



UNITED  
BY OUR  
DIFFERENCE



# THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR

Final Basic Assessment Report

2014/09/16

Confidentiality: Public

## List of Appendices

Appendix A: Maps/Figures .....	66
Appendix B: Site Photographs.....	70
Appendix C: Facility Illustration(s) .....	71
Appendix D: Specialist reports .....	73
Appendix E: Public Participation.....	74
Appendix F: Environmental Management Programme Report (EMPr) .....	75
Appendix G: Other Information.....	76

## Table of Abbreviations and Acronyms

Abbreviation/Acronyms	Description
DEA	Department of Environmental Affairs
DRDLR	Department of Rural Development and Land Reform
DWS	Department of Water and Sanitation
EIA	Environmental Impact Assessment
EMPr	Environmental Management Programme Report
GNR	Government Notice Regulation
IBC	Intermediate Bulk Container
NEMA	National Environmental Management Act (No 107 of 1998), as amended
NEM:AQA	National Environmental Management: Air Quality Act (No 39 of 2004)
NEM:WA	National Environmental Management: Waste Act (59 of 2008)
NRA	Heritage Resources Act (No 25 of 1999)
NWA	National Water Act (36 of 1998)
NWREAD	North West Department of Rural, Environmental and Agricultural Development
PPE	personal protective equipment
RLM	Rustenburg Local Municipality
RPM-RS	Rustenburg Platinum Mines – Rustenburg Section
SAHRA	South African Heritage Resources Agency
SANS	South African National Standard
SDF	Spatial Development Framework
WSP	WSP Environmental (Pty) Ltd



# SECTION A: ACTIVITY INFORMATION

Has a specialist been consulted to assist with the completion of this section?

Yes✓	No
------	----

If YES, please complete the form entitled "Details of specialist and declaration of interest" for appointment of a specialist for each specialist thus appointed:

Any specialist reports must be contained in **Appendix D**.

## 1. Activity Description

Describe the activity, which is being applied for, in detail:

### **Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section**

Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section (RPM-RS) mines, processes, refines and markets platinum and other platinum group metals as well as base metals at their operations in Rustenburg located within the North West Province of South Africa (**Figure 1 – Appendix F**). RPM-RS is one of a number of RPM-RS operations across South Africa.

The RPM-RS mine lease area covers an area of approximately 16 651.6 hectares (ha). The ore extracted by RPM-RS includes that of two ore bodies, namely the Merensky Reef and the UG2 Reef at various shafts contained within the RPM-RS mine lease area. RPM-RS utilise various mining methods such as hybrid, board and pillar, conventional stopping, trackless development and opencast mining in order to extract the ore depending on the geological structure of the area being mined and the surface conditions. Following extraction from the reef the ore is passed through a number of processing and beneficiation stages in order to extract the required precious and base metals. The infrastructure required includes but is not limited to the following:

- Concentrators;
- Smelters;
- Precious Metals Refinery; and
- Base Metals Refinery.

RPM-RS has a planned life of mine of at least an additional 30 years.

### **RPM-RS Concentrators**

The RPM-RS concentrators include the following:

- Frank Concentrator (undergoing decommissioning) (Environmental Authorisation: NWP/EIA/103/2012 - 2 August 2013);
- Klipfontein Concentrator (to be decommissioned);
- UG2 Concentrator (Operational); and
- The Waterval Concentrator (Operational).

The concentrators have the purpose of reducing ore to a concentrate mat which can be transferred to the smelters for further beneficiation. Each concentrator is comprised of, but not limited to the following main infrastructure:

- Crushing Plant;
- Milling Cells;

- Flotation Pods;
- Thickeners; and
- Filtration.

Each of the said infrastructures is utilised in order to reduce the ore received into a fine mat material. The concentrators form an integral part of the RPM-RS operation.

### **Klipfontein Concentrator**

#### ■ Background and Status Quo

The Klipfontein Concentrator was commissioned in 1931 and is located approximately 11km east of Rustenburg in the North West Province. The Klipfontein Complex comprises an area of approximately 20ha. The Concentrator had the capacity to process approximately 120 000 tons of ore per month.

Following the establishment of the UG2 and the Waterval Concentrators, RPM-RS decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at the two new concentrators (i.e. the increased efficiency). As such, the Klipfontein concentrator is considered a redundant plant and no longer has any beneficial use to the mining operation. The Klipfontein Concentrator is currently under care and maintenance.

#### ■ Contaminated Land

- RPM-RS Lease Area

WSP Environmental (Pty) Ltd (WSP) undertook a Contaminated Land Assessment and Remediation Strategy for the Anglo Platinum Rustenburg Lease Area in 2008. The investigation identified issues within the RPM-RS lease area in terms of contaminated land and developed a conceptual framework to address legacy contamination as well as potential future impacts in accordance with international and national best practice guidelines. The 2008 investigation identified the key concerns in terms of land contamination within the Lease Area.

- Klipfontein Concentrator Area

RPM-RS appointed WSP in 2011 to assess whether a full contamination investigation is required at the Klipfontein Concentrator prior to decommissioning of the plant. The resultant assessment indicated that the area is considered a contaminated land "hotspot". The area was thus classified as such by RPM:RS.

Results of the 2011 assessment as follows:

- Minor hydrocarbon spillages were identified associated with the dedicated oil storage bunded area.
- The presence of potentially toxic tar derivatives in one alleged remaining tar dam was identified as a potential contamination source. However these were anticipated relatively immobile due to their physical properties and the attenuation tendency of the underlying soil. It is noted that subsequent to the Phase 1 report, RPM:RS has investigated the suspected tar pit area which indicates that only residual tar is present.
- Based on regional soil distribution, geology, and geohydrology, on site conditions, and regional land use, no significant groundwater contamination was expected.
- The site is reasonably well isolated in terms of potential pathways for contaminant migration.

The Klipfontein Concentrator footprint contamination is specifically focused around the previously operational areas of the plant. The contamination is associated with historic mining related activities, and previous hydrocarbon spillages during the 76 years of operation. It must be noted that WSP only considered and assessed the land on which infrastructure is to be demolished are located. Areas which do not have any infrastructure proposed to be demolished, and areas on which infrastructure will remain were not considered as part of the assessment (illustrated in **Figure 3 in Appendix F**).

### **Proposed Project**

RPM-RS propose to decommission and dismantle the infrastructure associated with the Klipfontein Concentrator located on Portion 2 of the Farm Klipfontein 300 JQ (**Figure 3 – Appendix F**) in 2015. The following areas of the Klipfontein Concentrator are to be decommissioned and dismantled to slab level:

- Milling Section;
- Thickener section;
- Filtration section;
- Reagent section;
- Crusher section;
- Flotation section;
- Redressing section; and
- General areas.

Certain infrastructure associated with the concentrator will remain on-site as the infrastructure is still considered useful to RPM-RS, which includes the following:

- Concentrator offices;
- Concentrator workshop;
- Concentrator changes houses; and
- Certain utilities.

The WSP Contaminated Land Assessment and Remediation Strategy for the Anglo Platinum Rustenburg Lease Area in 2008 identified the Klipfontein Concentrator as a “contamination hotspot” however; the Proposed Project will not involve any form of land remediation. It should be noted that the remediation costs associated with the area have been included in the Final RPM-RS closure plan (SRK, 2012, Report Number: 435110) and as such the site will be rehabilitated upon closure following the life of mine. Furthermore, annual provisions for rehabilitation costs is made in the Platinum Producers Environmental Trust Fund to the Department of Mineral Resources (DMR). Due to the presence of contaminated land on the site on which decommissioning is intended, RPM-RS require environmental authorisation according to the National Environmental Management Act (No 107 of 1998), as amended, (NEMA) prior to the commencement of the decommissioning activities. In order to obtain environmental authorisation, RPM-RS is required to undertake a Basic Assessment (BA) process in accordance with Government Notice Regulation (GNR) 543 and 544 of 2010. The decommissioning activity triggers the following listed activities in terms of GNR 544:

- Activity 27 (iv); and
- Activity 27 (v).

The competent authority responsible for considering this application is the North West Rural, Environmental and Agricultural Development (NWREAD).

RPM-RS appointed WSP to undertake the BA process on behalf of the Applicant.

As indicated, this application for Environmental Authorisation relates to the decommissioning of facilities which are located on contaminated land. The application does not seek to apply for remediation nor is it intended to address contaminated land issues on the site. The relevance of Part 8 of the National Environmental Management: Waste Act (No 59 of 2008) (NEM:WA), will be dealt with separately by RPM:RS in accordance with the relevant statutory requirements.

*Note: Although the NWREAD BA Report template makes reference to construction and operational activities, it should be emphasised that the Proposed Project only deals with decommissioning activities. No construction or operation associated with the Proposed Project.*

---

## 2. Feasible and Reasonable Alternatives

“alternatives”, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- a) the property on which or location where it is proposed to undertake the activity;
- b) the type of activity to be undertaken;
- c) the design or layout of the activity;
- d) the technology to be used in the activity;
- e) the operational aspects of the activity; and
- f) the option of not implementing the activity.

### **Alternatives:**

#### a) Property Alternatives

Due to the nature of the Proposed Project, being “decommissioning” of an existing facility, no property alternatives are available or have been considered by this application.

#### b) Activity Type Alternatives

The activity type is “decommissioning” which is the only option available to RPM-RS considering the care and maintenance costs and technology available at the plant.

#### c) Design or Layout Alternatives

The design and layout of the facility is as per the original design and layout established in 1931. As such, the order and sequence applied to the dismantling activities is determined by the existing scenario. No layout and design alternatives are applicable to the Proposed Project.

#### d) Technology Alternatives

The Proposed Project results from the availability of the new technological capabilities at the two new concentrators (i.e. the increased efficiency) as such the technological alternative is the driver of the Proposed Project.

#### e) Operational Alternatives

There is no Operational Phase associated with the Proposed Project as such, no operational alternatives could have or have been assessed.

#### f) No-go Alternative

Discussed in **Section 3**.

Describe alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished in the specific instance taking account of the interest of the applicant in the activity.

The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. The determination of whether site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

**Paragraphs 3 – 13 should be completed for each alternative (Note: No alternatives have been identified for the Proposed Project).**

### 3. Activity Position

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:**

**Latitude (S):**

**Longitude (E):**

**Alternative S1 (Preferred or only Site Alternative)**

°	'	"	°	'	"
25°	42'	09.41"	27°	22'	07.53"

In the case of linear activities:

Alternative:

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

°	'	"	°	'	"

Alternative S2 (if any)

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

Latitude (S):

Longitude (E):

°	'	"	°	'	"

Alternative S3 (if any)

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

Latitude (S):

Longitude (E):

°	'	"	°	'	"

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.



---

### No-go alternative

The no-go alternative presents the option of not demolishing/dismantling the infrastructure associated with the Klipfontein Concentrator. As discussed in **Section 1**, the infrastructure is considered to have no further beneficial use to the RPM-RS mining operations. The infrastructure has been in a redundant state for several years within which no further use has arisen or been identified. In the event that this infrastructure is not demolished the redundant infrastructure will remain a financial liability, an environmental liability, and a health and safety risk associates with unauthorised access resulting in injury or death. WSP does not recommend the no-go option. The overall aim of the Proposed Project is aligned with mine closure and rehabilitation objectives.

## 4. Physical Size of the Activity

Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

Alternative:

Size of the activity:

Alternative A1 (preferred activity alternative)

Approximately 35,000m <sup>2</sup>
m <sup>2</sup>
m <sup>2</sup>

Alternative A2 (if any)

Alternative A3 (if any)

or, for linear activities:

Alternative:

Length of the activity:

Alternative A1 (preferred activity alternative)

m <sup>2</sup>
m <sup>2</sup>
m <sup>2</sup>

Alternative A2 (if any)

Alternative A3 (if any)

Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

Alternative:

Size of the site/servitude:

Alternative A1 (preferred activity alternative)

m <sup>2</sup>
m <sup>2</sup>
m <sup>2</sup>

Alternative A2 (if any)

Alternative A3 (if any)

---

## 5. Site Access

Does ready access to the site exist?

Yes✓	No
m	

If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

N/A
-----

Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

Refer to <b>Appendix A (Figure 1 and 4)</b>
---

---

## 6. Site or Route Plan

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

The site or route plans must indicate the following:

- 6.1 The scale of the plan which must be at least a scale of 1:500;
- 6.2 The property boundaries and numbers of all the properties within 50 metres of the site;
- 6.3 The current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- 6.4 The exact position of each element of the application as well as any other structures on the site;
- 6.5 The position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
- 6.6 All trees and shrubs taller than 1.8 metres;
- 6.7 Walls and fencing including details of the height and construction material;
- 6.8 Servitudes indicating the purpose of the servitude;
- 6.9 Sensitive environmental elements within 100 metres of the site or sites including (but not limited thereto):
  - rivers;
  - the 1:100 year flood line (where available or where it is required by DWS);
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation (even if it is degraded or invested with alien species);
- 6.10 For gentle slopes the 1 metre contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- 6.11 The positions from where photographs of the site were taken.

Refer to **Appendix A (Figure 1)**.

### Site Photographs

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under **Appendix B** to this form. It must be supplemented with additional photographs of relevant features on the site, if applicable.

Due to site layout WSP deemed photos in the eight compass directions impractical. A more suited method of taking photos of the various infrastructure to be dismantled was applied. WSP hereby supply various photos of the redundant infrastructure of interest to the competent authority. Refer to **Appendix B**.

## 7. Facility Illustration

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

### **Klipfontein Concentrator Operational Flow Chart:**

(Note: This section is to be read in conjunction with **Appendix C**. The Klipfontein Concentrator has been mothballed since 2007 hence the flow chart does not represent the current operations on the site).

1. *Area 1* encompasses the following infrastructure:
  - Silos: Ore originating from the various shafts is stored in the silos.
  - Conveyor system: From the silos the ore material is fed through to the primary crusher at a constant rate.
  - Primary Crusher: The ore material is fed into the primary crusher where it is crushed to a coarse material in an effort to reduce the ore to a grain size small enough to be fed into the secondary crusher.
  - Secondary Crusher: Output material from the Primary Crusher feeds into the Secondary Crusher.
2. *Area 2* encompasses the following infrastructure:
  - Milling Section: Output material from the Secondary Crusher (uniform grain size) feeds into the milling section for further grinding (i.e. milling). The aim of milling is to reduce the grain size to 65% (-75 microns) (required for input into the processes to follow). The required grain size should be achieved in order to obtain the desired mineral percentage output from the floatation section to follow.
3. *Area 3* encompasses the following infrastructure:
  - Steel Ball storage area within cement bunkers (Approximately 3m below ground level).
4. *Area 4* encompasses the following infrastructure:
  - Floatation Plant: Fine material received from the Milling Section is used as input to the floatation process. Floatation reagents are added to the milled water/milled ore mixture to aid in the separation of minerals from the material. Furthermore, the floatation process enhances the hydrophobic nature of the minerals in the ore. Underflow suspension is considered unusable and piped to Area 6 which is the Thickener. The overflow material is transferred to the Filtration Plant (Area 8).
5. *Area 5* encompasses the following infrastructure:
  - Hazardous/dangerous good storage area: Used for the storage of reagent substances, fluids and other fuels and chemicals.
6. *Area 6* encompasses the following infrastructure:
  - Tailings Thickener: Pulp is pumped to the tailings thickener. Water is decanted from the tailings thickener and then recycled back to the Klipfontein Concentrator. The return water is used in the milling, filtration and floatation processes and is considered essential to the continuation of efficient processes at the Klipfontein Concentrator. Thickened underflow from the thickener is pumped to the

tailings dam.

7. *Area 7 encompasses the following infrastructure:*

- A Pipeline to the Thickener: The pipeline is used to transfer the concentrate stream to the thickener.

8. *Area 8 encompasses the following infrastructure:*

- The Filtration Area: The underflow from the thickeners is pumped at a high density to the filters in the filtration plant (concentrate stream). The concentrate stream is filtered to achieve a wet cake suitable for transfer to the Waterval Smelter. The tailings from the filtration section is considered unusable and as such is pumped to Area 6. The tailings underflow from Area 6 is then transferred to the tailings dam whereas the overflow is sent to Area 8 (filtration plant).

The final product is a wet concentrate containing both precious and base metals. The wet concentrate is delivered to the Waterval Smelter where it is dried, melted and undergoes a converting process to generate matte. The crushed matte is sent to the Rustenburg Base Metals Refinery to produce base metals (copper, nickel, cobalt and sodium sulphate). Resulting matte and concentrate is received by the Precious Metals Refinery where the concentrate is refined into the respective PGMs (platinum, palladium, rhodium, iridium, ruthenium, osmium and gold), all to a high degree of purity.

**Klipfontein Concentrator Decommissioning/Dismantling Order:**

- Site Establishment: Establish all required equipment and contractor camps onsite.
- Electrical Reticulation: Dismantling and removal of infrastructure onsite related to electricity acceptance and distribution throughout the site (e.g. the transformers and power cables).
- Primary and Secondary Crushers.
- Milling Buildings.
- Silos.
- Conveyors.
- General Areas.
- Floatation Building.
- Disestablishment: Removal of all equipment and contractor camps onsite.

## 8. Activity Motivation

### a. Socio-economic Value of the Activity

What is the expected capital value of the activity on completion?	R 117 129 600
What is the expected yearly income that will be generated by or as a result of the activity?	R 58 564 800
Will the activity contribute to service infrastructure?	No
Is the activity a public amenity?	No
How many new employment opportunities will be created in the Development Phase of the activity?	96 Temporary Employment Opportunities
What is the expected value of the employment opportunities during the Development Phase?	R 21 749 760
What percentage of this will accrue to previously disadvantaged individuals?	70%
How many permanent new employment opportunities will be created during the Operational Phase of the activity?	+/-5 Semi-Permanent/ Permanent Employment Opportunities
<i>For the purposes of providing detail, information regarding employment following the decommissioning phase is provided.</i>	
What is the expected current value of the employment opportunities during the first 10 years?	R 117 129 600
What percentage of this will accrue to previously disadvantaged individuals?	50%

### b. Need and Desirability of the Activity

Motivate and explain the need and desirability of the activity (including demand for the activity):

<b>NEED:</b>			
1.	Was the relevant provincial planning department involved in the application?	Yes✓	No
The Department of Rural Development and Land Reform (RDLR) was consulted.			
2.	Does the proposed land use fall within the relevant provincial planning framework?	Yes✓	No
<b>Appendix A (Figure 2)</b> contains a map depicting the current land uses of the RPM-RS mine lease area and surrounding areas. Furthermore, <b>Appendix A (Figure 3)</b> contains a map indicating the conceptual post closure land uses as presented in the RPM-RS Final Closure Plan (SRK, 2012, Report Number: 435110). The area occupied by the Klipfontein Concentrator will be rehabilitated to a grazing land use type. The North West Province Spatial Development Framework was consulted during the compilation of the conceptual post closure land uses planning exercise.			
3.	If the answer to questions 1 and/or 2 was NO, please provide further motivation/explanation:		

<b>DESIRABILITY:</b>			
1.	Does the proposed land use/development fit the surrounding area?	Yes✓	No
<b>Appendix A (Figure 2)</b> indicates the current land uses surrounding the Klipfontein Concentrator. The area			

immediately surrounding the Concentrator is commercial/industrial. The Concentrator area itself is zoned as mining. <b>Appendix A (Figure 3)</b> indicates the conceptual land use plan for the RPM-RS mine lease area including that of the Klipfontein Concentrator. As previously indicated, the conceptual planned land use of the Klipfontein Concentrator area is grazing. Other conceptual land uses for the mine lease area include: agriculture, green belts and conservation areas. As such, yes grazing does fit in with the other proposed land uses within the mine lease area (post closure).			
2.	Does the proposed land use/development conform to the relevant structure plans, SDF and planning visions for the area?	Yes✓	No
The Final Mine Closure Plan (SRK, 2012, Report Number: 435110) was developed based on SDF and other relevant planning documentation.			
3.	Will the benefits of the proposed land use/development outweigh the negative impacts of it?	Yes✓	No
The Proposed Project is aligned with the overall mine closure plan. The Proposed Project is aimed at achieving the mine closure objectives. Site rehabilitation is essential to restore the area to an acceptable standard which will benefit society and the environment.			
4.	If the answer to any of the questions 1-3 was NO, please provide further motivation/explanation:		
5.	Will the proposed land use/development impact on the sense of place?	Yes✓	No
The Proposed Project contributes to the overall site rehabilitation. The overall mine lease area rehabilitation will result in a changed sense of place following mine closure.			
6.	Will the proposed land use/development set a precedent?	Yes	No✓
7.	Will any person's rights be affected by the proposed land use/development?	Yes✓	No
The rehabilitation of the site will promote Section 24 of the Republic of Constitution of South Africa.			
8.	Will the proposed land use/development compromise the "urban edge"?	Yes	No✓
9.	If the answer to any of the question 5-8 was YES, please provide further motivation/explanation.		
As the Proposed Project involves the decommissioning and removal of redundant infrastructure the aim of the Proposed Project is to promote the objectives of mine closure and mine rehabilitation. The overall impact of the Proposed Project is thus positive. See above sections for question specific feedback.			

<b>BENEFITS:</b>			
1.	Will the land use/development have any benefits for society in general?	Yes✓	No
2.	Explain:		
<p>The facility is located in a mine lease area and therefore the general public will have limited access to the facility. However, following mine closure and overall mine rehabilitation (i.e. not limited to the Klipfontein Concentrator) the general public may be afforded the right to occupy the land. The proposed land uses of the lease area include the following:</p> <ul style="list-style-type: none"> <li>■ Agriculture;</li> <li>■ Grazing;</li> <li>■ Green Belts; and</li> <li>■ Conservation areas.</li> </ul> <p>As such, the land use capability of the land will be better suited to use by the public. Furthermore,</p>			



	the Proposed Project will result in a number of temporary and permanent employment opportunities during the Decommissioning Phase.		
3.	Will the land us/development have any benefits for the local communities where it will be located?	Yes✓	No
4.	<p>Explain:</p> <p>See <b>Section 2</b> above.</p> <p>In addition: Local communities bordering the RPM-RS mine lease area will benefit for the overall improved condition of the land to the proposed land uses described. Furthermore, the land may be used as grazing land following mine closure (dependant on the intended land use). The majority of the employment opportunities are temporary and as such the benefits to local communities is limited.</p>		

## 9. Applicable Legislation, Policies and/or Guidelines

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline:

Administering authority:

Date:

<p><b>National Environmental Management Act (NEMA) Government Notice Regulation (GNR) 544 of 2010 Listed Activity 27(iv)</b></p>	<p><b>North Department Economic Development, Environment, Conservation and Tourism</b></p>	<p><b>West of and 2010</b></p>
<p><u>Listed Activity</u></p> <p>Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated.</p> <p><u>Applicability</u></p> <p>The Proposed Project involves the decommissioning of a plant which is located upon land which is considered a contamination hotspot resulting from the mining operations taking place on the site since 1931.</p> <p><i>It is noted that the current application for Environmental Authorisation, relates to the decommissioning of facilities which are located on contaminated land. The application does not seek to apply for remediation nor is it intended to address contaminated land issues on the site. These will be dealt with separately by RPM:RS in accordance with the relevant statutory requirements.</i></p>		
<p><u>Listed Activity</u></p> <p>Activity 27 (v) The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.</p> <p><u>Applicability</u></p> <p>The Proposed Project involves the decommissioning of a plant which has various infrastructure previously used to beneficiate ore. The infrastructure is deemed to have the capacity to store and handle dangerous goods exceeding 80 cubic metres.</p>		
<p><b>Heritage Resources Act (No 25 of 1999)</b></p>	<p><b>South African Heritage Resources Agency (SAHRA)</b></p>	<p><b>1999</b></p>
<p>The Klipfontein Concentrator was established in 1931, therefore, WSP considered the Proposed Project under the Heritage Resources Act (No 25 of 1999) (NRA). NRA Section 34 (1) indicates viz. no person may alter or demolish any structure or part of a structure which is older than 60 years without a permit issued by the relevant provincial heritage resources authority. Furthermore, the NRA, Section 1 indicates viz. for the purposes of this Act, those heritage resources of South Africa which are of cultural significance or other special value for the present community and for future generations must be considered part of the national estate and fall within the sphere of operations of heritage resources authorities.</p> <p>The Klipfontein Concentrator infrastructure was used by RPM-RS to process ore in order to obtain a floatation concentrate for transfer to the nearby Waterval Smelter. Due to the known purpose of the facility, WSP is of the opinion that the Klipfontein Concentrator does not have cultural significance or other associated historic value to the mine or the public. As such, WSP is of the opinion that Section 1 of NRA is not applicable to the</p>		

---

Proposed Project. Therefore, Section 34 (1) of NRA does not apply and the applicant does not require a heritage permit prior to Proposed Project commencement. WSP confirmed this understanding with the SAHRA and the Provincial Heritage Department (refer to formal letters received from the Nation and Provincial Departments contained in **Appendix E**).

## 10. Waste, Effluent, Emission and Noise Management

**Note:** No Construction and Operational Phases associated with the Proposed Project, only decommissioning. The following section has been compiled with focus on the Decommissioning Phase.

### a. Solid Waste Management

Will the activity produce solid construction waste during the Construction/Initiation Phase (i.e. Decommissioning Phase)?

Yes✓	No
------	----

If yes, what estimated quantity will be produced per month (referred to as (i.e. Decommissioning Phase)?

350 tons
----------

How will the construction solid waste be disposed of (describe) (i.e. Decommissioning Phase)?

Solid waste generated as a result of the decommissioning activities will be managed according to the RPM-RS Integrated Waste and Water Management Plan. Waste that is generated from the decommissioning and demolition will be stored in a temporary designated waste storage area prior to removal from site. Waste which can be recycled and/or reused will be transported to an offsite recycling facility. Waste which cannot be recycled and/or reused will be temporarily stored prior to removal from site by a registered contractor and subsequent storage at a registered landfill site. This waste will be stored for less than 90 days.

Where will the construction solid waste be disposed of (describe) (referred to as decommissioning for the purposes of providing information on solid waste)?

The materials that will be produced by the activity will be reused, recycled or sold to third party companies as redundant materials (e.g. steel, equipment, etc.) where possible. Waste that is generated from the decommissioning and demolition process which cannot be reused or recycled will be stored in a temporary designated waste storage area. This waste will be storage for less than 90 days where it will be collected by a waste contractor and disposed of at an appropriate licensed waste landfill facility. The uncontaminated waste material will be disposed as inert waste at a licensed general landfill site, and hazardous material disposed of at a permitted hazardous landfill site. All material removed from site will be recorded, via a waste manifest to ensure safe disposal and correct reuse and recycling activities are maintained.

Will the activity produce solid waste during its Operational Phase?

Yes	No✓
-----	-----

No Operational Phase associated with the Proposed Project.

If yes, what estimated quantity will be produced per month?

m <sup>3</sup>
----------------

How will the solid waste be disposed of (describe)?

See **Sub-section (a)**.

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

Waste generated which is deemed general waste will be disposed of at a licensed general waste landfill (not necessarily a municipal facility). Hazardous waste resulting from the Proposed Project will be transported to Holfontein for disposal (licensed hazardous waste disposal facility).

If the solid waste (Construction or Operational Phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation? 

Yes✓	No
------	----

If yes, inform the competent authority and request a change to an application for scoping and EIA.

The waste material which will result from the Proposed Project has not been classified and as such the nature of the waste is unknown. If hazardous waste is produced by the Proposed Project, the waste will not remain on the site for a period exceeding 90 days. The storage of waste on the site is considered temporary as the waste is subsequently transported offsite to registered facilities.

Is the activity that is being applied for a solid waste handling or treatment facility? 

Yes	No✓
-----	-----

If yes, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

### b. Liquid Effluent

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system? 

Yes	No✓
-----	-----

If yes, what estimated quantity will be produced per month? 

m <sup>3</sup>
----------------

Will the activity produce any effluent that will be treated and/or disposed of on site? 

Yes	No✓
-----	-----

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility? 

Yes	No✓
-----	-----

The water contained within the Klipfontein Return Water Dam will be transferred to the Western Limb Tailings Retreatment Plant (located approximately 3km north east of the Klipfontein Concentrator) for re-use. Existing pipelines and/or bowser trucks will be used.

If yes, provide the particulars of the facility:

Facility name:			
Contact person:		Cell:	
Postal address:		Fax:	
Postal code:			
Telephone:			
E-mail:			

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

### c. Emissions into the Atmosphere

Will the activity release emissions into the atmosphere? 

Yes✓	No
------	----

If yes, is it controlled by any legislation of any sphere of government? 

Yes✓	No
------	----

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

The Proposed Project will result in dust generation associated with the rubble moving process and emissions resulting from vehicle uses however should the suggested mitigation measures (Environmental Management Programme Report (EMPr) contained in **Appendix F**) be successfully implemented dust should not pose an environmental or human health hazard. The volumes of fugitive dust emissions generated by the Proposed Project are expected to be minimal and below the thresholds as set in the National Ambient Air Quality Standards (for Particulate Matter). Furthermore, the Proposed Project does not trigger a listed activities in terms of the GNR 893 of the National Environmental Management: Air Quality Act (39 of 2004) (NEM:AQA).

If no, describe the emissions in terms of type and concentration:

#### d. Emissions into the Atmosphere

Will the activity generate noise?

Yes✓	No
Yes✓	No

If yes, is it controlled by any legislation of any sphere of government?

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Noise will be generated as a result of dismantling and demolition activities taking place. Other sources of noise would be vehicles transporting waste and materials offsite. The NEM:AQA makes reference to noise control provisions within section 34 of the Act. The Act makes provision for the promulgation of national noise standards which have not yet been set by the Minister. As such, all assessments are undertaken according to the South African National Standard (SANS) 10103 and SANS 10328 which includes noise thresholds and guidelines aimed at controlling the release of noise emissions in South Africa. The SANS codes are specific to certain land use types. The Proposed Project is located within an industrial mining related area and it is envisaged that the Proposed Project will not have a significant effect on the ambient noise climate.

All staff working onsite will be provided with appropriate personal protective equipment (PPE) to reduce the effects of noise on persons working in immediate or close proximity to the operation. All mitigation measures associated have been included in the EMPr (**Appendix F**).

If no, describe the noise in terms of type and level:

## 11. Water Use

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box (es)

<b>Municipal</b> ✓	water board	groundwater	river, stream, dam or lake	other	the activity will not use water
Water will be required by vehicles and equipment onsite as well as for drinking purposes. There is no need to extract additional water from boreholes or surface water sources.					

If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

litres	
Yes	<b>No</b> ✓

Does the activity require a water use permit from the Department of Water and Sanitation (DWS)?

Water will be supplied by the Municipality which is deemed to be in possession of the necessary permits required by both the Water Services Act (107 of 1998) and the National Water Act (36 of 1998) (NWA).	
--	--

If yes, please submit the necessary application to the Department of Water and Sanitation and attach proof thereof to this application if it has been submitted.

---

## 12. Energy Efficiency

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

All reusable, recyclable or commercial materials will be removed from site for recycling or reused. As such, the waste hierarchy objectives as contained within the NEM:WA, are satisfied.

