEMENT SERVICES

#### CONCENTRATOR TECHNOLOGY DIVISION

## **PROCESS DESCRIPTION:**

## Western Limb Tailings Retreatment Plant – Phase 2 Re-Mining of the Waterval East and West Tailings Dams

DOCUMENT DETAILS		
Revision number:	A	
Revision date:	5 September 2012	
Compiled & Issued by:	R Fouchee	
Issued for :	FEL3: Feasibility Study	





#### **TABLE OF CONTENTS**

1.	General3				
2.	Safety and Risk Assessment				
3.	Process I	rocess Description			
	3.1 Re-mini	ng and Pump Station	4		
	3.1.1	Re-mining	4		
	3.1.2	Primary Vibrating Screens and Transfer Sumps	5		
	3.1.3	Secondary Vibrating Screens	6		
	3.1.4	Surge Tanks	6		
	3.1.5	Water Reclamation	6		
	3.1.6	Final Transfer Sump and Pump Train	6		
	3.1.7	Intermediate Pump Station	6		
	3.1.8	Water Requirements	6		
	3.1.9	Storm Water Control	7		
	3.1.10	Air Requirements	7		
	3.1.11	Power Requirements	7		
	3.1.12	GSW Requirements	7		
	3.2 Concentrator Plant		8		
	3.2.1	Plant Feed	8		
	3.2.2	Density Control of the plant feed	8		
	3.2.3	Linear Screen and Primary Mill Feed Surge	8		
	3.2.4	Ball Mill Circuit	9		
	3.2.5	Mainstream Inert Grind (MIG) Circuit	.10		
	3.2.6	Metal Accounting Sampler	. 11		
	3.2.7	Rougher Flotation	. 11		
	3.2.8	Ultra-Fine Grind (UFG) Circuit	. 11		
	3.2.9	Cleaner Flotation Circuit	. 12		
	3.2.10	Concentrate Handling	.12		
	3.2.11	Tailings Disposal	.12		
	3.2.12	Reagents	. 12		
	3.2.13	Spillage Handling	.12		
	3.2.14	Power Requirements	. 12		
	3.2.15	Air Requirements	.13		
	3.2.16	Water Requirements	.13		
	3.2.17	Sampling and Evaluation	.13		
4.	Process (	Control	14		
5.	Appendic	es	15		
	5.1 Process	Flow – Re-Mining and Pump Station	. 16		
		Flow – WLTR Plant			





#### 1. General

This process description is for FEL3, which is only a feasibility study. Modifications to this are likely prior to final design and construction.

The Western Limb Tailings Retreatment (WLTR) Plant was constructed to treat dormant tailings dump material from the Rustenburg Section tailings dumps. The plant was commissioned in December 2003, treating material from the Klipfontein Tailings Dam. The Klipfontein Tailings Dam will be depleted in mid-2015. This document outlines the design criteria for the retreatment of the Waterval East and West Tailings Dams, thereby extending the life of WLTR Plant by approximately 16years.

The aim of this project is to utilise the existing WLTR Plant, which would otherwise become redundant, to retreat the Waterval East and West Tailings Dams at a rate of 500ktpm. The plant currently treats 450ktpm. Furthermore, the aim of the project is to increase the WLTR Plant's existing PGM recoveries through the installation of Mainstream Inert Grinding (MIG) using proven IsaMill<sup>™</sup> technology. The inclusion of MIG was optional during FEL 2, but is included going forward due to the substantial financial benefit it adds to the project.

The project will entail the following at the Waterval East and West Tailings Dams re-mining site and pump station:

- Hydraulic remining with all its associated activities
- Installation of a pump station with buffer capacity for improved stability and a water reticulation cirtcuit.
- Additional water pumping capacity from Hoedspruit return water dam

In order to reduce the capital required for this project, some equipment has been deferred. Due to its streamlined design, none of the MIG equipment has been affected by the cost saving initiative. For a proposed flowsheet, please refer to the Appendix.

Space is still provided for the deferred equipment in the layout, but it will be clearly marked and referred to as future options. For a provisional layout as done in FEL2, please refer to the Appendix.

### 2. Safety and Risk Assessment

All equipment and plant will be designed, installed and modified strictly in accordance with the Mines Health and Safety Act, OHS Act, and relevant Anglo Platinum Safety, Health and Environment standards. All equipment, plant design and construction activities will comply with the Anglo Fatal Risk





Standards. Provision will be made for fire fighting equipment (hand-held fire extinguishers, fire hydrants, hose pipes etc.) where necessary. An allowance will be made in the costing for a fire fighting system to be designed by Marsh.

The final design of the upgraded and integrated plant will be subjected to a comprehensive risk assessment process and full HAZOP review on all relevant Process Flow and Piping and Instrument Diagrams and full post commissioning follow-up assessment.

#### 3. **Process Description**

The current Klipfontein Tailings Dam will be depleted in mid-2015. The new re-mining activities at the Waterval East and West Tailings Dams will replace the Klipfontein Tailings Dam with feed material to the existing Western Limb Tails Re-treatment Concentrator. Lessons learnt from the Klipfontein Tailings Dam re-mining and pump station will be applied to the design and operating philosophy to the new Waterval East and West Tailings Dam re-mining and pump station.

The Western Limb Tails Re-treatment Concentrator will remain essentially as is, but with the addition of surge tanks and a Mainstream Inert Grind (MIG) circuit to improve plant recovery and concentrate grade; the addition of the MIG circuit is subject to final confirmation from pilot plant testwork.

#### 3.1 Re-mining and Pump Station

#### 3.1.1 RE-MINING

The design and operating philosophy of the Waterval East and West Tailings Dam re-mining and pump station is based on the lessons learnt from experience at the Klipfontein Tailings Dams.

Initially, a catchment pond next to the pump station will be cleared and developed. Adequate bund walls will be installed to protect the pump station and divert excess material from cloud bursts of rain to a storm water dam. A main earth launder (trench) will be established from the mining face to the catchment pond. Operations will begin by clearing vegetation and preparing a face prior to re-mining of a face. Tailings material will be "monitored" with high pressure jets from the work face into slurry and then gravitated to the catchment pond ahead of the pump station. The design of the HP water supply for the monitor guns will ensure a pressure of 30bar is achieved at the monitor guns.

A static grizzly will be installed in the main trench to remove large objects such as penstock poles. A hydraulic arm (or other suitable means) will be installed/utilized to clear any debris from the grizzly.

Due to the additional distance, and depending on the final mine design and mine plan, it is likely that a booster pump station will be required to transfer the slurry to the primary screening stage at the pump





station when the remining activities move to the WV East dam. The need for such a booster station could be negated by deploying vertical spindle pumps as part of the remining of WV East dam. It is accordingly excluded from the current project scope.

#### 3.1.2 PRIMARY VIBRATING SCREENS AND TRANSFER SUMPS

The design and control philosophy of the pump station is based on the lessons learnt from experience at the Klipfontein Tailings Dams. The slurry will enter the pump station from the catchment pond through one suitably sized primary vibrating screen with 10mm apertures at the entrance to the pump station for the removal of tramp material, with provision made for an additional primary screen as a future option. Screen spray water will be provided. The oversize will fall from the screen onto a conveyor which will deposit the tramp material onto a stockpile for final disposal. The undersize will gravitate to the primary transfer sumps. The large volume fluctuations and the large array of the type of debris will be properly considered during the design and sizing of the screens, conveyor, pumps, sump, and screen make-up water.

In conventional re-mining activities cannot be quickly stopped and consequently the slurry continues to flow to the pump station for a considerable period after stopping re-mining activities. Therefore, any breakdowns or chokes of the primary vibrating screen, the primary transfer sump or the primary transfer pumps result in large spillages in the bunded area. Furthermore, repair work or un-choking is difficult while the sump is overflowing and the bund is full of spillage.

However, a new re-mining method is proposed by Fraser Alexander in which vertical spindle pumps are deployed to transfer the remined material to the pump station. The density fluctuations will still occur, but the flow will be much more controllable.

Therefore, the primary screen, sump, and pumps (one duty and one standby) will be completely duplicated with a standby screen, sump, and pumps (one duty and one standby) in two separate bunded areas on the proposed layout plan, but the duplicates will not form part of the initial project. Each bunded area will have a spillage pump which can pump to either of the two primary vibrating screens.

The design and operating philosophy of the primary transfer sump and pumps will ensure maximum running time of the pumps. The mechanical design will minimise pump trips from any process related interlock. Make-up water will be provided to each of the sumps to minimise pump trips to low level, and also provide a means to adjust the density during times of high slurry density from the remining operation. An automated recycle line will also be incorporated as a future installation option to recycle material from the primary transfer pumps back to the primary transfer sump during low-low level

Process Description - Re-mining of Waterval East and West for Scpoing report.docx





conditions, thereby maintaining sump level and eliminating pump stoppages due to low sump level. The pumps will be all-metal pumps to ensure minimum breakdowns.

#### 3.1.3 SECONDARY VIBRATING SCREENS

The primary transfer sump will transfer the slurry to a distribution box above the secondary vibrating screen with 2mm apertures for the removal of further tramp material. The screen will be located on ground level on top of a dedicated transfer sump, instead of being placed on top of the surge tanks. This is to minimise structural vibrations and to facilitate easier access to the screens for inspection and maintenance. The vibrating screen, transfer sump, and pumps (one duty and one standby) will be duplicated in the layout, but the duplicates will be deferred as a future installation option.

Screen spray water will be provided from the clear water tank via dedicated spray water pumps. Tramp material will fall via a chute to a conveyor which deposits onto the tramp material stockpile next to the surge tanks from where it will be loaded by a front end loader onto a dumper truck for final disposal to a remote location. The screen undersize of the vibrating screen will gravitate to the transfer sump, from where it will be pumped to the surge tank.

#### 3.1.4 SURGE TANKS

Sufficient surge capacity will be installed to mitigate process fluctuations caused by remining.

#### 3.1.5 WATER RECLAMATION

Water will be reclaimed through cyclones, thickening and clarification.

#### 3.1.6 FINAL TRANSFER SUMP AND PUMP TRAIN

The slurry will be pumped from the remining station to WLTR at a suitable flow and density with a high pressure pump train.

#### 3.1.7 INTERMEDIATE PUMP STATION

The line between the pump station and the WLTR Plant is approximately 13.2 km long. The requirements for an intermediate pump station was investigated and confirmed during FEL2. The booster station will have a transfer sump with duty and standby pump trains.

#### 3.1.8 WATER REQUIREMENTS

All required water (clear and process) will be kept on site in tanks sized for 8 hours of residence time.





#### 3.1.9 STORM WATER CONTROL

The design of the storm water control (and spillage control) at the Waterval East and West Tailings Dams is to be confirmed as part of the design of the remining site plan. Consideration must be given to incorporation of two dams (or other suitable infrastructure) to facilitate containment of flood waters and recovery of slurry and water back into the process in an efficient and safe manner. This combination will result in legal compliance for storm water control, easy reclamation of slurry from the concrete lined silt trap, and economical use of capital funds. Any excessive storm water from the catchment pond, excessive slurry from re-mining, and spillage from the pump station will be directed to the silt trap for initial containment of slurry and storm water, and can later be re-introduced to the primary vibrating screens in a controlled manner with a monitor gun washing the solids to the silt trap pump. Excessive water, for instance from a 1 in 100 year flood, will overflow the silt trap to the storm water dam. This, which will consist mostly of water, can later be re-introduced to the pump station in a controlled manner with the storm water dam pump.

All sumps and surge tank overflows at the pump station will report to the storm water dam via the silt trap.

#### 3.1.10 AIR REQUIREMENTS

A suitably sized compressor plant will be designed and installed to provide compressed air for instruments.

#### 3.1.11 **POWER REQUIREMENTS**

Power supply infrastructure will be designed and installed to supply the necessary power to drive the various items of equipment i.e. screens, pumps and agitators.

#### 3.1.12 **GSW** REQUIREMENTS

A suitably sized closed water tank will be installed at the pump station to supply of LP and HP gland service water (GSW) to the slurry pumps and overland pump trains. Dedicated GSW supply systems will be designed and installed to supply GSW to all the low pressure slurry transfer pumps and the final transfer pump trains by separate distribution systems.





#### 3.2 Concentrator Plant

#### 3.2.1 PLANT FEED

The plant feed from the Klipfontein pump station can currently be diverted to either the density control thickener, the mill feed surge tank, the mill discharge sump, or the final tail. All of these pipe routes and process options will be retained for the plant feed for the Waterval pump station. The incoming feed material will report directly to the primary mill surge tank.

Subject to final confirmation, as part of the detail design phase, the impact of the new particle size distribution from the Waterval East and West Tailings Dams on existing equipment and piping needs to be investigated with regard to the performance and suitability of the existing equipment and piping.

#### 3.2.2 DENSITY CONTROL OF THE PLANT FEED

Due to the increased distance from the Waterval East and West Tailings Dams, the existing density control thickener at the WLTR plant will become redundant because:

- the density control of the plant feed will be regulated at the pump station;
- the water will be reclaimed at the pump station to provide HP water for the monitor guns;
- and increased surge capacity will be provided at the pump station.

However, the pipe route to the density control thickener will be retained as a process option for treating Waterval Dam material.

#### 3.2.3 LINEAR SCREEN AND PRIMARY MILL FEED SURGE

The existing linear screen and primary mill feed surge tank will be retained. The surge tank currently provides 40 minutes of buffer capacity (at 100% volume). The plant feed from the pump station will be received into the new dilution surge tank from where it will be pumped at the required density to the existing linear screen (with 1mm aperture screen cloth) situated above the primary mill feed surge tank. The linear screen undersize stream gravitates to the existing primary mill feed surge tank. Tramp material removed by the linear screen falls to a vibrating dewatering screen where the tramp material is washed. The tramp material discharges from the dewatering screen into a small stockpile enclosure next to the surge tank from where it is loaded with a front end loader onto dumper trucks and removed to a remote location for final disposal. The undersize from the dewatering screen reports to the bund area spillage recovery system which returns the spillage back to the primary mill surge tank.



## PLATINUM

The mill feed surge tank pumps (one duty and one standby) currently transfer the material to the ball mill circuit. This option will be retained for normal operation. A new line will be installed for added flexibility to the IsaMill<sup>TM</sup> circuit to bypass the ball mill circuit.

Subject to final confirmation, and as part of the detail design phase, the impact of the new particle size distribution from the Waterval East and West Tailings Dams on existing equipment and piping needs to be investigated with regard to the performance and suitability of the existing equipment and piping. This includes a detailed assessment of the ability of the current linear screen to handle the increased throughput.

#### 3.2.4 BALL MILL CIRCUIT

The metallurgical requirement of the ball mill is currently to increase PGM liberation by producing a product of suitable fineness.

Main Stream Inert Grind (MIG) IsaMill<sup>™</sup>'s have shown that there is a metallurgical benefit to milling in an inert environment, even at the same grind as that of a ball mill. However, MIGs are susceptible to high operating costs when the feed is coarse. Therefore, with the addition of the MIG circuit, the metallurgical requirement of the ball mill will change to top size control.

Plant feed from the mill feed surge tank is currently fed to an automated de-slime cyclone nest, with a high solids split to the underflow and subsequently reporting to the ball mill. The de-slime cyclones will be modified or changed so as to produce a coarser cut point for top size control through the ball mill. A solids split of 30-40% to the underflow is envisaged, subject to further testwork. The option will be provided to either divert the de-slime feed or the de-slime cyclone overflow to the new MIG circuit.

The suitability of the current de-slime cyclone nest for the new application needs to be evaluated and verified as part of the design study. The de-slime cyclone overflow currently reports to the ball mill discharge sump. This pipe option will be retained. Full automation for cyclone selection in the cyclone nest is currently installed.

The ball mill discharges into the ball mill discharge sump. The discharge pumps (one duty and one standby) will transfer material via a new line to the IsaMill<sup>™</sup> circuit for normal open circuit ball mill operation. The design duty of the existing ball mill discharge pumps will be confirmed for this revised duty to the MIG circuit from a volumetric and discharge head perspective. Currently, the mill discharge is pumped to the classification cyclones. This option will be retained for closed circuit operation. The classification cyclone overflow currently gravitates to the plant feed metal accounting sampler ahead of the rougher flotation bank. This option will be retained. Furthermore, an option to





send the classification cyclone overflow to the MIG circuit will be provided. Automated cyclone selection capability will be provided.

The capacity and integrity of any existing mechanical equipment, electrical installation and reticulation systems and the civil and structural construction that will be redeployed in the modified circuit, will be evaluated and verified as part of the design study.

#### 3.2.5 MAINSTREAM INERT GRIND (MIG) CIRCUIT

The overflow from the ball mill closed circuit cyclones will become the primary feed stock to the new MIG circuit.

During normal operation with the MIG circuit online, the overflow from the existing ball mill closed circuit cyclones will ,via a gravity flow launder, report to the MIG circuit. Currently, the overflow from the existing ball mill closed circuit cyclones gravitates, via the plant feed metal accounting sampler, to the rougher flotation bank. This facility will be retained for bypassing of the MIG circuit.

The following MIG circuit feed options will be incorporated into the plant design:

- Ball mill classification cyclone overflow (gravity flow if possible)
- Ball mill classification cyclone feed (pumped) open circuit ball mill configuration
- Primary de-slime cyclone feed (pumped)
- Primary de-slime cyclone overflow (gravity flow if possible)

A fit for duty linear screen will be located on top of the MIG surge tank to remove any foreign material such as steel scats from the ball mill prior to entering the agitated surge tank directly beneath the linear screen.