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

In the event that power is not available from the Rustenburg Local Municipality (RLM), generators will be used as alternative energy sources as and when required.



# SECTION B: SITE/AREA/PROPERTY DESCRIPTION

Important notes:

1. For linear activities (pipelines, etc) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section C and indicate the area, which is covered by each copy No. on the Site Plan.

Section C Copy No.   
(e.g. A):

2. Paragraphs 1 - 6 below must be completed for each alternative.

Has a specialist been consulted to assist with the completion of this section? 

Yes✓	No
------	----

If YES, please complete the form entitled "Details of specialist and declaration of interest"

for each specialist thus appointed:

All specialist reports must be contained in **Appendix D**.

Property description/physical address:

25° 42' 09.41" S 27° 22' 07.53"E

(Farm name, portion etc.) Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application.

Farm Klipfontein 300 JQ, Portion 2

In instances where there is more than one town or district involved, please attach a list of towns or districts to this application.

Current land-use zoning:

Mining

In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to , to this application.

Is a change of land-use or a consent use application required? 

Yes	No✓
-----	-----

A change in land use is not required for the purposes of the Proposed Project however a formal change in land use may be required/considered upon mine closure.

Must a building plan be submitted to the local authority? 

Yes	No✓
-----	-----

**Locality map:**

**An A3 locality map must be attached to the back of this document, as Appendix A. The scale of the locality map must be relevant to the size of the development (at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map.) The map must indicate the following:**

- An indication of the project site position as well as the positions of the alternative sites, if any;
- Road access from all major roads in the area;
- Road names or numbers of all major roads as well as the roads that provide access to the site(s);
- All roads within a 1km radius of the site or alternative sites; and
- A north arrow;
- A legend; and
- Locality GPS co-ordinates (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)

Refer to **Appendix A (Figure 4)**.

*Note: Major road names are not readily available however all major, secondary and supporting roads have been indicated.*

**1. Gradient of the Site**

**Indicate the general gradient of the site.**

Alternative S1:

<b>Flat</b> ✓	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
---------------	-------------	-------------	-------------	--------------	-------------	------------------

Alternative S2 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
------	-------------	-------------	-------------	--------------	-------------	------------------

Alternative S3 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
------	-------------	-------------	-------------	--------------	-------------	------------------

## 2. Location in Landscape

Indicate the landform(s) that best describes the site:

*NB: Indicate by highlighting/ticking*

2.1 Ridgeline

2.2 Plateau

2.3 Side slope of hill/mountain

2.4 Closed valley

2.5 Open valley

**2.6 Plain✓**

2.7 Undulating plain/low hills

2.8 Dune

2.9 Seafront

## 3. Groundwater, Soil and Geological Stability of the Site

Is the site(s) located on any of the following (tick the appropriate boxes)?

	Alternative S1:		Alternative S2 (if any):		Alternative S3 (if any):	
Shallow water table (less than 1.5m deep)	Yes	No✓	Yes	No	Yes	No
Dolomite, sinkhole or doline areas	Yes	No✓	Yes	No	Yes	No
Seasonally wet soils (often close to water bodies)	Yes	No✓	Yes	No	Yes	No
Unstable rocky slopes or steep slopes with loose soil	Yes	No✓	Yes	No	Yes	No
Dispersive soils (soils that dissolve in water)	Yes	No✓	Yes	No	Yes	No
Soils with high clay content (clay fraction more than 40%)	Yes✓	No	Yes	No	Yes	No
Any other unstable soil or geological feature	Yes	No✓	Yes	No	Yes	No
An area sensitive to erosion	Yes	No✓	Yes	No	Yes	No

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. (Information in respect of the above will often be available as part of the project information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted).

#### 4. Groundcover

Indicate the types of groundcover present on the site:

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld - good condition <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup> ✓	Natural veld with heavy alien infestation <sup>E</sup> ✓ <sup>1</sup>	Veld dominated by alien species <sup>E</sup> ✓	Gardens
Sport field	Cultivated land	Paved surface✓	Building or other structure✓	Bare soil✓

Information attained from RPM-RS Biodiversity Action Plan.

If any of the boxes marked with an “E” is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn’t have the necessary expertise.

#### 5. Land Use Character of Surrounding Area

Indicate land uses and/or prominent features that does currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

**NB: Indicate by highlighting/ticking**

**5.1 Natural area**✓

5.2 Low density residential

**5.3 Medium density residential**✓

5.4 High density residential

5.5 Informal residential<sup>A</sup>

5.6 Retail commercial & warehousing

5.7 Light industrial

5.8 Medium industrial<sup>AN</sup>

**5.9 Heavy industrial** <sup>AN</sup>✓

5.10 Power station

**5.11 Office/consulting room**✓

5.12 Military or police base/station/compound

**5.13 Spoil heap or slimes dam**<sup>A</sup>✓

5.14 Quarry, sand or borrow pit

5.15 Dam or reservoir✓

5.16 Hospital/medical centre

5.17 School

5.18 Tertiary education facility

5.19 Church

5.20 Old age home

5.21 Sewage treatment plant<sup>A</sup>

<sup>1</sup> It is WSP's opinion that no specialist study is required due to the limited availability of plant species found on site and is dominated by alien species.

**5.22 Train station or shunting yard<sup>N</sup>✓**

**5.23 Railway line<sup>N</sup>✓**

5.24 Major road (4 lanes or more)<sup>N</sup>

5.25 Airport<sup>N</sup>

5.26 Harbour

5.27 Sport facilities

5.28 Golf course

5.29 Polo fields

5.30 Filling station<sup>H</sup>

5.31 Landfill or waste treatment site

5.32 Plantation

5.33 Agriculture

**5.34 River, stream or wetland✓**

5.35 Nature conservation area

5.36 Mountain, Koppie or Ridge

5.37 Museum

5.38 Historical Building

5.39 Protected Area

5.40 Graveyard

5.41 Archaeological Site

**5.42 Other land uses (specify) ✓**

**- Underground Mining Shaft✓**

**If any of the features marked with an "N" are highlighted or ticked, how this will/be impacted upon by the proposed activity?**

There is a railway and railway station located on the boundary of the Klipfontein Concentrator. No impact is anticipated on the said infrastructure as a result of the Proposed Project. All decommissioning and demolition activities will take place within the boundaries of the Klipfontein Concentrator fence line.

**If any of the features marked with an "An" are highlighted or ticked, how will this impact/be impacted upon by the proposed activity?**

If YES, specify and explain:

The Klipfontein Concentrator itself is considered a heavy industrial activity. Activities in all compass directions are associated with heavy mining industry. As such, the Klipfontein Concentrator and the activities proposed will fit into the sense of place and thus the Proposed Project will not significantly impact upon any adjacent associated mining activities.

**If any of the features marked with an "H" are highlighted or ticked, how will this impact/be impacted upon by the proposed activity.**

If YES, specify and explain:

If YES, specify:

## 6. Cultural/Historical Features

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the site?

Yes	<b>No</b> ✓
Yes	<b>No</b> ✓

N/A

If uncertain, conduct a specialist investigation by a recognised specialist in the field to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist:

N/A

Will any building or structure older than 60 years be affected in any way?

<b>Yes</b> ✓	No
--------------	----

Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

Yes	<b>No</b> ✓ <sup>2</sup>
-----	--------------------------

If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.

Section 34 (1) of NRA does not apply and the applicant does not require a heritage permit prior to Proposed Project commencement. WSP confirmed this understanding with the SAHRA and the Provincial Heritage Department (refer to formal letters received from the nation and Provincial Departments contained in **Appendix E**).

<sup>2</sup> Although the structure is older than 60 years it is not considered culturally significant

---

# SECTION C: PUBLIC PARTICIPATION

## 1. Advertisement

The person conducting a public participation process must take into account any guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of the application which is subjected to public participation by—

- (a) Fixing a notice board (of a size at least 60cm by 42cm; and must display the required information in lettering and in a format as may be determined by the competent authority) at a place conspicuous to the public at the boundary or on the fence of—
  - (i) The site where the activity to which the application relates is or is to be undertaken; and
  - (ii) Any alternative site mentioned in the application.

In accordance with GNR 543, Section 54, site notices were erected on 8 July 2014 in and around the Klipfontein Concentrator areas. A list of places where the site notices were erected is included below. Refer to **Appendix E** for a copy of the site notice and photographs of the site notices.

Site notice positions:

- Entrance to the Klipfontein Concentrator;
- The Platinum Health Medical Centre Notice Board;
- The Rustenburg Public Library;
- Intersection of Road to Marikana & Road to Khomani Mine (25° 41' 58.31" S 27° 21' 58.67" E);
- The RPM-RS Recreational Centre; and
- Entrance to the Klipfontein Residential Area to the south of the Klipfontein Concentrator (25° 42' 17.68" S 27° 22' 00.45" E).

- (b) Giving written notice to—
  - (i) The owner or person in control of that land if the applicant is not the owner or person in control of the land;
  - (ii) The occupiers of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iii) Owners and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
  - (iv) The municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;
  - (v) The municipality which has jurisdiction in the area;
  - (vi) Any organ of state having jurisdiction in respect of any aspect of the activity; and
  - (vii) Any other party as required by the competent authority;

- i. The owner of the land is the Royal Bafokeng Nation (RBN) who was informed via a notification letter and on-going communication following review of the Draft BA Report;
- ii. The facility is redundant. Security officers monitor the site have been informed of the Proposed Project

- via verbal communication from the Concentrator Manager;
- iii. RPM-RS own the land surrounding the Klipfontein Concentrator. The occupiers of the residential housing south of the Klipfontein Concentrator have been informed via site notice and newspaper advert;
  - iv. The ward councillor has been informed by email/fax and telephone call;
  - v. The RLM has been informed by written notice;
  - vi. Various commenting authorities such as the DWS and the SAHRA have been notified of the Proposed Project; and
  - vii. The general public have been notified via the newspaper adverts and the distribution of site notices.

In accordance with Regulation 54 (2b), notices in the form of background information documents and letters of invite were emailed and faxed to all stakeholders indicated above where applicable. In addition, the stakeholder database (developed during previous projects) provided by RPM-RS was utilised by WSP. The database includes the land owner, general public, employees of RPM-RS and organs of state that have jurisdiction over the Proposed Project. Refer to **Section 6** in this report for a list of authorities consulted. Proof of the various methods of communication and the original documents are contained within **Appendix E**.

- (c) Placing an advertisement in—
  - (i) One local newspaper; or
  - (ii) Any official Gazette that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations;
- (d) Placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the metropolitan or local municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official Gazette referred to in subregulation 54(c)(ii); and

In accordance with Regulation 54 (c and d), newspaper advertisements were placed in the Rustenburg Herald and the Platinum Weekly on 10 and 11 July 2014. The newspaper advertisement contained information of the Proposed Project and invited the public to register as a stakeholder. Proof of publication is included in **Appendix E**.

- (e) Using reasonable alternative methods, as agreed to by the competent authority, in those instances where a person is desiring of but unable to participate in the process due to—
  - (i) Illiteracy;
  - (ii) Disability; or
  - (iii) Any other disadvantage.

None have been identified by the EAP. The EAP will react upon request by the competent authority or a stakeholder.

## 2. Content of Advertisements and Notices

A notice board, advertisement or notices must:

- (a) Indicate the details of the application which is subjected to public participation; and



- 
- (b) State—
- (i) That the application has been submitted to the competent authority in terms of these Regulations, as the case may be;
  - (ii) Whether basic assessment or scoping procedures are being applied to the application, in the case of an application for environmental authorisation;
  - (iii) The nature and location of the activity to which the application relates;
  - (iv) Where further information on the application or activity can be obtained; and  
The manner in which and the person to whom representations in respect of the application may be made

See **Appendix E** for advert and notice content.

### 3. Placement of Advertisements and Notices

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the competent authority in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any Gazette that is published specifically for the purpose of providing notice to the public of applications made in terms of the EIA regulations.

Advertisements and notices must make provision for all alternatives.

The Proposed Project will not result in impacts outside of the RLM. As such, newspaper adverts were placed in a regional and local newspaper, not a national newspaper.

The advert included reference to the following:

- An application has been submitted to the NWREAD to obtain Environmental Authorisation;
- A Proposed Project description;
- Location of the Proposed Project; and
- Details of the EAP from which further detail can be obtained.

*No Proposed Project location alternatives have been identified which was stipulated in the stakeholder notification material distributed.*

---

#### 4. Determination of Appropriate Measures

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

WSP did not undertake a public meeting for the Proposed Project as the level of public interest in the Proposed Project is not considered high. Following public review of the Draft BA Report, WSP only received project related notable comments from the land owner. As such, WSP corresponded directly with the land owner regarding the queries (contained in the issues trail).

#### 5. Comments and Response Report

The practitioner must record all comments and respond to each comment of the public before the application is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to this application. The comments and response report must be attached under **Appendix E**.

WSP have to date received the comments from the following parties (excluding authority correspondence):

- The Land owner.
- A Cleaning Company (Frederick R Motsepe).
- A stakeholder seeking employment.

The issues and responses report has been updated following the Draft BA report public review period (see **Appendix E**).

#### 6. Authority Participation

Please note that a complete list of all organs of state and or any other applicable authority with their contact details must be appended to the BA Report, whichever is applicable.

*Authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input.*

*List of authorities informed:*

NWREAD	Admin Building Office No. 81 114 Chris Hani street Potchchefstroom 2531	Tel: (018) 389 5959/5156 Fax: (018) 389 5006 Email: Moragorago Mabula
DMR	Vaal University of Technology Building, c/o Voortrekker & Margaretha Prinsloo Streets, klerksdorp, 2570	Tel: (018) 487 9830 Fax: (018) 462 9039
DWS	Old Rustenburg Rd, Hartbeespoort, Brits, 0216, South Africa	Tel: (012) 253 1093/8
Bonjanala Platinum District Municipality	Corner Beyers Naude & Fatima Bhayat Drive, Rustenburg, 0300	Tel: (014) 590 4500 Fax: (014) 592 6085
RLM	159 Nelson Mandela Drive, Rustenburg, 0299	Tel: (014) 590 3111 Fax: (014) 592 0181
DRDLR	Surveyor-General: Pretoria (Gauteng and North West)	Tel: (012) 303 1601
SAHRA	111 Harrington Street, PO Box, 4637, Cape Town, 8000, South Africa	Email: phine@sahra.org.za
North West Provincial Heritage Resource Authority	Gabomotho Building, Dr James Moroka Drive, Office No B27, Mmabatho, 2735	Tel: 082 344 1626 or 073 207 1996 Email: mosianem@nwpg.gov.za

*List of authorities from whom comments have been received:*

- SAHRA.
- North West Provincial Heritage Resource Authority.
- RLM.
- DMR.
- NWREAD.

## 7. Consultation with Other Stakeholders

Note that, for linear activities, or where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub-regulation to the extent and in the manner as may be agreed to by the competent authority.

Proof of any such agreement must be provided, where applicable.

*Has any comment been received from stakeholders?*

Yes ✓	No
-------	----

---

*If “YES”, briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):*

- RBN (the land owner).
    - The RBN raised questions regarding the contaminated land on the Klipfontein site. The queries related to what assessment work had been undertaken by the RPM:RS to date, NEM:WA Part 8 relevance to the Klipfontein site and costs regarding remediation of the site.
  - Cleaning Company seeking commercial opportunities.
  - Stakeholder seeking employment.
- Copies of communication contained within **Appendix E**).

# SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2010, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

## 1. Issues Raised by Interested and Affected Parties

List the main issues raised by interested and affected parties.

No Comments received to date.

Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report as Annexure E):

No Response issued to date.

## 2. Impacts that may Result from the Proposed Project

List the potential direct, indirect and cumulative property/activity/design/technology/operational alternative related impacts (as appropriate) that are likely to occur as a result of the Planning and Design Phase, Construction Phase, Operational Phase, **Decommissioning** and Closure Phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed.

The environmental impact rating has been undertaken according to RPM-RS's 5x5 Impact Rating Matrix utilised to determine the significance of the potential impact as a result of the Proposed Project. This entailed:

- The identification of different environmental aspects, impacts, receptors and resources for the Decommissioning Phase;
- The identification of receptors and resources to provide an indication of the areas sensitivity to impact; and
- The identification of the significance of impacts, including the probability of occurrence; the intensity or severity of the change to the environment; the timing of the impact; duration over which an impact will be experienced; and the spatial extent of the impact.

Aspect	Consequence				
	1 Insignificant	2 Minor	3 Moderate	4 Major	5 Catastrophic
<b>Schedule</b>	Less than 1% impact on overall project timeline	May result in overall project timeline overrun equal to or more than 1% and less than 5%	May result in overall project timeline overrun of equal to or more than 5% and less than 20%	May result in overall project timeline overrun of equal to or more than 20% and less than 50%	May result in overall project timeline overrun of 50% or more
<b>Cost</b>	Less than 1% impact on the budget of the project	May result in overall project budget overrun equal to or more than 1% and less than	May result in overall project budget overrun of equal to or more than 5% and less than 20%	May result in overall project budget overrun of equal to or more than 20% and less than	May result in overall project budget overrun of 50% or more

Aspect		Consequence			
		5%		50%	
<b>Quality of Deliverables</b>	No significant impact on quality of deliverables	Quality issues that can be addressed prior to handover	Quality issues that can be addressed during ramp-up	Quality issues that require significant intervention to maintain performance	Quality issues that require significant intervention to achieve performance
<b>Safety/Health</b>	First aid case/Exposure to minor health risk	Medical treatment case/Exposure to major health risk	Lost time injury/Reversible impact on health	Single fatality or loss of quality of life/Irreversible impact on health	Multiple fatalities/Impact on health ultimately fatal
<b>Legal &amp; Regulatory</b>	Low level legal issue	Minor legal issue; non-compliance and breaches of the law	Serious breach of law; investigation/report to authority, prosecution and or moderate penalty possible	Major breach of the law; considerable prosecution and penalties	Very considerable penalties and prosecutions. Multiple law suits and jail terms
<b>Reputation/Social/Community</b>	Slight impact - public awareness may exist but no public concern	Limited impact - local public concern	Considerable impact - regional public concern	National impact - national public concern	International impact - international public attention
<b>Environment</b>	Minimal environmental harm - L1 incident	Material environmental harm - L2 incident remediable short term	Serious environmental harm - L2 incident remediable within LOM	Major environmental harm - L2 incident remediable post LOM	Extreme environmental harm - L3 incident irreversible

Likelihood		Risk Level				
<b>5 – Almost Certain</b>	90% and higher probability of occurring	11 (M)	16 (H)	20 (H)	23 (H)	25 (H)
<b>4 – Likely</b>	Between 60% and less than 90% of occurring	7 (M)	12 (M)	17 (H)	21 (H)	24 (H)
<b>3 – Possible</b>	Between 30% and less than 60% of occurring	4 (L)	8 (M)	13 (H)	18 (H)	22 (H)

Likelihood		Risk Level				
<b>2 – Unlikely</b>	Between 1% and less than 30% of occurring	2 (L)	5 (L)	9 (M)	14 (H)	19 (H)
<b>1 – Rare</b>	Less than 1% of occurring	1 (L)	3 (L)	6 (M)	10 (M)	15 (H)

Risk Rating	Guideline for Matrix
<b>21 to 25 Extreme (EX)</b>	<b>Eliminate, avoid, implement specific action plans/procedures to manage and monitor</b>
<b>13 to 20 High (H)</b>	<b>Proactive Management</b>
<b>6 to 12 Medium (M)</b>	<b>Actively manage</b>
<b>1 to 5 Low (L)</b>	<b>Monitor and manage as appropriate</b>

The potential environmental impacts associated with the Proposed Project have been evaluated according to their significance, which is determined as a result of the consequence and likelihood. Consequence is a function of schedule, cost, quality, safety/health, legal and regulatory, reputation and environmental impact, whereas the likelihood of the impact is a function of the frequency of the activity and frequency of the incident/impact. The consequence multiplied by the likelihood gives the significance of the potential impact. All impacts were assessed with and without management measures in place.

**Alternative (Preferred Alternative)**

**Direct Impacts:**

Impact Description	Consequences	Likelihood	Without Mitigation (Impact Rating)	Recommendation	Consequences	Likelihood	With Mitigation (Impact Rating)
<b>Topography</b>							
Removal of artificial structures and infrastructure.	3	5	20 (H) (positive)	Not applicable			
<b>Soils, Land Use and Land Capability</b>							
Potential soil erosion as a result of dismantling activities, leading to soil degradation and loss of topsoil.	2	3	8 (M)	As little vegetation as possible should be removed from the site in order to reduce soil erosion.	1	4	7 (M)
				Existing access routes should be used as much as possible in order to reduce the potential for soil compaction and soil erosion.	2	2	5 (L)
Potential hydrocarbon spillages from equipment, machinery and vehicles (including redundant equipment and transformers currently onsite at the concentrator) may lead to soil contamination, potentially impacting on surface water runoff and groundwater quality.	2	3	8 (M)	Equipment, machinery and vehicles should be serviced regularly at an offsite location, and daily inspections should be conducted to ensure that the equipment, vehicles and machinery are performing at optimum performance standards and to ensure that there are no leakages of vehicle fuel/oil tanks.	2	2	5 (L)
				The area chosen for the purpose of fuel and chemical management must be the minimum required.	2	2	5 (L)





			<p>The storage areas, accommodating hazardous substances such as fuel, oils and chemicals, must be securely fenced (under lock and key). The storage area floor must be an impermeable surface and suitably bunded to retain 110% of all the container volumes.</p> <p>Fuels, lube oils or other chemicals used outside of the bunded area should be kept to a minimum and suitable secondary containment in the form of drip trays should be used.</p> <p>In the event that oil traps or interceptors need to be used, maintenance should be undertaken on a regular basis and records maintained.</p> <p>All liquids stored on-site are to be labelled and identifiable. Material Safety Data Sheets (MSDS) for on-site chemicals, hydrocarbon materials and/or waste and hazardous substances must be readily available. MSDS must include mitigation measures to ameliorate any potential environmental impacts which may result from a spill, incorporating health and safety mitigation measures. The mitigation measures are to be applied in conjunction with the requirements of EMPr.</p>	2	2	5 (L)
			<p>Fuels, lube oils or other chemicals used outside of the bunded area should be kept to a minimum and suitable secondary containment in the form of drip trays should be used.</p>	2	2	5 (L)
			<p>In the event that oil traps or interceptors need to be used, maintenance should be undertaken on a regular basis and records maintained.</p>	1	2	2 (L)
			<p>All liquids stored on-site are to be labelled and identifiable. Material Safety Data Sheets (MSDS) for on-site chemicals, hydrocarbon materials and/or waste and hazardous substances must be readily available. MSDS must include mitigation measures to ameliorate any potential environmental impacts which may result from a spill, incorporating health and safety mitigation measures. The mitigation measures are to be applied in conjunction with the requirements of EMPr.</p>	2	2	5 (L)

				1	2	2 (L)
				1	2	2 (L)
				2	2	5 (L)
				1	2	2 (L)
				2	3	8 (M)
Potential spillages of dangerous materials associated with demolition of thickeners.	3	2	9 (M)	2	3	8 (M)
Disturbance and compaction of soil through dismantling activities leading to rapid surface water runoff, potential	2	3	8 (M)	2	2	5 (L)



erosion and degradation of soil characteristics.					access routes within the Klipfontein Concentrator thereby minimising soil compaction.			
					Soil will be ripped, aerated and re-vegetated during mine closure as per the current mine closure plan.	2	2	5 (L)
The removal of topsoil and sub-surface soil during any form of excavation on site which is required in order to remove redundant infrastructure.	4	1		<b>10 (M)</b>	Spoil material removed should be used for site rehabilitation i.e. the filling of excavated areas.	2	2	5 (L)
					The topsoil should be stockpiled separately from the spoil material to maintain the integrity of the soil for rehabilitation purposes.	3	1	4 (L)
					Topsoil and spoil stockpiles should be kept below a height of 2 meters in an effort to reduce erosion.	2	2	5 (L)
					Avoid topsoil stripping and handling in windy or excessive rainy conditions.	2	2	5 (L)
					Erosional channels on the stockpiles are to be managed by the application of erosion stabilising measures.	2	2	5 (L)
					Litter and general waste is to be removed from the soil before stockpiling.	3	1	4 (L)
Land use and land capability will remain as 'uses associated with mining', although the dismantling activity will assist in overall mine closure.	2	4		<b>12 (M) (positive)</b>	Not applicable.			
<b>Air Quality</b>								
Generation of particulate matter from dismantling and transportation of	3	5		<b>20 (H)</b>	Tarpaulins should be used to cover material being removed from site to	2	2	5 (L)

redundant materials and waste.					prevent the production of airborne (contaminated) dust material.				
					A complaints register must be provided to the public at an accessible location (i.e. site entrance point) to report any excessive dust incidents.	2			2
Generation of exhaust fumes from equipment, machinery and vehicles associated with the dismantling project.					Areas producing high concentrations of dust (access roads, soil stockpiles, dismantled material, etc.) should be sprayed with uncontaminated water, or a dust suppressant chemical to prevent dust production.	2			3
					All vehicles and machinery onsite should be maintained to ensure that emissions being created are not in excess of the manufacturer's specifications of exhaust CO <sub>2</sub> output. Inspections should take place on a weekly basis.	2			3
Release of volatile organic compounds (VOCs) associated with hydrocarbon spillages as well as potential spillages from equipment, machinery and vehicles during demolition.					No burning of waste should be permitted onsite.	2			1
					The contractor should order any equipment to be repaired or withdrawn from use if evident that it is not operating optimally.	2			2
					PPE should be provided to all onsite employees.	2			2
					All hydrocarbon spillages are to be cleaned as soon as practically possible with the use of spill kits onsite. The waste material should be managed and disposed	2			3



Release of VOCs from potential rupture of the transformers and structures associated with the substation that are located onsite.	4	2	14 (H)	of as hazardous waste.			
				The transformers are located within a banded area, however, spill kits are to be placed nearby to ensure any rupture is appropriately cleaned and the resultant waste material managed and disposed of according to the type of waste. Refer to Emergency Preparedness and Response Procedure.	2	2	5 (L)
<b>Surface Water</b>							
The dewatering of the filtration plant, if released, could contaminate soil and resultant surface water runoff from the site boundary.	4	5	17 (H)	All water that is dewatered from existing sumps is to be pumped directly into Intermediate Bulk Containers (IBCs).	2	2	5 (L)
				The water should be tested, and should the results indicate that no contaminants (hydrocarbons) are present; the water can be used for dust suppression activities.	2	2	5 (L)
				If the water is deemed contaminated, the water should be treated at an existing licensed plant or alternatively disposed of as hazardous waste.	2	2	5 (L)
Dewatering of the water within the settling plant, if released, could contaminate soil and resultant surface water runoff from the site boundary.	4	5	17 (H)	All water that is dewatered from existing sumps is to be pumped directly into IBCs.	2	2	5 (L)



Onsite disposal of materials (waste) associated with the dismantling activity could have an impact on the surface water runoff.	5	2	19 (H)		<p>surface water medium.</p> <p>If soil becomes contaminated, as a minimum it should be removed and placed on an impermeable surface (preferably a plastic sheet) and covered with a similar material to minimise surface water and soil contamination until the soil can be removed from the site.</p>	2	2	5 (L)
	2	19 (H)		<p>All waste is to be collected and transferred by a permitted waste contractor in accordance with the South African National Standard 10228 and disposed of at a permitted landfill site (unless required for reuse, recycling or treatment purposes). All records of waste removed, transported and disposed of is to be retained for a period of 5 years. Similarly, safety disposal certificates are to be retained as proof of correct disposal.</p>	2	5 (L)	2	5 (L)
				<p>Hazardous waste may not be stored onsite for a period longer than 90 days prior to disposal.</p>	2	5 (L)	2	5 (L)
				<p>Hazardous waste stored onsite should be undertaken in a manner which does not lead to contamination of soils, surface water and groundwater or air quality (i.e. contained within an impermeable container with not access to pollution</p>	2	5 (L)	2	5 (L)

					pathways).				
					Under no circumstances will any waste material generated from the dismantling project be disposed of onsite permanently.	2	2		5 (L)
<b>Groundwater</b>									
The permeation of contaminated surface water may have an impact on underlying groundwater off the site.	4	3	14 (H)		A clean and dirty water system is present at the Klipfontein Concentrator. All dirty water (i.e. water originating within the site) is directed to drainage sumps and contained within the site boundary. All clean water is directed around the site.	2	2		5 (L)
					If soil becomes contaminated, it should be removed and placed on an impermeable surface (preferably a plastic sheet) and covered with a similar material to minimise surface water and soil contamination until the soil can be removed from the site.	3	3		8 (M)
					A spill kit should be available at all times during the decommissioning activities.	2	2		5 (L)
					All water that is dewatered from existing sumps is to be pumped directly into IBCs.	2	2		5 (L)
					The water can be tested, and should the results indicate that no contaminants (hydrocarbons) are present;	1	2		2 (L)



Potential contamination of groundwater sources associated with mismanagement of materials generated from the dismantling process.	4	3	14 (H)	the water can be used for dust suppression activities.			
				If the water is deemed contaminated, the water should be treated at an existing licensed plant or alternatively disposed of as hazardous waste.	2	2	5 (L)
	14 (H)	3	14 (H)	All materials resulting from dismantling are to be immediately removed from site or stored temporarily prior to removal from site.	1	3	4 (L)
				The temporary storage is to be undertaken on an impermeable surface in the case of dangerous goods.	3	3	8 (M)
				Inert waste to be temporarily stored in a designated area which is sign boarded to ensure awareness of any safety related issues.	3	3	8 (M)
	14 (H)	3	14 (H)	If soil becomes contaminated, it should be removed and placed on an impermeable surface (preferably a plastic sheet) and covered with a similar material to minimise surface water and soil contamination until the soil can be removed from the site.	3	3	8 (M)
<b>Fauna</b>							
Fauna within the site may be disturbed during the decommissioning activities. This may be as a result of heavy machinery and vehicles operating onsite.	3	5	20 (H)	Vehicles, machinery and equipment should be limited to pre-defined access routes within the Klipfontein Concentrator thereby minimising the overall footprint of the	2	2	5 (L)

				Proposed Project.			
Fauna could be harmed during transportation activities associated with the decommissioning of the infrastructure associated with the Klipfontein Concentrator.	2	3	<b>8 (M)</b>	No transportation should be allowed after dark due to visibility.	2	2	<b>5 (L)</b>
			<b>8 (M)</b>	The area disturbed by the Proposed Project should be the minimum required.	2	2	<b>5 (L)</b>
			<b>8 (M)</b>	If rare or protected plant species are found on-site, a permit needs to be acquired for their relocation. The South African Biodiversity Institute (SANBI) must be approached in order to give input and assist with the relocation.	2	2	<b>5 (L)</b>
			<b>8 (M)</b>	All personnel involved with demolition and dismantling activities are to be encouraged to remain within demarcated areas as indicated on the site plan.	2	2	<b>5 (L)</b>
			<b>8 (M)</b>	Each vehicle transporting any material (contaminated waste, reusable and recyclable material, etc.) from site should have an emergency response procedure in case of emergencies.	2	2	<b>5 (L)</b>
			<b>8 (M)</b>	Vehicles leaving the site and entering the public road network should be authorised to do so in accordance with relevant legislation.	2	2	<b>5 (L)</b>