The slurry will be pumped at a controlled rate from the MIG feed surge tank to a cluster of densifying cyclones ahead of the IsaMill<sup>™</sup>. The cyclone underflow will gravitate directly to the IsaMill<sup>™</sup> feed sump where it will be pumped into the IsaMill<sup>™</sup> unit. The overflow from the densifying cyclone will gravitate to a common IsaMill<sup>™</sup> final product sump where it will be combined with the discharge from each of the four IsaMill<sup>™</sup>. The final product sump and pumps (one duty and one standby) will transfer the combined IsaMill<sup>™</sup> circuit product to the plant feed metal accounting sampler ahead of the rougher flotation bank.

A media hopper situated below the IsaMill<sup>™</sup> will be installed. A jet pump system will transfer media to the IsaMill<sup>™</sup> feed sump during operation. Media will be loaded to achieve and maintain an IsaMill<sup>™</sup> power set point.

Process Description - Re-mining of Waterval East and West for Scpoing report.docx





The short term emergency bypass facility will be provided that will allow the MIG densifying cyclone underflow to be diverted directly to the final product sump during periods when only the IsaMill<sup>™</sup> has to be bypassed.

This MIG circuit will also be installed with the latest control philosophies.

An adequate media recovery system must also be provided.

#### 3.2.6 METAL ACCOUNTING SAMPLER

The rougher flotation feed will be sampled for metal accounting purposes prior to flotation. For the 500ktpm option it was proposed to install 3-off additional 130m3 tank cells into the rough flotation circuit. Depending on how the new rougher cells are configured (either at the head or tail of the bank) it may be necessary to install a new metal accounting sampler ahead of the new rougher flotation cells if they are installed at the fee-end of the rougher flotation bank. Alternatively, if the new cells are installed at the tail end of the bank then it will be feasible to retain the existing Samstat<sup>™</sup> sampler for metal accounting purposes of the rougher feed.

These new cells have been deferred to save costs and will not form part of the current project.

#### 3.2.7 ROUGHER FLOTATION

The existing rougher flotation circuit will be retained. The rougher bank consists of forced air tank cells.

The feed to the rougher flotation stage will be either form the ball mill circuit (ball mill classification cyclone overflow) or from the MIG circuit. Subject to final confirmation, as part of the detail design phase, the impact of the finer stream on the current rougher flotation section needs to be investigated with regard to the performance of the equipment.

#### 3.2.8 ULTRA-FINE GRIND (UFG) CIRCUIT

Subject to final confirmation, as part of the detail design phase, the impact of the finer stream on rougher mass pull and subsequent feed Ultra-Fine Grind (UFG) section needs to be investigated with regard to the performance of the equipment.





#### 3.2.9 CLEANER FLOTATION CIRCUIT

Subject to final confirmation, as part of the detail design phase, the impact of the finer stream on rougher mass pull and subsequent feed to the UFG and cleaner flotation section needs to be investigated with regard to the performance of the equipment.

#### 3.2.10 CONCENTRATE HANDLING

Subject to final confirmation, as part of the detail design phase, the impact of the finer concentrate on the current concentrate handling section needs to be investigated with regard to the performance of the equipment.

#### 3.2.11 TAILINGS DISPOSAL

Subject to final confirmation, as part of the detail design phase, the impact of the finer stream size distribution on the current tailings handling section needs to be investigated with regard to the performance of the equipment.

#### 3.2.12 REAGENTS

Subject to final confirmation, as part of the detail design phase, the requirement for additional reagent dosage points needs to be investigated with regard to the metallurgical performance of the plant.

#### 3.2.13 SPILLAGE HANDLING

The MIG circuit spillage must be contained in a sloped, bunded concrete containment area. Floors are sloped towards a sump that will be protected by a 6mm stainless steel wedge wire screen.

The spillage sump will pump the spillage over a ceramic media recovery screen. The screen will have a dual aperture deck. The screen overflow will be discarded as waste. The slurry fraction will be pumped to the linear screen at the surge tank, while the recovered media will be reclaimed by a hopper with crane access.

#### 3.2.14 **POWER REQUIREMENTS**

Subject to final confirmation, as part of the detail design phase, the impact of the additional equipment on the overall power supply infrastructure needs to be reviewed and confirmed. Additional power will be required for the MIG circuit IsaMills<sup>™</sup>, pumps and agitators.





#### 3.2.15 AIR REQUIREMENTS

Subject to final confirmation, as part of the detail design phase, the impact of the additional compressed air and instrument air requirements on the current compressed air section needs to be investigated with regard to the performance of the equipment.

#### 3.2.16 WATER REQUIREMENTS

Subject to final confirmation, as part of the detail design phase, the impact of the additional potable & process water requirements on the current water reticulation system needs to be investigated with regard to the performance of the equipment.

The water balance will need to be investigated. A water line from WLTR Plant to the pump station may need to be provided.

#### 3.2.17 SAMPLING AND EVALUATION

The Sampling and Evaluation systems and infrastructure shall be retained and is subject to final confirmation during the detailed design phase. All additional requirements shall conform to the current Western Limb Tailings Retreatment Plant and Anglo Platinum standards and procedures.



## PLATINUM

#### 4. Process Control

The design, development and implementation of the control solution, instrumentation and electrical drives will be in accordance to Anglo Platinum standards as defined in the relevant Control and Instrumentation Standard and Specification documents (AGS standards).

The pump station will be controlled at the pump station with its own PLC and SCADA, which will be fully visible from the WLTR Plant SCADA for additional monitoring, troubleshooting, and data logging purposes. The primary and final transfer sumps and pumps and the surge tank and pumps will be completely automated. Pump start-up, shut-down, and change-over sequences will be controlled automatically by the PLC. The primary transfer pumps and the surge tank pumps will be fitted with VSD's in order to deliver maximum flow stability and optimal utilisation if the installed buffer capacity. The final transfer pumps will be interlocked with high level of the delivery tank at the WLTR Plant.

In the design of the MIG installation, due cognisance must be given to the existing process control requirements and control objectives for the concentrator. Advanced control solutions will be implemented where proven benefits can be realised. The control solution shall make use of the Anglo Platinum control software standards and practices.

All instrumentation to be installed under the guidance of the relevant supplier and / or manufacturer who will be expected to guarantee the installation to a specified accuracy and precision and to Anglo Platinum standards.

Control and data logging for all new equipment and its associated instrumentation will be exercised via the upgraded and expanded networked PLC/SCADA.

Normal MIG plant start-up & shutdown will be by sequence control via the PLC. Media addition will be automatically controlled by the PLC.



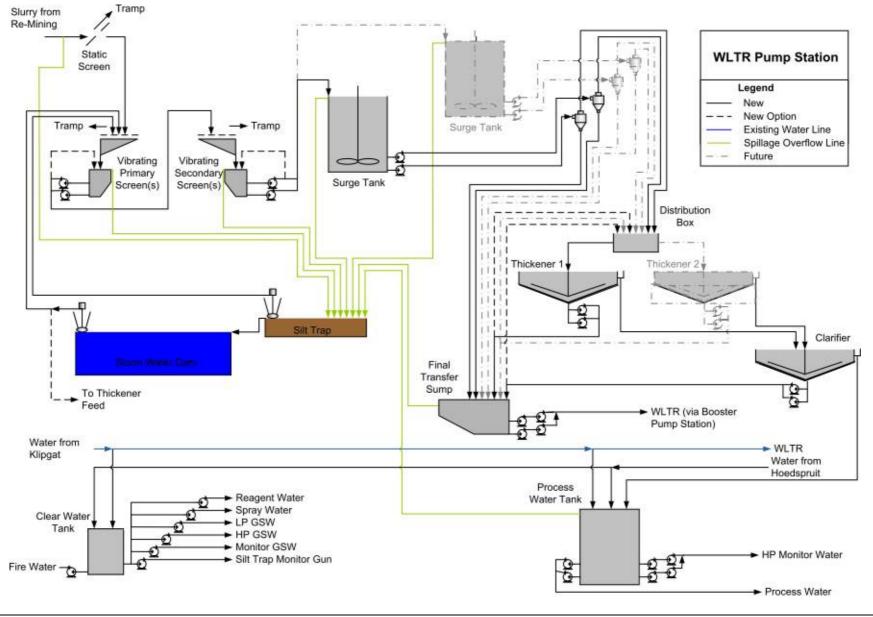


5. Appendices

Process Description - Re-mining of Waterval East and West for Scpoing report.docx

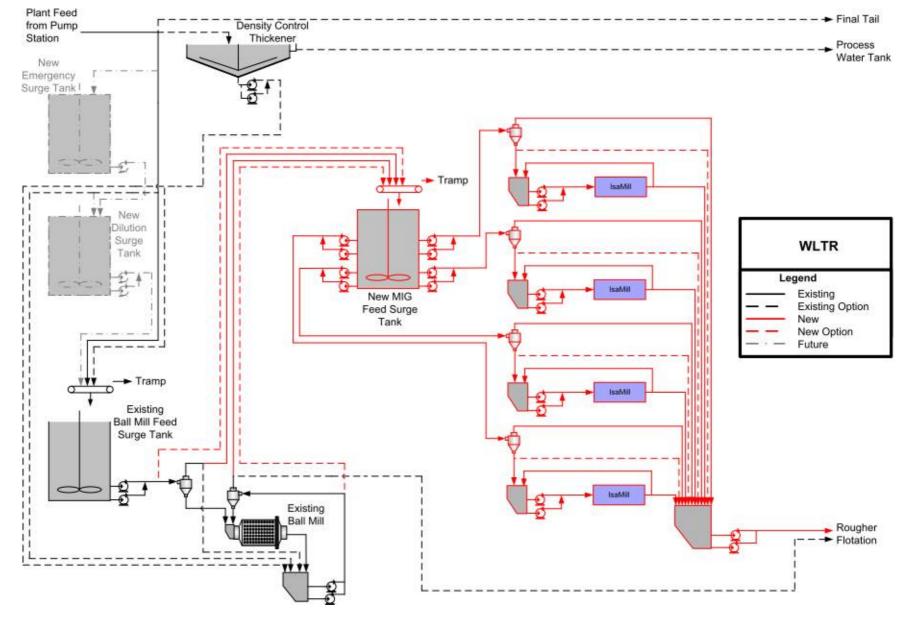








**PLATINUM** 



## Appendix 4: Public Participation – Scoping Phase

- 4.1 Stakeholder Database
- 4.2 Site Notices
- 4.3 Background Information Document
- 4.4 Newspaper Adverts

 $4.5\ \text{Letters}$  of Notification of EIA Process, Public / Focus Group meeting and Scoping Report for review

4.6 Issues Trail

## 4.1 Stakeholder Database

Name Ma Mantin	Surname		Designation	
Mr Martin Ms Johanna	Malatsi	African National Congress (ANC)	Representative	
Matvila	Matvila	ANC Youth Organisation		
Alwyn Botha	Botha	Anglo Platinum		
Mr André	Britz	Analo Platinum	Chief Environmental Co-ordinator	
Sarel	de Jager	Anglo Platinum	Senior Metallurgist	
Nishi Pierre	Haripursad Malan	Anolo Platinum Anolo Platinum	Environmental Manager Process Project Manager	
Mumsv	Malebadi	Anglo Platinum	Environmental Coordinator Waterval Smelter	
Moseli	Motselebane	Anglo Platinum	Civil Engineer	
Ms Thabisile	Phumo	Analo Platinum	Corporate Communication	
Libby	Reddina	Anglo Platinum	Social Advisor	
Pule Andre	Soaisa Spangenberg	Analo Platinum Analo Platinum	Environmental Coordinator PMR Engine ering Manager	
Dudu	Ratshefola	Anglo Platinum	Socio-Economic Development	
			Environmental Manager: Mining, Joint Ventures and Water	
Vinesh	Dilsook	Andlo Platinum Limited	Management	
Claudina Mr Ishmael	Noqueira Sekano	Analo Platinum Limited Analo Platinum, Rustenburg Section	Senior Health and Safety Advisor Socio-Economic Development	
Mr Gordon	Ramsav	Aquarius Platinum	Project Director	
Mr Johan	de Bruyn	Arnoldistad Ontwikkelings Trust	Member	
Mr Louis	Viljoen	Arnoldistad Ontwikkelings Trust	Self Employed	
Irene	van Zyl	Arnoldstad Ontw. Trust -	Secretary	
Ms Louise	Smith	Ass Country Women of the World	Activist	
Mr Eugene Mr Bernard	Huma Modiba	Bafokena Bleskop Business Forum Bafokena Bleskop Business Forum	Shift supervisor Member	
Mogomotsi	Molefe	Balokeng Bleskop Business Forum Bafokeng Bleskop Business Forum	Member	
Mr Lawrence	Moogi	Bafokeng Bleskop Business Forum	Member	
Councillor Thabo	Makgale	Bafokeng Community: Land Affairs Department	Councilor	
Joas B	Petlele	Bafokeng Policing Forum	Chairperson	
Mr Georae Mr Peter	Khunou Lekalakala	Bafokena Sports Boitekona Community	Managing Director Member	
Mr Peter Mr David	Lekalakala Lesejane	Boitekong Community	Member Member	
Mr Kaizer	Letsholo	Boitekong Community	Member	
Ms Agnes	Mathule	Boitekong Community		
Mr Gideon	Menoe	Boitekong Community	CPF Chairperson	
Mr Michael	Moalosi	Boitekona Community	Community Member	
Mr Luckv Ms Lisbeth	Mo aomotsi Mo le fe	Boitekong Community Boitekong Community	Councilor Community Member	
Ms Nono	Mosimane	Boitekong Community	Community Member	
Mrs Maria	Ndlovu	Boitekona Community	Community Member	
Mr Goitsemang	Phiri	Boitekong Community		
Mr Stephen	Sedikwe	Boitekona Community	Community Member	
Ms Innocentia Mrs Maria	Senna Simango	Boitekong Community Boitekong Community	Community Member	
Mr Paris	Teme	Boitekong Community	Community Member	
Ms Dineo	Boutlwanvi	Boitekong Community Library	Librarian	
Mr Poaiso	Bothomane	Boitekona Development Forum	Secretary	
Mr David	Coetzee	Boitekona Unemployment Forum	Chariperson	
Mr Prince	Morare	Bonjanala Platinum District Municipality	Environmental Manager	
Mr Hopewell Mr Shadrack	Radebe Gwebu	Business Dav Community Development Committee	News Editor RDP Chairman	
Mr Jovleaf	Boase	COSATU	Face street flagger	
Mr Jan	Marais	DEA	Chief: Air Pollution Control Officer and Clean Air	
MrsRA	Dikolomela	Department of Agriculture	Agriculturalist	
Ms RM	Monnakgotla	Department of Agriculture	-	
Mrs CN Mr J A	Raseapei Sithole	Department Of Education Department Of Education	AET Specialist Learning Area Coordinator	
Mr Thomas	Baloyi	Department of Health	Environmental Health Practitioner	
Mr Phumudzo	Nethwadzi	Department of Minerals and Resources	Assistant Director	
		DEPARTMENT OF RURAL DEVELOPMENT & LAND		
Mr Richard	-	REFORM	-	
Ms KS	Seboka	Department of Social Services	Social Work Supervisor	
Ms Sebenzile Mrs Caroline	Ntshanga se Shai	DWA DWA	Water Polution Control Officer Assistant Director	
Mr Jacobus	Malan	Ecoserv	Gauteng Regional Manager	
	Matshaba			
Damaria	Maleshwane	Environmental Justice Networking Forum (EJNF)	Adminstrator	
Mr Sandv	Nkaothwe	Environmental Justice Networking Forum (EJNF)	Administrator	
Lunaile	Motsisi	Eskom	-	
Ms Queen	Quando Khunou	Federated Mining and Allied Industries Fike trust	Gene ral Secretary Managing Director	
George Mr A P	Senne	Fike Trust. Photsaneng Village	Member	
Conrad	Cross	Fraser Alexander	Programme Manager	
Matthew	Gordon-Watt	Fraser Alexander	Proiect Manager	
Nicolai	Massvn	Green Gain Consulting	Consultant	
lpeleng Dr. lulius	Tsoan amatsie	Green Gain Consulting	Assistant: Research and Development	
Dr Julius FC	Pistorius Graham	Heritage Impala Platinum	Archaeologist	
Mrs Suan	Mulder	Impala Platinum	Environmental Manager	
Mr Morris	Nte	Impala Platinum	Community Liaison Officer	
Jeannine	Nienaber	J9 Consulting	-	
Mr Alan	Forrester	Kelgran (Pty) Ltd	Kelgran (Pty) Ltd	
Koosana Jacob	Petlele	Kgosana, Madiba Mantsho, Thekwana Community	Community Member	
Ms Brenda Mr Robin	Moila Wardle	Kopanang Care Centre for People with Disabilities	Engine ering Manager	
Mr Robin Ms Erika	Wardie Wenhold	Kroondal and Ward 31Environmental Forum	Member	
Mr Man fred	Suhr	Kroondal Environmental Forum	Spokesperson: En vironmental Matters	
Mr B	Tlou	Lefaragathe	Monnakgotla	
Ms Durkiie	Gilfillan	Lrc	Attornev: Regional Director	
Ms Rachel	Banda	Mafid ikwe Community	Community member	
Mr Roelf	le Roux	Magalies Water Board	Member	

Mr Bashimane     Se       Ms Grace     Kh       Kaosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Doris     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr Louis     Ra       Mr John     Cr       Ms Rosina     Ma       Itumeleno     Hu       Ernie     Ke       Mr Pat     Kin       Pleasure     Mc       Mr Karabo     Pe       Rotshopile     Th       Teresa     Ta       Ms Reotsheoile     Th       Mr N     Kh       Mr D     Mr       Mr Molop e     Pe       Mr Molisaotsile     Mc       Mr Kalid     Pa       Mr Malid     Pa       Mr N     Gr       Mr Scharmaine     Ya       Ms Charmaine     Ya       Ms Rotastasi     Ku       Mr N     Gr       Mr S     Ka       Mr N     Gr       Mr S     Ka       Mr S     Ka       Mr S     Ka       Mr S     Ka       Mr S <td< th=""><th>athubane etshoane ritchlev laboe uma emm inq labyane eele habane alaard habane alaard habane alaard habane unou lokgethi biti eatlele ettele ettele ettele ettele ettele attel an Heerden laten an Heerden laema olsch enk u Preez rrootboom-Mashile elobogile joheka enake</th><th>Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Roval Bafokeng Nation         Royal Bafokeng Nation         Rustenburg Cocal Municipality         Rustenburg Cocal Municipalit</th><th>Member         Member         Chief Planning Engineer         Land Affairs         Spatial Planner         Land Administrator         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Kgosana         Monnakgotla         Kgosana         Headman         Corporate Governance Executive         Kgosana         Advocate         ElMS Consultant         Project Manager         Reporter         Electricity         Manager: Satelite offices         EIA         Ward Committee         Integrated Environmental Management         Civil Facilities</th></td<>	athubane etshoane ritchlev laboe uma emm inq labyane eele habane alaard habane alaard habane alaard habane unou lokgethi biti eatlele ettele ettele ettele ettele ettele attel an Heerden laten an Heerden laema olsch enk u Preez rrootboom-Mashile elobogile joheka enake	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Roval Bafokeng Nation         Royal Bafokeng Nation         Rustenburg Cocal Municipality         Rustenburg Cocal Municipalit	Member         Member         Chief Planning Engineer         Land Affairs         Spatial Planner         Land Administrator         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Kgosana         Monnakgotla         Kgosana         Headman         Corporate Governance Executive         Kgosana         Advocate         ElMS Consultant         Project Manager         Reporter         Electricity         Manager: Satelite offices         EIA         Ward Committee         Integrated Environmental Management         Civil Facilities
Mr Bashimane     See       Ms Grace     Kh       Kaosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Doris     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr Fred     See       Mr Fred     See       Mr John     Cr       Ms Rosina     Ma       Itumelena     HL       Ernie     Ke       Mr Pat     Kir       Pleasure     Ma       Mr Ratabo     Pe       Reotshopile     Tit       Mr N     Kh       Mr D     Mr       Mr D     Mr       Mr D     Mr       Mr B     Set       Mr B     Set       Mr Banoo     Set       Mr B     Set       Mr Khalid     Pa       Ms Charmaine     ya       Ms Charmaine     ya       Mr Scharmaine     ya       Mr Malie     ya       Mr Malie     ya	athu bane etshoane ritchlev laboe uma emm inq labyan e eele habane alaard habane alaard habane alaard habane biti biti eabela ettele ettele ettele ettele ettele atel an Heerden laema olschenk u Preez irootboom-Mashile elobo gile ubheka	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Royal Bafokeng Nation	Member         Chief Planning Engineer         Land Affairs         Spatial Planner         Land Affairs Officer         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Kgosana         Monnakgotla         Monnakgotla         Corporate Governance Executive         Kgosana         Advocate         EIMS Consultant         Project Manager         Reporter         Electricity         Manager: Satelite offices         EIA         Ward Committee
Mr Bashimane     Se       Ms Grace     Kh       Kaosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Mr Patrick     Kh       Ms Doris     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr Fred     Se       Mr Fred     Se       Mr John     Cr       Ms Rosina     Ma       Itumeleno     HL       Ernie     Ka       Mr Pat     Kir       Pleasure     Ma       Ms Reotsheoile     Th       Mr N     Kh       Mr D     Mr       Mr Bolope     Pe       Mr Bolope     Pe       Mr Molope     Pe       Mr Molope     Pe       Mr Molope     Ma       Ms Erancinah     Ma       Ms Charmaine     Va       Ms Francinah     Ma       Mr Waldie     Va       Mr N     Gr       Mr S     Ka	athu bane           etshoane           ritchlev           laboe           uma           emm           ing           labyane           eele           habaane           aiaard           habaane           aiaard           habaane           aiaard           biti           biti           etlele           eabela           etuke           lokate           atel           an Heerden           laema           olschenk           u Preez	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Roval Bafokeng Nation         Royal Bafokeng Nation         Royal Bafokeng Nation         Royal Bafokeng Nation         Roval Bafokeng Nation         Royal Bafokeng Nation         Royal Bafokeng Nation         Royal Bafokeng Nation         Royal Bafokeng Nation <tr< td=""><td>Member         Chief Planning Engineer         Land Affairs         Soatial Planner         Land Administrator         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Kgosana         Monnakgotla         Kgosana         Headman         Corborate Governance Executive         Kgosana         Advocate         ElMS Consultant         Project Manager         Reporter         Electricity         Manager: Satelite offices</td></tr<>	Member         Chief Planning Engineer         Land Affairs         Soatial Planner         Land Administrator         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Kgosana         Monnakgotla         Kgosana         Headman         Corborate Governance Executive         Kgosana         Advocate         ElMS Consultant         Project Manager         Reporter         Electricity         Manager: Satelite offices
Mr Bashimane     Se       Ms Grace     Kh       Kaosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Boikanvo     Mc       Mr John     Cr       Mr John     Cr       Mr John     Cr       Mr Pat     Kin       Itumeleno     Hu       Ernie     Ke       Mr Pat     Kin       Pleasure     Mc       Ms Rostshepile     Th       Mr Rotshepile     Th       Mr D     Mc       Mr D     Mc       Mr D     Mc       Mr D     Set       Adv Modisaotsile     Mc       Mr Kalid     Pa       Ms Francinah     Mc       Mr Waldie     Vo	athu bane           etshoane           ritchlev           laboe           uma           emm           ing           labyane           eele           lhapane           alaard           lhapane           nunou           lokgethi           biti           ettlete           ettlete           ettlete           atel           an Heerden           laema           olsch enk           u	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeno Administration         Roval Bafokeng Nation         Royal Bafokeng Nation         Royal Bafokeng Nation         Roval Bafokeng Nation         Roval Bafokeng Nation         Roval Bafokeng Nation         Royal Bafokeng Nation         Representing Royal Bafokeng Administration         Represe	Member         Chief Planning Engineer         Land Affairs         Spatial Planner         Land Administrator         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Kgosana         Monnakgotla         Kgosana         Headman         Corporate Governance Executive         Kgosana         Advocate         EIMS Consultant         Project Manager         Reporter         Electricity
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Mr Patrick     Kh       Ms Doris     Mc       Ms Doris     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr Fred     Se       Mr Fred     Se       Mr John     Cr       Ms Rosina     Ma       Itumelena     Hu       Ernie     Ka       Mr Pat     Kir       Pleasure     Ma       Mr Rotshoile     Th       Mr N     Kh       Mr D     Mr       Mr Bolope     Pe       Mr Molope     Pe       Mr Molope     Pe       Mr Molope     Pe       Mr Molope     Pe       Mr Malidia     Pa       Ms Erancinah     Ma	athu bane           etshoane           ritchlev           laboe           uma           emm           ing           labyane           eele           lhabane           aiaard           lhabane           unou           lokgethi           biti           etlele           eabela           etuke           lokate           atel           an Heerden           laema           olschenk	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Royal Bafokeng Administration         Royal Bafokeng Nation	Member         Chief Planning Engineer         Land Affairs         Spatial Planner         Land Administrator         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Kgosana         Monnakgotla         Kgosana         Headman         Corporate Governance Executive         Kgosana         Advocate         EIMS Consultant         Project Manager         Reporter
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Mr Patrick     Kh       Ms Doris     Mc       Ms Doris     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr Fred     Se       Mr Fred     Se       Mr John     Cr       Ms Rosina     Ma       Itumelena     Hu       Ernie     Ka       Mr Pat     Kir       Pleasure     Ma       Mr Rotshoile     Th       Mr N     Kh       Mr D     Mr       Mr Bolope     Pe       Mr Molope     Pe       Mr Molope     Pe       Mr Molope     Pe       Mr Molope     Pe       Mr Malidia     Pa       Ms Erancinah     Ma	athu bane           etshoane           ritchlev           laboe           uma           emm           ing           labyane           eele           lhabane           aiaard           lhabane           unou           lokgethi           biti           etlele           eabela           etuke           lokate           atel           an Heerden           laema           olschenk	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Royal Bafokeng Administration         Royal Bafokeng Nation	Member         Chief Planning Engineer         Land Affairs         Spatial Planner         Land Administrator         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Kgosana         Monnakgotla         Kgosana         Headman         Corporate Governance Executive         Kgosana         Advocate         EIMS Consultant         Project Manager         Reporter
Mr Bashimane     Se       Ms Grace     Kh       Kaosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Laura     Mc       Ms Looris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr Louis     Ra       Mr John     Cr       Mr Pat     Kii       Pleasure     Mc       Mr Karabo     Pe       Reotshooile     Th       Mr N     Mr       Mr D     Mr       Mr Mr     Mc       Mr JN     Pei       Mr Molooe     Pee       Mr Bulooe     Pei       Mr Molooe     Pei       Mr Khalid     Pa       Ms Charmaine     Ya	athu bane           etshoane           ritchlev           laboe           uma           emm           inq           labyane           eele           habaane           habaane           jhabaane           jhabaane           jhabaane           junou           lokgethi           joiti           etlele           eabela           etuke           lokate           atel           an           Heerden	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Roval Bafokeng Aldions         Royal Bafokeng Nation         Royal Bafokeng Nation <t< td=""><td>Member         Chief Planning Engineer         Land Affairs         Soatial Planner         Land Administrator         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Kgosana         Monnakgotla         Kgosana         Headman         Corrorate Governance Executive         Kgosana         Advocate         ElMS Consultant</td></t<>	Member         Chief Planning Engineer         Land Affairs         Soatial Planner         Land Administrator         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Kgosana         Monnakgotla         Kgosana         Headman         Corrorate Governance Executive         Kgosana         Advocate         ElMS Consultant
Mr Bashimane     Se       Ms Grace     Kh       Kaosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Boikanvo     Mc       Mr John     Cr       Mr John     Cr       Mr John     Cr       Mr Pat     Kin       Itumelena     Hu       Ernie     Ke       Mr Pat     Kin       Pleasure     Mc       Ms Rostsheoile     Th       Mr Rotsheoile     Th       Mr D     Mc       Mr D     Mc       Mr D     Mc       Mr JN     Pe       Mr Bauo     Set       Adv Modisaotsile     Mc       Mr Kalid     Pa	athu bane           etshoane           ritchlev           laboe           uma           emm           ing           labyane           eele           lhapane           lhapane           alard           lhapane           unou           lokgethi           biti           ettlete           ettlete           ettlete           ettlete           ettlete           atel           an Heerden	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeno Administration         Roval Bafokeng Nation         Royal Bafokeng Nation         Roval Bafokeng Nation	Member         Chief Planning Engineer         Land Affairs         Spatial Planner         Land Administrator         Land Affairs Officer         Chairman: Mining Commission         Environmental         Investment Manager         Environmental Manager         Kgosana         Monnakgotla         Kgosana         Headman         Corporate Governance Executive         Kgosana         Advocate         EIMS Consultant
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Mr Patrick     Kh       Ms Doris     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr Fred     Se       Mr John     Cr       Ms Rosina     Ma       Itumelena     Hu       Ernie     Ka       Mr Pat     Kir       Pleasure     Ma       Ms Rosishoile     Th       Mr N     Kh       Mr D     Mr       Mr D     Mr       Mr D     Mr       Mr Molope     Pe       Mr B     See       Mr B     Set       Mr B     Set       Mr B     Set       Mr B     Set	athu bane etshoane ritchlev laboe uma emm inq labyan e eele habane alaard habane alaard habane biti biti etlele eabela etlele eabela etlele atel	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Royal Bafokeng Nation	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Administrator Land Affairs Officer Chairman: Mining Commission Environmental Investment Manager Environmental Manager Environmental Manager Kgosana Monnakgotla Monnakgotla Monnakgotla Kgosana Headman Corporate Governance Executive Kgosana Advocate
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Mr Patrick     Kh       Ms Doris     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Fred     Se       Mr Fred     Se       Mr John     Cr       Ms Rosina     Ma       Itumelena     Ht       Ernie     Ka       Mr Pat     Kir       Pleasure     Ma       Ms Rootshepile     Th       Mr N     Kh       Mr D     Mr       Mr D     Mr       Mr D     Mr       Mr D     Mr       Mr JN     Pe!       Mr Molope     Pe       Mr Bouno     Se       Mr B     Set       Adv Modisaotsile     Mc	athubane etshoane ritchlev laboe uma emm ing emm labyane eele hapane eele hapane afaard hapane biaard hapane biaard hapane biti biti biti biti etlele eabela etuke lokate	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Royal Bafokeng Nation         Royal Bafokeng Natio	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Administrator Land Affairs Officer Chairman: Mining Commission Environmental Investment Manager Environmental Manager Environmental Manager Kgosana Monnakgotla Monnakgotla Monnakgotla Kgosana Headman Corporate Governance Executive Kgosana Advocate
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Louris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr In John     Cr       Mr John     Cr       Mr Pat     Kin       Pleasure     Mc       Mr Karabo     Pe       Reotshopile     Th       Mr N     Kh       Mr D     Mc       Mr D     Mc       Mr JN     Pei       Mr JN     Pei       Mr JN     Pei       Mr Molope     Pe       Mr Buno     Se	athu bane           etshoane           ritchlev           laboe           uma           emm           ing           labyane           eele           lhabane           ning           labyane           eele           lhabane           nunou           lokgethi           lpiti           etlele           eabela           etuke	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Roval Bafokeng Holdings         Royal Bafokeng Nation	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Administrator Chairman: Mining Commission Environmental Investment Manager Environmental Investment Manager Kgosana Monnakgotla Monnakgotla Monnakgotla Headman Corporate Governance Executive Kgosana
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr John     Cr       Ms Rosina     Ma       Itumelena     Hu       Ernie     Ke       Mr Pat     Kir       Pleasure     Ma       Ms Rosisheoile     Th       Ms Rosisheoile     Th       Mr Karabo     Pe       Reotsheoile     Th       Mr Pat     Kh       Mr D     Mr       Mr Rotsheoile     Th       Mr N     Kh       Mr D     Mr       Mr JV     Pe       Mr Molope     Pe	athubane etshoane ritchlev laboe uma emm inq labyane eele habane aliaard habane aliaard habane bitabane biti biti biti etlele	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Region al Youth with Purpose         Roval Bafokeng Administration         Roval Bafokeng Nation         Royal Bafokeng Nation	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Administrator Land Affairs Officer Chairman: Mining Commission Environmental Investment Manager Environmental Manager Environmental Manager Kagosana Monnakgotla Monnakgotla Kagosana Headman
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Mr Patrick     Kh       Ms Doris     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Fred     Se       Mr Fred     Se       Mr John     Cr       Ms Rosina     Ma       Itumelena     Hu       Ernie     Ka       Mr Pat     Kir       Pleasure     Ma       Ms Rootshooile     Th       Mr Roshooile     Th       Mr Pat     Kin       Mr N     Kh       Mr D     Mr	athubane           etshoane           etshoane           etshoane           laboe           uma           emm           ing           labyane           eele           haoane           alaard           haoane           nunou           lokgethi           biti	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Roval Bafokeng Nation         Royal Bafokeng Nation	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Administrator Land Affairs Officer Chairman: Mining Commission Environmental Investment Manager Environmental Manager Kgosana Monnakgotla Monnakgotla
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Looris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Fred     Se       Mr Fred     Se       Mr John     Cr       Ms Rosina     Ma       Ernie     Ke       Mr Pat     Kir       Pleasure     Ma       Mr Karabo     Pe       Reotshooile     Th       Mr N     Khr       Mr N     Khr	athubane etshoane ritchlev laboe uma emm labyane eele habane alaard habane habane hunou lokgethi loiti	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Roval Bafokeng Holdings         Royal Bafokeng Nation         Royal Bafokeng Nation         Royal Bafokeng Nation	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Administrator Chairman: Mining Commission Environmental Investment Manager Environmental Manager Kgosana Monnakgotla
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr John     Cr       Mr John     Cr       Mr Pat     Kir       Pleasure     Ma       Mr Karabo     Pe       Reotshopile     Th       Teresa     Ta       Ms Rosthepile     Th	athubane etshoane ritchlev laboe uma emm labyane eele lhabane alaard lhabane unou lokgethi	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Roval Bafokeng Holdings         Royal Bafokeng Holdings         Royal Bafokeng Nation	Member Chief Planning Engineer Land Affairs Soatial Planner Land Administrator Land Affairs Officer Chairman: Mining Commission Environmental Investment Manager Environmental Manager Kagsana Monnakgota
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr John     Cr       Ms Rosina     Ma       Itumelena     Hu       Ernie     Ke       Mr Pat     Kin       Pleasure     Ma       Ms Rosihooile     Th       Teresa     Ta       Ms Rostshooile     Th       Ms Rostshooile     Th	athu bane etshoane ritchlev laboe uma emm ing labyan e eele habane a laard habane nunou	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Roval Bafokeng Administration         Roval Bafokeng Administration         Roval Bafokeng Administration         Royal Bafokeng Administration         Royal Bafokeng Administration         Royal Bafokeng Administration         Roval Bafokeng Holdings         Roval Bafokeng Nation	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Affairs Officer Chairman: Mining Commission Environmental Investment Manager Environmental Manager Kgosana
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Mr Patrick     Kh       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Louis     Ra       Mr Fred     Se       Mr John     Cr       Ms Rosina     Ma       Itumelena     Hu       Ernie     Ke       Mr Karabo     Pe       Reotshopile     Ti       Teresa     Ta       Ms Rostshopile     Ti	athubane etshoane rtchlev laboe uma emm inq labyane eele habane a la ard habane	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Affairs Officer Chairman: Mining Commission Environmental Investment Manager Environmental Manager
Mr Bashimane Se Ms Grace Kh Koosi Maboti Mc Paula Kh Mr Patrick Kh Ms Laura Mc Ms Doris Mc Mr Boikanvo Mc Mr Solomon Ra Mr Louis Ra Mr Fred Se Mr John Cr Ms Rosina Ma Seosina Hu Ernie Ke Mr Pat Kir Pleasure Ma Reotshopile Tih Teresa Ta	athubane etshoane ritchlev laboe uma emm ing labyane eele hapane alaard	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Royal Bafokeng Administration         Roval Bafokeng Administration	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Affairs Officer Chairman: Mining Commission Environmental Investment Manager
Mr Bashimane Se Ms Grace Kh Koosi Maboti Mc Paula Kh Mr Patrick Kh Ms Laura Mc Ms Doris Mc Mr Boikanvo Mc Mr Boikanvo Mc Mr Solomon Rz Mr Louis Ra Mr Fred Se Mr John Cr Ms Rosina Mz Itumelena Ht Ernie Ke Mr Pat Kir Pleasure Mz Reotshooile Tit	athubane etshoane ritchlev laboe uma emm ing labyane eele hapane	Photsaneng Consultative Forum         Photsaneng Consultative Forum         Photsaneng Consultative Forum         Rand Water         Regional Youth with Purpose         Roval Bafokeng Administration         Royal Bafokeng Administration         Roval Bafokeng Administration         Roval Bafokeng Administration         Roval Bafokeng Administration         Roval Bafokeng Administration	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Affairs Officer Chairman: Mining Commission Environmental
Mr Bashimane Se Ms Grace Kh Koosi Maboti Mc Paula Kh Mr Patrick Kh Ms Laura Mc Ms Doris Mc Mr Boikanvo Mc Mr Solomon Ra Mr Louis Ra Mr Fred Se Mr Fred Se Mr John Cr Ms Rosina Ma Itumelena Hu Ernie Ke Mr Pat Kii Pleasure Ma	athubane etshoane ritchlev laboe uma emm ing labyane	Photsaneng Consultative Forum Photsaneng Consultative Forum Photsaneng Consultative Forum Rand Water Regional Youth with Purpose Roval Bafokeng Administration Roval Bafokeng Administration Roval Bafokeng Administration Roval Bafokeng Administration	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator Land Affairs Officer
Mr Bashimane Se Ms Grace Kh Koosi Maboti Mc Paula Kh Mr Patrick Kh Ms Laura Mc Ms Doris Mc Mr Boikanvo Mc Mr Boikanvo Mc Mr Solomon Ra Mr Solomon Ra Mr Fred Se Mr John Cr Ms Rosina Ma Itumeleng Hu Ernie Ke Mr Pat Kir	athubane etshoane ritchlev laboe uma emm	Photsaneng Consultative Forum Photsaneng Consultative Forum Photsaneng Consultative Forum Rand Water Regional Youth with Purpose Roval Bafokeng Administration Roval Bafokeng Administration Roval Bafokeng Administration	Member Chief Planning Engineer Land Affairs Spatial Planner Land Administrator
Mr Bashimane Se Ms Grace Kh Koosi Maboti Mc Paula Kh Mr Patrick Kh Ms Laura Mc Ms Doris Mc Mr Boikanvo Mc Mr Solomon Ra Mr Louis Ra Mr Fred Se Mr John Cr Ms Rosina Ma Eurnie Ka	athu bane etshoane ritchlev laboe uma emm	Photsaneng Consultative Forum Photsaneng Consultative Forum Photsaneng Consultative Forum Rand Water Regional Youth with Purpose Roval Bafokeng Administration Roval Bafokeng Administration	Member Chief Planning Engineer Land Affairs Spatial Planner
Mr Bashimane Se Ms Grace Kh Koosi Maboti Mc Paula Kh Mr Patrick Kh Ms Laura Mc Ms Doris Mc Mr Boikanvo Mc Mr Boikanvo Mc Mr Solomon Ra Mr Louis Ra Mr Fred Se Mr John Cr Ms Rosina Ma	athuloane etshoane rritchlev laboe uma	Photsaneng Consultative Forum Photsaneng Consultative Forum Photsaneng Consultative Forum Rand Water Regional Youth with Purpose Roval Bafokeng Administration	Member Chief Planning Engineer Land Affairs
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Fred     Se       Mr Fred     Se       Mr John     Cr       Ms Rosina     Ma	athu lo ane etsh oane rritchlev la boe	Photsaneng Consultative Forum Photsaneng Consultative Forum Photsaneng Consultative Forum Rand Water Regional Youth with Purpose	Member Chief Planning Engineer
Mr Bashimane     Se       Ms Grace     Kh       Kosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Louis     Ra       Mr Fred     Se       Mr John     Cr	athu bane etshoane ritchlev	Photsaneng Consultative Forum Photsaneng Consultative Forum Photsaneng Consultative Forum Rand Water	Member
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc       Ms Doris     Mc       Mr Boikanvo     Mc       Mr Solomon     Ra       Mr Foreis     Ra       Mr Fred     Se	athubane etshoane	Photsaneng Consultative Forum Photsaneng Consultative Forum Photsaneng Consultative Forum	Member
Mr Bashimane Se Ms Grace Kh Koosi Maboti Mc Paula Kh Mr Patrick Kh Ms Laura Mc Ms Doris Mc Mr Boikanvo Mc Mr Boikanvo Ra Mr Louis Ra	athubane	Photsaneng Consultative Forum Photsaneng Consultative Forum	
Mr Bashimane Se Ms Grace Kh Koosi Maboti Mc Paula Kh Mr Patrick Kh Ms Laura Mc Ms Doris Mc Mr Boikanvo Mc Mr Solomon Ra		Photsaneng Consultative Forum	Mamba
Mr Bashimane Se Ms Grace Kh Koosi Maboti Mc Paula Kh Mr Patrick Kh Ms Laura Mc Ms Doris Mc Mr Boikanvo Mc			
Mr Bashimane Se Ms Grace Kh Koosi Maboti Mc Paula Kh Mr Patrick Kh Ms Laura Mc Ms Doris Mc	lolotsane		
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh       Ms Laura     Mc	lodimokwane	Photsaneng Consultative Forum	Member
Mr Bashimane     Se       Ms Grace     Kh       Koosi Maboti     Mc       Paula     Kh       Mr Patrick     Kh		Photsaneng Consultative Forum	Member
Mr Bashimane Se Ms Grace Kh Kgosi Maboti Mg Paula Kh	hunou	Photsaneng Consultative Forum	Member
Mr Bashimane Se Ms Grace Kh	homo	Photsaneng Consultative Forum	Member
Mr Bashimane Se		Photsaneng Community, Lekoje	
		Photsaneng Community Developemnt	Member
Mr Abadaiaa	enne enne	Photsaneng Community Photsaneng Community	Community Member
IVII UECII MO		Photsaneng Community Photsaneng Community	Community Member
		Photsaneng Community Photsaneng Community	Environmental Issues Community Member
	hunou	Photsaneng Community	
	etshedi	Phothemfi Youth League (Buvo)	Member
	lolefe	Phothemfi Community Development	Chairperson
	iale	Phothemfi Community Development	Member
	lolefe	Phothemfi Community	Education
	uma	Phothemfi	Community Developer
	oko	Paardekraal/Boitekong Community	Community Members
Mrs Louisa/Mr	Т		
MsWelheminah Ra	adebe	Paardekraal/Boitekong Community	Community Member
Irene Mo	lokoka	Paardekraal/Boitekong Community	Paardekraal Ward 19
Ms Daphney Mr	Imitsinyane	Paardekraal Ward 22	Community Member
		NWDEDECT	Case Officer (Primary contact)
		North West Provincial Government	-
Mr Godfrey Le	ethuping	North West Ecoforum	Member
		North West Ecoforum	Director
	kosana	Environment	
		North West Department of Agriculture, Conservation &	
Mr Steven Mu	lu kho la	Environment	Assistant Director
		North West Department of Agriculture, Conservation &	
Ms Motshabi Mo	lohlalisi	Environment	Administrator
		North West Department of Agriculture, Conservation &	
Mr Percy Ma	latlapeng	Environment	Deputy Director: Air Quality
	aillanu	North West Department of Agriculture, Conservation &	
Mrs Delta Ma		North West Department of Agriculture, Conservation & Environment	Environmnetal Officer
Mr Seoka Le	ekota	Environment	Environmental Officer
		North West Department of Agriculture, Conservation &	
Mr Marchand le		Environment	Compliance
Livhuwani Ku		Environment North West Department of Agriculture, Conservation &	Environmental Officer
		North West Department of Agriculture, Conservation &	
Johannes Hu		North East Regional Councilor Bafokeng	Councilor
	an der Nest	Neels van der Nest Beleggings BK	Managing Director
		Neels van der Nest Beleggings BK	Advocate
		National Union of Mineworkers	Rustenburg Region
	edone onradie	Mfidikwe M C D C Modderfontein Irrigation Board	Nemper
		Mfdikwe Community	Community Member Member
		Mfidikwe Community	Community Member
	pane	Mfidikwe Community	Community Member
Mogomotsi Ra	akoma	Mfidikwe	
		Midikwe	
	oulee	Midikwe	
		Member Menge Communications	Youth Sunrise Ext 9 Director
	ienaar Is goodor	Man-Dirk Mambar	Enviornmental Scientist
	arnard	Man-Dirk Man Dirk	Internal sales
		Mahube Trusi	Marketing Director
		Mahube Trusi	Facilitator
Mr Sean Lir	indsay	Magalies Water Board	Member