Fauna may be impacted during the disturbance of contaminated soil from particle (contaminated dust) exposure.	2	4	<b>12 (M)</b>	Areas producing high concentrations of dust (access roads, soil stockpiles, dismantled material, etc.) should be sprayed with uncontaminated water, or a dust suppressant chemical to prevent contaminated dust production.	2	2	5 (L)
Potential impacts on fauna from VOCs downwind of potential spillages and leakages of vehicles, machinery and equipment (including redundant equipment and transformers currently onsite at the concentrator).	2	3	<b>8 (M)</b>	Equipment, machinery and vehicles should be serviced regularly at an offsite location, and daily inspections should be conducted to ensure that the equipment, vehicles and machinery are performing at optimum performance standards and to ensure that there are no leakages of vehicle fuel/oil tanks.	2	2	5 (L)
Vehicles should be fitted with high visibility reflectors and lights as a warning to fauna and humans which may be in harm's way. Furthermore, vehicles should be fitted with reverse light and siren indicators.	2	3	<b>8 (M)</b>	Ingress of any fauna into the areas of concern should be monitored and measures applied to discourage fauna from entering these areas (establish barriers if deemed necessary).	3	3	8 (M)
	2	2	<b>5 (L)</b>	All hydrocarbon spillages are to be cleaned as soon as practically possible with the use of spill kits onsite.	2	2	5 (L)

Fauna occurring naturally in the area may be harmed by hunting or poaching from onsite employees during the decommissioning activities.	2	1	1	3 (L)	The waste material should be managed and disposed of as hazardous waste.			
					A site induction presentation should be given to site workers, which states that the hunting or poaching of animals is strictly forbidden.	1		1 (L)
					Regular toolbox talks are to be held within which hunting and poaching onsite is prohibited.	1		1 (L)
					Issue information flyers containing all actions prohibited onsite including that of poaching and hunting.	1		1 (L)
					Erect posters to notify and emphasise the prohibition of such acts.	1		1 (L)
<b>Flora</b>								
The impact of demolition of infrastructure may lead to the destruction of vegetation occurring within pockets on the Klipfontein Concentrator site.	1	5	11 (M)	Vehicles, machinery and equipment should be limited to pre-defined access routes	1		4	7 (M)
				Noise abatement equipment should be retrofitted onto demolition equipment and machinery if generating excessive noise.	1		4	7 (M)
				Demolition activities should be limited to daylight hours for both disturbance and safety reasons associated with fauna and humans.	1		4	7 (M)
				As little vegetation as possible should be removed from the site in order to maintain as much biodiversity as possible and	2		2	5 (L)





Decommissioning and dismantling activities will result in usable and un-usable materials. The un-usable materials which cannot be recycled will require disposal as a waste material. The waste will require temporary storage, transport and permanent disposal.	3	4	17 (H)	on-site. Furthermore, the induction and toolbox talks are to contain reference to waste minimisation, management and correct disposal.			
				There should be an adequate number of general waste receptacles onsite at any given time during decommissioning activities. The receptacles are to be appropriately labelled, lined and covered.	1	3	4 (L)
				The general waste should be sent to a registered or licensed disposal facility unless re-use or recycling is deemed reasonable and achievable.	1	3	4 (L)
				Signage prohibiting littering and burning of waste onsite should be erected at strategic points around the site.	1	3	4 (L)
				No general waste is to be disposed of within any stockpiles onsite.	1	3	4 (L)
				No hazardous waste may be disposed of as general waste. If the general waste comes into contact with hazardous waste, all the waste should be disposed of as hazardous waste.	2	3	8 (M)
				Hazardous and general wastes are to be stored and disposed separately.	1	3	4 (L)
				All reusable, recyclable and redundant materials are to be removed and sold by an independent removal company or be stored	1	3	4 (L)

					within the existing workshops for future reuse.				
					Hazardous waste - soil contaminated is to be stockpiled separately to uncontaminated soil. Thereafter the contaminated soil should be removed from site and treated or disposed of as appropriate.	2	3		8 (M)
<b>Traffic</b>									
Contractor vehicles transporting waste materials to a landfill site, and transporting recyclable/reusable/redundant materials to the salvage yard, may impact on the traffic flow of the area.	3	5	20 (H)		Vehicles leaving the site should be scheduled at intervals and no transportation should be allowed after dark.	2	2		5 (L)
					A route of least resistance or impact is to be devised by the site manager (i.e. the route which contains the least right turns across oncoming traffic).	2	2		5 (L)
					Each vehicle transporting any material (contaminated waste, reusable and recyclable material, etc.) from site should have an emergency response procedure in case of emergencies.	2	2		5 (L)
					Vehicles should be covered if transporting waste considered dangerous or toxic and easily windborne.	2	2		5 (L)
					Vehicles should meet the standards of the Hazardous Substances Act and associated SANS code (10228) prior to entering the road network.	2	2		5 (L)





The leakage/spillage of hazardous materials from the transport vehicles may result in the contamination of land en-route to the landfill site and salvage yard.	3	3	<b>13 (H)</b>	Every vehicle being used to transport contaminated soil should be fitted with a spill kit.	2	2	5 (L)								
				Each vehicle should be provided with a spill response plan.	2	2	5 (L)								
				The vehicle driver is to be appropriately trained on the measures which should be applied according to the spill response plan.	2	2	5 (L)								
				The vehicle driver is to be in possession of the correct license (i.e. license should make provision for the transport of hazardous goods/wastes).	2	2	5 (L)								
				Ensure that all vehicles transporting hazardous material conform to SANS 10228. Vehicles are to have appropriate signage providing accurate information about the nature and properties of the load.	2	2	5 (L)								
				<b>7 (M)</b>	4	1	<b>7 (M)</b>	Depending on the traffic loads expected, RPM-RS should inform the road traffic department (local and provincial departments).	2	2	5 (L)				
								Determine the capacity of the road network in terms of structural integrity prior to utilising heavy vehicles.	2	2	5 (L)				
								Monitor road deterioration on a monthly basis to determine if the activities onsite may be resulting in excessive damage (undertake corrective	2	2	5 (L)				
								Increase of traffic in and around the Klipfontein Concentrator decommissioning and dismantling process.	1	4	<b>7 (M)</b>				

							reasonable measures if deemed appropriate).				
							The majority of material and waste transport is to be undertaken in a manner which avoids prime time traffic periods (i.e. avoid period between 07:00am and 09:00am as well as the period between 16:00pm and 18:00pm).	2	2		5 (L)
<b>Archaeological, Cultural and Heritage</b>											
1	1	1	1 (L)				RPM-RS has developed a Heritage Management Plan for the Rustenburg Mining Operations. Any commitments identified within this plan will be adhered to.	1	1		1 (L)
							If an artefact/midden/grave is uncovered on-site, work in the vicinity must be stopped immediately; SAHRA is to be contacted and will appoint an archaeological consultant.	1	1		1 (L)
							Work may only resume, once clearance is given in writing by the archaeological consultant.	1	1		1 (L)
2	5	1 (L)					Upon request from the SAHRA, RPM-RS is to undertake a heritage impact assessment (HIA).	1	1		1 (L)
							Any mitigation measures proposed by the HIA specialist are to be adopted by RPM-RS during all Proposed Project Phases. Furthermore, any recommendations contained within the mine	1	1		1 (L)
As the Klipfontein Concentrator was constructed during 1930, and was commissioned in 1931, the structures associated with the Klipfontein Concentrator are older than 60 years. The dismantling activities could have an impact on historic aspects within the area.											

				<p>wide HIA are considered applicable to the Proposed project site.</p> <p>Areas or structures identified by the mine wide HIA which are deemed to be of significant cultural or heritage value are to be maintained onsite. RPM-RS may negotiate with the SAHRA if RPM-RS deem the recommendation unreasonable.</p>	1	1	1 (L)
<b>Health and Safety</b>							
<p>Social ills associated with the temporary influx of contractors and employees into the area during the decommissioning activity.</p>	2	3	5 (L)	<p>Employment is to be undertaken in accordance with RPM-RS's Employment Policy and where possible all labour and contractors must be sourced locally within the municipality. No recruitment at the construction-site is permitted.</p> <p>The labour and recruitment Policy must be developed, displayed and implemented by the contractor.</p> <p>Principles of Black Economic Empowerment (BEE), gender equality and non-discrimination must be implemented where possible.</p> <p>All affected landowners, are to be notified of any disruptions in writing prior to commencement and kept up to date of schedule changes.</p> <p>A complaints register should be kept at an accessible point on the site.</p>	5	5	24 (H) (positive)
							24 (H) (positive)
							24 (H) (positive)
							24 (H) (positive)

Potential injury from onsite accidents from machinery, equipment or vehicles during decommissioning.	5	3	22 (H)	<p>The following must be recorded:</p> <ul style="list-style-type: none"> <li>■ Time, date and nature of complaint;</li> <li>■ Response and investigation undertaken; and</li> <li>■ Corrective and preventative actions taken and by whom.</li> </ul>	2	2	5 (L)
				PPE should be worn onsite at all times (hard hat, dust mask, steel tip boots, gloves, eye protection, ear plugs when required, high visibility vests and an overall, etc.).	2		5 (L)
				A safety induction presentation should be undertaken by the employees before entering the site.	2		5 (L)
				Decommissioning activities should only be conducted during daylight hours.	2		5 (L)
				Toolbox talks should be held on a weekly basis within which health and safety related issues are raised and addressed.	2		5 (L)
				Ensure a person qualified in first aid is available throughout the demolition/dismantling activities and retain a first aid kit onsite. A monitoring checklist should be maintained to ensure that the contents of the first aid kit is tracked to ensure 24/7 availability in the case of an emergency.	2		5 (L)

				2	2	5 (L)
Exposure of VOCs to employee's onsite/downwind during decommissioning activity specifically associated with hydrocarbon spillages and transformer rupture.	3	2	9 (M)	2	2	5 (L)
Potential fires onsite may impact on onsite employee safety.	2	5 (L)	2	2	2	5 (L)
				2	2	5 (L)
				2	2	5 (L)
				2	2	5 (L)
				2	2	5 (L)



Potential accidents resulting from transport vehicles could have an adverse impact on both the social and biophysical environment.	3	5	<b>20 (H)</b>	Site vehicles should enter the road network at scheduled intervals (avoiding peak traffic hours) which will reduce the risk of accidents on the public road network. The emergency response procedure should be followed in case of emergencies such as accidents.	2	2	<b>5 (L)</b>
				If a spillage results from the accident, the spilled material is to be removed from the accident scene and the impact resulting remediated immediately.	2	2	<b>5 (L)</b>
				In the event that the accident involves another vehicle the relevant authorities are to be notified of the incident and responsive action implemented based on legal and insurance requirements.	2	2	<b>5 (L)</b>
The decommissioning activity may result in temporary skills development.	1	1	<b>1 (L) (positive)</b>	Where possible, labour must be sourced locally within the municipality.	5	5	<b>24 (H) (positive)</b>
				Principles of equality, gender equality and non-discrimination must be implemented.	5	5	<b>24 (H) (positive)</b>

**Indirect Impacts:**

Impact Description	C	L	Impact Rating	Recommendation	C	L	Impact Rating
<b>Waste Management</b>							
During the decommissioning and dismantling of infrastructure associated with the Klipfontein Concentrator, mismanagement of reusable, recyclable	3	4	<b>17 (H)</b>	All inert waste is to be collected and transferred by a permitted waste contractor and disposed of at a permitted landfill site. All records of waste	2	3	<b>8 (M)</b>

and redundant materials may result in the generation of solid waste that will require disposal.					removed, transported and disposed of is to be retained for a period of 5 years. Similarly, safety disposal certificates are to be retained as proof of correct disposal.		
<b>Traffic</b>							
Potential accidents resulting from transport vehicles could have an adverse impact on both the social and biophysical environment.	5	2	<b>19 (H)</b>		Vehicles leaving the site should be scheduled at intervals and no transportation should be allowed after dark. Each vehicle transporting contaminated material should have an emergency response procedure in case of emergencies.	2	<b>5 (L)</b>
<b>Employment</b>							
As reusable, recyclable and redundant materials may be made available for commercial resale, permitted communities may be positively affected by the Proposed Project.	4	3	<b>18 (H) (positive)</b>		All reusable, recyclable and redundant material should be sold to local Small Medium Micro Enterprises (SMME) where possible in order to support local business. The contractor appointed is to remove the material to the salvage yard where it can be sold. The reusable, recyclable and redundant material cannot be sold directly from the site due to health and safety related issues/requirements. Central Services are to arrange for the material to be stored at a facility which is sufficient to handle the volume of material and subsequently sell the material. RPM-RS is to consider undergoing a local SMME notification process to ensure that all local enterprises are aware of the potential opportunity afforded. RPM-RS is to maintain all records of notification. In the case of dangerous goods, the purchaser is to be authorised to handle such materials (i.e. be in possession or the relevant dangerous goods transport certificate and ensure that the destination is authorised to facilitate the storage, management or use of such a material).	5	<b>24 (H) (positive)</b>
						5	<b>24 (H) (positive)</b>
						5	<b>24 (H) (positive)</b>
						5	<b>24 (H) (positive)</b>
						5	<b>24 (H) (positive)</b>

**Cumulative Impacts:**

- *Dust Generation* – The cumulative impact of dust generation has a potentially medium significance as the mine does not currently generate dust within the sites





- proposed for dismantling. However, with the implementation of mitigation measures, as described above, the significance of this impact will be low.
- *Increased Traffic Flow* – The demolition activities will result in the transportation of various materials by road. This will result in a moderate increase of vehicle movement on and around site during the Decommissioning and Demolition Phase. However, with the implementation of mitigation measures, as described above, the significance of this impact will be low.
  - *Waste* – Disposal of waste generated from the dismantling activities could have a cumulative impact on the available space of the landfill. As the majority of the waste generated will be reused/recycled or sold as scrap, it is anticipated that this cumulative impact will not be significant.
  - *Employment Opportunities* – As reusable, recyclable and redundant materials may be made available for commercial resale, permitted communities may be positively affected by the Proposed Project.

### 3. Environmental Impact Statement

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

The information contained in the Draft BA Report provides a detailed description of the Proposed Project, the motivation to undertake the work and the stakeholder consultation process that was followed. The report also provides an EIA that identified potential impacts that may arise from the decommissioning activities and an EMPr that considers the impacts of the Decommissioning Phases associated with the Proposed Project.

Provided that the measures set out in the EMPr are adhered to, no significant negative biophysical or socioeconomic impacts should arise during the decommissioning activity. Furthermore, it should be noted that upon future remedy and rehabilitation of the site (not part of Proposed Project scope), additional management measures may need to be devised as a separate process.

It is the view of the EAP that the Proposed Project is needed to ensure the long-term health and safety of surrounding communities and the natural environment. The remediation of the site will need to be managed appropriately (i.e. according to the provisions of South African Environmental Legislation). Again, note that the remediation of the site does not form part of this application and is to be dealt with as a stand-alone process following the issuance of the Environmental Authorisation associated with decommissioning.

#### Alternative A (preferred alternative)

The preferred alternative involves the undertaking of the dismantling and demolition activities via a specialised contractor. The materials that can be reused, recycled or have commercial value will be transported to an offsite recycling company, whereas redundant equipment and materials that may be reused by RPM-RS will be stored onsite in workshops. Uncontaminated waste will be collected by a licensed waste contractor and transported by road to a suitable licensed landfill facility. The contaminated soil on site resulting from historic activities at the Klipfontein Concentrator will not be remediated as part of this application however, will be investigated upon completion of the decommissioning activities and during mine closure planning in line with mine closure objectives. The landowner will be proactively communicated with to ensure agreement and understanding of the way forward in terms of contaminated land remediation commitments.

#### No-go alternative (compulsory)

Should environmental authorisation not be granted by the NWREAD, the infrastructure associated with the Klipfontein Concentrator will not be dismantled and removed which will have direct costs implications related to unnecessary care and maintenance. The existence of the redundant Klipfontein Concentrator poses a safety risk to any members of the public whom gain access to the facility (unauthorised). Furthermore, theft has been noted as a threat to the Concentrator mobile equipment and materials.

During the dismantling activities, reusable, recyclable and materials with commercial value will be salvaged from the redundant concentrator and either stored onsite for future RPM-RS reuse or transported to offsite registered recycling merchants. The said activities will not be implemented should the Proposed Project not be authorised.

## SECTION E: RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the environmental assessment practitioner)?

Yes✓	No
------	----

If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment):

--

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

The conditions are set out in the Draft EMPr (**Appendix F**).

All the conditions in the EMPr must be implemented by the responsible parties.

Further to the EMPr conditions WSP recommend the following in light of the contaminated land aspect of the site:

- RPM:RS to communicate openly with the RBN (landowner) regarding contamination remediation requirements in terms of Part 8 of the NEM:WA.
- As per the 2011 Site Characterisation carried out by WSP, the Klipfontein Concentrator area requires remediation and as such a NEM:WA Part 8 application process will need to be evaluated.
- The 2011 Site Characterisation report indicates that a Phase II intrusive investigation is not required in light of RPM:RS contaminated land objectives however the following is suggested:
  - Contaminated soil must be excavated until spill is visually clean.
  - If heavy odours are still present, the area should be screened with a vapour detection/photo-ionisation device, to detect remaining 'hot- spots'.
  - Soil samples should be taken from the spill area.
  - Excavated area should not be backfilled until the residual soil is confirmed as meeting the 'clean' soil guideline, as further remediation may be required.
  - Soil samples should be analysed for, but not limited to, the following: Total Petroleum Hydrocarbons – modified Diesel Range Organics and Gasoline Range Organics, benzene, toluene, ethylbenzene, and xylenes (BTEX) for purgeables/extractables.

*Note: The 2011 Site Characterisation (**Appendix D**) was undertaken and issued in 2011 prior to the promulgation of Part 8 of the NEM:WA thus the indication to not undertake a Phase II intrusive investigation may need to be reinvestigated in light of the Legislation amendment.*

Is an EMPr attached?

Yes✓	No
------	----

The EMPr must be attached as **Appendix F**.

---

## SECTION F: APPENDICES

The following appendixes must be attached as appropriate:

**Appendix A:** Site plan(s)

**Appendix B:** Photographs

**Appendix C:** Facility illustration(s)

**Appendix D:** Specialist reports

**Appendix E:** Comments and responses report

**Appendix F:** Environmental Management Programme (EMPr)

**Appendix G:** Other information

# Appendix A: Maps/Figures

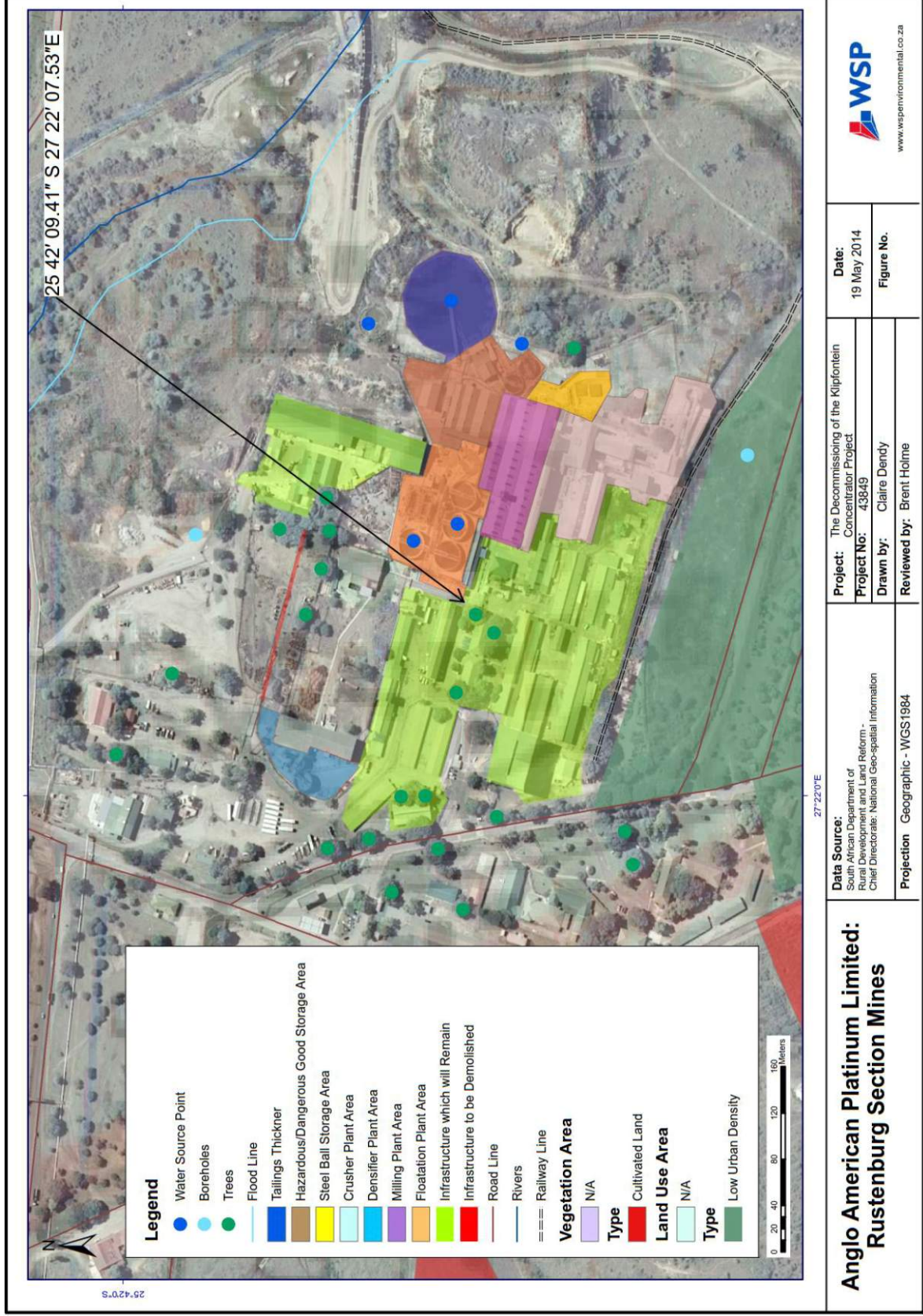


Figure 1: Site Plan

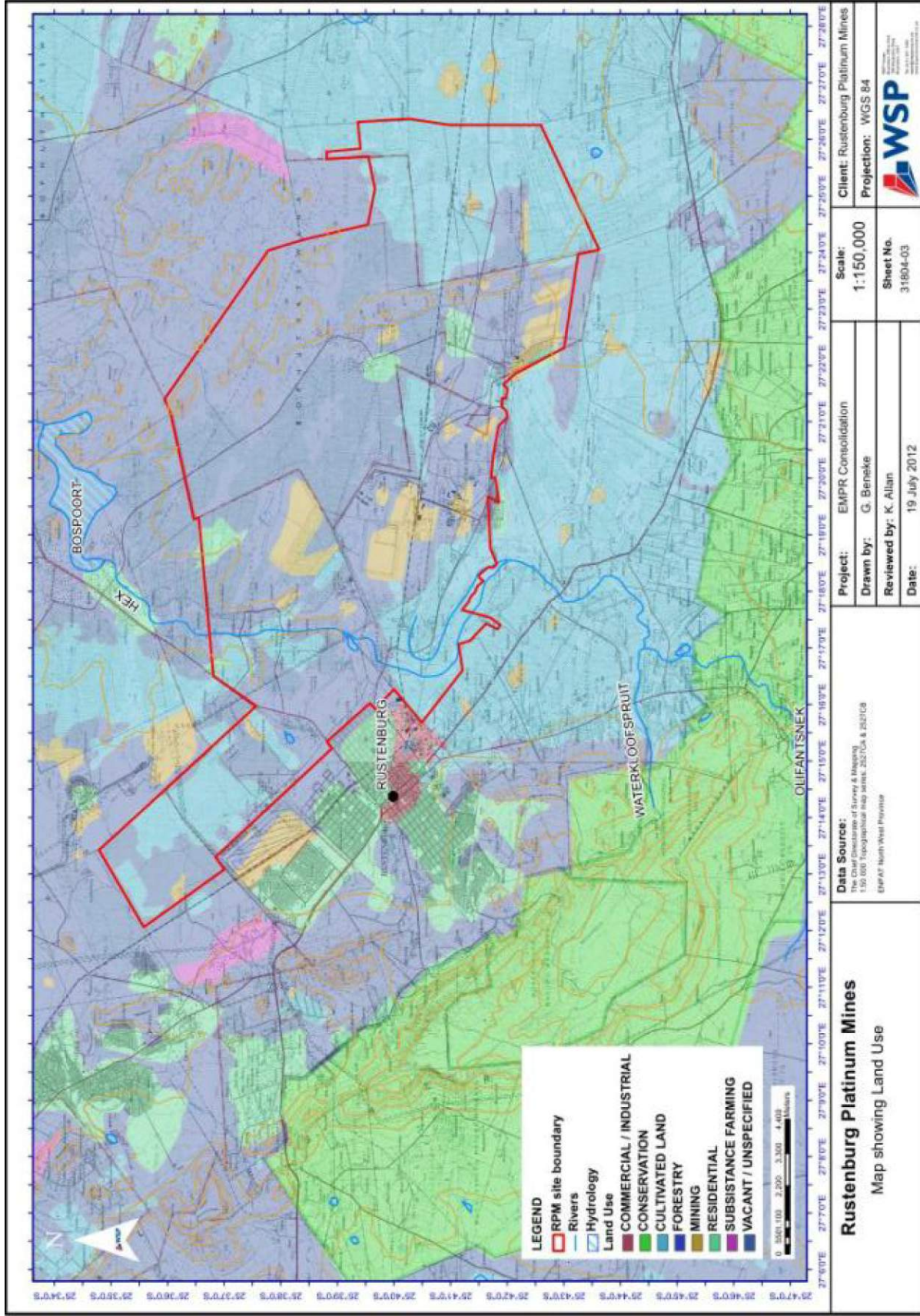
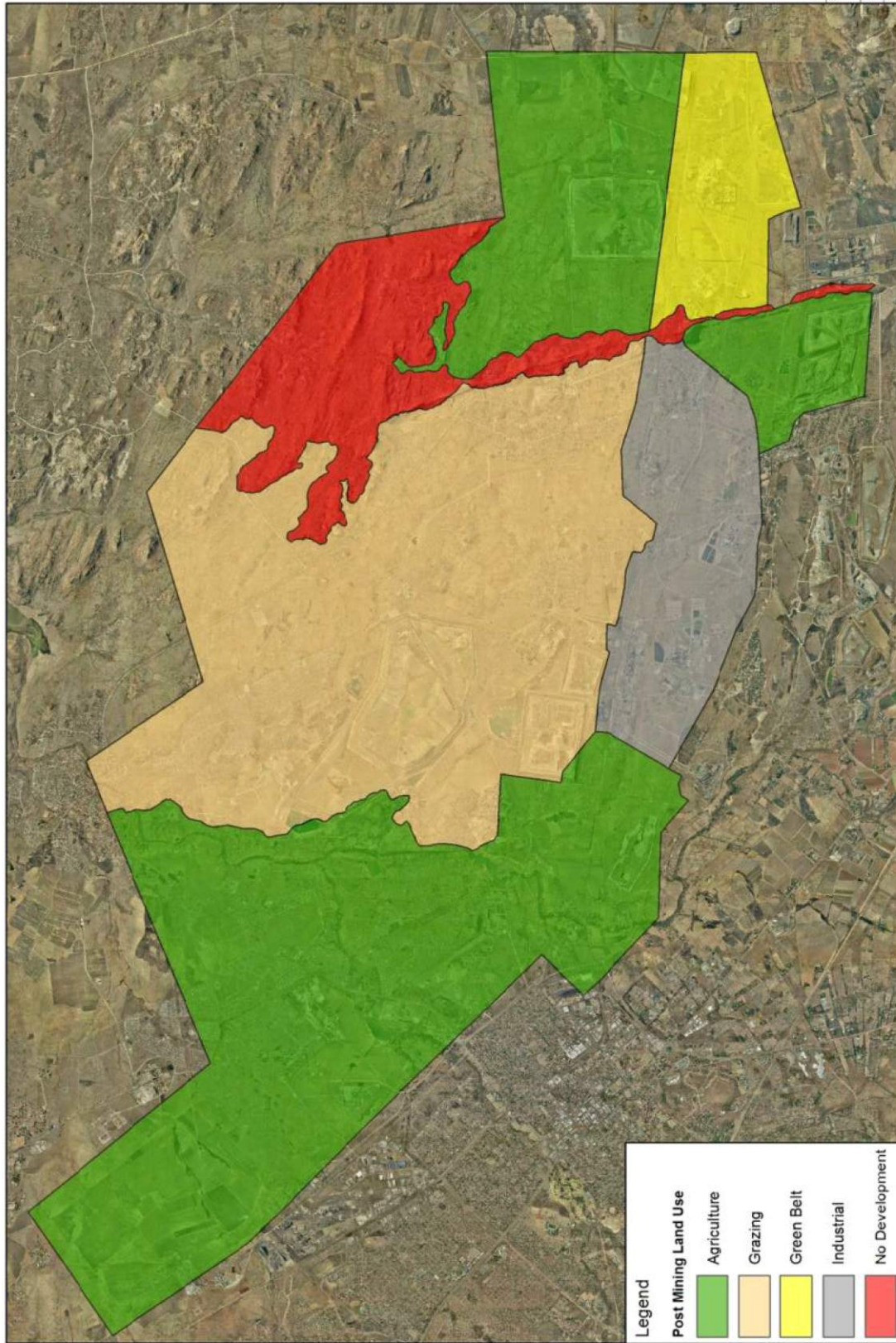


Figure 2: Current Land Use



Data Source:	
Scale:	1:70,000
Projection:	TM
Datum:	HR94
Central Meridian/Zone:	LO27
Date:	15/02/2013
Completed by:	SCHB
Project No.:	435110
Fig No.:	6-1
Revision:	A Date: 02/2013