	T		
MrsJM	Lesejane	Rustenburg Local Municipality	Ward Committee Member
Mr Jacob	Litsine	Rustenburg Local Municipality	
MrsMA	Mabalane	Rustenburg Local Municipality	Coordinator Minning & Industrial
DR	Maeko	Rustenburg Local Municipality	Municipal Manager
Ms DMM	Matlapeng	Rustenburg Local Municipality	Development Protitioneer
Kelebogile	Mekgoe	Rustenburg Local Municipality	Environmental impact assessment co-ordinator
Ms AB	Moale	Rustenburg Local Municipality	Ward Committee
Mr L K	Mokotedi	Rustenburg Local Municipality	Community Development
Mr Levv	Mokwele	Rustenburg Local Municipality	Community Development
Mrs Gloria	Moopelwa	Rustenburg Local Municipality	IDP Specialist
Ms CP	Mothaloga	Rustenburg Local Municipality	Ward Committee
Mr Moses	Phakoe	Rustenburg Local Municipality	
Mr Jan	Pieters	Rustenburg Local Municipality	Planning
Mr Marc	Rapoo	Rustenburg Local Municipality	Director
Paul	Sebegoe	Rustenburg Local Municipality	Director of Planning and Human Settlement (DP&HS)
MrsMM	Selope	Rustenburg Local Municipality	Ward Committee Member
Mr AL	Seome	Rustenburg Local Municipality	IGR Coordinator
Mr BB	Setshedi	Rustenburg Local Municipality	Ward Committee
Mr R	Thekiso	Rustenburg Local Municipality	Water and Sanitation Section
Ms L	Tumane	Rustenburg Local Municipality	IDP Officer
Mr Matthews	Wolmarans	Rustenburg Local Municipality	Mavor
-	Khunou	Rustenburg Local Municipality	Ward Councilor
Ms Andv	Mannathoko	Rustenburg Local Municipality	Mine Coordinator
Mrs Kathleen	Matshidiso	Rustenburg Local Municipality	Local Economic Development
-	Mothamme	Rustenburg Local Municipality	Ward Councilor
-	Ntshole	Rustenburg Local Municipality	Ward Councilor
Councillor Sheila	Mabale-Huma	Rustenburg Municipality	
Mr Pieter	Louw	Rustenburg Public Library	Librarian
Mr T J	Suze	Rustenburg Public Library	Librarian
Andrew	Saloman	SAHRA	
Mr Lucky	Sithole	SANCO	
Ms Lydia	Kalayamotho	Sikhathi Basadi Cooperative	Member
Ms Malmsev	Zitha	Socio-Economic Development: Northwest Province	Manager
Ms Keitumetse	Mokaophe	South African Heritage Resource Agency	Provincial Manager: North West
Francois	Joubert	Tabacks	Director
Mr Daniel	Motswad	Teb83 Moves Transport CC	Transporter
Mr IB	Ngobeze	TEBA	Regional Coordinator
Mr LM	Ntshingila	TEBA	Consultant - TEBA
Mr Miaue	Dos Santos	Tenova Pvromet	Project Manager
Mr Ronev	Monageng	Thekwane Community	Deputy Headman Madibana
Ms Marv	Mpheaele	Thekwane Community	Community Member
Mr Joshua	Nape	Thekwane Community	Community Member
Mr Thabo	Khutsoane	Tlhaban e Community	Member
Mr McDonald	Nkangalani	Townlands	
Mr Lawrence	Pebe	Townlands	
Vincent	Mtabane	Transnet	-
David	Koophane	Transporter	Kaophs Projects
Ms Jovce	Sedumedi	Tshepanang Basadi Cooperative	Member
Mr Mothanke	Tladi	Tsogo Distribution and Construction	
Jaco	Geldenhuys	TWP	Engine ering Manager
Alex	Kinmont	TWP	Project Manager
Mr Lazarus	Mfulwane	Unemployed	N/A
Mr Freiderich	Slabbert	UWP Consulting	Consultant
Mr Charles	Sanbow	Wesizwe Platinum	Chief Operating Officer
Mr Orest	Nbeduwa	Wisco	CEO
Catherine	Greengrass	WSP	Senior Environmental Consultan
Jared	O'Brien	WSP	Assistant Environmental Consultant
Mr Guv	Longomo	Xstrata Allovs	Environmental Coordinator
Mr Deon	Pistorius	Xstrata Allovs	Environmental Coordinator
Mr Neels	Cornelius	Xstrata South Africa (Pty) Ltd	Secretary
Mr George	King	Xstrata South Africa (Pty) Ltd	
Mr G A	Nape	Xstrata: Madibana Community Developmnent Committee	Community Secretary
Mr Herber	Modupi	Yamedupi	Public Participant Practioner
Enoch	Rampete	Youth Sunrise Ext 9	
Mr	Modise	Mfidike Primary School	-
Mr	Molefe	Thekwane Tlhage Primary School	
Ratau	Seabelo	Anglo Platinum	Metallurgical Engineer
Piet	Botha	Anglo Platinum	UG2 Concentrator
Plei			
Angelic			
	Gous -	Andio Platinum Andio Platinum	UG2 Concentrator Administrator Fraser Alexander

## 4.2 Site Notices



# **ENVIRONMENTAL AUTHORISATION**





Notice of environmental authorisation process, environmental management programme amendment and a water use license amendment in accordance with the National Environmental Management Act (No. 107 of 1998) as amended (NEMA), the Minerals and Petroleum Resources Development Act (No. 28 of 2002) (MPRDA), and the National Water Act (No. 36 of 1998) (NWA).

#### **Proponent:**

Anglo American Platinum Limited: Rustenburg Platinum Mines Limited Environmental Authorisation Processes for the proposed Re-mining of Anglo American Platinum Waterval Tailings Storage Facilities located in Rustenburg, North West Province.

Rustenburg Platinum Mines (RPM) located in Rustenburg in the North West Province propose to re-mine the Waterval Tailings Storage Facilities for reprocessing at the Western Limb Tailings Retreatment (WLTR) Facility. The project includes the proposed construction of a pipeline, a pump station, a pretreatment plant with a pumpstation, a booster station, a pollution control dam, an increase in the height of the Hoedspruit Tailings Storage Facility and the installation of IsaMills<sup>™</sup> | within Mainstream Inert Grinding (MIG) applications within the existing WLTR. The re-mined material will be piped to and processed at the existing WLTR Plant. The construction and the operational phases of the project are expected to commence in Q4 of 2013 and Q1 of 2015, respectively.

The project involves activities listed in terms of the National Environmental Management Act (NEMA) (No. 107 of 1998), water uses listed in the National Water Act (No. 38 of 1998) (NWA) and requirements of the Mineral and Petroleum Resource Development Act (No. 28 of 2002) (MPRDA). In accordance with NEMA, the undertaking of certain listed activities requires environmental authorisation. The listed activities associated with the Re-mining project are as follows: Activity 9, 10, 11, 18, 22, 23 and 47. Additionally, Activity 6 of Government Notice Regulation 545 was identified which requires a Scoping and Environmental Impact Assessment (EIA) Process to be undertaken. An application for environmental authorisation was submitted to the North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) on 21 August 2012.

In addition, water uses 21 (c), (i) and (g), listed under Section 21 of the NWA are relevant and will require authorisation from the Department of Water Affairs (DWA) in the form of an amendment to the existing Integrated Water Use License. name, contact information and interest in the matter to Jared O'Brien.

#### WHAT IS STAKEHOLDER ENGAGEMENT?

A process in which potential stakeholders are informed about the project and given an opportunity to comment on, or raise issues relevant to the proposed activities.

#### WHO ARE STAKEHOLDERS?

Any person, group of persons or organisation interested in and / or affected by an activity; and any organ of state that may have jurisdiction over any aspect of the activity.

#### **SCOPING REPORT**

The Scoping Report will be made available for public review at the following venues from 29 November 2012 – 27 January 2013:

- Thekwane Tlhage Primary School;
- Mfidike Primary School;
- Fraser Alexander Offices at Waterval TSFs;
- Tlhabane Public Library;
- Rustenburg Local Municipality;
- Western Limb Tailings Retreatment Facility.

#### **PUBLIC MEETINGS**

The Public Meeting will be held at the Tshukudu High School on Wednesday the 16th of January 2013 from 16:00pm to 17:30pm.

Should you wish to attend one of the Public Meetings, please respond to Jared O'Brien by 07 January 2013.

Project Location: Waterval Tailings ±4km's East of Rustenburg

Project Start Point: 25°39'23.12"S 27°18'21.34"E

#### Project End Point: 25°41'09.92"S 27°23'48.98"E

Independent Environmental Assessment Practitioner: WSP Environment and Energy Furthermore, as the proposed project is located in a mine lease area, RPM is required to undertake an Environmental Management Programme Report (EMPR) Amendment process according to the MPRDA.

In order to ensure that you are registered as a Stakeholder or would like to participate and find out more about the project, please submit your FOR MORE INFORMATION, OR TO REGISTER AS AN INTERESTED OR AFFECTED PARTY, CONTACT:

Jared O'Brien WSP Environment and Energy

- **T** 011 361 1396
- **F** 086 505 3939
- E Jared.OBrien@WSPgroup.co.za

PO Box 5384, Rivonia, 2128



## **PLATINUM**



# **THEBOLO YA TIKOLOGO**





Notice Kitsiso ya tsamaiso ya thebolo ya tikologo, phetolo ya pegelo ya lenaneo la taolo ya tikologo le phetolo ya laesense ya tiriso ya metsi go ya ka Molaotlhomo wa Naga wa Taolo ya Tikologo (No. 107 wa 1998) o tlhabolotswe (NEMA), Molaotlhomo wa Tlhabololo ya Ditlamelwa tsa Diminerale le Peteroliamo (No. 28 wa 2002) (MPRDA), le Molaotlhomo wa Metsi wa naga (No. 36 wa 1998) (NWA).

Tsamaiso ya Thebolo ya Tikologo malebana le Tshikhinyo ya go epa gape Ditlamelwapolokelo tsa Masaledi tsa Anglo American Platinum, Waterval tse di leng kwa Rustenburg mo Porofenseng ya Bokonebophirima.

Ditirelo tsa moepo tsa Rustenburg Platinum Mines (RPM) tse di kwa Rustenburg mo Porofenseng ya Bokonebophirima, e tshikhinya go epa gape Ditlamelwapolokelo tsa Masaledi tsa Waterval ka maikaelelo a go di tsweletsa kwa Madirelong a Western Limb Tailings Retreatment (WLTR). Porojeke e akaretsa tshikhinyo ya go aga metato ya dipeipi, seteišene sa pompo, polante ya paakanyetso, seteišenetsosoloso, tamotshoganyetso ya bodutiso jwa diela, tamo ya taolo ya kgotlelego, kgodiso ya bogodimo jwa Ditlamelwapolokelo tsa Masaledi tsa Hoedspruit, le tlhomo ya IsaMills<sup>TM</sup> | mo ditirisong tsa Kelelokgolong e e Emeng ya Tshilo (MIG) mo go WLTR e e leng teng. Dilwana tse di tla epiwang gape di tla ntshiwa ka dipeipi mme tsa tsweletswa kwa polanteng e e teng ya WLTR. Go solofetswe gore tiro ya go aga e fitlhe pheletsong ka 2014 e be porojeke e simolola ka 2015.

Porojeke e akaretsa ditiro tse di neetsweng go ya ka Molaotlhomo wa Naga wa Taolo ya Tikologo (NEMA) (No. 107 wa 1998), tiriso ya metsi e e neetsweng mo go Molaotlhomo wa Naga wa Metsi (No. 38 wa 1998) (NWA), le ditlhokego tsa Molaotlhomo wa Tlhabololo ya Ditlamelwa tsa Diminerale le Peteroliamo (No. 28 wa 2002) (MPRDA). Go ya ka NEMA, tiragatso ya ditiro dingwe tse di naneofaditsweng e tlhoka thebolo ya tsa tikologo. Ditiro tse di kwadilweng tse di tsamaelanang le porojeke ya go epiwa gape ke tse di latelang: Tiro 9, 10, 11, 18, 22, 23 le 47. Go feta fa, Tiro 6 ya Kitsiso ya Molawana wa Puso wa 545 e lemogilwe, e e tlhokang Tsamaiso ya Tlhatlhobo ya Boalo jwa Seabe go Tikologo (EIA). Go tsentswe kopo ya thebolo ya tikologo go Lefapha la Tlhabololo ya Ikonomi, Tikologo, Tsholo le Bojanala la Porofense ya Bokonebophirima, (NWDEDECT) ka la 21 August 2012.

tshedimosetsokgokagano mmogo le kgatlhego mo kgannye e, ka Letlha le le neetsweng, go Jared O'Brien.

#### **BOTSAAKAROLO JWA MONG KE BOFE?**

Tsamaiso e mo go yona beng ba ba akanyetswang ba itsisiweng ka ga porojeke le go neelwa tšhono ya go tshwaela kgotsa go neela dintlha malebana le ditiro tse di tshikhinngwang.

#### **BENG KE BOMANG?**

Mongwe fela, setlhopha sa batho kgotsa setlamo se se nang le kgatlhego go, e bile/kgotsa se amiwa ke tiro; sere sa puso se se nang le tisosemolao mo karolong nngwe ya tiro e.

#### **PEGELO YA BONAMO**

Pegelo ya Bonamo e tlaa neelwa morafe go thadisiwa kwa mafelong a a latelang: 29 November 2012 - 27 January 2013:

- Sekolopotlana sa Thekwane Tlhage;
- Sekolopotlana sa Mfidike;
- Fraser Alexander Dikantoro kwa Waterval TSFs;
- Tlhabane Librarya ya botlhe;
- Rustenburg Masepala wa selegae;
- Ditabakelo tsa Bophiriwa Limb Tailings Retreatment Facility.

#### **DIPITSO TSA BOTLHE**

Sekolo se segole sa Tshukudu (16/01/2013, 16:00pm - 17:30pm)

Fa o tlhoka kaelotsela go ya go lengwe la mafelo a, tsweetswee romela kopo go Jared O'Brien (07 January 2013).

Mothagisi: **Anglo American Platinum Limited: Rustenburg Platinum Mines Limited.** 

**Project Location:** Waterval Tailings ±4km's East of Rustenburg

Ntlhatshimololo ya Porojeke: 25°39'23.12"S 27°18'21.34"E

Ntlhapheletso va Porojeke: 25°41'09.92"S 27°23'48.98"E

Modiredi yo o ikemetseng wa Tlhatlhobo ya tsa Tikologo: WSP Tikologo le Maatla

Go tlaleletsa fa, tiriso ya metsi ya 21 (b), (c) le (i), tse di kwadilweng mo go Karolo 21 ya NWA, e ka nna maleba mme e ka tlhoka thebolo go tswa go Lefapha la tsa Metsi (DWA) ka tsela ya laesense ya tiriso ya metsi e ntšhwa kgotsa e e tlhabolotsweng, kgotsa thebolokakaretso.

Go tlaleletsa fa, ka gobo porojeke e e tshikhinngwang e le mo karolokhirong ya moepo, RPM e tlhoka go dira tsamaiso ya Paakanyo ya Pegelo ya Lenaneo la Taolo (EMPR) go ya ka MPRDA.

Go netefatsa gore o ikwadisitse jaaka Mong, kgotsa go bona tse dingwe malebana le porojeke, tsweetswee neela leina la gago,

**GO BONA TSHEDIMOSETSO E NNGWE, KGOTSA GO IKWADISA JAAKA MOTHO YO O NANG LE KGATLHEGO KGOTSA YO O** AMEGANG, GOKAGANA LE:

Jared O'Brien WSP Tikologo le Maatla

- **T** 011 361 1396
- **F** 086 505 3939
- E Jared.OBrien@WSPgroup.co.za

PO Box 5384, Rivonia, 2128



4.3 Background Information Document

Environmental Authorisation Processes for the proposed Re-processing of Anglo American Platinum Waterval Tailings Storage Facilities located in Rustenburg, North West Province

## **Detailed Project Description**

Anglo American Platinum Limited: Rustenburg Platinum Mines (RPM) mining operations are located in Rustenburg, in the North West Province. The Waterval Tailings Storage Facilities (TSFs), which are positioned in the RPM lease area, are located 4 km east of Rustenburg, 1.5 km west of Bokamoso, 3.5 km north of Waterkloof and 3.5 km south of Boitekong. The Waterval TSFs (East and West facilities) were previously used to deposit tailings material from mineral processing operations. Following tests conducted on the Waterval tailings, latent reserves have been identified that warrant the re-processing of the tailings. The re-processing of the Waterval TSFs was authorised by the Department of Minerals and Energy (now the Department of Mineral Resources) as part of an amendment to the existing Environmental Management Programme (EMPR) in 2002. Although authorised, the re-processing of the Waterval tailings has not yet commenced. Recent changes to proposed infrastructure and the layout of the project require the EMPR to be amended again. Additionally, some of the changes involve activities for which environmental authorisation from the North West Provincial Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be required.

The re-processing involves the use of hydraulic hoses, which sluice the face of the tailings. The resulting slurry collects in a sump via a system of drains or launders and into a collection sump. The West TSF will be processed in three benches, namely an upper, middle and lower bench, each 14 m, 12 m and 12 m in height respectively. The East TSF will be processed in two benches, an upper and lower bench, each being 12 m in height. The slurry will then be pumped (via a proposed pump station) through a proposed pipeline to the Western Limb Tailings Retreatment (WLTR) Plant. The project thus includes the proposed construction of a pipeline, a pre-treatment plant with a pump station, a booster station, a Pollution Control Dam and the installation of IsaMills<sup>™</sup> within Mainstream Inert Grinding (MIG) applications.

A pre-treatment plant will be incorporated into the pump station, including a receiving facility, screening, surge tanks and thickeners, which are proposed to pre-treat the slurry before piping it to the WLTR Plant. The pre-treatment plant will also be used for water recovery prior to piping the slurry to the WLTR plant.

At the WLTR plant, the minerals contained in the tailings material will be extracted from the slurry. The WLTR Plant was initially constructed to re-treat tailings material from the Klipfontein TSF, which is located 6 km south east of the Waterval TSFs. The re-processing of the Klipfontein TSF is expected to reach completion in 2014, at which point the re-processing of the Waterval TSFs will be initiated.

The process, design and layout changes to the re-processing of the Waterval TSFs project include: a change to the location of the proposed pump station with the inclusion of a pre-treatment plant; the construction of at least one booster pump station along the pipeline, an amendment to the proposed pipeline route; the construction of a pollution control dam (PCD); and the addition of 4 IsaMills<sup>TM</sup> within Mainstream Inert Grinding (MIG) applications in the WLTR Plant facility. Refer to Locality Map A for a site location and proposed layout plan. The IsaMills will increase the efficiency of the WLTR by grinding the tailings material to a finer grade. The MIG Plants therefore increase the percentage of the precious metals and base metals that can be extracted from the tailings material.

**WSP Environment and Energy (WSP)** was appointed as the independent environmental assessment practitioner to undertake the environmental authorisation process for the project and to facilitate stakeholder engagement.





#### Purpose of this Document

This background information document (BID) introduces all stakeholders to the proposed project. This document forms part of the stakeholder consultation process, undertaken as a component of the environmental authorisation process and is intended to provide stakeholders with adequate information to comment on the project.

The BID details the project, the environmental authorisation process, the role of stakeholders in the process as well as to encourage stakeholders to comment on the project, ask questions and raise issues that should be included in the project documents. Aside from this document, at various stages of the environmental authorisation process, information and reports will be made available for stakeholders to comment on.

#### Legal framework

Ι.

In accordance with National Environmental Management Act (No. 107 of 1998) as amended (NEMA) Environmental Impact Assessment Regulations (EIA) 2010, Government Notices (GNs) 544 and 545, the undertaking of certain listed activities requires environmental authorisation.

The activities listed in GN 544 associated with the proposed project include:

- Activity 9: The construction of facilities or infrastructure exceeding 1000 metres in length for the bulk transportation of water, sewerage or storm water-
  - With an internal diameter of 0.36 metres or more; or
  - II. With a peak throughput of 120 litres per second or more,
- Activity 10: The construction of facilities or infrastructure for the transmission and distribution of electricity (i) outside urban areas or industrial complexes with a capacity of more than 33 kV but less than 275 kV; or (ii) inside urban areas or industrial complexes with a capacity of 275 kV or more.
- Activity 11 (iii):The construction of bridges or infrastructure where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.
- Activity 18 (i): The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock or more than 5 cubic metres from a watercourse;
- Activity 22: The construction of a road, outside urban areas,
  - I. With a road reserve wider than 13.5 metres or,
- II. Where no reserve exists where the road is wider than 8 metres.
- Activity 23: The transformation of undeveloped, vacant or derelict land to-
  - I. Residential, retail, commercial, recreational, industrial or institutional use, inside an urban area, and where the total area to be transformed is 5 hectares or more, but less than 20 hectares, or
  - II. Residential, retail, commercial, recreational, industrial or institutional use, outside an urban area, and where the total area to be transformed is bigger than 1 hectare but less than 20 hectares.
- Activity 47: The widening of a road by more than 6 meters, or the lengthening of a road by more than 1 kilometre (i) where the existing reserve is wider than 13.5 meters; or (ii) where no reserve exists, where the existing road is wider than 8 meters excluding widening or lengthening occurring inside urban areas.

The activity listed in GN 544 associated with the proposed project is Activity 6 (ii): The construction of facilities or infrastructure for the bulk transportation of dangerous goods – In liquid form, outside an industrial complex, using pipelines, exceeding 1000 metres in length, with a throughput capacity of more than 50 cubic metres per day. Application for environmental authorisation for activities listed in GN 545 requires that a Scoping and EIA process be undertaken.

The proposed pipeline route will cross a watercourse, and a new proposed pollution control dam and an emergency slurry catchment dam will be constructed. The following water use activities listed under Chapter 4, Section 21 of the National Water Act (No. 38 of 1998) (NWA) are considered relevant and will require authorisation in the form of an amended to the existing Integrated Water Use Licence (WUL):

- 21 (c): impeding or diverting the flow of water in a watercourse
- 21 (i): altering the bed, banks, course or characteristics of a watercourse
- 21 (g): disposal (storage) of water containing waste.

The proposed project is located in a mine lease area however, certain components fall on land not owned by the RPM. The RPM is required to undertake an Environmental Impact Assessment Report and Environmental Management Programme Report (EMPR) Amendment process, in line with the Minerals and Petroleum Resource Development Act (No 28 of 2002) (MPRDA). The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT), the North West Department of Mineral Resources (NWDMR), and the Department of Water Affairs (DWA) will be responsible for authorising the NEMA EIA process, the EMPR Amendment and the Integrated WUL amendment process respectively.





#### Stakeholder Consultation Process

The purpose of stakeholder engagement is to consult with interested and affected parties in the public and private sectors in the decision-making process on projects which may affect them. The process aims to develop and maintain open channels of communication between the project team and stakeholders. This process provides stakeholders with the opportunity to express their views and concerns regarding the proposed project through project correspondence. The environmental assessment practitioner documents the views and concerns of stakeholders, and makes the project team and relevant authority aware of issues that need to be considered during the compilation and evaluation of the potential risks and impacts associated with the project.

#### Who is a Stakeholder?

Any person, group of persons or organisation interested and/or affected by the proposed development.

To become a registered stakeholder and to receive further correspondence about the EIA/EMPR Amendment process, or to provide comment on the proposed project, kindly send your contact details and comments to Jared O'Brien:

Tel: Fax: Address: Email: 011 361 1396 086 505 3939 P.O. Box 5384, Rivonia, 2128 Jared.OBrien@wspgroup.co.za

A comment sheet has is attached to this document for vour convenience.

#### Stakeholder Engagement

The first steps are to notify the public and identified stakeholders of the proposed project and invite all stakeholders to public meetings through the following mediums:

Newspaper advertisements in the Daily Sun and Rustenburg Herald on 29 November 2012;

- Site notices in and around the project area on 28 November 2012;
- Written notification letters to surrounding landowners and municipal ward councillors on 28-29 November 2012; and
- Distribution of the BID to stakeholders 28 November 2012.

#### **PUBLIC MEETING**

A public meeting will be held in order to outline the details of the project to stakeholders and provide an opportunity for stakeholders to raise questions and indicate potential issues or risks associated with the project.