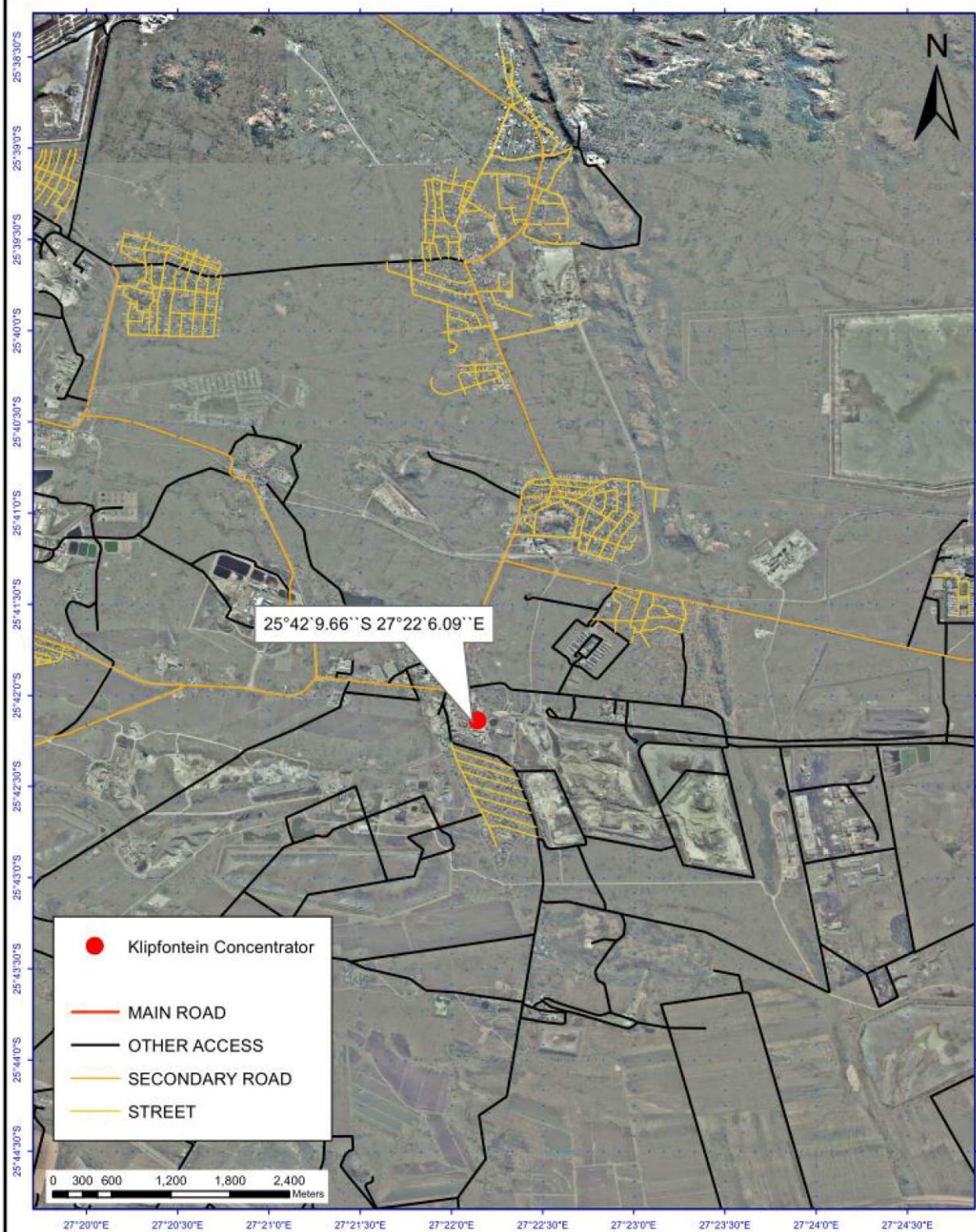
RPM CLOSURE PLAN  
PROPOSED POST CLOSURE LAND USE MAP



Path: J:\Proj\435110 - RPM Closure\GIS\PROJ\MXD\RPM\_Closure\_Plan\_Fig-1\_Post Closure Land Use\_Feb2013\_schb.mxd

Figure 3: Conceptual Planned Land Uses (RPM-RS Final Closure Plan, 2012)

**Rustenburg Platinum Mines**  
Figure 1




<b>Project:</b> The Decommissioning of the Klipfontein Concentrator Project	<b>Data Source:</b> South African Department of Rural Development and Land Reform - Chief Directorate: National Geo-spatial Information	<b>Date:</b> 19 May 2014	 <a href="http://www.wspenvironmental.co.za">www.wspenvironmental.co.za</a>
<b>Project No:</b> 43849-01	<b>Projection:</b> Geographic WGS 1984	<b>Figure No.</b>	
<b>Drawn by:</b> Claire Dendy		1	
<b>Reviewed by:</b> Brent Holme			

Figure 4: A3 locality map



---

## Appendix B: Site Photographs

# Site Photographs

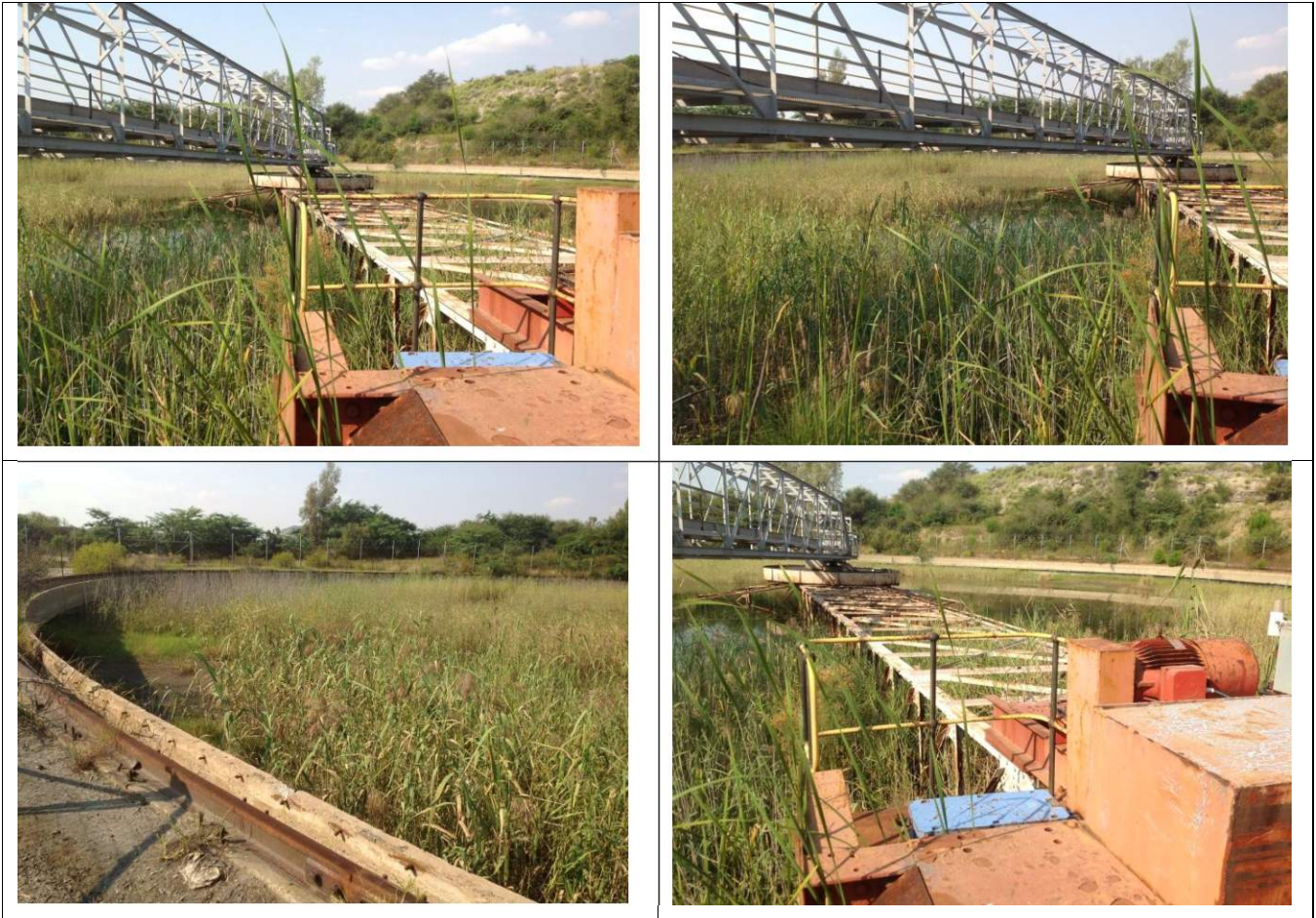
1 – Flotation Plant Area: Looking in a Westerly direction from the centre of the site being demolished.



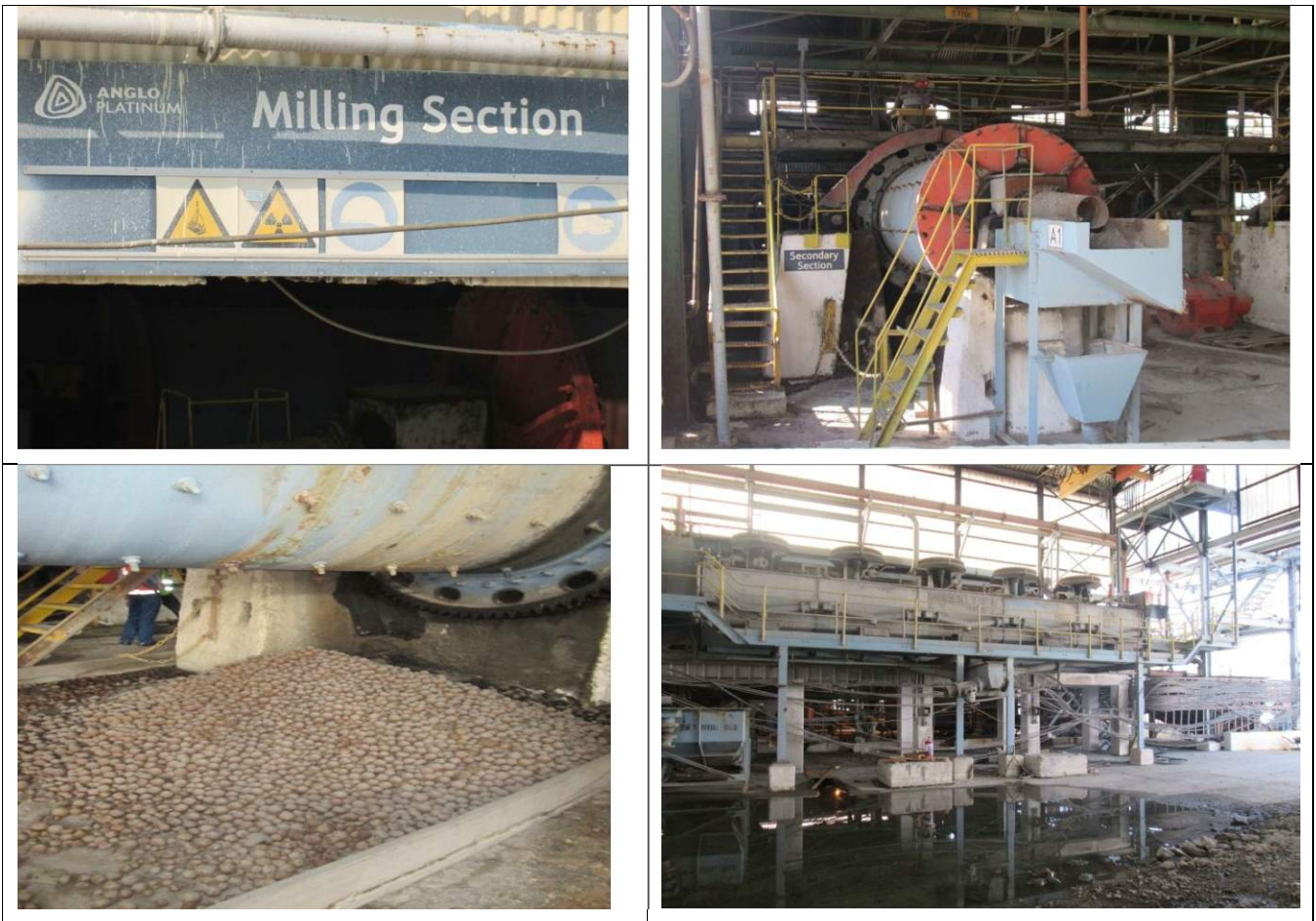
2 – Filtration Plant Area: Looking in a Easterly direction from the centre of the site being demolished.



3 – Return Water Dam: Looking in a Easterly direction from the centre of the site being demolished.



4 – Milling Plant Area: Looking in a Southerly direction from the centre of the site being demolished.



5 – Storage of Hazardous Oil: Looking in a South Easterly direction from the centre of the site being demolished.



6 – Crusher Plant Area: Looking in a Southerly direction from the centre of the site being demolished.



7 – Thickener Plant Area: Looking in a North Westerly direction from the centre of the site being demolished.





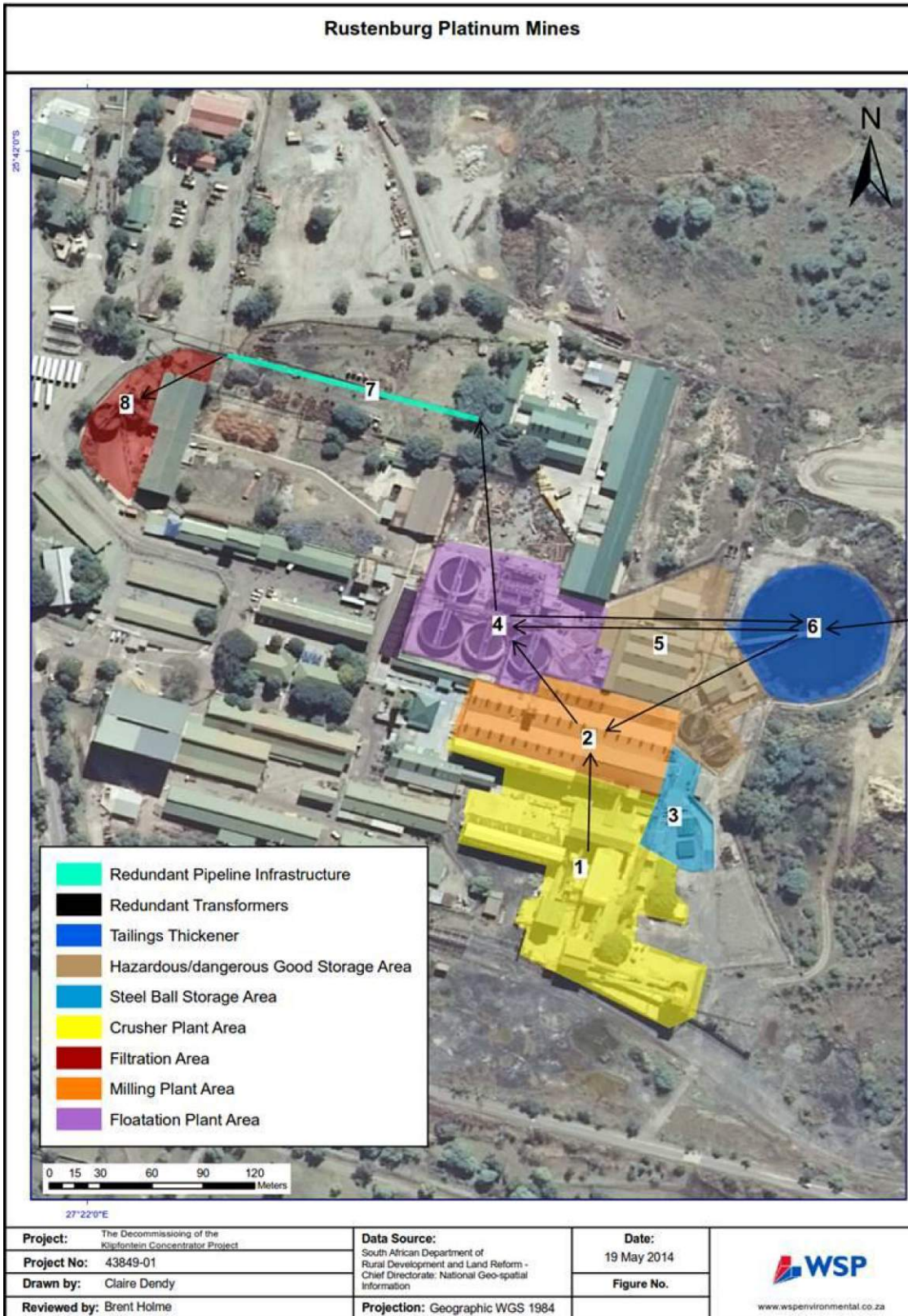
8 – Redundant Pipe Line Infrastructure: Looking in a North Westerly direction from the centre of the site being demolished



9 – Redundant Transformers: Looking in a Westerly direction from the centre of the site being demolished



# Appendix C: Facility Illustration(s)



**Figure 1: Facility Illustration Flow Diagram**

# Process Flow Chart Photographs

## Area 1

Silos and Conveyor System



Primary and Secondary Crushers



**Area 2**

**Milling Section**



**Area 3**

Steel Ball Storage Area



**Area 4**

**Floatation Plant**



**Area 6**

Tailings Thickener





**Area 7**

A Pipeline to the Thickener



**Area 8**

The Filtration Area



**Figure 2: Facility Illustration Photo Plate**

---

## Appendix D: Specialist reports



Contaminated Land Assessment and  
Remediation Strategy for Anglo Platinum Lease  
Area, Rustenburg

Anglo Platinum

December 2008

---

# QM

Issue/revision	Issue 1	Revision 1	Revision 2	Revision 3
Remarks				
Date	December 2008			
Prepared by	Dr J McStay			
Signature				
Checked by	S Doel			
Signature				
Authorised by	Dr J McStay			
Signature				
Project number	80202CL			
File reference				

WSP Environmental (Pty) Ltd  
WSP House  
Bryanston Place  
199 Bryanston Drive  
Bryanston

Tel: +27 (0)11 361 1377  
Fax: +27 (0)11 361 1381

---



---

# Contents





---

# 1 Terms of Reference

## 1.1 INTRODUCTION AND PROJECT MOTIVATION

The rapid expansion programmes associated with increased production at Anglo Platinum in Rustenburg has drawn attention to the status of contaminated land and regulatory requirements to provide reporting on the environmental risks posed by historic pollution impacts and measures to be taken to remediate the land ahead of new construction.

Failure to identify contamination issues ahead of project planning can result in delays on implementation of new business activities by slowing down the regulatory authorisation process. In addition new timelines have to be allowed for remediation activities to be completed before any new build can commence.

In the past the clean-up of land contaminated with mine waste residues or leakage of mine effluents has resulted in large volumes of soil being disposed of off-site as hazardous waste. This is a conservative approach and represents a 'last resort' which is assured of getting approval from the regulator. It is however an expensive option that is not consistent with the hierarchy of waste management which favours minimisation of waste to landfill.

The Waste Management Bill is in draft for further public consultation at present and there are reliable indications that the Bill will be passed in an amended form into law within the next year.

In the preamble to the Waste Management Bill it states that '*sustainable development requires that the generation of waste is avoided and where it cannot be avoided, that it is minimised, re-used, recycled or recovered...*'


Waste minimisation is a key strategy and it is recognised that '*waste is a resource and offers certain economic opportunities.*' It is therefore important to recognise any mine residues that may have economic potential as a resource and manage them as by-product and not as a waste material.

The Best Practicable Environmental Option for contaminated land in the mining sector should be site specific and risk-based. Only materials that pose a significant risk of significant harm to the environment or human health should be disposed of as hazardous waste. A number of on-site remediation options need to be developed with simple guidance criteria for regulatory approval and efficient implementation. The use of generic target and intervention levels from various international administrations is not recommended for the long term remediation objectives for an entire mining footprint. These levels often represent a site condition that is fit for all future land-uses, and are based on exposure pathways and human activity patterns that are not consistent with the local conditions or the closure objectives of the mine footprint for future land-use. These criteria should be adopted as a 'fail-safe' interim emergency measure for rapid remediation on high priority construction projects only.

There are a series of contamination issues that are not adequately covered in existing environmental management systems presently in use at Anglo Platinum. These issues were discussed at a Workshop with key staff on 4 March 2008 in Rustenburg.

Key areas of concern were identified :

- Define status of contamination. There is a need to evaluate the entire lease area and to identify and prioritise areas which are likely to require remediation now and into the future. There is a historic legacy of mining that has impacted on the land and the water resource, and a legal requirement to address contamination issues, which



---

attracts regulatory attention during the authorisation process. There may also be re-licensing applications and directives issued that may result in legal requirements to undertake remediation activities to prevent pollution.

It is acknowledged that mine closure planning is based on a 60 year life of mine and that remediation activities are thus likely to be triggered by business expansion programmes rather than closure plans. There is a need to clearly define what constitutes contaminated land in the context of the lease area and to negotiate site specific clean-up objectives and target levels for contaminants of concern with the regulators. At present it is recognised that certain soils could be termed highly contaminated with a high risk profile that require treatment and or disposal but there are also areas of low level contamination that need to be properly assessed, classified and 'signed off' as acceptable to remain on-site. It is necessary to address these issues in a spatial context, as space for stockpiling and treatment is limited and to identify opportunities for re-processing as a by-product, and re-use as bulk fill of soil materials.

- Chemical spills and accidental releases. On-going activities that pose a risk of contaminant release to the environment require a protocol for remediation. Although the initial emergency response activities on site are probably adequate for immediate minimisation of the hazard to human health the long term environmental clean-up protocols are under developed. Evaluation of remediation options for hydrocarbon spillages is typical of the activities that need to be addressed.
- Closure planning. Although not an issue of immediate concern the remediation of contaminated land on site has to be developed in a manner consistent with the closure plans for the lease area. The risk-based approach to the management of contaminated land is largely based on protecting the quality of land and natural resources (particularly the water resource) for future land use. Remediation objectives are thus closely tied to closure requirements.
- Sources of Contamination

The Workshop noted a series of contaminated areas, which require a risk assessment and a remediation plan.

- Contaminated soils as legacy from previous operations encountered in bulk earthworks for new infrastructure. Often large volumes of soil with relatively low levels of contamination with heavy metals and high sulphate concentrations.
- Hydrocarbon spillages both historic and operational incidents.
- Hazardous wastes from Central Salvage
- Leakage from Acid Plants
- Old Tar Pits
- Area 242: Tailings scavenging project
- Pollution Dam
- Seepage classification Channel and silt build up at return water dams
- Tailings dam erosion
- Existing waste dumps, including Old RAM landfill
- Groundwater contamination plumes associated with contaminated land and waste dumps.





---

## 2 Technical Approach

### 2.1 SOIL AND GROUNDWATER REMEDIATION IN THE MINING SECTOR

The following technical approach has been prepared to develop an assessment of the contamination footprint of the Anglo Platinum Lease Areas, and to develop a remediation master plan together with practical guidelines for implementation of future remediation activities. An overall strategy for contaminated land must be developed with local regulators and we are currently in favour of adopting the contaminated land clauses of the Draft Waste Management Bill within the framework of a voluntary agreement to be negotiated with the three principle government bodies: Department of Mineral Affairs and Energy, Department of Environmental Affairs and Tourism, and Department of Water Affairs and Forestry.

It is clear that at present that there is considerable uncertainty amongst regulators on the implementation of remediation plans in the mining sector and it thus important to take a proactive lead in developing a strategy that meets the aims and objectives of the Waste Management Bill. The strategy should aim to provide a consistent approach, which defines a sustainable benchmark that represents a long term commitment to best international practice and satisfies Anglo Platinum's company vision and environmental standards. The practical outcome of such a strategy should be to reduce timeframes on re-development of contaminated sites and to accurately predict and control remediation costs.

### 2.2 CONTAMINATED LAND - OVERVIEW OF KEY CONCEPTS

- The discussion that follows is a rapid overview of key constraints and opportunities that need to be understood in order to develop a consistent, cost effective and sustainable approach to remediation.
- Below are the Frequently Asked Questions we encounter when dealing with remediation issues.
- 'What is Contaminated Land?'

According to the Waste Management Bill, - 'contaminated' in terms of the Act *'means the presence in or under land, site, buildings or structures of a substance or micro-organism above the concentration which is normally present in or under that land which substances directly or indirectly affect or may affect the quality of soil or the environment adversely'*

This is a somewhat broad, catch-all, definition. Points of differentiation can be recognised and need to be defined. There are natural background levels of commonly occurring trace compounds in soil that can be used to define the status of contamination. The soil quality requirement suggests that remediation should be related to land use and be deemed 'fit for purpose' and protection of the environment in its broadest sense

- 'Is the Site Contaminated?'

According to the Waste Management Bill the site activity is regarded as high risk, with large quantities of potentially hazardous substances in stockpile or as wastes generated during production. Sites such as the Anglo Platinum Lease Area will be defined as contaminated until proven otherwise.

Assessment reports need to consider

- whether the contamination has already caused harm



- The substances are toxic, persistent, bioaccumulative, or are present in large quantities or high concentrations
- there are exposure pathways
- the uses of the land and land adjoining increases the risk of harm
- the substances have migrated or are likely to migrate
- the acceptable exposure for human and environmental receptors has been exceeded
- any standards set by the Minister or MEC have been exceeded.

All of the above require definition and raise the key questions to be addressed.

■ Has the contaminated already cause harm?

A straightforward question, but important to understand in the context of long term residual contamination that is slow to migrate but requires eventual clean-up to achieve long term land use objectives. Remediation projects thus tend to be reactive to emergency incidents of accidental release, where the environmental harm is immediate and obvious, and remediation is proactive and precautionary when dealing with legacy contamination.

'Harm' is unfortunately governed by perceptions and thus becomes a point of argument with regulators and neighbouring communities. 'Risk' for the proponent can be one of legal compensation for actual damages, legal compliance and dispute with regulators, or reputational risk to the business at a local or international level.

■ Are the substances harmful?

Heavy metals are persistent environmental toxins and therefore can be harmful to all forms of receptors at threshold concentrations in soil, water or air.

Organic contaminants are environmentally persistent to varying degrees. Chemical and biological decay may occur and can be enhanced.

Contaminants in large quantities and high concentrations. The most important issue facing Anglo Platinum is the high level of salts, particularly sodium sulphate impacting on the site footprint. Although non-toxic to human health the levels of sodium sulphate pose a risk to soil quality as a growing medium and provide a source of soluble salts that has a major impact on the quality of surface water and groundwater.

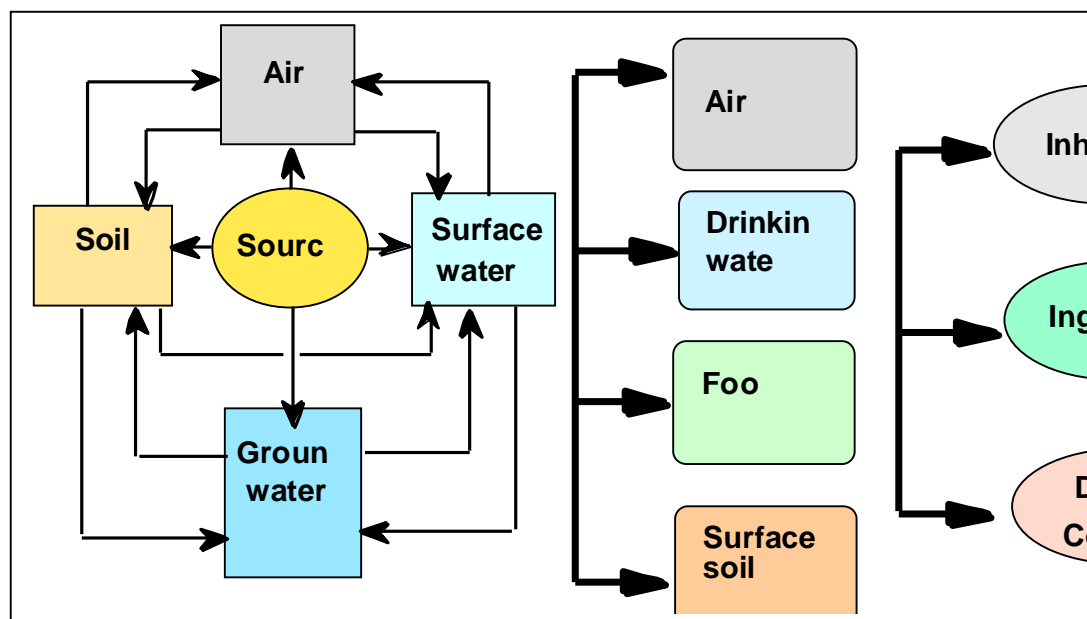
■ Exposure pathways and receptors

The most important theoretical component of risk-based remediation planning involves the development of the exposure model for the different receptors. This is dealt with in detail in Section 5. In simple terms certain contaminants are either highly immobile and remain concentrated at source and pose no significant risk of harm, or are mobile in the natural environment and pose a risk to various environmental media : soil, surface water, groundwater, air. The receptors can be human or ecosystem based, specific to the level of individuals or species and can even be related to corrosion potential of concrete structures.

■ Land Use

The land use defines the relevant receptor activity patterns and can be applied for the existing scenario and for future planning. The land use nominated in the Closure Plan would provide the motivation for remediation objectives to be set and met. There are fundamental differences in permissible levels of contaminants in soil that can be related to particular forms of land use. It is usually the lowest acceptable risk level of a particular contaminant in relation to land use that defines the risk of harm and thus sets the soil remediation target for clean-up actions. Different exposure scenarios will

generate very different safe target levels. Do not expect standards developed on the basis of aquatic toxicology (eg ARLs in DWAF 'Minimum Requirements') to be fully protective of human health, similarly human health based targets are not applicable for water resource management purposes.



Migration of contaminants

In the context of Anglo Platinum Rustenburg Lease Area the migration of soil contaminants, wastes and effluents to surface water and groundwater has to be assessed and properly understood. Off-site migration of contaminants on to neighbouring properties is a significant liability issue and is usually the trigger for regulatory intervention or third party claims and litigation. Although mainly considered to be a soil to water resource migration problem, migration of dust by airborne dispersion could be significant on the scale of Lease Area and is a pathway that needs to be assessed.

■ Acceptable Exposure Levels

At present there are no South African guidelines or standards available for the assessment of contaminated land, or the enforcement of existing legislation pertaining to soil pollution. The approach followed to date is either to adopt an appropriate international standard or to calculate site specific risk based exposure levels and then motivate the remediation criteria with the regulator and stakeholders. It is a fallacy that any particularly international guidelines have been adopted by South African regulators as best practice or have been issued as legally binding compliance criteria other than when specifically motivated by the proponent of a remediation plan.

It is anticipated that South Africa will eventually produce guidelines. These will be risk-based, receptor specific and land use related.

As Anglo Platinum Lease Areas can define its core contaminants of concern at source, can define its exposure pathways and receptor activity patterns and has clear Closure Plan objectives for future land use a series of soil contamination target values can be developed that meets the requirement of sustainability as envisaged in NEMA and would be compliant with the Draft Waste Management Bill.



---

## 2.3 ANGLO PLATINUM ENVIRONMENTAL VISION AND OBJECTIVES

The approach to remediation masterplanning should be consistent with the vision, objectives and company philosophy, and should follow the same general concepts as outlined in the site closure plan.

Anglo Platinum – Rustenburg Operations will aim for a sustainable post closure environment that is not harmful to the Safety and Health of surrounding communities or the environment.

Ensure adherence to local, provincial and national regulatory compliance (third party liability and corporate legal).

To develop landforms and land uses that are stable, sustainable and aesthetically acceptable on closure.

Achieve agreed quality targets set by CMA/DWAF as far as practical relative to impacts and reasonability to achieve.

Contaminated soils will be treated/disposed/remediated in-situ, in consultation with the authorities, to meet the requirements of final land use plan, without unduly negatively impacting on the health of surrounding communities or impacting on local ecology.