The Public Meeting will be held at the Tshukudu High School on Wednesday the 16<sup>th</sup> of January 2013 from 16:00pm to 17:30pm.

Should you wish to attend one of the Public Meeting, please respond to Jared O'Brien by 07 January 2013.

#### Scoping Report and EIAR/EMPR Amendment Report for Public Review

A Scoping Report will be compiled in accordance with the NEMA and the MPRDA, and will outline the process that will be followed for stakeholder engagement and for EIA Phase of the project. This report describes the receiving environment and will list the potential impacts of the project as identified in the Scoping Phase. The report will indicate the specialist studies (including methodologies) that will be undertaken to investigate identified impacts. The draft Scoping Report will be placed on public and state department review for a period of 40 days prior to submission to the NWDEDECT and the NWDMR.

#### PUBLIC REVIEW OF SCOPING REPORT

The Scoping Report will be made available for public review at the following venues from 29/11/2012 - 27/01/2013:

Thekwane Tlhage Primary School;

Mfidike Primary School;

UG2 Concentrator Reception;

Tlhabane Public Library in Rustenburg;

Rustenburg Local Municipality;

Western Limb Tailings Retreatment Facility.

Subsequent to the Scoping Report, an EIAR/EMPR Amendment report will be compiled. This report will outline the stakeholder consultation process and include all comments or issues raised during the process. Additionally, the report will rate the anticipated impacts against a ratings table in order to assess the severity, duration, extent and significance of the impact, and include any cumulative impacts on the receiving environment. Mitigation measures will be developed in order to minimise negative impacts associated with the project. The draft EIAR/EMPR Amendment will also be placed on public and state department review for a period of 40 days prior to submission to the NWDEDECT and the DMR.

Kindly register with Jared O'Brien in order to receive information about the location of the draft reports and review period via email, facsimile, telephone, registered mail and/or SMS. Any comments received will be addressed and included in the report prior to the final drafts being submitted to the responsible departments for review and authorisation.





## **Registration and Comments Sheet**

To be a registered stakeholder and ensure all comments and queries regarding this project are accurately documented and addressed please forward your comments and contact details with the attached response sheet to:

Jared O'Brien WSP Environmental (Pty) Ltd Address: P.O. Box 5384, Rivonia, 2128 Tel: 011 361 1396 Fax: 086 505 3939 Email: Jared.OBrien@wspgroup.co.za

Please insert your personal details below:

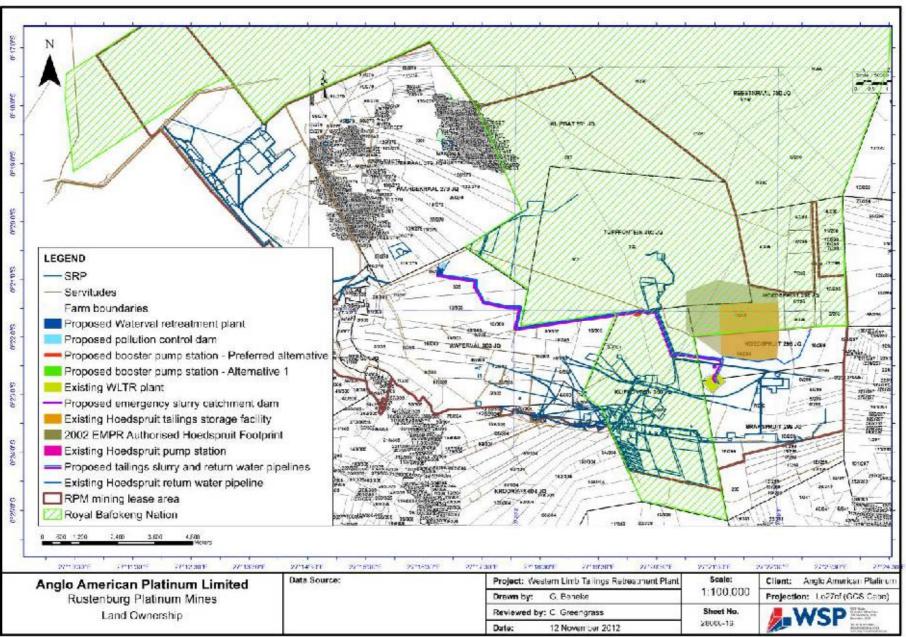
Name:	
Organisation & Designation:	
Address:	
Tel:	
Fax:	
E-mail:	

Please list your interest in the project and comments below:





## Locality Map A







Tsamaiso ya Tumelelo ya Tikologo malebana le tshikhinyo ya go Epa gape Ditirelopolokelo tsa Masaledi a Waterval, tsa Anglo American Platinum tse di fitlhelwang kwa Rustenburg, mo Porofenseng ya Bokonebophirima

## DOKHIUMENTETSHEDIMOSETSO YA LEMORAGO

### Tlhaloso ka botlalo ya Porojeke

Anglo American Platinum Limited: Rustenburg Platinum Mines (RPM) e fithelwa gaufi le Rustenburg, mo Porofenseng ya Bokonebophirima. Ditirelopolokelo tsa Waterval Tailings (diTSF), tse di fithelwang mo karolong ya khiro ya RPM, di fithelwa 4 km kwa botlhaba jwa Rustenburg, 1.5 km kwa Bophirima jwa Bokamoso, 3.5 km kwa bokone jwa Waterkloof le 3.5 km kwa borwa jwa Boitekong. Kwa tshimologong diTSF tsa Waterval (Ditirelo tsa Botlhaba le Bophirima) di ne di dirisediwa go boloka masaledi go tswa go ditiro tsa tsweletso ya diminerale. Morago ga diteko tse di dirilweng ka ga masaledi a Waterval, go lemogilwe dirasefe tse di leng teng, tse di tlhotlheleditseng gore go epiwe gape masaledi a.

Go epiwa sešwa ga diTSF go rebotswe ke Lefapha la Diminerale le Maatla (le gajaana le bidiwang Lefapha la Ditlamelwa tsa Diminerale), e le karolo ya tlhabololo ya Lenaneo la gajaana la Taolo ya Tikologo (EMPR), ka ngwaga wa 2002. Le fa go rebotswe, go epiwa gape ga masaledi a Waterval ga go ise go simolole. Diphetogo tsa gajaana malebana le dithulaganyetso tse di tshikhinngwang mmogo le bonamo jwa porojeke di tlhoka gore EMPR e tlhabololwe gape. Go feta fa, diphetogo dingwe di akaretsa ditiragalo tse di tlhokang thebolo ya tsa tikologo go tswa go Lefapha la Ikonomi le Tlhabololo, Tikologo, Pabalelo le Bojanala, la Porofense ya Bokonebophirima (NWDEDECT).

Tsamaiso ya go epa gape e akaretsa tiriso ya megogoma ya hæderoliki, e e tlholang 'morwalela' wa seela godimo ga masaledi a. Diela tse di epa meselo mme di kokoanela mo megobeng. TSF ya Bophirima e tla epiwa ka dikgato di le tharo, e bong kgato ya godimo, ya magareng le ya tlase, nngwe le nngwe e le bogodimo jwa 14 m, 12 m le 12 m ka tatelano eo. TSF ya Botlhaba e tla epiwa ka dikgato di le pedi, kgato ya godimo le ya tlase, nngwe le nngwe e le bogodimo jwa 12 m. Seela se tla pompiwa ( ka tiriso ya seteišene se se tshikhinngwang sa pompo), ka moselo wa peipi o o tshikhinngwang go ya kwa Polanteng ya Western Limb Tailings Retreatment (WLTR). Ka jalo porojeke e e akaretsa kago e e tshikhinngwang ya mogogoma. seteišene sa go pompela, polante e e baakanngwang, seteišene sa busetara, Tamo ya Talo ya Kgotlelego mmogo le tlhomo ya The IsaMills<sup>TM</sup> mo tirisong ya " Mainstream Inert Grinding (MIG)".

Polante ya paakanyetso e tla akarediwa le seteišene sa pompo, go akarediwa le tirelokamogelo, kanoko, ditanka tsa kgogomogo le digogomosi, tse di tshikhinngwng gore di baakanyetse seela pele se pompelwa mo polanteng ya WLTR.

Kwa planting ya WLTR, dimenerale tse di mo dilwaneng tsa masaleding di tla ntshiwa mo seeleng. Kwa tshimologong polante ya WLTR e ne e agetswe go baakanyetsa dilwana tsa masaledi go tswa go TSF ya Klipfontein, e e leng 6 km kwa borwabotlhaba jwa diTSF tsa Waterval. Go epiwa gape ga TSF ya Klipfontein go lebeletswe go konosediwa ka 2014, fa go tla bong go simololwa go epiwa gape ga diTSF tsa Waterval.

Diphetogo tsa tiragatso e, tlhamo le boalo tsa go epiwa gape ga porojeke ya diTSF tsa Waterval di akaretsa: phetolo ya lefelo la seteišene se se tshikhinngwang sa pompo, go akarediwa le polante ya paakanyetso; kago ya seteišenetsosololso se le sengwe go bapa le moselo wa peipe, phetogo ya tsela ya moselo wa peipe; kago ya tamo ya taolo ya kgotlelego (PCD); le koketso ya 4 IsaMills<sup>TM</sup> mo tirelong ya tshilo e e emeng (MIG) ya polante ya WLTR. Tlhola Mmapa wa Selegae wa A malebana le lefelo la setsha le thulaganyo ya boalo. IsaMills e tla godisa bokgoni jwa WLTR ka go sila dilwana tsa masaledi gore di nne boleng jo bo tlhotlhwa. Ka jalo Dipolante tsa MIG di oketsa peresente ya metale e e ka ntshiwang go dilwana tsa masaledi.

WSP Environment & Energy (WSP) e tlhophilwe go nna modiredi yo o ikemetseng wa tlhatlhobo ya tikologo go diragatsa thebolo ya porojeke le go tsamaisa botsayakarolo jwa beng.





### Maikaelelo ka Dokhiumente e

Dokhiumente e ya tshedimosetso ya lemorago (BID) e itsise beng botlhe ka ga porojeke e e tshikhinngwang. Dokhiumente e ke karolo ya tiragatso ya therisano le beng, e le karolo ya tsamaiso ya thebolo ya tikologo, mme maikaelelo ka ga yona ke go neela beng tshedimosetso e e lekanetseng gore ba kgone go tshwaela malebana le porojeke.

BID e neela dintlha tsa porojeke ka botlalo, tsamaiso ya thebolo ya tikologo, mmogo le seabe sa beng mo tsamaisong e, le go rotloetsa beng go tshwaela malebana le porojeke, le go botsa dipotso kgotsa go neela dintlha tse di tshwanetseng go akarediwa mo didokhiumenteng tsa porojeke. Kwantle ga dokhiumente e, go ya go neelwa tshedimosetso le dipegelo mo tsamaong ya dikgato tse di farologaneng tsa porojeke, malebana le tsamaiso ya thebolo ya tikologo, gore beng ba tshwaele.

### Letlhomeso la semolao

Go ya ka Molaotlhomo wa Naga wa Taolo ya Tikologo (No. 107 wa 1998) o o tlhabolotsweng (NEMA), Melawana ya Tlhatlhobo ya Seabe sa Tikologo (EIA) 2010, Dikitsiso tsa Puso (GNs) 544 le 545, ditiragatso tsa ditiro dingwe tse di naneofaditsweng di tlhoka thebolo ya tsa tikologo.

Ditirgatso tse di naneofaditsweng mo go GN 544 tse di amanang le porojeke e e tshikhinngwang di akaretsa:

- Tiro ya 9: Kago ya ditlamelwa kgotsa dithulaganyetso tse di fetang dimetara di le 1000 ka boleele malebana le go roriwa ga mothamo o mogolo wa -metsi, leswe le metsi a morwalela
  - I. Ka daemetha ya bogare ya dimetara di le 0.36 kgotsa go feta; kgotsa
  - II. Ka lebelolegolo la dilitara di le 120 kgotsa go feta ka motsotswana.
- Tiro ya 10: Kago ya ditlamelwa kgotsabdithulaganyetso malebana le tsamaiso le phatlalatso ya motlakase (i) ka fa ntle ga metsesetoropo kgotsa dikago tsa difaboriki tsa tekanyetso ya go feta 33 kV mme e le kwa tlase ga 275 kV; kgotsa (ii) mo metsesetoropong kgotsa difaboriking ka mothamo wa 275 kV kgotsa go feta.
- Tiro ya 11 (iii) ; Kago ya marogo kgotsa dithulaganyetso fao e leng gore kago e e diragala dimetara di le 32 gaufi le moedi, go lekanyetswa go tswa losing lwa moedi, kwantle ga fa kago e dirwa ka fa morago ga mola wa leparego lengwe.
- Tiro ya 18 (i): Go tsenngwa kgotsa go tlaleletswa ga dilwana tsa dikhiubiki tsa dimetara di le 5, kgotsa go epololwa le fa e le go tloswa ga mmu, santa, dikgetla matlapana kgotsa matlapa a go feta dikhiubiki tsa dimetara di le 5 go tswa bobolokelong;.
- Tiro ya 22: Kago ya tsela, ka fa ntle ga metsesetoropo,Activity 22:
  - I. Fao tsela e fetang bophara jwa dimetara di le 13.5 kgotsa,
- II. Fao go seng rasefe mo tsela e leng bophara bo fetang dimetara di le 8.
- Tiro ya 23: Tlhabololo ya naga e e sa tlhabologang, le le lolea, go nna-
  - I. Felo ga bodulo, ga kgwebo, ga boitapoloso kgotsa ga difaboriki kgotsa ditheo, mo motsesetoropong, fao lefelo le le tlhabololwang le leng bogolo jwa diheketara di le 5 kgotsa go feta, mme le le ka fa tlase ga diheketara di le 20, kgotsa
  - II. Tiriso ya lefelo ka bodulo, kgwebo, boitapoloso, difaboriki kgotsa ditheo, ka fa ntle ga metsesetoropo, fao lefelo le le tlhabololwang le leng legolo go heketara mme le le ka fa tlase ga diheketara di le 20.
- Tiro ya 47: Gooketsa bophara jwa tsela ka dimetara di feta 6, kgotsa go e leelefatsa ka go feta kilometara (i) fao rasefe e e leng teng e leng bophara jo bo fetang dimetara di le 13.5; kgotsa (ii) fao go se nang rasefe, mme tsela e e leng teng e le bophara jo bo fetang dimetara di le 8 kwantle ga fa koketso ya bophar kgotsa boleele e diragala ka fag are ga metsesetoropo.

Tiro e e boletsweng mo go GN 544 e e golaganang le porojeke e e tshikhinngwang ke Tiro ya 6 (ii): go agiwa ga ditlamelwa kgotsa dithulaganyetso malebana le go roriwa ga bontsi jwa dilwana tse di kotsi – e le diela, ka fa ntle ga madirelo a faboriki, go dirisiwa dipeipi tsa boleele jo bo fetang dimetara di le 1000, ka mothamo wa dikhiubiki tsa dimetara di le 50 ka letsatsi. Kopo ya thebolo ya tikologo ya ditiro tse di naneofaditsweng mo go GN 545 e tlhoka gore tsamaiso ya Scoping le EIA e diragadiwe.

Tsela e e tshikhinngwang ya metato ya dipeipi e tla kgabaganya moedi, mme tamo e ntšhwa e e tshikhinngwang ya taolo ya kgotlelego mmogo le bodutisotshoganyetso jwa diela di tla agiwa. Ditiriso tsa metsi tse di latelang, tse di neetsweng mo go Kgaolo 4, Karolo 21 ya Molaotlhomo wa Naga wa wa Metsi (No. 38 wa 1998) (NWA), di <u>ka</u>nna maleba mme di<u>ka</u> tlhoka thebolokakaretso kgotsa Laesense e ntšhwa/e e tlhabolotsweng ya tiriso ya metsi (WUL):

- 21 (b): bobolokelo jwa metsi,
- 21 (c): kganelo kgotsa phaposo ya kelo ya metsi mo moeding,
- 21 (i): phetolo ya losi kgotsa mabopo a moedi.

Porojeke e e tshikhinngwang e fitlhelwa mo karolokhirong ya mmaene, le Fa golejalo karolo dinngwe tsa lofase ha se tsa RPM. RPM e lebeletswe gone e kwale Pegelo ya Tlhatlhobo ya Seabe go Tikologo mmogo le Pegelo ya Lenaneo la Taolo ya Tikologo (EMPR) tsamaiso e e fetotsweng, go ya ka Molaotlhomo wa Tlhabololo ya Ditlamelwa tsa Peteroliamo le Diminerale (no. 28 wa 2002) (MPRDA). Lefapha la Ikonomi le Tlhabololo, Tikologo, Pabalelo le Bojanal la Porofense ya Bokonebophirima (NWDEDECT), Lefapha la Ditlamelwa tsa Diminerale la Bokonebophirima (NWDMR), mmogo le Lefapha la Ditirelo tsa Metsi(DWA) a tla rwala boikarabelo jwa go rebola tsamaiso ya NEMA EIA, Tlhabololo ya EMPR mmogo le WUL ka tatelano eo.