## 2.4 BEST PRACTICABLE ENVIRONMENTAL OPTION

The remediation strategy selected for a particular contamination concern should provide an appropriate level of environmental protection but also be practically achievable at an acceptable level of cost. A best practicable environmental option (BPEO) should be determined for all potential remediation activities.

Technical practicability needs to be demonstrated, this should include the immediate health and safety requirements that need to be met. Some situations result in contamination levels that cannot be satisfactorily remediated and a state of technical impracticability results (the US EPA uses the term TI waiver, to classify the status of sites that cannot be cleaned-up to pre-determined target levels and requires custodial care and measures such as isolate control and monitor to be put in place).

Short medium and long term environmental objectives need to be assessed on the basis of sustainability. The removal and disposal of contaminated soil is often favoured as a simple fast-track method of meeting short term remediation objectives. Longer term environmental impacts are often not assessed as the disposal site may be on off-site facility and thus the duty of care for the contaminated material has been transferred to a third party.

## 2.5 SUSTAINABLE REMEDIATION

The concept of sustainable remediation implies an entirely positive environmental impact with removal of environmental risk and no legacy contamination and with no landfilling. This involves assessing the wider environment. A typical feature would be using a carbon calculator to assess the carbon emissions associated with different remediation options. Techniques which favour in-situ chemical treatment, bioremediation or monitored natural attenuation are the most favoured form of sustainable remediation. Long timeframes for sustainable remediation may be an advantage in achieving remediation target values and thus could find acceptance within the mining sector.

It is important to be able to deal with actual risks rather than perceived risks and to aim for substantial betterment of a situation (ie reduction of risk) rather than absolute remediation.



---

## 3 Contaminated Land - Hotspots

Large sites tend to have a relatively diffuse ambient level of contamination usually associated with dust migration in addition to the natural background level of soil constituents. In mining areas the natural ground is anomalously enriched in certain metals as a result of the geological conditions that gave rise to the ore-bodies that are mined. High natural backgrounds are to be expected and should not be regarded as contamination.

Areas with high concentration or high quantities of contaminants are referred to as 'hotspots'.

Soil quality in some areas may be affected by contamination arising from mining and processing activities. It is likely the disposal of processing residues and effluent has had the largest impact on soil and groundwater but it is suspected that contamination is present at mine shafts, waste rock dumps and tailings facilities.

Contaminants of concern

- Metals from mined ore – nickel, copper, zinc and other heavy metals.
- Salts from processing activities – sodium and calcium sulphate
- Acid spillage and leakage of sulphuric, hydrochloric and nitric acid and their secondary salts.
- Leakage and spillage of petroleum and diesel
- Airborne dispersion of sulphur dioxide
- Hydrocarbon residues in the tar dams

The following 'hotspots' are identified in the Closure Plan and are summarised below:

### 3.1 RPM-R SHAFT AREAS

The accumulation of mining process water in shafts and workings is the main source of contaminants entering the subsurface. The excess water has a high suspended solid load and is termed shaft bottom sludge. The sludges often are acidic with high salt levels, elevated heavy metals and hydrocarbon residues. The shaft bottom sludges pose a risk to deeper rock aquifers in the underground workings and can contaminated surface soils, surface water and shallow groundwater when disposed of at surface in shaft sludge ponds.

The ponds are un-lined and could be generating leachate. Dry sludges are stockpiled on the open veld adjacent to the dams.

These wastes require proper waste handling and storage facilities to minimise impacts to soil and groundwater. The impacted ad-hoc storage facilities may require remediation.

Waste rock dumps should not normally be regarded as soil contamination 'hotspots' as these materials are comparatively inert and there is no significant risk of acid mine drainage developing in the rock dumps.

Old or off-spec' explosives are destroyed by controlled burning at a dedicated burning ground at each shaft, the burning ground ash may result in soil and groundwater contamination.

Groundwater associated with underground workings is likely to be contaminated to varying degrees. The requirement for remediation should be based on the risk of

contaminant migration via the groundwater to productive aquifers or to surface water bodies.

Redundant shafts are present and may have similar issues to those associated with the working shafts.

### 3.2 RPM-R CONCENTRATORS

The concentrators generate an underflow sludge that goes for disposal to the tailings dams. Contamination of soils results from spillages and accidental release and from temporary stockpiling of wastes. Frank Concentrator has been identified as a 'hotspot' in terms of heavy metal contamination via accidental release. Other concentrators may have salt contamination problems.

Waternal and UG2 Concentrators are within 50m of the Klipfonteinspruit water course and thus have a relatively short migration pathway to the aquatic receptor environment and thus can be regarded as high risk contamination sources.

### 3.3 WATERVAL SMELTER

The smelter produces slag as a waste product. The re-processing of a portion of the slags release SO<sub>x</sub> gases and particulates to the atmosphere. There is likely to be a build-up of sulphates and metals on adjoining land. Temporary material stockpiles and accidental release may also result in soil contamination. The site is within 100m of the nearest water course. The facility is presently operated by a third party and is considered to be a legacy issues to be dealt with a mine closure.

### 3.4 RUSTENBURG BASE METAL REFINERY

Sodium sulphate is generated by a by-product of the refining process. Historically the sulphate was stored in encapsulation dams. Significant soil contamination occurs around the sodium sulphate plant. Heavy metal and salts are associated with solid and liquid waste storage areas.

The site is situated approximately 100m from the nearest water course.

### 3.5 PRECIOUS METAL REFINERY

The process generates acid and alkaline effluents which are disposed in evaporation ponds. Spillages and accidental release of effluents and seepage from both lined and unlined dams are considered to pose a contamination risk. Due to the high value (high PGM content) of the process liquids strict controls are applied and the volume of accidental discharge is very limited.

The facility is situated within 100m of the nearest water course.

### 3.6 TAILINGS DAMS

There are four tailings dams presently in operation:

- Hoedspruit tailings dam – active dam receiving tails from WLTR plant and from Klipfontein Concentrator
- Paardekraal Tailings Dam – active dam receiving tails from all concentrators except Klipfontein. This dam also receives slag from the smelter.
- Waternal dams. No longer active as tailings dams. Builders rubble has been disposed off on the eastern dam. Re-mining the residues may occur in future.

- 
- 
- Klipfontein Tailings dam – no longer in use and is being re-processed.

The facilities may cause contamination by runoff from slopes, by overtopping the pool, by overtopping of the return water dams, or by seepage to groundwater from the tailings dams and the return water dams.

### 3.7 OLD TAR PITS

During road construction unused tar was disposed of in three tar dams located within the Klipfontein Concentrator. Tar in two dams to the north of the concentrator have been removed. These coal tar derivatives are highly toxic but tend to be relatively immobile and thus the impacts tend to be of limited extent.

### 3.8 GENERAL INFRASTRUCTURE

There is always a risk of spillage and accidental release associated with road and rail infrastructure, including fuel storage areas and maintenance workshops. There are thus a number of smaller 'hotspots' that may exist throughout the mine lease area.

## 4 Existing and Future land use

The existing status quo for land use can be termed mining and associated industrial processing. It is however important to note that the mine is part of an integrated community and that there are residential communities that surround the working areas and thus define a receptor activity pattern that needs to be evaluated in order to determine target levels for contaminants. The main exposure pathway would be cumulative exposure to dust, with inhalation being the key mechanism of exposure. It is wrong to assume that the effects field of the contaminated footprint only impacts on mine workers who can be protected by wearing of appropriate protective clothing. The exposure concentrations in ambient air in the adjacent residential communities would define a point of compliance for human health based risk assessments.

With an extended life of mine remediation projects need to establish interim risk based criteria but where possible these criteria must acknowledge the proposed future land use of closure to be regarded as environmental sustainable.

For the purpose of closure planning the following categories of future land use have been considered.

- informal agriculture – grazing livestock
- formal agriculture – crop production
- green belt – ecological reserves
- no development zones

It is possible to consider that these proposed land uses as the basis for determining potential risk to human and environmental receptors. As the expected human settlement patterns associated with the mine footprint is very low density it is likely that direct exposure to soil borne contaminants is very low. Inhalation and dermal contact with particulate releases from non-vegetated soil areas would be the primary route of potential human exposure, with secondary ingestion of contaminated crops or meat from grazing animals also representing potential pathways to be considered.



Protection of the water resource is dependant on receiving water quality objectives now and into the future. As water resources are a limited finite natural resource there is already considerable water demand from users. At present this is manifest on allocation of water by volume but in future water quality may be as significant to terms of water resource policy and enforcement.

Before proceeding to develop the land use based soil quality issues which may form the basis of a remediation masterplan it is necessary to critically evaluate the status of water resource protection and its importance in remediation planning.

## 5. Water Resource Protection

The most contentious issue in the development of a remediation masterplan for a large mine footprint is understanding the relationship between contaminated soils, other solid wastes and mine residues and water quality in surface water and groundwater.

The legislation in the National Water Act is clear on the Duty of Care responsibility on the prevention of pollution. Remedial activities required to prevent pollution and remediate water quality and enforceable by directive or can be conditional to water use licenses. These statues are often cited in risk analysis to be the driving mechanism for remediation projects, ie an illegal activity that would cause statutory risk of closure, associated financial loss and reputational damage

The legal definition of pollution in terms of triggering a regulatory intervention in South Africa is not well defined by means of actual legal precedent and unfortunately has become a matter of scientific contexture and legal uncertainty. This state of affairs has arisen by the lack of progress in achieving detailed water quality objectives for the various regional catchments and establishing the reserve for protection of the water resource.

DWAF has issued a draft Integrated Water Use License for the Anglo Platinum Rustenburg Lease Area. Although this documentation is likely to receive further review and amendment from both parties there are elements to the IWUL that are relevant.

Remediation objectives for the clean-up of soil or groundwater that are based on the protection of the water resource need to be consistent with the general water quality standards required for the surface water catchment at local and regional level. No double standards should exist between the management of diffuse contaminant discharge and the so-called 'end of pipe' discharge consent criteria for effluent release to surface water bodies.

DWAF discharge standards are highly generic and are generally stipulated as General Authorisation or Site Specific Standards for more sensitive or impacted receiving water bodies.

**Table 1 - The compliance criteria for discharge to surface water applied by DWAF General Authorisation are listed below together with the preliminary receiving water quality objectives for the Hex River. Contaminants of concern are highlighted.**

Parameter	Unit	Effluent Standards	Preliminary Receiving Water Quality
-----------	------	--------------------	-------------------------------------




				Objectives (specific values for Hex River)
		General	Special	
Clarity	Sechi disk depth (m)	Free	None	>3.0
Colour	Pt-Co colour units	Free	None	15
Odour	TON	free	None	<1
Turbidity	NTU			0-1
Alkalinity	mg Ca CO <sub>3</sub> /l			0-50
Ammonia	mg/l N	10	1.0	0-1.0
Calcium	mg/l			0-32 (80)
Chloride	mg/l			0-100 (120)
Chlorine	mg/l as free Cl <sub>2</sub>	0.1	Nil	0-0.2
Electrical conductivity	Ms/m	Intake + 75	Intake+ 15%	80
Fluoride	mg/l	1.0	1.0	0-1.0
Magnesium	mg/l			0-30 (100)
Nitrate & Nitrite	mg/l		1.5	0-10
Nitrogen (inorganic)	Total N mg/l			0-0.5
p H		5.5-9.5	5.5-7.5	6.5-8.5 (8.0-9.5)
Potassium	mg/l			0-50 (150)
Soap, oil and grease	mg/l	2.5	Nil	
Sodicity (SAR)				0-1.5
Sodium	mg/l	Intake + 90	Intake + 50	0-100 (200)
Sulphate	mg/l as SO <sub>4</sub>			0-200 (400)
Sulphides	mg/l as H <sub>2</sub> S	1.0	0.5	0-0.001
Suspended solids	mg/l	25	10	0-3
TDS	mg/l			0-515 (1000)
Total hardness	mg/l as Ca CO <sub>3</sub>			0-50
Aluminium	mg/l			0.0-0.15

Arsenic	mg/l	0.5	0.1	0-0.01
Asbestos	Fibres/l			0-1000000
Boron	mg/l	1.0	0.5	0-0.5
Cadmium	mg/l	0.05	0.05	0-0.05
Chromium (vi)	mg/l	0.05		0-0.07
Cobalt	mg/l			0-0.2
Copper	mg/l	1.0	0.02	0.001
Cyanide	mg/l	0.5	0.5	0-0.01
Iron	mg/l		0.3	0-0.1
Lead	mg/l	0.1	0.1	0-0.01`
Lithium	mg/l			2.5
Manganese	mg/l	0.4		0-0.02
Mercury	mg/l	0.02	0.02	0-0.01
Molybdenum	mg/l			0-0.01
Nickel	mg/l			0-0.2
Selenium	mg/l	0.05	0.05	0-0.002
Silica	mg/l			0-5
Uranium	mg/l			0-0.1
Vanadium	mg/l			0-0.1
Zinc	mg/l	5.0	0.3	0-3
Chemical oxygen demand	mg O <sub>2</sub> /l	75	30	0-10
Dissolved organic carbon	mg C/l			0-5
Dissolved carbon	% saturation	75	75	80-120
Oxygen absorbed	mg/l (N/80 KMnO <sub>4</sub> )	10	5	0-5
Phenols	mg/l	0.1	0.01	0-001

The preliminary receiving water quality objectives were listed on the basis of the most stringent water quality criteria for a variety of water uses including aquatic ecosystem protection, drinking water, livestock watering, irrigation, industrial use and aquaculture. This approach although stringent cannot be regarded as scientifically valid for assessing the water quality the Hex River water course. Nor is it entirely compatible with either the general or special standards for effluent discharge. Specific receiving water quality objectives have thus been determined by DWAF for the more common contaminants and are highlighted.

In Annexure 4 of the Water License Interim Resource Objectives and Standards are presented. The Preliminary Management Class of the Hex River is presently rated as



---

being Class D - Poor, ie an unacceptably degraded resource. The target for water quality would be to raise the standard to Class C by improving the ecological status of the water course, which presently poor for macro-invertebrates and fish.

The water quality of the largest surface water resource on the lease area and recommended receiving water quality objectives provides a theoretical point of compliance which can be used to model risk to downstream water users. The fate and transport of soil contaminants to the water course via surface run-off, seepage via groundwater and sediment erosion can be used to derive multi-media mass balance equations from which safe soil contaminant levels for achieving compliance with water quality objectives can be derived.

At present we would regard the receiving water quality objectives for the Hex River as potentially too conservative given the volumes of flow and the frequency of drought conditions. The relationship between seasonal flow and water quality needs to be established before a realistic carrying capacity can be established for this semi-perennial system.

#### 4.1 GROUNDWATER RESOURCES

The consensus developed from all the specialist studies that consider impacts on the groundwater resources is that there are no groundwater users on site or within close proximity of the site boundary. This hydrocensus needs to be reviewed and updated from time to time but at present it is a reasonable assumption to conclude that despite soil contamination and groundwater pollution incidents there is a low priority for remediation of groundwater on this site.

##### 4.1.1 The conceptual groundwater model

The conceptual hydrogeological regime is made up of three aquifer units. The first water table encountered is a unconfined to semi-confines system that occurs in the soil cover and the upper weathered zone of fractured rock and occurs at depths between 5m and 25m below the ground surface. There is a deeper fractured rock aquifer unit where groundwater flow occurs along major joints and fault zones. Yields are not known with certainty and relatively few boreholes have been drilled to intercept the deep fracture flow.

At locations close to the Hex River and other non-perennial streams there are porous alluvial deposits which are from 2m to 15m in thickness and these form local primary aquifers of limited extent.

The overall ambient groundwater quality in the shallow aquifers is good but salinities are naturally quite high with magnesium and bicarbonate being the dominant or signature ions in the groundwater. In the deeper aquifers the natural salinity is much higher and major and trace element concentrations are high. This is indicative of a low flow regime where the volume of groundwater is relatively low and the system is controlled by long residence times in the rock formation. This favours a dissolution equilibria to be established with the soluble components of the rock. Pollution plumes are noted in proximity to shafts, this is because of rapid transport of contaminated water into the deeper fractured rock which has a low capacity for dilution. Thus relatively low volume releases of contaminants have a distinctive impact on the chemistry of groundwater in the boreholes. Much of the deeper groundwater may be static or stratified in the monitoring boreholes and water chemistry is often an artefact of sampling.

Despite the number of monitoring boreholes installed at Rustenburg mine lease areas there is a need to establish a comprehensive and scientifically based monitoring programme.

The most common problem associated with integrating groundwater monitoring is that many boreholes are drilled for the purposes of hydrogeological investigation to provide data for various reports and to support permit applications. Some of these boreholes may not provide ideal monitoring boreholes for longer term work and should be sealed and grouted. This is particularly true of low yielding boreholes with stagnant water. Once the flow regime is determined there is little value to be gained from observing the water chemistry in such wells. The chemical signature is too localised with respect to the host rock formation and the borehole construction to be used to provide input to predictive hydrogeological models for regional flow within the aquifer.

In both the upper weathered zone aquifer and the deeper fractured rock aquifer there will be preferential flow paths.

The surface soils consist of low permeability black clays and more permeably red colour clayey and silty sands. In general these soils have high natural attenuation capacity for leachable contaminants. Despite the clay cover materials the effective aquifer recharge has been estimated to be 1.5 to 2% of the mean annual precipitation.

Borehole yields and aquifer pump tests have shown that the areas of deeper weathering have higher conductivities and therefore facilitate higher flow and contaminant transfer rates. Therefore the likelihood of pollution migration via groundwater is greatest in the weathered valleys and should follow the drainage paths of Klipfontein and Klipgat streams.

Any de-watering exercises will have localised influence on hydraulic gradients and artificial recharge from large wet storage dams is likely to result in artificial recharge and have the most significant control on groundwater flow and water quality in the upper weathered zone aquifer.

#### 4.1.2 Water Quality concerns

The assessment of groundwater pollution impacts in natural aquifers with variable and naturally elevated dissolved components has to be undertaken with care. The overall trends in groundwater quality are summarised below:

- Sulphate is a prominent and widespread contaminant in the base metal processing areas at occurs at the RBMR, Waterval Processing Complex, the PMR, and the Klipfontein Concentrator. Sulphates are present at the tailings facilities.
- Magnesium is the dominant cation associated with the host norite bedrock and is associated with both ambient background and mining related activities.
- Chloride occurs in the groundwater at most of the processing areas
- Nitrate contamination is associated with shaft areas and may be related to explosive residues.
- pH is neutral to basic and heavy metals tend to have a low solubility.

Ambient and contaminated levels in groundwater boreholes

Parameters	Typical Background concentration in fractured rock aquifer	Concentration from boreholes likely to be impacted by mining activities	DWAF Discharge Standard Surface Water
Magnesium	45mg/l	120 – 600 mg/l	400 mg/l
Sulphate	45mg/l	800 – 1 600 mg/l	200 mg/l
Chloride	60 mg/l	1000 mg/l	100 mg/l



Nitrate	2 mg/l	38 – 430 mg/l	6 mg/l
---------	--------	---------------	--------

In high yielding boreholes in the upper weathered zone and fractured rock aquifers there is some opportunity for developing a reliable source of additional water supply. The ambient quality may be slightly too high to meet all potable requirements but is in general suitable for irrigation needs and could be treated to meet specific processing water requirements. There are boreholes with yields measured to be between 4l/s and 8l/s. These productive boreholes are rare and represent localised water resources and thus need to be properly tested with trial abstraction undertaken to determine the long term sustainable yields.

In the specific context of groundwater remediation there is strong motivation to protect and conserve the groundwater resource once it has been developed for beneficial purposes. The remediation of groundwater in deep aquifers with no direct migration pathway to human and environmental receptors has a low priority and should be discouraged.

We therefore would motivate that integrated remediation planning is undertaken in areas where potentially productive boreholes have been identified so that resource quality protection measures have direct economic benefits, and remediation objectives and quality criteria are consistent with the intended water use. Potable water quality criteria may not be applicable or desirable for all forms of groundwater abstraction and should not be cited as compliance criteria if unwarranted or technically impracticable.

The shallow weathered zone aquifer is generally situated above the underground mine workings and therefore is less impacted and has a higher recharge from meteoric water than the deeper fractured rock aquifer. The shallow weathered zone aquifer is more likely to be impacted by artificial recharge from tailings dams and effluent release. It appears that the uppermost water table is too deep to provide any baseflow to the tributary streams in the catchment.

The migration pathway from groundwater to downstream surface water receptors is considered to be a theoretical concept with no proven link established from either monitoring data or plume models to date.

## 5 Determination of Soil Remediation Objectives

In terms of the envisaged future land-use planning, agricultural, grazing or general open space land-uses would all be associated with limited direct human exposure to contaminated soils.

As a precautionary approach, however, we consider a scenario in which poorly vegetated soils result in relatively high levels of particulate release and assess safe soil levels for key contaminants of concern based on the assumption that a human receptor resident in close proximity to these impacted areas would represent a worst case exposure scenario. This exposure scenario is thus defined based on exposure via inhalation and dermal contact only.

We have calculated safe levels following international standard best practice guidance for developing risk-based remediation objectives using conservative recommended exposure parameters throughout.

We have included platinum group elements as although these were not identified specifically as contaminants of concern, they are obviously present and an indication of safe levels for protection against particulate inhalation exposure thus needs to be considered.

It is noted that the calculated remediation objectives represent a highly conservative approach based on extended exposure periods. In case of potential human exposures for the proposed land-uses, exposure frequency and duration would be limited to short ad hoc periods whilst on the property and hence the safe levels in terms of remediation objectives could be set above the conservative limits calculated.

### Exposure Parameters

Body weight (kg)	70
Exp. Frequency (days/year)	350
Exp. Duration (years)	30
Soil to Skin Adherence (mg/cm <sup>2</sup> )	0.14
Exp. Skin Surface (cm <sup>2</sup> )	5700
Dermal Absorption	0.1 (10%)
Inhalation Rate (m <sup>3</sup> /hr)	0.83
Particulate Emission Factor (m <sup>3</sup> /kg)	1.07 x 10 <sup>8</sup>

In terms of food chain related exposure routes such as ingestion of crops produced on the site it is assumed that commercial root crop production is not viable on the land and that this is thus not a potential pathway of concern. Uptake of metals associated with crops such as maize or sunflower would not be considered to be a significant issue at the average levels reported for the site, however, salt loading from the effluent irrigation may well be a limiting factor for such activities. Similarly, we would consider impacts to surface water run-off in respect of salt loading to be the primary issue of concern related

to livestock grazing on the site. In this regard, the DWAF livestock watering guidelines should be applied as remediation objectives.

#### Remediation Objectives

Parameter	Unit	Remediation Objective
PGE Group Metals	mg/kg	2300
Ni	mg/kg	4500
Co	mg/kg	100
Cu	%	3
Zn	mg/kg	n/a
Pb	mg/kg	3000
Cr (VI)	mg/kg	10


## 6 On-site treatment of hydrocarbon contaminated soils

The motivation for on-site treatment of hydrocarbon spills and leaks has occurred in a number of specialist reports. It would therefore be regarded as a progressive and proactive step to instigate such a facility at least at a pilot scale and apply for a license to remediate soils that are suitable for bioremediation and/or chemical treatment. These include gasoline and diesel but can also include heavier hydrocarbons such as fuel oils, lubricants and tar residues. It is very cost effective to treat small to medium volumes of contaminated soil in a purpose built soil farm or treatment pad, for larger spills the treatment methods are best applied in-situ to reduce the internal haulage costs.

In order to provide an assessment of technical alternatives and select suitable locations and pilot projects will be necessary to investigate and analyse known areas of hydrocarbon contamination. At present there is a knowledge gap on the status of hydrocarbon contamination across the Lease Area, other than the preliminary work that has been undertaken on the old tar pits. Other than acknowledging that there are likely to be areas requiring remediation the total volume and chemical composition of the impacted soils and groundwater is unknown.

Most bioremediation techniques involve mild chemical oxidation under moist conditions to encourage microbial breakdown of hydrocarbon molecules as a food source. Addition of organic material as a nitrogen source and to improve soil texture, porosity and aid in moisture retention is commonly applied to increase the natural breakdown time.

It is considered that there may be benefits in using saline sulphate-rich effluent in an aerobic bioremediation process, particularly for remediation of diesel contaminated soils.



---

It is recommended that lined cells for soil treatment are located within close proximity of a suitable water source and preferably on an area of contaminated land.

There are many potential treatment methods available for hydrocarbon remediation and a thorough cost benefit analysis should be undertaken before proceeding with soil remediation. Most commercial approaches for remediation of hydrocarbons are fast track techniques where clean-up is driven by the need to transfer the land without liability to a new owner, or to comply with regulatory directives. At Anglo Platinum Rustenburg it may be cost effective to treat over much longer time periods. Remediation target values are discussed below, at a preliminary stage we would consider that remediated hydrocarbon contaminated soil would be fit for use as a topsoil growing medium and suitable for landscaping particularly on waste dumps.

## 7 Remediation of Spills and Accidental Releases

In this section we provide a simple protocol for dealing with hazardous chemical spills, and particularly petroleum hydrocarbons.

An immediate requirement is to recover product and prevent contact with surface waters.

A petroleum contaminated soil is considered an immediate hazard (and a hazardous waste) when it exhibits any of following:

- Ignitability
- Corrosivity
- Reactivity
- Toxicity – Benzene and organic lead compounds in petroleum are particularly toxic.

### 5.1.1 Priority and types of response

The status of an accidental release can be categorised as a high, moderate or low impact. Environmental risk and appropriate responses are summarised below:

#### **High Impact**

- Immediate threat to human health and property
- Where the incident poses a direct threat to a water resource
- Where the incident has the potential to seriously contaminate soil and groundwater
- Where the incident could cause significant harm to native fauna and flora
- Where the incident creates an immediate observable harm to environmental receptors
- Any chemical spill exceeding 10 000 l.

Immediate response and notification, a remediation function, environmental monitoring required.





### **Moderate Impact**

- Significant, but not immediate, threat to human health and property
- Where the incident poses a long-term risk to a water resource
- Where the incident has the long-term potential to contaminate soil and groundwater
- Where the incident may result in chronic or long-term harm to native fauna and flora
- Where the incident creates a long-term risk to environmental receptors
- When a chemical spill is between 10 000 l and 100 l.

Response within 4 hours, regulatory notification within 24 hours, remediation function, environmental monitoring based on effectiveness of response.

### **Low Impact**

- No perceived threat to human health and property
- Where the incident poses no risk to a water resource
- Where the incident poses no risk of soil or groundwater contamination
- Where the incident poses no risk to environmental receptors
- When a chemical spill is less than 100 l.

Response within 24 hours, notification depending on effectiveness of response, no requirement for remediation, no requirement for environmental monitoring.

#### **5.1.2 Remediation of Petroleum Spills**

- Excavate contaminated soil in a timely manner.
- Containerise, or place on and cover with high density plastic sheeting (minimum thickness 10mm) and berm area to prevent run-off from the waste pile.
- If soil must be moved for reasons of security or access it must be stored at a permitted landfill, or other acceptable location, until test results are obtained and appropriate remediation authorisation is obtained, alternatively dispose of the soil as hazardous waste.

#### **5.1.3 Site characterisation after removal**

- Contaminated soil should be excavated until spill is visually clean.
- If heavy odours are still present screen the area with a vapour detection/photo-ionisation device, to detect remaining 'hot-spots'.
- Soil samples should be taken from the spill area. For a large spill take samples from the four corners of the excavation and the middle of the base of the excavation. For trenches sampling density should be one sample per 10m of contaminated length. Samples can be composite if entire soil volume is removed off-site.
- Excavated area should not be backfilled until the residual soil is confirmed as meeting the 'clean' soil guideline, as further remediation may be required.
- Temporary backfill measures are advisable if physical hazards are related to the excavations.



#### 5.1.4 Chemical Testing

- **Known diesel release:** TPH - modified diesel range organics (DRO), and BTEXN (benzene not normally >2% for diesel, naphthalene is often an important benchmark contaminant for compliance).
- **Known gasoline release:** TPH - modified gasoline range organics (GRO), and BTEX. Total lead for leaded gasoline.
- **Unknown petroleum product:** TPH – modified DRO and GRO, BTEXN, GC/MS for purgeables/extractables.

#### 5.1.5 Notification – Reportable Quantities

There is no absolute *de minimis* level of concern in existing South African environmental legislation. In general a small spill of less than 100 l of gasoline or diesel may not require remediation, but there may be circumstances which could cause concern, ie a local flammable hazard. For highly toxic compounds even low volume spills could represent a significant risk. For example a PCB spill from transformer insulation oil with a concentration of >50ppm for 5 kg of soil would require appropriate emergency hazard response and regulatory notification.

#### 5.1.6 Remediation of Residual Contamination

After immediate rapid response and there may be residual contamination of soil that may require further assessment and remediation.

In hydrocarbon spills it is important to assess the environmental risk posed by the most toxic contaminants of concern in terms of human health impacts and for protection of the water resource. Where no surface water or groundwater risk is present risk-based soil target levels should be based on human health direct exposure. The inhalation of volatile organic compounds is the most commonly cited exposure pathway.

For disposal to landfill compliance with DWAF 'Minimum Requirements for the Handling, Classification and Disposal of Hazardous Waste' is required. Safe disposal guidelines based on Acceptable Risk Levels (ARLs) have not been developed for generic DRO and GRO hydrocarbon test results (although revisions are in draft in edition 3 of 'Minimum Requirements').

Following general guidance levels for safe disposal can be assumed:

- TPH>1000 mg/kg to be regarded as hazardous waste
- TCLP for TPH<1000 mg/l to delist to general waste category

#### 5.1.7 On-site Remediation

- If it is proposed to biotreat the excavated contaminated soil as an alternative to disposal as waste, or as a pre-treatment prior to safe disposal, a Remediation Plan should be submitted for regulatory authorisation. There is an advantage of developing and licensing a specialised hydrocarbon remediation facility and operating to a pre-agreed set of operational procedures and environmental management plan, and monitoring protocol.



---

## 6 Conclusions and Recommendations for Remediation of Contaminated Soils

- This report represents a high level strategic overview of soil contamination impacts associated with the Anglo Platinum Rustenburg lease area. It evaluates environmental risk and proposes preliminary remediation objectives for consideration in the planning of future sustainable remediation activities.
- The most significant environmental risks to the existing environment and intended future land use is due to accumulation of salts, particularly sodium sulphate derived from accidental discharge, leakage and seepage of mineral processing effluents.
- Salt impacts will provide a diffuse source of contaminants to surface water bodies and severely impact on the naturally limited agricultural potential of the surface soils.
- There are minor amounts of heavy metals, including nickel, cobalt and copper that are considered to represent a minor human health risk associated with exposure via inhalation of airborne dust to neighbouring residential communities.
- Safe levels for the contaminants of concern in soil have been determined on the basis of human health risk for the dust inhalation exposure scenario. These target levels are consistent with future land use planning associated with the site closure plan.
- Impacts on surface water and groundwater associated with heavy metal contaminated soil are assessed as being very low in terms of aquatic ecotoxicology, and subordinate to the risk posed by salt contaminants, such as sulphates, chlorides and nitrates.
- Groundwater aquifers are generally low yielding and the background water quality is marginal to poor as a potable resource. Groundwater associated with underground workings and shafts is contaminated by sulphates, chlorides and nitrates. This is due to very low flows and poor recharge (low dilution factors) resulting in near-stagnant conditions in monitoring boreholes.
- Groundwater remediation should be assessed on the basis of resource development and should be concerned with higher yielding fault controlled fractured rock aquifers where sustainable sources of groundwater can be developed for beneficial use.
- There is no indication of a significant migration pathway between weathered zone aquifer or deeper fractured rock aquifer and surface water resources. This pathway should therefore not be considered as a causative risk factor in assessing remediation objectives.
- Hydrocensus studies should be updated on a regular basis to understand the use of groundwater on the neighbouring properties. At present there is no recorded use of groundwater within a 2km radius of the lease area.
- A preliminary protocol for the remediation of accidental spills and releases of petroleum hydrocarbons has been proposed.
- It is strongly recommended that a licensed on-site soil treatment facility is established for the remediation of hydrocarbon contaminated soils.
- The information contained within this document should be regarded as a position paper advising on sustainable remediation policy objectives for dealing with both



---

legacy contamination and accidental release. Detailed site characterisation and development of remediation plans in compliance with the soon to be implemented Waste Management Bill will become the future norm and standard for good practice in the remediation of contaminated land in South Africa.