#### Tsamaiso ya therisano ya beng

Maikaelelo ka go akaretsa le beng ke go rerisana le ditokololo tse di amegangmo maphateng a bothe le a poraefete malebana le tsamaiso ya go tsaya tshwetso malebana le diporojeke tse dib a amang. Tsamaiso e e ikaelela go godisa le go tshola tlhaeletsano magareng a setlhopha sa porojeke le beng. Tsamaiso e e neela beng tŠhONO ya go tlhagisa dikakanyo le tshwenyego ya bona malebana le porojeke e e tshikhinngwang ka mosele wa tlhaeletsano. Modiredi wa tlhatlhobo ya tikologo o kwala dikakanyo le tshwenyego ya beng, mme o tsibosa setlhopha sa porojeke mmogo le bathati ba ba maleba malebana le dintlha tse di tlhokang go tsewa tsia ka nako ya kokoanyo ya dintlha tsa kotsi le seabe tse di amanang le porojeke.

#### Beng ke bomang?

Mongwe fela, kgotsa setlhopha sa batho le fa e le mokgatiho o o nang le kgatihego kgotsa o amega mo tihabololong e e tshikhinngwang.

Go nna mong yo o ikwadisitseng le go amogela thaeletsano ka ga tsamaiso ya Tlhabololo ya EIA/EMPR, kgotsa go tshwaela malebana le porojeke e e tshikhinngwang, tsweetswee romela dintlha tsa gago tsa thaeletsano le tshwaelo ya gago go Jared O'Brien: Tel: 011 361 1396 Fax: 086 505 3939 Address: P.O. Box 5384, Rivonia, 2128 Email: Jared.OBrien@wspgroup.co.za

Papetlana ya ditshwaelo e mametleletswe mo dokhiumenteng e go go thusa.

### Botsaakarolo jwa Beng

Kgato ya ntlha ke go itsise morafe le beng ba ba lemogilweng, malebana le porojeke e e tshikhinngwang, le go laletsa beng botlhe pitso, ka meselo e e latelang:

- Papatso ya kuranta mo go Daily Sun le Rustenburg Herald ka la 29 Ngwanatsele 2012;
- Dikitsiso mo setsheng le mo karolong ya porojeke ka la 28 Ngwanatsele 2012;
- Makwalokitsiso go benglefatshe ba ba mabapi le bakhanselara ka la 28-29 Ngwanatsele 2012; le
- Phasalatso ya BID go beng ka la 28 Ngwanatsele 2012.

#### **DIPITSO TSA BOTLHE**

Dipitso tsa botlhe di tshwarwa go tlhalosetsa beng diteng tsa porojeke le go ba neela tšhono ya go botsa dipotso le go supa dintlha le kotsi tse di tsamaelanang le porojeke. Ka jalo beng ba biletswa pitsong e:

Sekolo se segole sa Tshukudu (16/01/2013, 16:00pm - 17:30pm)

Fa o thoka kaelotsela go ya go lengwe la mafelo a, tsweetswee romela kopo go Jared O'Brien (07/01/2013).

### Pegelo ya Bonamo le pegelo ya Paakanyo ya EIAR/EMPR go thadiswa ke morafe

Pegelo ya bonamo e tla kokoanngwa go ya ka NEMA le MPRDA, mme e tla tlhalosa tsamaiso e e tla latelwang malebana le seabe sa beng mo Kgatong ya EIA ya porojeke. Pegelo e, e tlhalosa tikologokamogelo mme e tla neela lenaneo la seabe sa diporojeke jaaka se lemogilwe mo kgatong ya Bonamo. Pegelo e tla supa tshekatsheko ya baitseanape (go akarediwa mekgwatshekatsheko), e e tla dirwang go batlisisa seabe se se lemogilweng. Pegelotlhomo ya Bonamo e tla neelwa morafe le mafapha a puso malatsi a le 40 pele e ka neelwa NWDEDECT le NWDMR.

### TTHADISO YA MORAFE YA PEGELO YA BONAMO

Dikhophi tsa Pegelo ya Bonamo di tla neelwa morafe kwa mafelong a a latelang go simolola ka la 29/11/2012 – 27/01/2012:

- Sekolopotlana sa Thekwane Tlhage;
- Sekolopotlana sa Mfidike;
- Kantorong ya kamogelo ya UG2 Concentrator;
- Tlhabane Librarya ya botlhe, Rustenburg;
- Rustenburg Masepala wa selegae;
- Ditabakelo tsa Bophiriwa Limb Tailings Retreatment Facility.
- Fa o thoka kaelotsela go ya go lengwe la mafelo a, tsweetswee romela kopo go Jared O'Brien.

Morago ga Pegelo ya Bonamo, pegelo e e Baakantsweng ya EIAR/EMPR e tla kokoanngwa. Pegelo e, e tla thalosa tsamaiso ya kgokagano le beng mme e tla akaresa ditshwaelo tsothe kgotsa dintlha tse di runtseng ka nako ya tsamaiso e. Go feta fa, pegelo e tla leba kelo ya khuetso kgathanong le papetla ya kelo ka maikaelelo a go thathoba mothamo, paka le boleng jwa khuetso, mme e tla akaretsa khuetso yothe go tikologo e e amogelang. Dikgato tsa go timola bogale di tla tsewa go fokotsa seabe sa bosula malebana le porojeke. Paakanyothomo ya EIAR/EMPR e tla itsisiwe morafe le mafapha a puso go e thadisa malatsi a le 40 pele e neelwa NWDEDECT le DMR.

Tsweetswee ikwadise le Jared O'Brien gore o kgone go amogela tshedimosetso malebana le mafelo a dipegelo le paka ya thadiso ka imeile, fekese, mogala, poso kgotsa /le SMS. Ditshwaelo tsotlhe tse di amagelwang di tla lejwa le go akarediwa mo pegelong pele pegelotlhomo ya bofelo e neelwa mafapha a a maleba go thadisiwa le go rebolwa.





# Ikwadiso le Ditshwaelo ppSheete

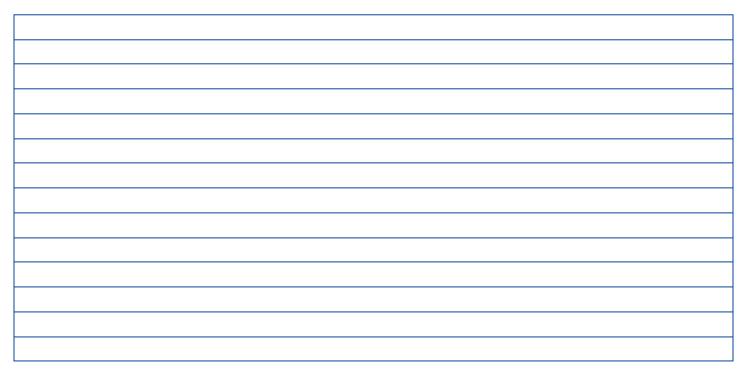
Gore o nne mong yo o kwadisitsweng le go tlhomamisa gore ditshwaelo le dipotso tsotlhe malebana le projeke e di tshotswe le go lejwa ka tlhomamo, tsweetswee romela ditshwaelo tsa gago le dintlha tsa tlhaelesano mmogo le papetlana e e mametleletsweng go:

Jared O'Brien WSP Environmental (Pty) Ltd Aterese: P.O. Box 5384, Rivonia, 2128 Mog.: 011 361 1396 Fekese: 086 505 3939 Imeile: Jared.OBrien@wspgroup.co.za

### Tsweetswee kwala dintlhanaikitsiso tsa gago fa tlase:

Leina:	
Setlamo le Maemo:	
Aterese:	
Mog:	
Fekese:	
Imeile:	

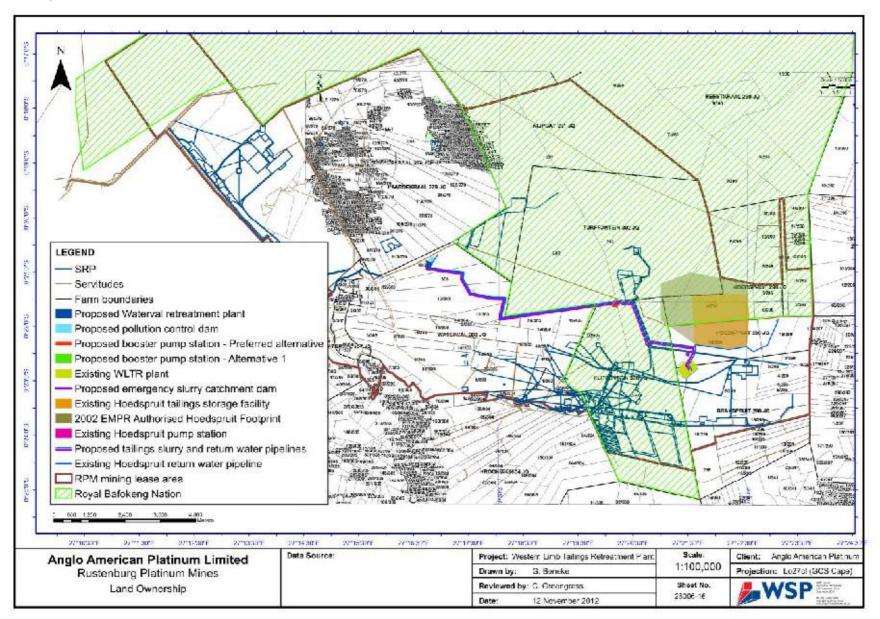
Tsweetswee kwala dikgatlhego tsa gago mo porojekeng mmogo le ditshwaelo fa tlase:







### Mmapa wa Lefelo A







## 4.4 Newspaper Adverts



### ENVIRONMENTAL AUTHORISATION

Notice of the Environmental Authorisation processes for the proposed re-processing of Anglo American Platinum Waterval Tailings Storage Facilities located in Rustenburg, North West Province.

Notice is hereby given in accordance with the National Environmental Management Act (No. 107 of 1996) as amended (NEMA) Environmental Impact Assessment (EIA) Regulations 2010, Government Notice Regulation (GN, H) 543, Section 21 of the National Water Act (No. 35 of 1995) (NWA), as well as the Mineral and Petroleum Resource Development Act (No 29 of 2002) (MPRDA) for the proposed re-processing of the Waterval Tailings Storage Facilities (TSFs) at the Angle American Platinum Limited: Rustenburg Platinum Mines Limited (RFM).

#### DESCRIPTION AND LOCATION

RPM mining operations are located in Rustanburg in the North West Province, RPM proposes to re-process the Waterval Tailings Storage Facilities. The project includes (but is not Initial to) the proposed on struction of a pipeline with a pump station, a pre-beatment plant, a possien station, a pollution control dam, an increase in the height of the Hoodsprut Takings Storage Facility and the installation of IsaMiIsTM within Manstream Inert Ginding (MG) applications within the existing Vestern Limb Tairogs Reliceatment (VLTR) Part. The tairings material will be piped to and processed at the existing WLTR Flant. The constructor and the operators! phases of ... the project are expected to commence in Q4 of 2013 and Q1 of 2015, respectively.

#### ENVIRONMENTAL APPLICATION

In accordance with the NEMA GN, R 543, the undertaking of certain listed activities requires environmental authorisation. The activities associated with the processed project listed in GN, R 544 include: Activity 9, 10, 11, 18, 22 and 23 and 47. Additionally, Activity 6 of GN, R 545 was identified which requires a Scoping and EIA Process to be undertaken. An spalication for authorsation was submitted to the North West Department of Economic Development, Environment, Conservation and Tourism on 21 August 2012.

Water uses 21 (c), (i) and (g), listed under Section 21 of the National Water Act (No. 35 of 1998) are considered relevant and will require authorisation from the DWA in the form of an amendment to the existing integrated Water Use License. The proposed project is located in a mine lease area however, certain components fall on land not owned by the RPM. The RPM is required to undertake an Environmental Management Programme Report Amendment process, in line with the MPRDA and its associated Regulations of 2004.

#### AVAIL IBILITY OF SCOPING REPORT

The Scooling report will be made available for public review at the following locations: Thelewane Tilhage Primary School, Mildike Primary School, Fraser Alexander Offices, Thabane Public Library, Rustenburg Local Munic pality, the WLTR facility, and on WSPs website (www.wsperwirenmental.com/ publicreview) from 29 November 2012 to 27 January 2013.

#### NAME OF PROPONENT

Anglo American Platinum Limitae, Rustenburg Platinum Mines Linited (RPM).

NAME OF CONSULTANT WSP Environment and Energy

Contact Person:

Jared O'Brien

T 011 361 1395 F 066 505 3639

Jared.08r en@WSPgrout.co.za E

FO Box 5384, Rivonia, 9198

REDISTER AS A STAKEHOLDER

To register as a stateholder, sieuse submit your name, contact information and informat in the matter to the Consultant.





### NOTICE OF A PUBLIC MEETING FOR ENVIRONMENTAL AUTHORISATION

Notice of a public meeting for the Environmental Authorisation Processes for the proposed re-processing of Anglo American Platinum Waterval Tailings Storage Facilities located in Rustenburg, North West Province.

Notice is hereby given in accordance with the National Environmental Management Act (No. 107 of 1998) as amended Environmental Impact Assessment Regulations 2010, Government Notice Regulation 543, Section 21 of the National Water Act (No. 38 of 1998), as well as the Mineral and Petroleum Resource Development Act (No. 28 of 2002) for a public meeting for the proposed re-processing of the Waterval Tailings Storage Facilities (TSFs) at the Anglo American Platinum Limited.

The public meeting will be held in order to outline the details of the proposed project to stakeholders and provide an opportunity for stakeholders to raise questions and indicate potential issues or risks associated with the proposed project.

#### DETAILS OF PUBLIC MEETING

Venue: Tshukudu High School Date: Wednesday 16 January 2013 Time: 16:00pm to 17:30pm

Should you wish to register as a stakeholder and/or attend the Public Meeting, please respond to Jared O'Brien prior to 16 January 2013.

#### NAME OF CONSULTANT WSP Environment and Energy Contact Person: Jared O'Brien

- T 011 361 1396
- F 086 505 3939
- E Jared OBrien@WSPgroup.co.za

PO Box 5384, Rivonia, 2128



4.5 Letters of Notification of EIA Process, Public / Focus Group meeting and Scoping Report for review

WSP Reference no: 28006 DEDECT ref no.: NWP/EIA/73/2012

29/11/2012

Dear Stakeholder

## Environmental Authorisation Processes for the proposed Re-processing of the Anglo American Platinum Waterval Tailings Storage Facilities located in Rustenburg, North West Province

Anglo American Platinum Limited: Rustenburg Platinum Mines Limited (RPM) is situated near Rustenburg, in the North West Province. The Waterval Tailings Storage Facilities (TSFs), which are positioned in the RPM lease area, are located 4 km east of Rustenburg, 1.5 km west of Bokamoso, 3.5 km north of Waterkloof and 3.5 km south of Boitekong. The Waterval TSFs (East and West dams) were previously used to deposit tailings material from mineral processing operations. Following tests conducted on the Waterval tailings, latent reserves have been identified that warrant the re-processing of the tailings. The re-processing of the Waterval TSFs was authorised by the Department of Minerals and Energy (now the Department of Mineral Resources) as part of an amendment to the existing Environmental Management Programme Report (EMPR) in 2002. Although authorised, the re-processing of the Waterval tailings has not yet commenced and recent changes to proposed infrastructure and the layout of the project require the EMPR to be amended again. Additionally, some of the changes involve activities for which environmental authorisation from the North West Provincial Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be required.

The re-processing activity involves the use of hydraulic hoses, which sluice the mining face of the tailings. The resulting slurry collects in a sump via a system of drains or launders. The launder will extend from the southern portion of each TSF toward the collection sump. Two satellite pump stations will be installed within the launders to ensure that the coarse washed material reaches the collection sump. The Western Dam will be mined in three benches, namely an upper, middle and lower bench, each 14 m, 12 m and 12 m in height respectively. The Eastern Dam will be mined in two benches, an upper and lower bench, each being 12 m in height. The slurry will then be pumped (via a proposed pump station) through a proposed pipeline to the Western Limb Tailings Retreatment (WLTR) Plant.

A pre-treatment plant will be incorporated into the pump station, including a receiving facility, screening, surge tanks and thickeners, which are proposed to pre-treat the slurry before piping it to the WLTR Plant. The pre-treatment plant will also be used for water recovery prior to piping the slurry to the WLTR plant. The pipeline route has been selected based on numerous determining factors, including gradient, land ownership, existing servitudes and land stability.

At the WLTR plant, the minerals contained in the tailings material will be extracted from the slurry. The WLTR Plant was initially constructed to re-treat tailings material from the Klipfontein TSF, which is located 6 km south east of the Waterval TSFs. The re-processing of the Klipfontein TSF is expected to reach completion in 2015, at which point the re-processing of the Waterval TSFs will be initiated.

The process, design and layout changes to the re-process of the Waterval TSFs project include: a change to the location of the proposed pump station with the inclusion of a pre-treatment plant; the construction of at least one booster pump station along the pipeline; the addition of two satellite pump stations within the launders; a pollution control dam; an amendment to the proposed pipeline route; an increase in the height of the Hoedspruit TSF to incorporate the tailings material from the re-processing of the Waterval TSF's and the addition of 4 IsaMills<sup>TM</sup> within Mainstream Inert Grinding (MIG) applications within the WLTR Plant facility. Refer to Appendix A: Locality Map for site location and the proposed layout plan.

In accordance with National Environmental Management Act (No. 107 of 1998) as amended (NEMA) Environmental Impact Assessment Regulations (EIA) 2010, Government Notices (GN. Rs) 544 and 545, the undertaking of certain listed activities requires environmental authorisation.

The activities listed in GN. R 544 associated with the proposed project include:

- Activity 9;
- Activity 10:
- Activity 11 (iii);
- Activity 18 (i);
- Activity 22;
- Activity 23; and
- Activity 47.