Dr Jon McStay  
Director

Sean Doel  
Technical Director

# 21876 - Decommissioning of the Klipfontein and Frank Concentrator Project

## Phase I Site Characterisation – July 2011

### INTRODUCTION

The rapid expansion programmes associated with increased production at Anglo Platinum in Rustenburg has drawn attention to the status of contaminated land and regulatory requirements to provide reporting on the environmental risks posed by historic pollution impacts and measures to be taken to remediate the land ahead of new construction.

Failure to identify contamination issues ahead of project planning can result in delays on implementation of new business activities by slowing down the regulatory authorisation process. In addition new timelines have to be allowed for remediation activities to be completed before any new build can commence.

Anglo's vision, objectives and company philosophy in terms of contaminated land is as follows:

- Anglo Platinum – Rustenburg Operations will aim for a sustainable post closure environment that is not harmful to the Safety and Health of surrounding communities or the environment.
- Ensure adherence to local, provincial and national regulatory compliance (third party liability and corporate legal).
- To develop landforms and land uses that are stable, sustainable and aesthetically acceptable on closure.
- Achieve agreed quality targets set by CMA/DWAF as far as practical relative to impacts and reasonability to achieve.
- Contaminated soils will be treated/disposed/remediated in-situ, in consultation with the authorities, to meet the requirements of final land use plan, without unduly negatively impacting on the health of surrounding communities or impacting on local ecology.

Anglo Platinum (Pty) Ltd (Anglo) appointed WSP Environment & Energy (WSP) to assess whether a full contamination investigation is required at the Klipfontein and Frank Concentrators prior to decommissioning of the two operations. If it is established that the areas require remediation, then authorisation through a Basic Assessment will be required for the decommissioning. If the areas are contamination to an extent that no remediation is required (within local context), then no authorisation for the decommission phase will be required.

The aim of this report was to establish whether a comprehensive Phase I assessment would suffice, within Anglo's local context, in identifying contaminated areas of concern at the two concentrators. If contaminated area were to be identified and addressed appropriately through a Phase I assessment, then time required for a Phase II assessment to achieve the same objective would be saved. Therefore, the aim of this report was to move straight from a Phase I site characterisation to Phase II remediation plan should it be needed.

A site visit to both concentrators was undertaken on the 11<sup>th</sup> of May 2011 during which the current infrastructure was assessed and the visual evidence of significant land contamination was investigated.

### BACKGROUND IN TERMS OF CONTAMINATED LAND AND REMEDIATION WITHIN THE ANGLO LEASE AREA

WSP undertook a Contaminated Land Assessment and Remediation Strategy for the Anglo Platinum Rustenburg Lease Area in 2008 (WSP, 2008). The investigation identified issues within the Anglo Lease area in terms of contaminated land

# 21876 - Decommissioning of the Klipfontein and Frank Concentrator Project

## Phase I Site Characterisation – July 2011

and developed a conceptual framework to address legacy contamination as well as potential future impacts in internationally and nationally appropriate ways.

### Current Situations

The 2008 investigation (WSP, 2008) identified the following key concerns in terms of land contamination within the Lease Area:

- *The Status Quo in terms of Land Contamination is not defined.*

There is a need to clearly define what constitutes contaminated land in the context of the Lease Area and to negotiate site specific clean-up objectives and target levels for contaminants of concern with the regulators. At present, it is recognised that certain soils could be termed highly contaminated with a high risk profile that require treatment and or disposal but there are also areas of low level contamination that need to be properly assessed, classified and 'signed off' as acceptable to remain on-site. It is necessary to address these issues in a spatial context, as space for stockpiling and treatment is limited and to identify opportunities for re-processing as a by-product, and re-use as bulk fill of soil materials.

- *Chemical Spills and Accidental Releases.*

On-going activities that pose a risk of contaminant release to the environment require a protocol for remediation. Although the initial emergency response activities on site are probably adequate for immediate minimisation of the hazard to human health, the long term environmental clean-up protocols are under developed. Evaluation of remediation options for hydrocarbon spillages is typical of the activities that need to be addressed.

- *Closure Planning.*

Although not an issue of immediate concern, the remediation of contaminated land on site has to be developed in a manner consistent with the closure plans for the mine lease area. The risk-based approach to the management of contaminated land is largely based on protecting the quality of land and natural resources (particularly the water resource) for future land use. Remediation objectives are thus closely tied to closure requirements and need to be addressed.

- *Future Land-Uses*

For the purpose of closure planning Anglo considers the following categories of future land use:

- Informal agriculture – grazing livestock
- Formal agriculture – crop production
- Green belt – ecological reserves
- No development zones

In terms of the identified future land-uses, it is envisaged that all uses would be associated with limited direct human exposure to contaminated soils.

# 21876 - Decommissioning of the Klipfontein and Frank Concentrator Project

## Phase I Site Characterisation – July 2011

### FRANK CONCENTRATOR

Frank Concentrator has been identified by Anglo as a contaminated land 'hotspot' in terms of heavy metal contamination via accidental release. It was noted during the site visit that apart from the heavy metal contamination, the concentrator is generally well kept with minor concerns identified (compared to the surrounding activities): The following was identified as concerns:

- *Soil pile situated at the bottom of the concentrator premises next to the fence line.*

Visual inspection of the pile suggests that the soil may contain high salt and metal concentrations (precipitated salt was observed in soil lumps removed from the pile). After heavy rains the pile will apply an increased hydraulic head to the underlying soils and groundwater that may promote contaminant migration.

- *Hydrocarbon contamination outside the dedicated oil storage bunded area.*

A potentially extensive hydrocarbon spillage occurred from the bund discharge tap. During the site visit, minor leakage was still occurring from the tap. The leakage over time has resulted in a relatively saturated hydrocarbon stain on the soil in an area of approximate 1-2m from the tap. A hydrocarbon run-off stain extends from the saturated area to approximately 5m downgradient. The run-off stain is however not seen as significantly contaminated.

- *Suspected hydrocarbon products within the storm water collection sumps situated within the plant area.*

The pump infrastructure in the run-off collection sumps has not been removed and is now submerged. Consequently it seems that oil and other lubricant products have been released from the electrical pumps resulting on hydrocarbon sheens on the water surface.

### KLIPFONTEIN CONCENTRATOR

During road construction in the past, unused tar was disposed of in three tar dams located within the Klipfontein Concentrator site. The Klipfontein Concentrator is consequently also classified by Anglo as a contaminated land "hotspot". Tar in two dams to the north of the concentrator has been removed. However, one is still remaining.

Apart from the tar pit, the site is well kept and very little visual contamination was observed (compared to the surrounding activities). The entire storm water infrastructure that had free standing water in it was free of any discolouration, odour and floating sheens.

Minor contamination issues were identified which predominantly included:

- *Minor hydrocarbon spillages from the dedicated oil storage bunded area.*

### DISCUSSION

There are natural background levels of commonly occurring trace compounds in soil that can be used to define the status of contamination. In mining areas, the natural ground is anomalously enriched in certain metals as a result of the geological conditions that gave rise to the ore-bodies that are mined. High natural backgrounds are to be expected and should not be regarded as contamination.

# 21876 - Decommissioning of the Klipfontein and Frank Concentrator Project

## Phase I Site Characterisation – July 2011

Further, soil quality requirement suggests that remediation should be related to land use and be deemed 'fit for purpose' and protection of the environment in its broadest sense. Assessments should establish whether:

- The contamination has already caused harm;
- The substances are toxic, persistent, bioaccumulative, or are present in large quantities or high concentrations;
- There are exposure pathways;
- The uses of the land and land adjoining increases the risk of harm;
- The substances have migrated or are likely to migrate;
- The acceptable exposure for human and environmental receptors has been exceeded; and
- Any standards set by the Minister or MEC have been exceeded

From the site visit undertaken at the concentrators as well as experience with Anglo and the region, the following can be concluded in terms of the above points.

- *Whether the contamination has already caused harm.*

No records exist stating that any environmental or human health aspects were affected due to the present soil contamination at each of the concentrators. Further, the concentrators are controlled areas within an industrial environment where appropriate personal protective equipment (PPE) and other applicable safety measures need to be adhered to.

- *The substances are toxic, persistent, bioaccumulative, or are present in large quantities or high concentrations.*

Constituents of concern at the Frank Concentrator include heavy metal concentrations due to accidental spillages etc.

Potentially hazardous process additives were stored in dedicated bunded areas at both concentrators. All of the storage vessels were empty during the site visit. The bunds were filled with rain water with no leakages were observed through the bund walls.

The soil pile situated at the Frank Concentrator may consist of large quantity of soils elevated in salts and heavy metals concentrations compared to typical background soil concentrations.

Hydrocarbon spillages within the vicinity of the oil storage areas could have potential contamination implications in terms of the underlying groundwater regime.

Tar derivatives in the remaining tar dam at the Klipfontein Concentrator are highly toxic.

- *There are exposure pathways.*

Possible pathways for soil contaminants from the Klipfontein and Frank Concentrators include dust migration as well as surface water run-off and infiltration to the receiving groundwater regime.

During the site visit it was noted that concentrate/processed product spillages were predominantly within the process area (thickener and mills). Surfaces in these areas are covered by hardstanding and are also predominantly roofed. In minor instances it was found that small amounts of product were stored in unlined open areas. Therefore, migration of



# 21876 - Decommissioning of the Klipfontein and Frank Concentrator Project

## Phase I Site Characterisation – July 2011

dust containing high metals concentrations is seen as a limited pathway to the receiving environment due to the fact that potential sources of such dust are sheltered from wind during typical climatic conditions.

Concrete storm water infrastructure is in place at both sites and run-off water reports to the collection sumps in the middle of the process area or in sumps situated on the site boundaries. Bund walls for potentially hazardous additives were in good condition. No seepage of rainwater was evident from the walls and discharge taps were closed and not leaking. All of the banded areas are constructed on hardstanding.

Areas on the concentrator sites that are not covered by hardstanding will promote run-off water infiltration. However, the surface soils consist of low permeability black clays and more permeably red colour clayey and silty sands. In general these soils have high natural attenuation capacity for leachable contaminants (WSP, 2008).

Nevertheless, the shallow weathered zone aquifer has a higher recharge from meteoric water than the deeper fractured rock aquifer and is more likely to be impacted by artificial recharge from tailings dams and effluent release (WSP, 2008). Therefore, the soil stockpile situated at the Frank Concentrator is seen as the only potential sources of groundwater pollution.

Due to controlled storm water management at the Klipfontein and Frank Concentrators, surface run-off to any receiving surface water resources is seen as limited.

- *The use of the land and land adjoining increases the risk of harm.*

Both the concentrators are situated within a mining/industrial region. Therefore, in terms of 'fit for purpose' and protection of the environment in its broadest sense, the land on which the concentrators are situated as well as and in the vicinity is not seen as sensitive.

In terms of surrounding water use, consensus developed from all the specialist studies that consider impacts on the groundwater resources is that there are no groundwater users on Anglo Lease area. This hydrocensus needs to be reviewed and updated from time to time but at present it is a reasonable assumption to conclude that despite soil contamination and groundwater pollution incidents, there is a low priority for remediation of groundwater within the Anglo mine Lease Area (thus the Klipfontein and Frank Concentrators included). With regards to surface water, it appears that the uppermost water table is too deep to provide any baseflow to the tributary streams in the catchment (WSP, 2008).

- *The substances have migrated or are likely to migrate.*

It was not part of the scope for this assessment to determine emission rates from the two concentrators in terms of fugitive dust. However, from visual inspection, the generation of potentially hazardous dust from the Klipfontein and Frank concentrators is suspected to be low.

No groundwater quality information for monitoring wells in the vicinity of the concentrators was available during the preparation of this report. However, based on the regional soil distribution, geology, geohydrology, on site conditions and regional land-use, no significant groundwater contamination from the Klipfontein and Frank Concentrators is expected. The soil pile situated on the Frank Concentrator property is, however, seen as a potential source of contamination that needs to be address. Surface water contamination is expected to be negligible.

In terms of the tar dam at the Klipfontein Concentrator, the coal tar derivatives are highly toxic but tend to be relatively immobile and thus the impacts tend to be of limited extent. The attenuation tendency of the soil on both concentrator sites will aid in limiting the mobility of toxic constituents.

# 21876 - Decommissioning of the Klipfontein and Frank Concentrator Project

## Phase I Site Characterisation – July 2011

- *Have the acceptable exposure for human and environmental receptors and/or Government Standards has been exceeded.*

WSP does not find it practical at this point of time for Anglo to undergo a Phase II intrusive investigation to determine whether soil constituents within the subsurface strata exceed any applicable guideline or standard concentrations. Both sites have been identified as Anglo contaminated land “hotspots” and is therefore considered as contaminated. These sites will be remedied during the closure planning for the site.

### CONCLUSIONS AND RECOMMENDATIONS

Both the Klipfontein and the Frank Concentrators have been identified by Anglo as contaminated land “hotspots”. However, compared to surrounding activities, site visits and an assessment of available literature found that the sites are generally well kept and are reasonably isolated in terms of any potential pathways for contaminant migration.

However, three concerns have been identified that require attention, namely:

- Potentially contaminated soil stockpile at Frank Concentrator;
- Hydrocarbon soil contamination at Klipfontein and Frank Concentrator; and
- Contaminated sump water at Frank Concentrator.

In light of Anglo’s objectives in terms of contaminated land and the regional context of the Klipfontein and Frank Concentrators, WSP does not find it necessary for Anglo to undertake a Phase II intrusive investigation. WSP finds that the environmental and human risks associated with decommissioning of the two concentrators are acceptable if the following remediation measures are put in place:

- Processed product remaining on site is removed from site and reprocesses; and
- The soil stockpile at Frank Shaft must be sampled and analysed to determine disposal requirements and removed from site. Disposal should be undertaken in a responsible manner at a licensed waste facility (compliance with DWAF ‘Minimum Requirements for the Handling, Classification and Disposal of Hazardous Waste’);
- Sump water within the concentrator process areas must be tested to determine whether the water requires hazardous disposal or whether disposal at a conventional waste water treatment site will suffice. The water should be removed from site in a responsible manner (DWAF Minimum Requirements) prior to backfilling of the sumps;
- Hazardous waste identified during decommissioning is removed and disposed of by a registered waste management company; and
- With regards to hydrocarbon spills at both Klipfontein and Frank Concentrators:
  - Contaminated soil must be excavated until spill is visually clean;
  - If heavy odours are still present, the area should be screened with a vapour detection/photo-ionisation device, to detect remaining ‘hot- spots’;


# 21876 - Decommissioning of the Klipfontein and Frank Concentrator Project

## Phase I Site Characterisation – July 2011

- Soil samples should be taken from the spill area. For a large spill take samples from the four corners of the excavation and the middle of the base of the excavation. For trenches sampling density should be one sample per 10m of contaminated length. Samples can be composite if entire soil volume is removed off-site;
- Excavated area should not be backfilled until the residual soil is confirmed as meeting the 'clean' soil guideline, as further remediation may be required;
- Temporary backfill measures are advisable if physical hazards are related to the excavations;
- Soil samples should be analysed for the following:
  - Total Petroleum Hydrocarbons (TPH) – modified Diesel Range Organics (DRO) and Gasoline Range Organics (GRO), BTEX and GC/MS for purgeables/extractables;

Contaminated areas that require remediation have been identified at both concentrators and therefore a basic assessment will be required prior to removal of any material from site during the decommissioning process. The required sampling and laboratory testing will also be compulsory to ensure that treatment and disposal requirements are well understood and that all contamination has been removed.

Soil remediation needs to be undertaken at a licensed hydrocarbon remediation facility. Based on the footprint of the Anglo Lease area and the likelihood of similar contamination, as observed at the Frank and Klipfontein concentrators, being present at other sites within the lease area, there is an advantage of developing such a facility for the Anglo Lease area. Please note that such a facility requires a waste license according to the National Environmental Management: Waste Act (No. 58 of 2009) must be obtained prior to the commencement of any remediation activities.



Renier Pretorius

Principal Consultant

## 2008 Report Specialist Declaration

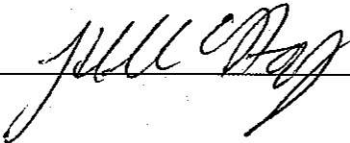
### 4.2 The specialist appointed in terms of the Regulations\_

I, Dr Jon McStay, declare that –

General declaration:

- I act as the independent specialist 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 the specialist report relevant to this application, 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 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;
- **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 specialist:



WSP Environmental (Pty) Ltd

Name of company (if applicable):

Date:

6 May 2014

Signature of the Commissioner of Oaths:

Date:

Designation:

Official stamp (below)

---

# Appendix E: Public Participation



WSP Reference no: 43849  
NWDEDECT Reference no: NWP/EIA/12/2014

18 July 2014

The Department of Mineral Resources (North West Region)  
Private Bag A1  
KLERKSDORP  
2570

Dear Phumudzo Nethwadzi,

**NOTIFICATION OF A BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Anglo American Platinum: Rustenburg Section (RPM-RS) Klipfontein Concentrator (the "Concentrator") was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. RPM-RS decided to remove the Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS now propose to decommission the redundant Concentrator (Proposed Project) to support rehabilitation of the site.

**2. ENVIRONMENTAL APPLICATION**

As the Proposed Project involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) prior to the commencement. The applicant is required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation. The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA. Commenting authorities include but are not limited to the following:

- The Department of Mineral Resources (DMR<sup>1</sup>);
- Department of Agriculture;
- Department of Water Affairs;
- South African Heritage Resource Agency;
- Rustenburg Local Municipality; and
- Bojanala Platinum District Municipality.

The decommissioning activities, as well as care and maintenance activities, are included in the Environmental Management Programme Consolidation which was submitted to the DMR in 2013. Furthermore, a preliminary closure management plan which includes broad management measures for decommissioning and closure of mining and associated activities was also submitted to the DMR (dated 2011).

---

<sup>1</sup> WSP notified Neo Kgokong of the DMR on 10 July 2014.

### 3. STAKEHOLDER REGISTRATION

WSP Environmental (Pty) Ltd (WSP) was appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. The DMR is considered an interested party (or commenting authority) and as such this letter serves as notification of the authorities' site visit for the Proposed Project. The DMR will be also notified once the BA Report and associated Environmental Management Programme (EMPr) become available for stakeholder and authority review.

### 4. AUTHORITIES SITE VISIT

The NWDEDECT case officer will attend a site visit at the Proposed Project site following review of the Draft BA and EMPr Reports. The date and time of the site visit will be communicated to the DMR once the site visit is confirmed. Your presence at the site visit will be appreciated. The purpose of the meeting is as follows:

- Provide a brief background to the Proposed Project;
- Provide a level of Proposed Project detail;
- Detail the BA process followed to date; and
- Detail the BA process to be followed going forward.

Should you intend on partaking in the site visit kindly contact the undersigned.

Regards,

A handwritten signature in black ink, appearing to read 'Jared O'Brien', written over a thin horizontal line.

**Jared O'Brien**  
**Environmental Consultant**

Tel: 011 361 1396

Fax: 086 505 3939

Email: [Jared.O'Brien@wspgroup.co.za](mailto:Jared.O'Brien@wspgroup.co.za)

O'Brien, Jared

---

From: Phumudzo Nethwadzi <Phumudzo.Nethwadzi@dmr.gov.za>  
Sent: 04 August 2014 12:19 PM  
To: Dendy, Claire  
Cc: Tshisikhawe Tshikororo  
Subject: Darft EMP Amendment ; Decommissioning of Klipfontein Concentrator

Good day

Reference is made to the document submitted on 25/07/2014.

I wish to remind you that this office does not provide an opinion in respect of draft documents. We will only comment on the final version should it be submitted the office. You are further advise to make sure that such document will be compiled in compliant with prescribed template.

Regards

Phumudzo

E-mail Disclaimer: The information contained in this communication is confidential and may be legal privileged. It is intended solely for the use of the individual or entity to whom it is addressed and others authorised to received it. If you are not the intended recipient you are hereby notified that any disclosure, copying, distribution or taking action in reliance of the contents of this information is strictly prohibited and may be unlawful. The views and opinions expressed in this e-mail are those of the sender unless clearly stated as those of Department of Mineral Resources. Department of Mineral Resources accepts no liability whatsoever for any loss or damages incurred or suffered arising from the use of this e-mail or its attachments. Department of Mineral Resources does not warrant the integrity of this e-mail nor that it is free of errors, viruses, interception or interference.

Disclaimer added by CodeTwo Exchange Rules 2010  
[www.codetwo.com](http://www.codetwo.com)



WSP Reference no: 43849  
NWDEDECT Reference no: NWP/EIA/12/2014



18 July 2014

The Department of Water and Sanitation (North West Region)  
PO Box X 357  
Hartbeespoort  
0216

Dear Philip Tjale,

**NOTIFICATION OF A BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Anglo American Platinum: Rustenburg Section (RPM-RS) Klipfontein Concentrator (the "Concentrator") was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. RPM-RS decided to remove the Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS now propose to decommission the redundant Concentrator (Proposed Project) to support rehabilitation of the site.

**2. ENVIRONMENTAL APPLICATION**

As the Proposed Project involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) prior to the commencement. The applicant is required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation. The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA. Commenting authorities include but are not limited to the following:

- The Department of Mineral Resources (DMR);
- Department of Agriculture;
- Department of Water and Sanitation (DWS);
- South African Heritage Resource Agency;
- Rustenburg Local Municipality; and
- Bojanala Platinum District Municipality.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) was appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. The DWS is considered an interested party (or commenting authority) and as such this letter serves as notification of the authorities' site visit meeting for the Proposed Project. The DWS will be also notified once the BA Report and associated Environmental Management Programme (EMPr) become available for stakeholder and authority review.

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

#### 4. AUTHORITIES SITE VISIT

The NWDEDECT case officer will attend a site visit at the Proposed Project site following review of the Draft BA and EMPr Reports. The date and time of the site visit will be communicated to the DWS once the site visit is confirmed. Your presence at the site visit will be appreciated. The purpose of the meeting is as follows:

- Provide a brief background to the Proposed Project;
- Provide a level of Proposed Project detail;
- Detail the BA process followed to date; and
- Detail the BA process to be followed going forward.

Should you intend on partaking in the site visit kindly contact the undersigned.

Regards,

A handwritten signature in black ink, appearing to read 'Jared O'Brien', with a horizontal line underneath.

**Jared O'Brien**

**Environmental Consultant**

Tel: 011 361 1396

Fax: 086 505 3939

Email: [Jared.O'Brien@wspgroup.co.za](mailto:Jared.O'Brien@wspgroup.co.za)



Our ref: 43849  
NWDEDECT ref: The Proposed Decommissioning of the Klipfontein Concentrator

26 May 2014

**Attention: EIA Administrator**

North West Department of Economic Development, Environment, Conservation and Tourism  
Office 36  
Agricentre Building  
Cnr. Dr. James Moroka & Stadium Road  
Mmabatho  
2735

Dear EIA Administrator,

**LODGEMENT OF THE ENVIRONMENTAL IMPACT ASSESSMENT APPLICATION TO UNDERTAKE THE BASIC ASSESSMENT PROCESS ASSOCIATED WITH THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**Introduction:**

WSP Environment and Energy (WSP) has been appointed by Anglo American Platinum Limited: Rustenburg Section (RPM-RS) to undertake the necessary environmental authorisation process required for the proposed decommissioning of the Klipfontein Concentrator and Associated Infrastructure (Proposed Project). RPM-RS intends to commence with the Proposed Project in 2015. WSP will be fulfilling the role as the independent Environmental Assessment Practitioner for the environmental authorisation process.

**Background:**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. RPM-RS decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**Lodgement of EIA Application:**

In accordance with the National Environmental Management Act (No. 107 of 1998) (NEMA), environmental authorisation is required for specific activities triggered in Government Notice Regulation 544 of 2010. Please find herewith **two hard copies** of the Environmental Impact Assessment application form for your review and consideration (**Appendix A**).

**Way Forward:**

WSP will be conducting a comprehensive and transparent stakeholder engagement process in accordance with the NEMA. Once a Case Officer has been assigned to this project, WSP will contact the relevant individual to confirm the way forward to ensure that a good working relationship is established.

**WSP Environmental (Pty) Ltd**  
WSP House  
Bryanston Place  
199 Bryanston Drive  
Bryanston, 2191  
Tel: +27 (0)11 361 1380  
Fax: +27 (0)11 361 1381  
<http://www.wspenvironmental.co.za>  
Reg. No: 1995/08790/07

WSP Group Ltd.  
Offices worldwide

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

Regards,

A handwritten signature in black ink, appearing to read 'Jared O'Brien', written over a horizontal line.

**Jared O'Brien**

**Environmental Consultant**

Tel: +27 11 361 1389

Fax: +27 86 505 3939

Mobile: +27 84 951 2164

Email: [jared.o'brien@wspgroup.co.za](mailto:jared.o'brien@wspgroup.co.za)



**WSP Ref:** 43849  
**NWREAD Ref:** NWP/EIA/12/2014

17 September 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION: Final Review**

In accordance with the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, the Draft Basic Assessment report (BAR) and Environmental Management Programme (EMPr) were made available for public comment and review for a period of 40 days from Monday 25 July 2014 to Wednesday 03 September 2014. Following the public review period, all stakeholder comments captured were considered and the BAR and EMPr updated in order to address the comments raised. The final BAR and EMPr have been submitted to the North West Department of Rural, Environment and Agricultural Development (NWREAD) for their review and decision-making.

The final BAR (*excluding Appendices*), is available for review on WSP Environment and Energy's (WSP) website (<http://www.wspgroup.com> – click [here](#)) for a period of 14 days from **Wednesday, 17 September 2014 to Wednesday, 01 October 2014**. Kindly submit substantiated issues and comments to WSP, in writing, before **01 October 2014** to the following:

**Attention:** Claire Dendy  
**Tel:** 011 361 1334  
**By fax:** 011 361 1334  
**By email:** [Claire.dendy@wspgroup.co.za](mailto:Claire.dendy@wspgroup.co.za)

WSP will provide you with the BAR appendices upon formal request. WSP look forward to your meaningful contribution to the basic assessment process.

Kind regards,

A handwritten signature in black ink, appearing to read 'Claire Dendy', is positioned above the printed name and title.

**Claire Dendy**  
**Consultant**

Tel: 011 361 1334  
Fax: 086 505 3939  
Email: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)

**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.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Global Inc.  
Offices worldwide

## NWREAD Acknowledgement Letter



**read**

Department:  
**Rural, Environmental and Agricultural  
 Development**  
 North West Provincial Government  
 Republic of South Africa



AgriCentre Building  
 Cnr. Dr. James Moroka  
 and Stadium Rd  
 Private Bag X2039,  
 Mmabatho 2735

**CHIEF DIRECTORATE: ENVIRONMENTAL SERVICES**  
**DIRECTORATE: ENVIRONMENTAL QUALITY MANAGEMENT**

Tel: (018) 389 5156  
 Fax: (018) 389 5006  
 E-mail: oskosana@nwpg.gov.za  
 Enquiry: Ouma Skosana

Reference: **NWP/EIA/12/2014**

**Attention:** **Vusumuzi Mahlangu**  
**Rustenburg Platinum Mines**  
 Private Bag X 82077  
**RUSTENBURG**  
 0300

Tel No.: (014) 598 2360  
 Cell No.: 083 298 6280  
 Fax No.: 086 246 7279

Dear Sir

**APPLICATION FOR ENVIRONMENTAL AUTHORISATION FOR PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE ON PORTION 4 OF THE FARM KLIPFONTEIN 300 JQ, ACTIVITY NUMBER 27(iv) (v) IN GN. NO. R. 544 OF NATIONAL ENVIRONMENTAL MANAGEMENT ACT 1998, (Act No 107 of 1998), RUSTENBURG LOCAL MUNICIPALITY, NORTH WEST PROVINCE**

We confirm having received the above mentioned Application Form for Environmental Authorisation on 26 May 2014 and the Application Forms has been **accepted**.

Please note that the application has been assigned to **Mr Sammy Mabula**, Potchefstroom Office, reachable at (018) 299 6710. This file reference number is **NWP/EIA/12/2014**. Kindly quote this **reference number** and the **name of the officer** it has been assigned to in any future correspondence in respect of the application including notification to be used for public participation.

**You are requested to submit future correspondences pertaining to this application to the relevant officer or office where he is based to this address:**



**114 Chris Hani Street  
Potchefstroom  
2520  
Office Number 79 & 78**

Please draw the applicant's attention to the fact that the activity may not commence prior to an Environmental Authorisation being granted by the Department.

If you need any clarification about this acknowledgement letter please contact **Mr. Steven Mukhola** at (018) 389 5959.

Yours Faithfully



**Mr. Steven Mukhola  
Environmental Officer Control Grade B: Development Impact Management  
Department of Rural, Environmental and Agricultural Development**

Date: 23/06/14

Cc: Jared O'Brien

Fax No: 086 505 3939

# MEETING NOTES



WSP Environmental (Pty) Ltd  
 WSP House  
 Bryanston Place  
 199 Bryanston Drive  
 Bryanston  
 2191  
 Fax: +27 11 361 1301  
 www.wspgroup.co.za

<b>Job Title</b>	Environmental Authorisation Process for the Decommissioning of the Klipfontein Concentrator
<b>Project Number</b>	43849
<b>Date</b>	13 August 2014
<b>Time</b>	10:00 – 12:30
<b>Venue</b>	Anglo American Platinum Limited: Rustenburg Platinum Mines: Rustenburg Section; - Meeting – Rustenburg Concentrator - Site Visit – Klipfontein Concentrator
<b>Subject</b>	Authorities Meeting
<b>Client</b>	Anglo American Platinum Limited: Rustenburg Platinum Mines (RPM)
<b>Present</b>	Vusumuzi Mahlangu (VM); Barend Nortje (BN); Mulalo Tshilowa (MT); Vinesh Dilsook (VD), Jared O'Brien (JO) and Sammy Mabula (SM).
<b>Attachments</b>	Appendix A – Attendance register; Appendix B – Agenda; and Appendix C – WSP Presentation.