5 (ii): The Byarston Place Byarston Place 199 Bryarston Drive Byarston 2021 Tel: +27 (0)11 361 1380 Fax: +27 (0)11361 1381 http://www.wspenvironmental.co.za Reg. No: 1995/08790/07

> WSP Group plc Offices worldwide

The activity listed in GN. R 545 associated with the proposed project is Activity 6 (ii): The Byarston Dr construction of facilities or infrastructure for the bulk transportation of dangerous goods – In liquid Byarston, 2021



form, outside an industrial complex, using pipelines, exceeding 1000 metres in length, with a throughput capacity of more than 50 cubic metres per day. Application for environmental authorisation for activities listed in GN. R 545 requires that a Scoping and EIA process be undertaken.

The proposed pipeline route will cross a watercourse at three locations, and a proposed pollution control dam will be constructed. The following water use activities listed under Chapter 4, Section 21 of the National Water Act (No. 38 of 1998) (NWA) are relevant and will require authorisation in the form of an amendment to the existing Integrated Water Use License (WUL):

- 21 (c): impeding or diverting the flow of water in a watercourse,
- 21 (i): altering the bed, banks, course or characteristics of a watercourse, and
- 21 (g): disposing of waste in a manner which may detrimentally impact on a water resource.

The proposed project is located in a mine lease area however, certain components fall on land not owned by the RPM. The RPM is required to undertake an Environmental Management Programme Report (EMPR) Amendment process in conjunction with the Environmental Impact Assessment (EIA) process, which is in line with the Minerals and Petroleum Resource Development Act (No 28 of 2002) (MPRDA) and the NEMA, respectively. The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT), the North West Department of Mineral Resources (DMR), and the Department of Water Affairs (DWA) will be responsible for authorising the NEMA EIA process, the EMPR Amendment and the Integrated WUL amendment process respectively.

A Public meeting will be held in order to outline the details of the project to stakeholders and provide an opportunity for stakeholders to raise questions and indicate potential issues or risks associated with the project. The Public Meeting will be held at the Tshukudu High School on Wednesday the 16th of January 2013 from 16:00pm to 17:30pm.

Should you wish to attend the Public Meeting, please respond to Jared O'Brien by 07 January 2013.

Should you wish to register as a stakeholder, please submit your details to Jared O'Brien.

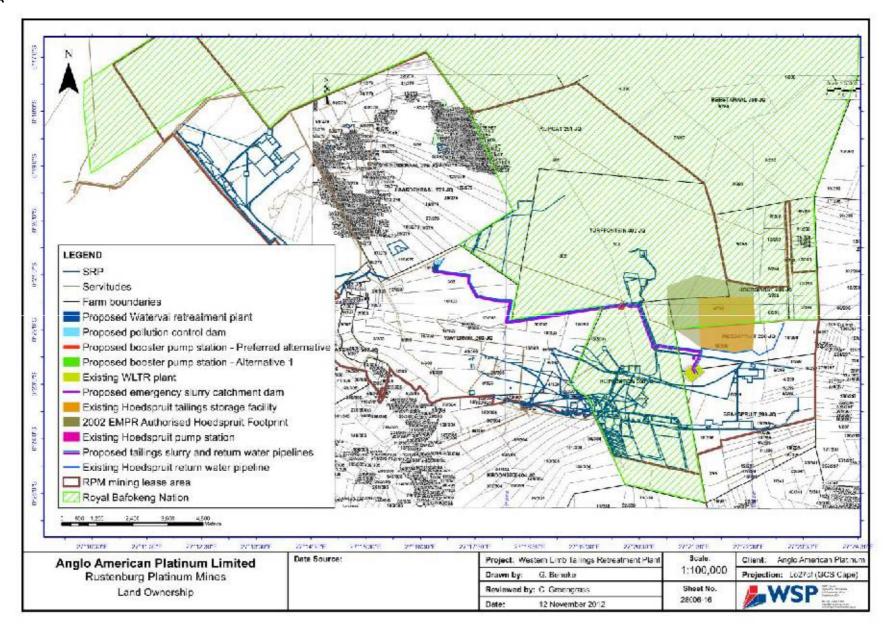
Should you have any questions, please do not hesitate to contact the undersigned.

Regards,

ana\_

Jared O'Brien Consultant Tel: 011 361 1396 Fax: 086 505 3939 Email: Jared.OBrien@wspgroup.co.za

#### Locality Map A



WSP Reference no: 28006



17/09/2012

Royal Bafokeng Holdings and Administration

To Whom it may concern

#### Landowner Notification; Environmental Authorisation Processes for the proposed Reprocessing of Anglo American Platinum's Waterval Tailings Storage Facilities located in Rustenburg, North West Province

#### 1. Notification

Anglo American Platinum Limited: Rustenburg Platinum Mines Limited (RPM) proposes the reprocessing of Waterval Tailings Storage Facilities located in Rustenburg, North West Province. Portions of the footprint of the proposed project fall on land owned by the Royal Bafokeng Holdings. Notification of an Environmental Impact Assessment (EIA) is therefore hereby given, in terms of National Environmental Management Act (No. 107 of 1998) as amended (NEMA) and section 15 (1) of the EIA Regulations in Government Notice (GN) 543 of 2010, which states:

If the applicant is not the owner or person in control of the land on which the activity is to be undertaken, the applicant must give written notice of the proposed activity to the owner or person in control of the land on which the activity is to be undertaken, and inform such person that he may participate in the public participation process.

2. Project Background

The Waterval TSFs (East and West dams) were previously used to deposit tailings material from mineral processing operations. Following tests conducted on the Waterval tailings, latent reserves have been identified that warrant the re-processing of the tailings. The re-processing of the Waterval TSFs, including associated infrastructure, was authorised by the Department of Minerals and Energy (now the Department of Mineral Resources – DRM) as part of an amendment to the existing Environmental Management Programme Report (EMPR) in 2002. Although authorised, the re-processing of the Waterval tailings has not yet commenced and recent changes to proposed infrastructure and the layout of the project require the EMPR to be amended again. Additionally, some of the changes involve activities for which environmental authorisation from the North West Provincial Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be required.

#### 3. Proposed Activities and Authorisation processes required

In accordance with NEMA, GN. 544 and 545, the undertaking of certain listed activities requires environmental authorisation.

The activities listed in GN. R 544 associated with the proposed project include:

- Activity 9;
- Activity 10;
- Activity 11 (iii);
- Activity 18 (i);
- Activity 22;
- Activity 23; and
- Activity 47.

The activity listed in GN. R 545 associated with the proposed project is:

Activity 6 (ii): The construction of facilities or infrastructure for the bulk transportation of dangerous goods – in liquid form, outside an industrial complex, using pipelines, exceeding 1000 metres in length, with a throughput capacity of more than 50 cubic metres per day.

Application for environmental authorisation for activities listed in GN. R 545 requires that a Scoping and EIA process be undertaken, as such, an application in this regard was submitted to NWDEDECT on 21 Sept 2012.

 WSP Environmental (Pty) Ltd

 WSP House

 Bryanston Place

 199 Bryanston Drive

 Bryanston, 2021

 Tel: +27 (0)11 361 1380

 Fax: +27 (0)11 361 1381

 http://www.wspenvironmental.co.za

 Reg. No: 1995/08790/07

WSP Group plc Offices worldwide



The proposed pipeline route will cross a watercourse, and a proposed pollution control dam and an emergency slurry catchment dam will be constructed. The following water use activities listed under Chapter 4, Section 21 of the National Water Act (No. 38 of 1998) (NWA) may be relevant and may require authorisation in the form of a general authorisation or new/amended Water Use License (WUL): 21 (c): impeding or diverting the flow of water in a watercourse.

- 21 (i): altering the bed, banks, course or characteristics of a watercourse, and
- 21 (g): disposing of waste in a manner which may detrimentally impact on a water resource.

Portions of the proposed project is located in a mine lease area, as such RPM are required to undertake an Environmental Management Programme Report (EMPR) Amendment process in conjunction with the EIA process, which is in line with the Mineral and Petroleum Resource Development Act (No 28 of 2002) (MPRDA) and the NEMA, respectively.

#### 4. Public Participation Process

The RBH has been registered as a Stakeholder to receive information from WSP as the EIA process progresses and is hereby invited to participate in the process by sending any comments or queries to the undersigned.

Regards,

mana.

Jared O'Brien Consultant Tel: 011 361 1396 Fax: 086 505 3939 Email: Jared.OBrien@wspgroup.co.za

4.6 Issues Trail

## Scoping Report Issues Trail – as of 23 November 2012

Issue and Concerns	Date	Commentator	Organisation	Source	Response		
Landowner Meeting							
RBH wished to verify that the area upon which the project and the Hoedspruit Tailings Storage Facility (TSF) is located is part owned by the, RBH, FIKE Trust (for which a lease agreement is in place) and part owned by Anglo American Platinum (AAP). She subsequently requested that Andre Britz (AB) of AAP send her all the relevant portion numbers for the Hoedspruit TSF, and for the rest of the project area.	17/09/2012	Teresa Taljaard	Royal Bafokeng Holdings	Landowner Notification Meeting	Maps provided 8 October and 11 November 2012 (WSP letter 11 Nov 2012).		
Ernie Kemm (EK) questioned the crossing of the powerlines along the proposed pipeline route.	17/09/2012	Ernie Kemm	Royal Bafokeng Administration	Landowner Notification Meeting	Pierre Malan (PM) responded indicating that Anglo have appointed Green Gain (legal consultant) to ensure legal compliance in terms of the crossings.		
EK questioned the location of the proposed booster station and pipeline route, adding that he believes there may be housing stands allocated on the land proposed.	17/09/2012	Ernie Kemm	Royal Bafokeng Administration	Landowner Notification Meeting	PM said the land has been inspected and the land is currently vacant.		
Khalid Patel (KP) questioned which components of the proposed project are within the Anglo mine lease area and which lie outside of the mining lease area. KP subsequently requested detailed mapping of exactly where Anglo's mining rights are currently.	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the RBN)	Landowner Notification Meeting	Maps provided 8 October and 11 November 2012 (WSP letter 11 Nov 2012).		
KP indicated that he will review the	17/09/2012	Khalid Patel	EIMS Consultant:	Landowner Notification	Noted.		

Issue and Concerns	Date	Commentator	Organisation	Source	Response
information (including the map) presented during the meeting along with the SG mapping and decide if the RBN is impacted upon by the project.			Mining Division Manager (on behalf of the RBN)	Meeting	
EK asked on which side of the property boundary the slurry/return water pipeline will be located.	17/09/2012	Ernie Kemm	Royal Bafokeng Administration	Landowner Notification Meeting	AB indicated it would be on the southern side which is Rustenburg Local Municipality (RLM) land. AB added there is an existing pipeline corridor for which servitudes are not yet registered. An agreement for the pipeline corridor on the RLM land is however in place.
TT emphasised that the future of the project is dependent on the consent of the RBN, which will be subject to the amicable resolution of the current and wider lease agreement adjudication. Therefore, if their requirements are not met, RBN will oppose the project. TT emphasised that RBNs comments need to be included in the process and this must be made known.	17/09/2012	Teresa Taljaard	Royal Bafokeng Holdings	Landowner Notification Meeting	WSP noted the comment. AB added that there is currently a separate process in progress to resolve the lease agreement with the RBN (Royalties).
Reotshopile Tlhapane (RT) queried if Dudu Ratshefola (DR) from Anglo is involved in the arranging of the public meetings and the rest of the PPP.	17/09/2012	Reotshopile Tlhapane	Royal Bafokeng Administration: Environmental	Landowner Notification Meeting	CG indicated that DR has been involved thus far. CG stated that WSP will communicate with RT in terms of PPP going forward.
KP requested that he be registered on the database PPP notifications.	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the RBN)	Landowner Notification Meeting	Registered by WSP.
KP queried the initiation date of PPP.	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division	Landowner Notification	CG said that WSP would like to have initiated PPP soon after this meeting, however, PPP was on hold as a

Issue and Concerns	Date	Commentator	Organisation	Source	Response
			Manager (on behalf of the RBN)	Meeting	result of the current unrest in Rustenburg.
KP questioned the need to undertake Water Use License amendment (WULA) for the project, and if so which water uses will trigger the amendment.	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the RBN)	Landowner Notification Meeting	A WULA amendment will be required for the river crossing and the Pollution Control Dam.
TT requested a timeline for the WUL amendment and if the RBH will be informed of the amendment.	17/09/2012	Teresa Taljaard	Royal Bafokeng Holdings	Landowner Notification Meeting	Unknown at this stage.
TT re-emphasised that if the RBH are not informed, as a landowner then RBH they will oppose the project.	17/09/2012	Teresa Taljaard	Royal Bafokeng Holdings	Landowner Notification Meeting	Noted.
KP questioned the word "may" in the BID referring to the need to undertake a WULA. He believes the existing WUL will need to be amended or a new WULA application will need to be submitted based on the project description. KP indicated that clear information on water uses needed to be provided.	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the RBN)	Landowner Notification Meeting	The existing integrated WUL will be amended.
RT asked where the wetland areas are for which the aquatic study is being conducted.	17/09/2012	Reotshopile Tlhapane	Royal Bafokeng Administration: Environmental	Landowner Notification Meeting	CG indicated this area to be on the north-eastern side of the Waterval west Dam. AB indicated the Klipgat river running from west to east, crossing the pipeline in a certain stages.
KP questioned the submission of WSP's environmental application form.	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division	Landowner Notification Meeting	CG indicated it had been submitted to NWDEDECT. Copy provided in WSP letter of 11 November 2012.

Issue and Concerns	Date	Commentator	Organisation	Source	Response
			Manager (on behalf of the RBN)		
KP stated that according to the new environmental legislation the applicant is required to include proof of communication with relevant landowners with the application for authorisation.	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the RBN)	Landowner Notification Meeting	Proof of communication with RBH is included in the Scoping Report. Proof of future discussions with other landowner (Makhatle Tribe and Fike Trust) will be included in the Final Scoping Report that will be submitted to the NWDEDECT and DMR for approval.
KP asked if a Section 102 process in terms of the MPRDA would be conducted. KP requested that WSP/Anglo inform him once the application is lodged.	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the RBN)	Landowner Notification Meeting	CG indicated that the process to be undertaken would be an EMPR amendment with the first submission to the DMR being the Scoping Report.
RT questioned the need for a traffic impact assessment, questioning the extent of the expected impact.	17/09/2012	Reotshopile Tlhapane	Royal Bafokeng Administration: Environmental	Landowner Notification Meeting	CG said that during the construction phase, trucks will utilise the surrounding roads, however the impact is expected to be low during operation (slurry transported via pipeline). Information regarding the traffic study has been included in the Scoping Report.
RT and TT requested information on sensitive social receptors which may be influenced by the project e.g. schools, old age homes, disabled homes, etc. She requested a map indicting the location of the receptors relative to the project layout.	17/09/2012	Reotshopile Tlhapane / Teresa Taljaard	Royal Bafokeng Administration: Environmental / Royal Bafokeng Holdings	Landowner Notification Meeting	Map in WSP letter of 11 Nov 2012.
KP asked which alternatives had been considered for the project.	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the	Landowner Notification Meeting	PM responded saying the route indicated on the presentation is the final preferred route. He described that many (approximately 6) pipeline routes had been

Issue and Concerns	Date	Commentator	Organisation	Source	Response
			RBN)		considered for the project during the 2002 EMPR.
TT asked if the designs submitted to RBH as part of the lease application process were final. She emphasised that should designs change after any lease for servitudes had been agreed to, the lease application process with the RBH would need to start again from the beginning.	17/09/2012	Teresa Taljaard	Royal Bafokeng Holdings	Landowner Notification Meeting	PM responded yes. Comment noted.
KP requested that RBH be provided with the specialist "Terms of Reference" (TOR).	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the RBN)	Landowner Notification Meeting	Specialist methodologies (TORs) are included in the Scoping Report.
KP enquired whether pollution plume modelling will be done during the project.	17/09/2012	Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the RBN)	Landowner Notification Meeting	AB said pollution monitoring is currently taking place.
RBN asked if they will receive the minutes from Department meetings and Fike trust meetings in the future.	17/09/2012	Unknown	RBN	Landowner Notification Meeting	CG indicated that these would form part of the documents produced in the process (Scoping and EIA reports).
<ul> <li>KP requested the following information:</li> <li>A map with both parent farms and associated portions on which the proposed pipeline, plants and tailings facility will be located;</li> <li>The exact extent (in hectares) that the tailings storage facility on Hoedspruit</li> </ul>	18/09/2012	Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the RBN)	Email	Map and list of landowners provided in WSP letter of 11 November 2012. Information on the Hoedspruit TSF is provided in the Scoping report.

Issue and Concerns	Date	Commentator	Organisation	Source	Response
will occupy;					
<ul> <li>A copy of the NEMA application already submitted; and</li> </ul>					
<ul> <li>A list of landowners already identified.</li> </ul>					
KP requested that he is informed when WSP understand exactly what water uses will be applied for and over which properties. He further requested that the terms of reference (once drawn up) for the specialist studies are sent to him.		Khalid Patel	EIMS Consultant: Mining Division Manager (on behalf of the RBN)	Email	No response issued to date.
Stakeholder Comments					
Public participation and Scoping Report review commences 29 November 2012. No comments were received by WSP from other stakeholders prior to this.		Catherine Greengrass (WSP)	WSP	N/A	N/A