## Welcome and Introduction

JO welcomed everyone and thanked the attendees for their presence. JO requested each of the attendees to introduce themselves and their professional position (signed attendance registers contained in **Appendix A**). The meeting agenda (**Appendix B**) and the meeting presentation (**Appendix C**) were distributed to the attendees.

## Apologies

Apologies rendered for the following individuals:

- Vinesh Dilsook (only present for part of the meeting);
- Brent Holme; and
- Kelebogile Mekgoe.

## Project Presentation

The presentation content was follows:

- Project Background;
- Project Description;
- Legal Framework;
- Basic Assessment (BA) Process Followed To Date; and
- Way Forward.

### Summary of Presentation:

JO described a high level overview of all operations at RPM: Rustenburg Section (RS). The overview provided SM with an understanding of how the Klipfontein Concentrator corresponds with the complete mining activities at RPM-RS (i.e. the Concentrator produced a material which was required by the Smelter prior to the material entering the precious materials and base metals refineries).



JO then described the history to the Klipfontein Concentrator and the motivation for decommissioning the plant.

The motivation behind the Basic Assessment (BA) Process is the presence of contaminated land on the Concentrator site.

JO provided a detailed description of the BA process followed to date and the tasks which are planned in order to complete the BA process (planned authority decision date of 4 December 2014).

### **Questions and Answers**

- Q1: SM asked if the applicant was undergoing an Environmental Management Programme Report (EMPR) Amendment process in accordance with the Minerals and Petroleum Resources Development Act (No. 28 of 2002) (MPRDA).

- A1: JO indicated that the RPM:RS underwent an EMPR Alignment and Consolidation Process during the course of 2012 and 2013 in an effort to combine all RPM:RS EMPRs. Furthermore, JO explained that the consolidation process included reference to the decommissioning of the Klipfontein Concentrator (i.e. provision has been made in terms of closure costing and mine closure). In addition to the consolidation of the EMPR, RPM:RS have submitted the preliminary mine closure plan to the DMR. As such, the project has been accounted for in terms of the MPRDA.

WSP completed a similar process for the “Decommissioning of the Frank Concentrator Project” in 2013, in which the same environmental authorisation process was followed (i.e. a BA process in accordance with the National Environmental Management Act (No. 107 of 1998) (NEMA)). It was noted that the Decommissioning of the Frank Concentrator was included in the EMPR Consolidation process, financial provision for mine closure and the mine closure plan. As such, no EMPR Amendment process was required in parallel to the NEMA authorisation process.

- Q2: SM asked if WSP had advertised in two separate newspapers during the stakeholder engagement initialisation phase of the BA process. He added that there was no title on the second advert within the draft BA Report submitted to the Department by WSP.

- A2: JO responded and clarified that two identical adverts were published in two different newspapers namely, the Rustenburg Herald and the Platinum Weekly. JO indicated that a title will be added to the Platinum Weekly tear-sheet within the Final BA Report for ease of reference.

- Q3: SM indicated that the Final BA Report and the EMPR may already be reviewed and forwarded to the Department supervisor prior to the completion of the 14 day Final Report public review period.

- A3: JO indicated that any additional comments received within those 14 days would be compiled into an updated comments and response report and submitted to the case officer following the completion of the final review period. This will ensure transparency and ensure that any comments received will be provided to the case officer prior to the case officer forwarding the report and the findings on for signature (review by supervisor). SM agreed and accepted the plan of action proposed.

### **Site Visit**

All attendees took part in a site visit to the Klipfontein Concentrator during which the case officer was given a representative understanding of the site layout and previous uses of infrastructure onsite. A satellite image was used as a referencing system during the site walkover.

### **Post Site Visit Discussion**

SM compiled a Department site visit close out form which was signed by all attendees. SM indicated that he was satisfied with the day's proceedings and that he had no further questions. SM mentioned that he would contact WSP in the case of any further questions regarding the project.

### **Project Close-out**

The meeting was declared closed at approximately 12:30pm on Wednesday 13 August 2014.






**Appendix A – Attendance register**

## Environmental Authorisation Process for the Decommissioning of the Klipfontein Concentrator Project

### Authorities Meeting

13 AUGUST 2014

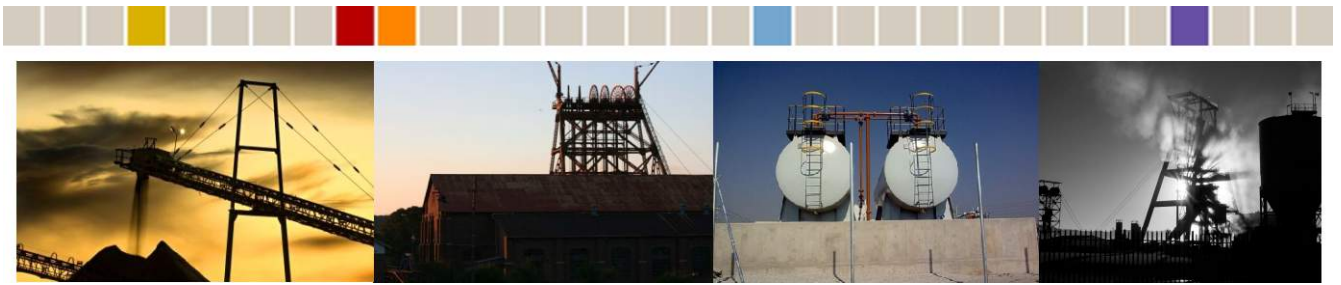
#### ATTENDANCE REGISTER

Name	Company	Designation	Contact details (Tel/Fax/Email)	Signature
Sammy Mabuka	READ	Enviro Officer	Tel: 018 2996710 / 084028 9393 Fax: 086632 5930 Email: mmabuka@nwpj.gov.za	
Vusumuzi Mahlanza	Anglo - RRM-C	Conc Manager	Tel: 014 598 2360 Fax: - Email: vusumuzi.mahlanza@angloamerican.com	
Piet Botha	Anglo - RRM-C	Plant Manager	Tel: 014-5982152 Fax: - Email: piet.j.botha@angloamerican.com	
Barend Nortje	Anglo - RRM-C.	Senior SME Specialist	Tel: 014 598 2404 Fax: - Email: barend.nortje@angloamerican.com	
Mulalo Tshilwa	Anglo - RRM-C	Env Officer	Tel: 014 598 2119 Fax: -	

DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR PROJECT: AUTHORITIES MEETING/13 AUGUST 2014 ATTENDANCE REGISTER

Name	Company	Designation	Contact details (Tel/Fax/Email)	Signature
Samed O'Brien	WSP	Consultant	Email: mitshil@wsp.co.za Tel: 011 551 1596 Fax: 011 551 3939 Email: jared.abrien@wsp.co.za	
			Tel: Fax: Email:	
			Tel: Fax: Email:	
			Tel: Fax: Email:	
			Tel: Fax: Email:	
			Tel: Fax: Email:	
			Tel: Fax: Email:	
			Tel: Fax: Email:	
			Tel: Fax: Email:	
			Tel: Fax: Email:	

**Appendix B – Agenda**



# Environmental Authorisation Process for the Decommissioning of the Klipfontein Concentrator Project

## Authorities Meeting

### Meeting Agenda

Venue: Rustenburg Platinum Mines: Rustenburg Section  
- Meeting - Rustenburg Concentrator  
- Site Visit - Klipfontein Concentrator  
Time: 10:00 – 12:00  
Date: 13 August 2014

1. Welcome and Introduction
  2. Apologies
  3. Project Presentation
  4. Questions & Answers
  5. Site Visit
  6. Post Site Visit Discussion Close Out
  7. Way Forward
-


**Appendix C – WSP Presentation**







**Anglo American Platinum Limited:  
Rustenburg Section Mines  
Basic Assessment Process for the  
Decommissioning of the Klipfontein  
Concentrator**

Authorities Meeting: 13 August 2014

**Agenda**

- Welcome and Introduction
- Apologies
- Project Presentation
- Questions & Answers
- Site Visit
- Post Site Visit Discussion Close Out
- Way Forward



**Welcome and Introduction**

- WSP Environment & Energy: Project Team

Name	Designation	Project Role
Brent Holme	Senior Consultant	Project Consultant
Jared O'Brien	Consultant	Project Manager


- Rustenburg Platinum Mines: Project Team


Name	Designation	Project Role
Vusumuzi Mhlangu	Rustenburg Concentrators Manager	Project Applicant
Barend Nortje	Senior SHE Specialist - Rustenburg Concentrators	Project Applicant
Vinesh Dilsook	Environmental Manager: Rustenburg Section	Environmental Manager
Mulalo Tshlowa	Rustenburg Concentrators Environmental Officer	Environmental Co-ordinator

**Apologies**



- Vinesh Dilsook






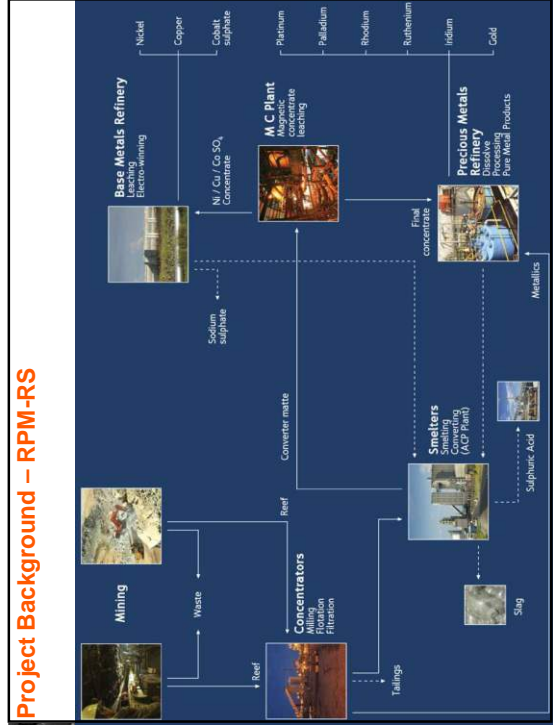

**Project Presentation**

- Project Background
- Project Description
- Legal Framework
- Basic Assessment (BA) Process Followed To Date
- Way Forward


**Meeting Objectives**

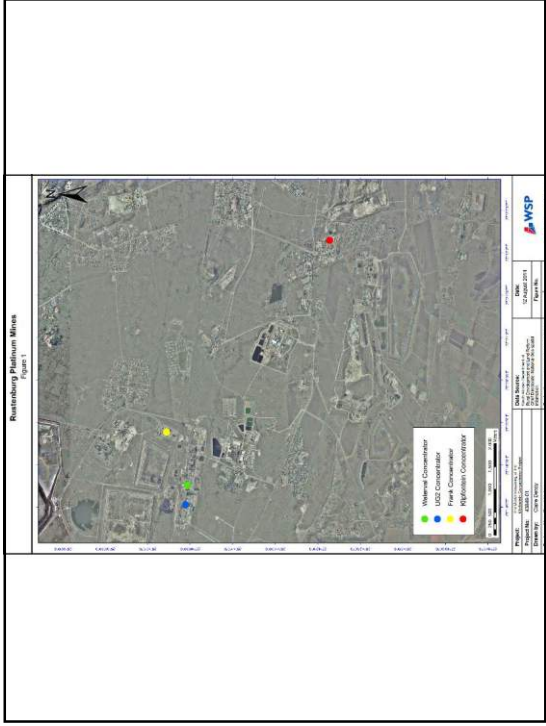
- Provide the case officer with the following:
  - Present the project to the authorities
  - Provide a platform in which to raise questions
  - Presenting the BA process
  - Provide the way forward

**Project Background – RPM-RS**

- The RPM-RS concentrators include the following:
  - Frank Concentrator (undergoing decommissioning) (Environmental Authorisation: NWP/EIA/103/2012 - 2 August 2013)
  - Klipfontein Concentrator (this project)
  - UG2 Concentrator (Operational)
  - The Waterval Concentrator (Operational)



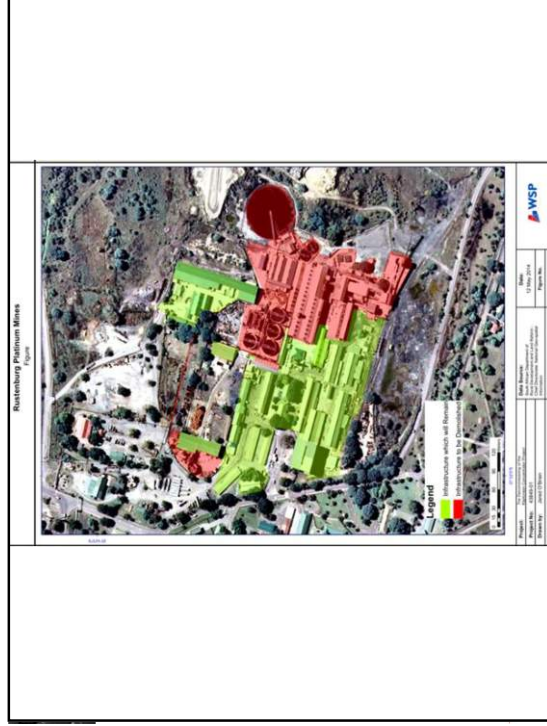


### Project Background – Kipfontein Concentrator

- The Kipfontein Concentrator
  - Located approximately 11km east of Rustenburg in the North West Province
  - Situated on the Remainder of Portion 2 of Kipfontein 300 J.Q.
  - Commissioned in 1931
  - Comprises an area of approximately 20ha
  - Had the capacity to process approximately 120 000 tons of ore per month
  - Currently on Care and Maintenance (costly)
- Following the establishment of the UG2 and the Waterval Concentrators, RPM-RS decided to remove the Kipfontein Concentrator from active service (mothballed in 2007)

### Project Description

- RPM-RS propose to decommission and dismantle the infrastructure associated with the Kipfontein Concentrator
- Certain infrastructure associated with the concentrator will remain on-site as the infrastructure is still considered useful to RPM-RS, which includes the following:
  - Concentrator offices
  - Concentrator workshop
  - Concentrator changes houses
  - Certain utilities





### Legal Framework

- Due to the presence of contaminated land on the site on which decommissioning is intended, RPM-RS require environmental authorisation according to the NEMA
- A BA process is being undertaken in accordance with GNR 543 and 544 of 2010. The following listed activities are triggered in terms of GNR 544:
  - Activity 27 (iv)
  - Activity 27 (v)
- The competent authority responsible for considering this application is the NWDEDECT
- RPM-RS appointed WSP to undertake the BA process



### Legal Framework (Cont.)

- In 2011, RPM-RS commissioned WSP to undertake an EMPR alignment and consolidation process according to the requirements of the DMR
- The decommissioning and dismantling of the Klipfontein Concentrator was accounted for within the alignment process
- As such, an EMPR Amendment process in accordance with the MPRDA is not considered applicable

The above approach was followed and accepted during the environmental authorisation process undertaken for the decommissioning of the Frank Concentrator.



### Legal Framework (Cont.)

- No additional water uses are triggered in terms of the NWA
  - Water transfer during the project will be achieved by the use of existing pipelines or water bowser trucks
- Due to the age of the concentrator, WSP approached SAHRA to determine heritage permitting requirements
  - Formal comment was received indicating that permitting is not required



### Basic Assessment Process Followed To Date

- Application submitted to the NWDEDECT
- Reference number received
- Stakeholder engagement process initiated
- Draft BA Report and EMPR compiled
- Reports distributed for public review (period ending 03 September 2014)
- Authorities site visit (today)





### Way Forward

- Stakeholder comments to be consolidated
- Final BA Report and EMPr to be updated
- Final Reports placed on electronic public review for 14 days
- Final Reports submitted to the NWDETECT case officer
- Await feedback from the case officer

Expected Decision Date: 04 December 2014.





# NOTICE OF ENVIRONMENTAL ASSESSMENT

**Basic Assessment for the Decommissioning of the Klipfontein Concentrator and Associated Infrastructure at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section**

## BACKGROUND INFORMATION DOCUMENT

### Project Overview

#### Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section

Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section (RPM-RS) mines, processes, refines and markets platinum and other platinum group metals (PGMs) as well as base metals at their Rustenburg operation. RPM-RS is one of a number of RPM operations across South Africa.

The ore extracted by RPM-RS includes that of two ore bodies, namely the Merensky Reef and the UG2 Reef at various shafts contained within the RPM-RS mine lease area. RPM-RS utilise various mining methods such as hybrid, board and pillar, conventional stopping, trackless development and opencast mining in order to extract the ore depending on the geological structure of the area being mined and the surface conditions. Following extraction from the reef the ore is passed through a number of processing and beneficiation stages in order to extract the required precious and base metals. The infrastructure required includes but is not limited to the following:

- Concentrators;
- Smelters;
- Precious Metals Refinery; and
- Base Metals Refinery.

RPM-RM has a planned life of mine of approximately 30 years.

#### RPM-RM: Concentrators

The RPM-RM Concentrators include the following:

- Frank Concentrator (Decommissioned);
- Klipfontein Concentrator (to be Decommissioned);
- UG2 Concentrator (Operational); and
- The Waterval Concentrator (Operational).

The Concentrators have the purpose of reducing ore to a concentrate matte which can be transferred to the smelters for further beneficiation. Each Concentrator is comprised of, but not limited to, the following main infrastructure:

- Crushing Plant;
- Milling Cells;
- Flotation Pods;
- Thickeners; and
- Filtration.

The Concentrators form an integral part of the RPM-RS operation. This document specifically focuses on the Klipfontein Concentrator.

## Klipfontein Concentrator

The Klipfontein Concentrator was commissioned in 1931. The Concentrator had the capacity to process approximately 120 000 tons of ore per month. Following the establishment of the UG2 and the Waterval Concentrators, RPM-RS decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at the two new Concentrators (i.e. the increased efficiency). As such, the Klipfontein Concentrator is considered a redundant plant and is currently under care and maintenance. Contaminated hotspots occur across the Klipfontein Concentrator area which resulted from historic processing activities.

## Proposed Project

RPM-RS proposes to decommission the infrastructure associated with the Klipfontein Concentrator in 2015 (Proposed Project). The following areas of the Klipfontein Concentrator are to be decommissioned and dismantled:

- Milling Section;
- Thickener section;
- Filtration section;
- Reagent section;
- Crusher section;
- Flotation section;
- Redressing section; and
- General areas.

Certain infrastructure associated with the Concentrator will remain on-site as the infrastructure is still considered useful to RPM-RS, which includes the following:

- Concentrator offices;
- Concentrator workshop; and
- Concentrator change houses.

**Figure 1** indicates which of the infrastructure will remain and which infrastructure will be demolished.

## Project Location

---

### RPM-RS

RPM-RS is located in the North West Province within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality, approximately 11 km east of Rustenburg. The RPM-RS mine lease area covers an area of approximately 16 651 hectares (**Figure 2**).

### Klipfontein Concentrator

The Klipfontein Concentrator is situated on the Remainder of Portion 2 of Klipfontein 300 JQ (**Figure 3**). The Concentrator occupies an area of approximately 20ha.

## Purpose of this Document

---

This background information document (BID) introduces all interested and affected parties (also referred to as Stakeholders) to the Proposed Project. This document forms part of the Stakeholder engagement process undertaken as a component of the environmental authorisation process and is intended to:

- Provide background information regarding the project;
- Provide an outline of the process being followed in conducting the Basic Assessment (BA);
- Inform Stakeholders of their rights and responsibilities regarding public participation in certain parts of the authorisation and rectification procedure; and
- Invite the public to register as Stakeholders and participate in the environmental authorisation process for the proposed project.

## Legal Framework

---

### National Environmental Management Act (No. 107 of 1998)

The National Environmental Management Act (No. 107 of 1998) (NEMA) is South Africa's overarching environmental legislation. The NEMA has a primary objective, to provide for co-operative governance by establishing principles for decision making on matters affecting the environment, institutions that will promote co-operative governance and procedures for co-ordinating environmental functions exercised by organs of state.

In terms of the NEMA the Minister of the Department of Environmental Affairs (DEA) may identify activities which may not commence without prior authorisation from the Minister or member of the Executive Committee (MEC). As such, the Minister of the DEA thus published Government Notice Regulation (GNR) 544 (Listing Notice 1), GNR 545 (Listing Notice 2) and GNR 546 (Listing Notice 3) (18 June 2010) listing activities that may not commence prior to environmental authorisation from the Minister or MEC.

Government Notice Regulation (GNR) 544 identifies activities that require a BA process to be undertaken, in terms of the Environmental Impact Assessment (EIA) Regulations of 2010, prior to commencement of that activity.

### Proposed Project Legal Triggers

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required prior to the commencement of the Proposed Project. The following GNR 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a BA process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

### Environmental Assessment Practitioner

---

RPM-RS commissioned WSP Environmental (Pty) Ltd to facilitate the BA process, in accordance with the NEMA, with specific reference to GNR 543 and 544 of 2010. WSP is a leading South African environmental consultancy with a broad range of expertise and over 20 years' experience in the regional environmental market. While we form part of WSP Group, a global engineering and environmental multi-consultancy, we are also committed to transformation in our operational region, with 26% Broad Based Black Economic Empowerment (BBBEE) ownership and having achieved Level 3 BBBEE in South Africa. As part of a global business we provide the regional marketplace with a dynamic blend of local and global expertise.



# What does the Environmental Authorisation Process consist of?

## Stakeholder Engagement

---

The first steps are to notify the public and previously identified Stakeholders of the Proposed Project. Notification is accomplished by various means to ensure a transparent process and will include details of the Proposed Project as well as instructions on how to register as a Stakeholder. This includes:

- Publication of a newspaper advertisement in the following newspapers:
  - The Rustenburg Herald; and
  - Platinum Weekly.
- Erection of site notices in and around the project area;
- Written notification letters to Stakeholders;
- Distribution of the BID to Stakeholders;
- Notification of Draft and Final BA Report (inclusive of Environmental Management Programme) availability for public comment.

The draft BA Report will be compiled and be placed on public review for a period of 40 days. The BA Report will be updated to reflect comments received from Stakeholders during the public review period. The Final BA Report will be submitted to the NWDEDECT for consideration. Stakeholders will be allocated 14 days to review the Final BA Report in electronic format. Registered Stakeholders will be notified of the review period via email, facsimile and short messaging system notification.

## Stakeholder Engagement Process

---

The Stakeholder engagement process is an integral part of the BA process, and continues throughout this process. This section provides more detail on the Stakeholder engagement process.

### Step 1: Notify the Authority of BA Process

- Submit an application for **BA** to the NWDEDECT.

### Step 2: Notify Stakeholders and Identify Issues

- Notify Stakeholders of the Proposed Project;
- Identify any issues/concerns of Stakeholders; and
- Provide Stakeholders with a BID on the Proposed Project, including a locality map and a registration/issues form. Stakeholders are required to register and declare their interest in the Proposed Project in order to receive further information.

### Step 3: Public Review of Draft BA Report

- Issues and concerns raised by registered Stakeholders are contained in a Comment Response Report for inclusion in the Draft BA Report;
- The Draft BA Report is released for a 40 day comment period;
- All registered Stakeholders will be notified in writing of the opportunity to comment; and
- Copies of the Draft BA Report will be made available at public places and on the WSP website.

### Step 5: Final BA Report

- Comments received from registered Stakeholders during the Draft BA Report review process are considered in the compilation of the Final BA Report before it is submitted to all relevant authorities for their review and approval;
- Registered Stakeholders are allocated a 14 day period in which to review the Final BA Report;
- Comments received during this period will be submitted to the Authority in the form of a comments and response report;
- The NWDEDECT will have a legislated period of 44 days to review and either accept or reject the Final BA Report; and
- All Stakeholders on the project database will be notified in writing of the NWDEDECT decision.

### Step 6: Public Notification of Decision and Appeal Period

- All registered Stakeholders on the project database will be notified in writing regarding the environmental authorisations for the project and the appeal period, as well as the manner of appeal.

## Why is your Participation Important?

---

Participation is in everyone's best interest because it:

- Provides opportunities for Stakeholders and the authorities to obtain clear, accurate and understandable information about the Proposed Project;
- Provides members of the public with the opportunity to provide comments (both positive and negative) regarding the environmental impacts of the Proposed Project;
- Provides Stakeholders with the opportunity to suggest ways of reducing or mitigating any negative impacts of the Proposed Project, or for enhancing its benefits;
- Will enable the Proposed Project to incorporate the needs, preferences and values of Stakeholders into project decisions; and
- Contributes toward maintaining a healthy, vibrant democracy.

## How can you get involved?

---

- By responding (by phone, fax or e-mail) to our invitation for your involvement;
- By mailing, faxing or e-mailing the attached comment form to WSP;
- By telephonically contacting WSP if you have a query, comment or require further project information; and
- By reviewing the Draft BA Report within the relevant review periods and sending your comments to WSP.

## Basic Assessment process

---

A BA process will be conducted to identify the potential impacts associated with the Proposed Project and outline the measures that must be taken to avoid or reduce negative impacts, and enhance positive impacts. In addition, the BA process must illustrate the issues, concerns and suggestions raised by Stakeholders. The BA will follow the process illustrated in **Figure 4**.

# Figures

## Rustenburg Platinum Mines

Figure

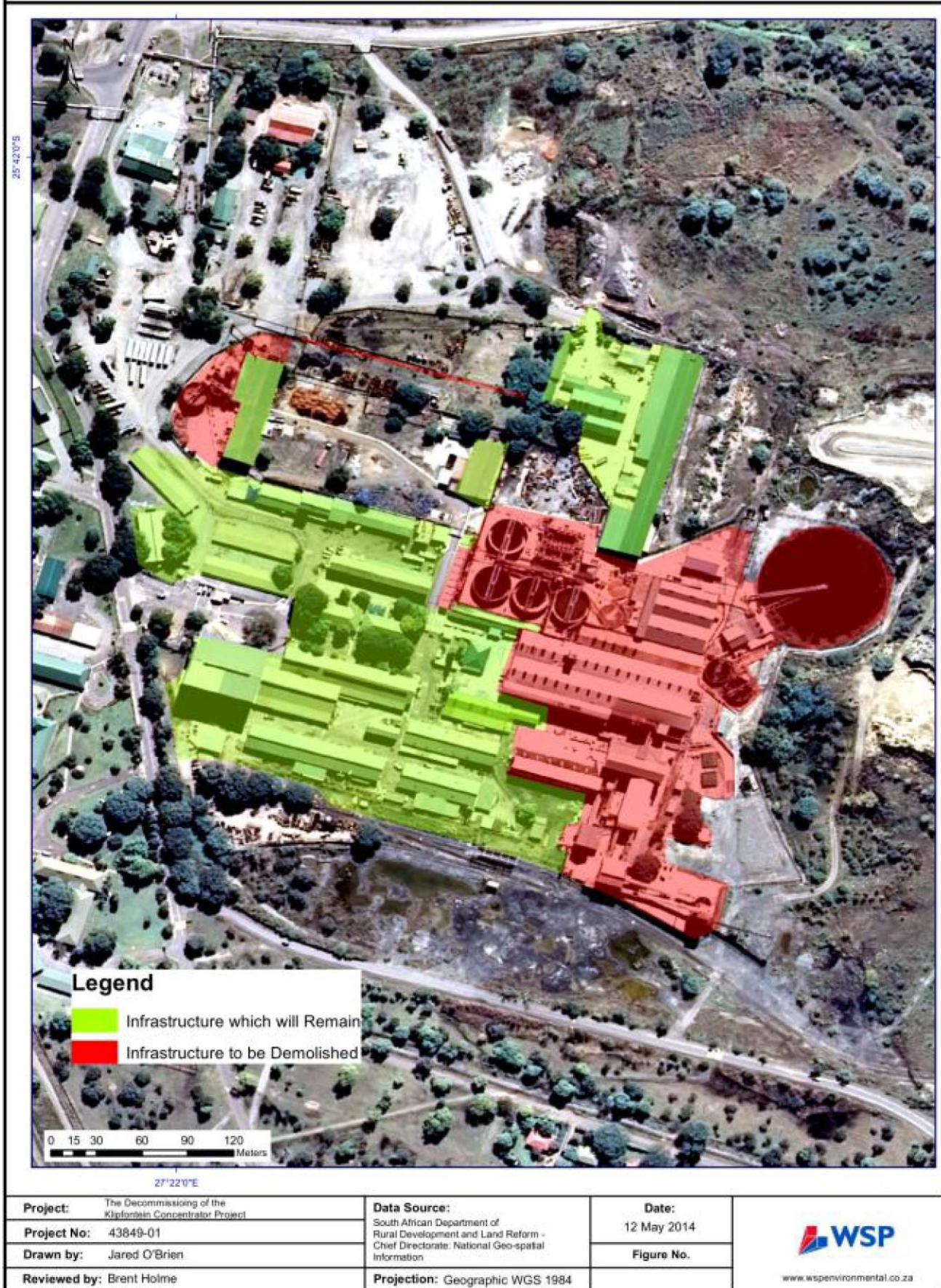


Figure 1: Remaining/Demolished Infrastructure

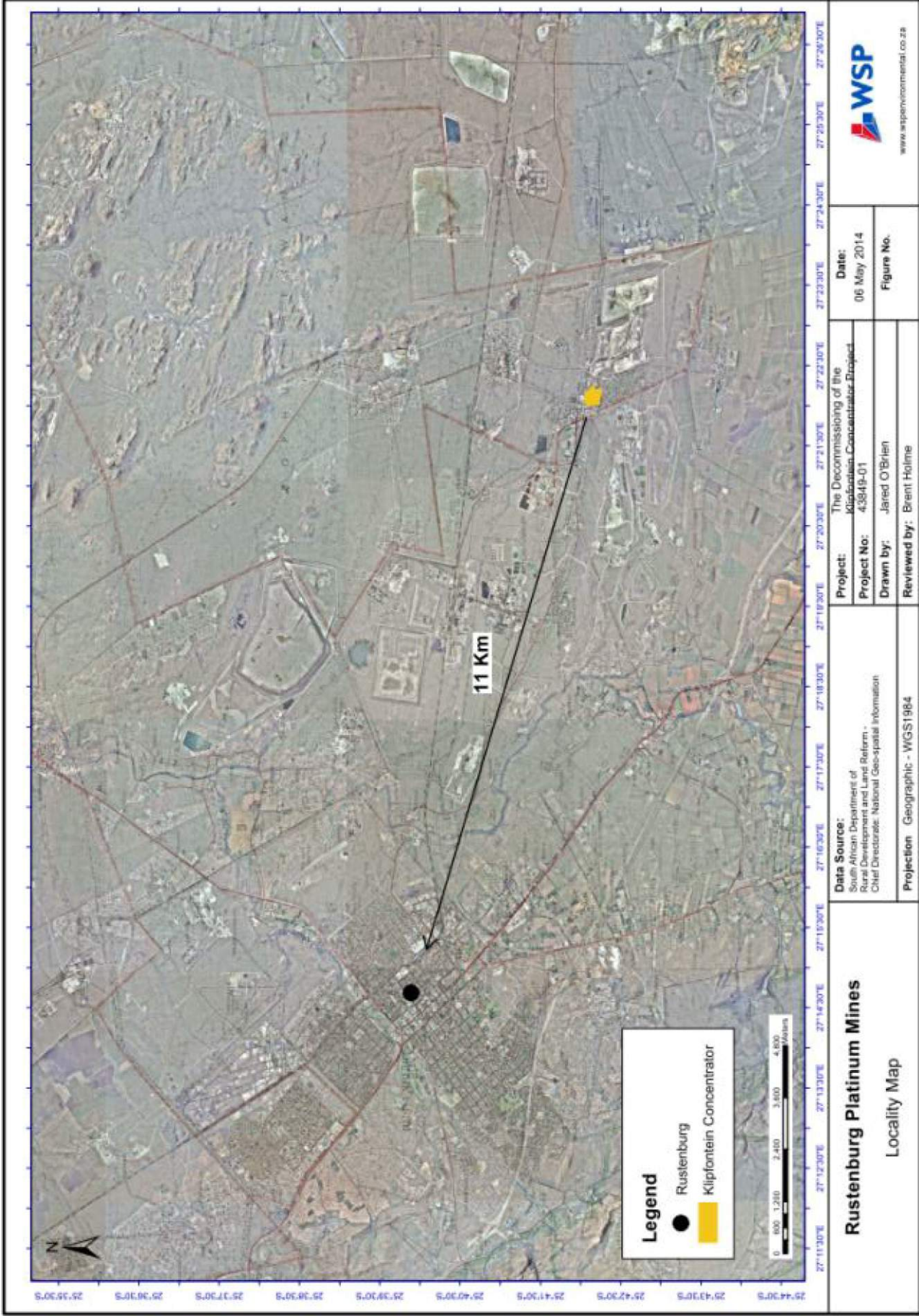
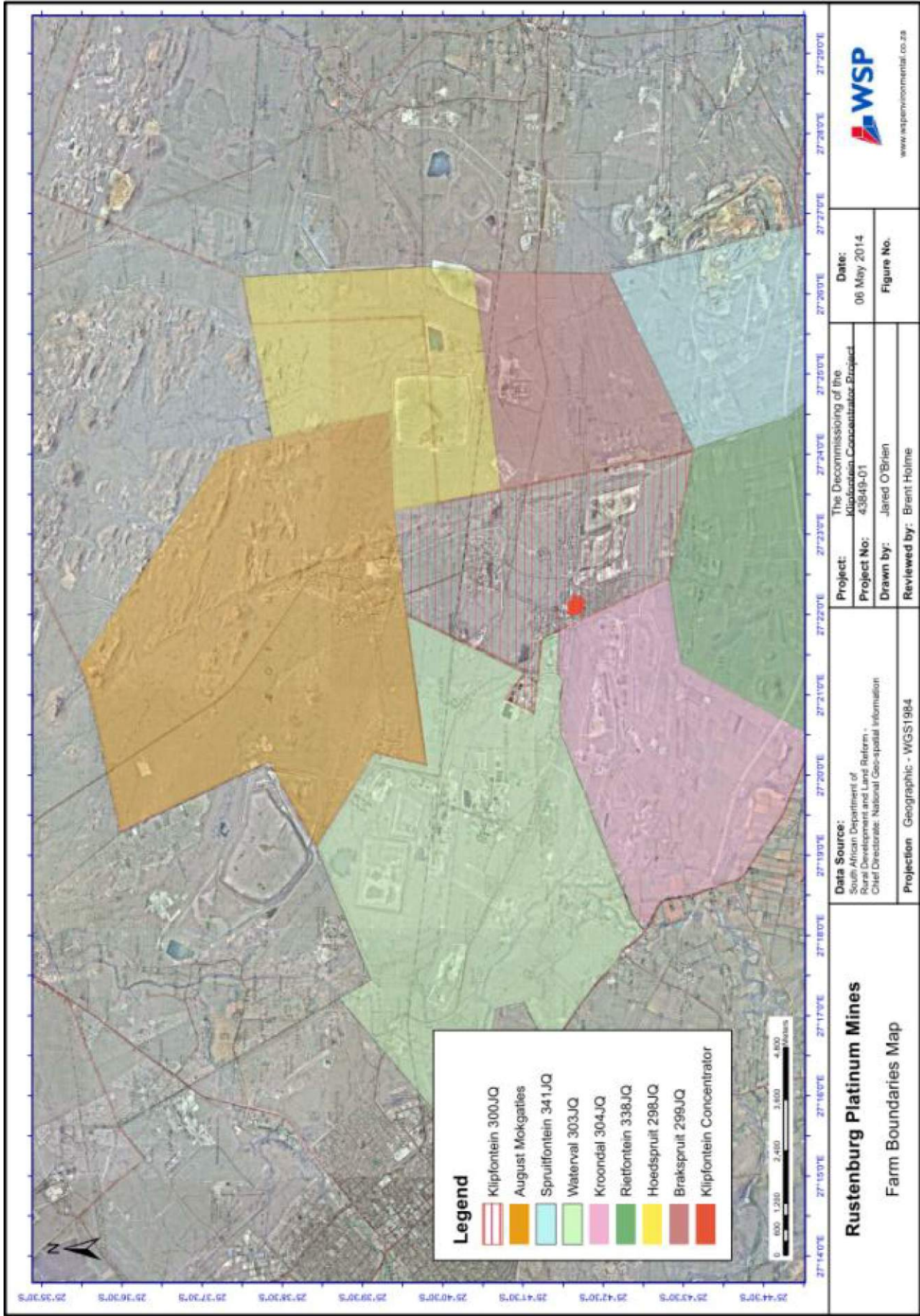


Figure 2: Locality Map



**Rustenburg Platinum Mines**  
Farm Boundaries Map

**Data Source:** South African Department of Rural Development and Land Reform - Chief Directorate: National Geo-spatial Information  
**Projection:** Geographic - WGS1984

**Project:** The Decommissioning of the Klipfontein Concentrator Project  
**Project No:** 43649-01  
**Drawn by:** Jared O'Brien  
**Reviewed by:** Brent Holme

**Date:** 06 May 2014  
**Figure No.**



Figure 3: Farm/Portion Map

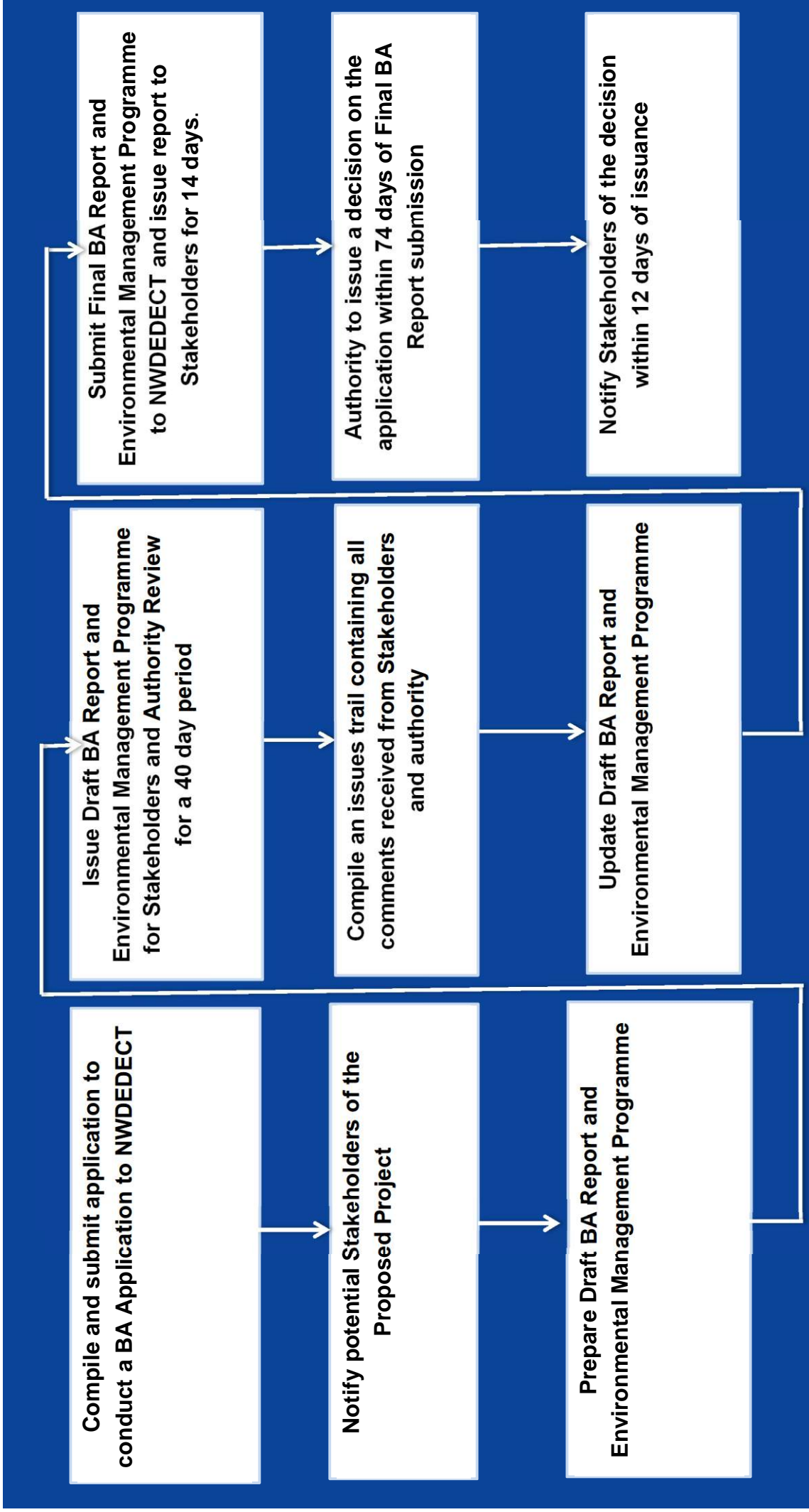


Figure 4: Basic Assessment Process

# Registration and Comments Sheet

**The Proposed Decommissioning of the Klipfontein Concentrator and Associated Infrastructure at  
Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section  
(NWDEDECT Reference: NWP/EIA/12/2014)**

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

**Claire Dendy**  
**WSP Environmental (Pty) Ltd**  
**Address:** P.O. Box 98867, Rivonia, 2151  
**Tel:** 011 361 1334  
**Fax:** 011 361 1381  
**Email:** Claire.Dendy@WSPGroup.co.za

*Please insert your personal details below:*

<b>Name:</b>				
<b>Organisation &amp; Designation:</b>				
<b>Address:</b>				
<b>Tel:</b>				
<b>Fax:</b>				
<b>E-mail:</b>				
<b>I would like my notifications by: (please tick the appropriate box)</b>	<b>Letter (mail)</b>	<b>E-mail</b>	<b>Fax</b>	<b>Telephone</b>

**In terms of GNR 543 (BA process regulations) please disclose below any direct business, financial, personal or other interest that you may have in the granting or rejection of the application for environmental authorisation:**

.....  
 .....

**Please list your interest in the project and comments below:**

.....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....

## NOTICE OF ENVIRONMENTAL ASSESSMENT

### BASIC ASSESSMENT FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION

NWDEDECT Reference Number: NWP/EIA/12/2014

**NOTICE IS GIVEN IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT (NO. 107 OF 1998) AS AMENDED (NEMA), WITH REFERENCE TO GOVERNMENT NOTICE REGULATIONS (GNR) 543 AND 544 OF 2010**

#### PROPOSED PROJECT DESCRIPTION AND LOCATION

The Anglo American Platinum: Rustenburg Section (RPM-RS) Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Concentrator is located on the farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. In 2008, RPM-RS identified that land on which the Klipfontein Concentrator is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex. RPM-RS decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS proposes to decommission the redundant Klipfontein Concentrator (Proposed Project) to support the rehabilitation of the site. Certain of the associated infrastructure will be retained as the infrastructure remains useful to RPM-RS (Figure 1).

#### ENVIRONMENTAL AUTHORISATION

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the NEMA prior to the commencement of the Proposed Project. The following GNR 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic meters.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

#### STAKEHOLDER REGISTRATION

WSP Environmental (Pty) Ltd (WSP) was appointed as the environmental assessment practitioner (EAP) to manage the BA process in accordance with the NEMA, GNR 543. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report.

#### PURPOSE OF THIS NOTICE

Interested and Affected Parties wishing to register as stakeholders, in order to offer their comment on the Proposed Project, are requested to forward their full contact details to Claire Dendy at the details provided below. Registered stakeholders will be forwarded all future correspondence, and notified individually of additional opportunities to participate in the process.

Name: Claire Dendy  
 Tel: 011 361 1334 Fax: 011 361 1381  
 E-mail: Claire.Dendy@wspgroup.co.za  
 Address: PO Box 98867, Sloane Park, 2152

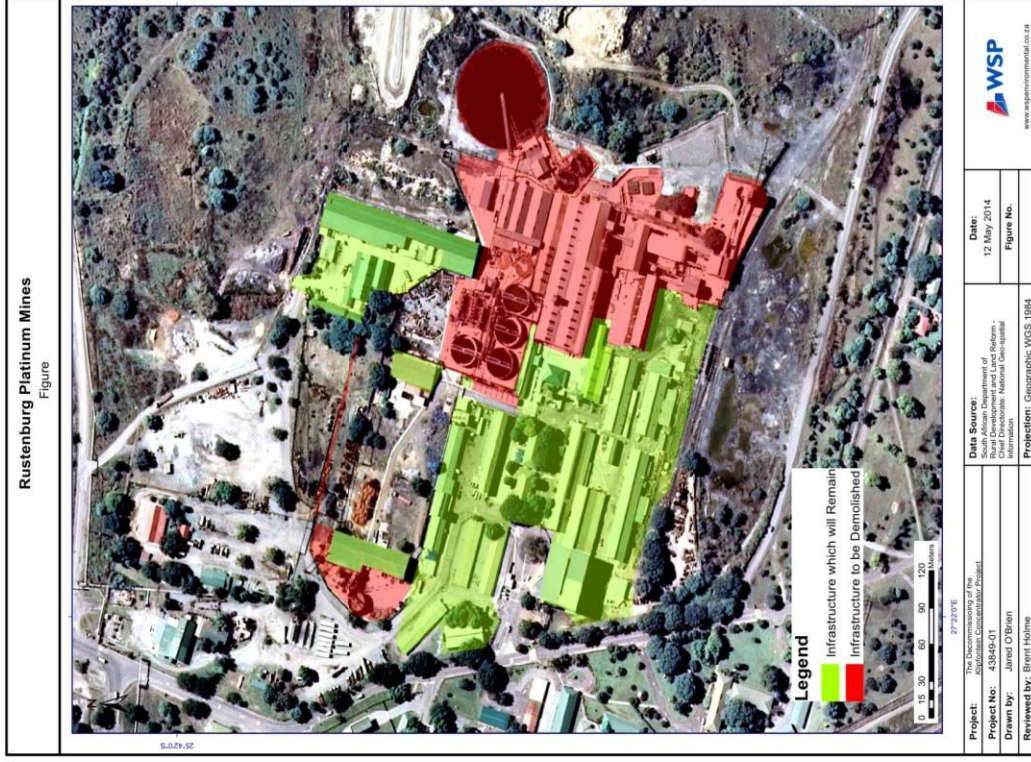


Figure 1: Infrastructure to be Demolished





PLATINUM

## NOTICE OF ENVIRONMENTAL ASSESSMENT

### Basic Assessment for the Decommissioning of the Klipfontein Concentrator and Associated Infrastructure at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section

NWDEDECT REFERENCE NUMBER: NWP/EIA/12/2014

#### Description and Location

The Anglo American Platinum: Rustenburg Section (RPM-RS) Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. RPM-RS decided to remove the Klipfontein Concentrator from active service (mothballed in 2007). The Klipfontein Concentrator is located on the farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West province. In 2008, RPM-RS identified that land on which the Klipfontein Concentrator is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support the rehabilitation of the site. Due to the presence of contamination, environmental authorisation is required prior to commencement of the Proposed Project.

#### Environmental Authorisation

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required prior to the commencement of the Proposed Project.

The following GNR 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be responsible for considering the application for Environmental Authorisation in terms of the National Environmental Management Act (No 107 of 1998).

#### Stakeholder registration

WSP Environmental (Pty) Ltd (WSP) has been appointed as the environmental assessment practitioner to manage the BA process in accordance with the NEMA, GNR 543. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report.

#### Purpose of this Notice

To notify stakeholders of the commencement of the BA process. Parties wishing to register as stakeholders, in order to offer their comment on the Proposed Project, are requested to forward their full contact details to Claire Dendy at the details provided below. Registered stakeholders will be forwarded all future correspondence, and notified individually of additional opportunities to participate in the process.

#### Claire Dendy

Tel: 011 361 1334

Fax: 011 361 1381

E-mail: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)

Address: PO Box 98867, Sloane Park, 2152



WSP Reference no: 43849  
NWDEDECT Reference no: NWP/EIA/12/2014



02 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

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

#### 4. PURPOSE OF THIS NOTICE

This letter has the purpose of notifying stakeholders of the commencement of the BA process. Parties wishing to register as stakeholders, in order to offer their comment on the Proposed Project, are requested to forward their full contact details to Claire Dendy (contact details provided below). Registered stakeholders will be forwarded all future correspondence, and notified individually of additional opportunities to participate in the process.

In addition to the information provided herewith, a background information document (BID) has been attached in **Appendix A** for the purpose of:

- Providing background information regarding the Proposed Project;
- Providing an outline of the processes being followed in conducting the abovementioned processes;
- Informing members of the public of their rights and responsibilities regarding participation at certain stages during the BA process;
- Assisting the public to formulate their comments in a manner that will ensure that they can be afforded due attention in certain stages of the BA process;

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

Regards,

A handwritten signature in black ink, appearing to read 'Claire Dendy', is positioned above the printed name.

**Claire Dendy**  
**Environmental Consultant**

Tel: 011 361 1334

Fax: 011 361 1381

Email: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)





# NOTICE OF ENVIRONMENTAL ASSESSMENT

Basic Assessment for the Decommissioning of the Klipfontein Concentrator and Associated Infrastructure at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section

## BACKGROUND INFORMATION DOCUMENT

### Project Overview

#### Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section

Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section (RPM-RS) mines, processes, refines and markets platinum and other platinum group metals (PGMs) as well as base metals at their Rustenburg operation. RPM-RS is one of a number of RPM operations across South Africa.

The ore extracted by RPM-RS includes that of two ore bodies, namely the Merensky Reef and the UG2 Reef at various shafts contained within the RPM-RS mine lease area. RPM-RS utilise various mining methods such as hybrid, board and pillar, conventional stopping, trackless development and opencast mining in order to extract the ore depending on the geological structure of the area being mined and the surface conditions. Following extraction from the reef the ore is passed through a number of processing and beneficiation stages in order to extract the required precious and base metals. The infrastructure required includes but is not limited to the following:

- Concentrators;
- Smelters;
- Precious Metals Refinery; and
- Base Metals Refinery.

RPM-RM has a planned life of mine of approximately 30 years.

#### RPM-RM: Concentrators

The RPM-RM Concentrators include the following:

- Frank Concentrator (Decommissioned);
- Klipfontein Concentrator (to be Decommissioned);
- UG2 Concentrator (Operational); and
- The Waterval Concentrator (Operational).

The Concentrators have the purpose of reducing ore to a concentrate matte which can be transferred to the smelters for further beneficiation. Each Concentrator is comprised of, but not limited to, the following main infrastructure:

- Crushing Plant;
- Milling Cells;
- Flotation Pods;
- Thickeners; and
- Filtration.

The Concentrators form an integral part of the RPM-RS operation. This document specifically focuses on the Klipfontein Concentrator.

## Klipfontein Concentrator

The Klipfontein Concentrator was commissioned in 1931. The Concentrator had the capacity to process approximately 120 000 tons of ore per month. Following the establishment of the UG2 and the Waterval Concentrators, RPM-RS decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at the two new Concentrators (i.e. the increased efficiency). As such, the Klipfontein Concentrator is considered a redundant plant and is currently under care and maintenance. Contaminated hotspots occur across the Klipfontein Concentrator area which resulted from historic processing activities.

## Proposed Project

RPM-RS proposes to decommission the infrastructure associated with the Klipfontein Concentrator in 2015 (Proposed Project). The following areas of the Klipfontein Concentrator are to be decommissioned and dismantled:

- Milling Section;
- Thickener section;
- Filtration section;
- Reagent section;
- Crusher section;
- Flotation section;
- Redressing section; and
- General areas.

Certain infrastructure associated with the Concentrator will remain on-site as the infrastructure is still considered useful to RPM-RS, which includes the following:

- Concentrator offices;
- Concentrator workshop; and
- Concentrator change houses.

**Figure 1** indicates which of the infrastructure will remain and which infrastructure will be demolished.

## Project Location

---

### RPM-RS

RPM-RS is located in the North West Province within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality, approximately 11 km east of Rustenburg. The RPM-RS mine lease area covers an area of approximately 16 651 hectares (**Figure 2**).

### Klipfontein Concentrator

The Klipfontein Concentrator is situated on the Remainder of Portion 2 of Klipfontein 300 JQ (**Figure 3**). The Concentrator occupies an area of approximately 20ha.

## Purpose of this Document

---

This background information document (BID) introduces all interested and affected parties (also referred to as Stakeholders) to the Proposed Project. This document forms part of the Stakeholder engagement process undertaken as a component of the environmental authorisation process and is intended to:

- Provide background information regarding the project;
- Provide an outline of the process being followed in conducting the Basic Assessment (BA);
- Inform Stakeholders of their rights and responsibilities regarding public participation in certain parts of the authorisation and rectification procedure; and
- Invite the public to register as Stakeholders and participate in the environmental authorisation process for the proposed project.

## Legal Framework

---

### National Environmental Management Act (No. 107 of 1998)

The National Environmental Management Act (No. 107 of 1998) (NEMA) is South Africa's overarching environmental legislation. The NEMA has a primary objective, to provide for co-operative governance by establishing principles for decision making on matters affecting the environment, institutions that will promote co-operative governance and procedures for co-ordinating environmental functions exercised by organs of state.

In terms of the NEMA the Minister of the Department of Environmental Affairs (DEA) may identify activities which may not commence without prior authorisation from the Minister or member of the Executive Committee (MEC). As such, the Minister of the DEA thus published Government Notice Regulation (GNR) 544 (Listing Notice 1), GNR 545 (Listing Notice 2) and GNR 546 (Listing Notice 3) (18 June 2010) listing activities that may not commence prior to environmental authorisation from the Minister or MEC.

Government Notice Regulation (GNR) 544 identifies activities that require a BA process to be undertaken, in terms of the Environmental Impact Assessment (EIA) Regulations of 2010, prior to commencement of that activity.

### Proposed Project Legal Triggers

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required prior to the commencement of the Proposed Project. The following GNR 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a BA process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

### Environmental Assessment Practitioner

---

RPM-RS commissioned WSP Environmental (Pty) Ltd to facilitate the BA process, in accordance with the NEMA, with specific reference to GNR 543 and 544 of 2010. WSP is a leading South African environmental consultancy with a broad range of expertise and over 20 years' experience in the regional environmental market. While we form part of WSP Group, a global engineering and environmental multi-consultancy, we are also committed to transformation in our operational region, with 26% Broad Based Black Economic Empowerment (BBBEE) ownership and having achieved Level 3 BBBEE in South Africa. As part of a global business we provide the regional marketplace with a dynamic blend of local and global expertise.

# What does the Environmental Authorisation Process consist of?

## Stakeholder Engagement

---

The first steps are to notify the public and previously identified Stakeholders of the Proposed Project. Notification is accomplished by various means to ensure a transparent process and will include details of the Proposed Project as well as instructions on how to register as a Stakeholder. This includes:

- Publication of a newspaper advertisement in the following newspapers:
  - The Rustenburg Herald; and
  - Platinum Weekly.
- Erection of site notices in and around the project area;
- Written notification letters to Stakeholders;
- Distribution of the BID to Stakeholders;
- Notification of Draft and Final BA Report (inclusive of Environmental Management Programme) availability for public comment.

The draft BA Report will be compiled and be placed on public review for a period of 40 days. The BA Report will be updated to reflect comments received from Stakeholders during the public review period. The Final BA Report will be submitted to the NWDEDECT for consideration. Stakeholders will be allocated 14 days to review the Final BA Report in electronic format. Registered Stakeholders will be notified of the review period via email, facsimile and short messaging system notification.

## Stakeholder Engagement Process

---

The Stakeholder engagement process is an integral part of the BA process, and continues throughout this process. This section provides more detail on the Stakeholder engagement process.

### Step 1: Notify the Authority of BA Process

- Submit an application for **BA** to the NWDEDECT.

### Step 2: Notify Stakeholders and Identify Issues

- Notify Stakeholders of the Proposed Project;
- Identify any issues/concerns of Stakeholders; and
- Provide Stakeholders with a BID on the Proposed Project, including a locality map and a registration/issues form. Stakeholders are required to register and declare their interest in the Proposed Project in order to receive further information.

### Step 3: Public Review of Draft BA Report

- Issues and concerns raised by registered Stakeholders are contained in a Comment Response Report for inclusion in the Draft BA Report;
- The Draft BA Report is released for a 40 day comment period;
- All registered Stakeholders will be notified in writing of the opportunity to comment; and
- Copies of the Draft BA Report will be made available at public places and on the WSP website.

### Step 5: Final BA Report

- Comments received from registered Stakeholders during the Draft BA Report review process are considered in the compilation of the Final BA Report before it is submitted to all relevant authorities for their review and approval;
- Registered Stakeholders are allocated a 14 day period in which to review the Final BA Report;
- Comments received during this period will be submitted to the Authority in the form of a comments and response report;
- The NWDEDECT will have a legislated period of 44 days to review and either accept or reject the Final BA Report; and
- All Stakeholders on the project database will be notified in writing of the NWDEDECT decision.

### Step 6: Public Notification of Decision and Appeal Period

- All registered Stakeholders on the project database will be notified in writing regarding the environmental authorisations for the project and the appeal period, as well as the manner of appeal.



## Why is your Participation Important?

---

Participation is in everyone's best interest because it:

- Provides opportunities for Stakeholders and the authorities to obtain clear, accurate and understandable information about the Proposed Project;
- Provides members of the public with the opportunity to provide comments (both positive and negative) regarding the environmental impacts of the Proposed Project;
- Provides Stakeholders with the opportunity to suggest ways of reducing or mitigating any negative impacts of the Proposed Project, or for enhancing its benefits;
- Will enable the Proposed Project to incorporate the needs, preferences and values of Stakeholders into project decisions; and
- Contributes toward maintaining a healthy, vibrant democracy.

## How can you get involved?

---

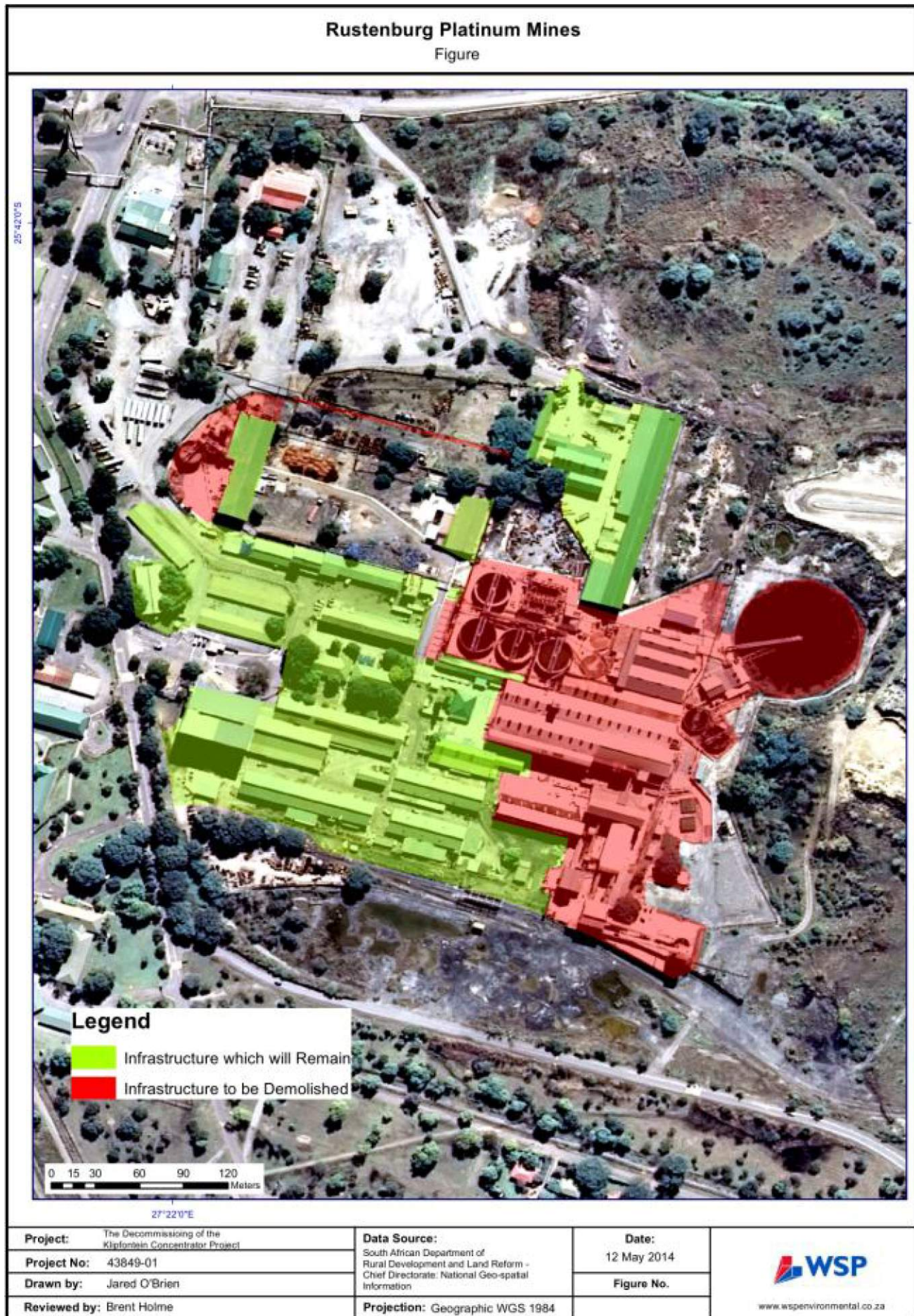
- By responding (by phone, fax or e-mail) to our invitation for your involvement;
- By mailing, faxing or e-mailing the attached comment form to WSP;
- By telephonically contacting WSP if you have a query, comment or require further project information; and
- By reviewing the Draft BA Report within the relevant review periods and sending your comments to WSP.

## Basic Assessment process

---

A BA process will be conducted to identify the potential impacts associated with the Proposed Project and outline the measures that must be taken to avoid or reduce negative impacts, and enhance positive impacts. In addition, the BA process must illustrate the issues, concerns and suggestions raised by Stakeholders. The BA will follow the process illustrated in **Figure 4**.

# Figures



**Figure 1: Remaining/Demolished Infrastructure**

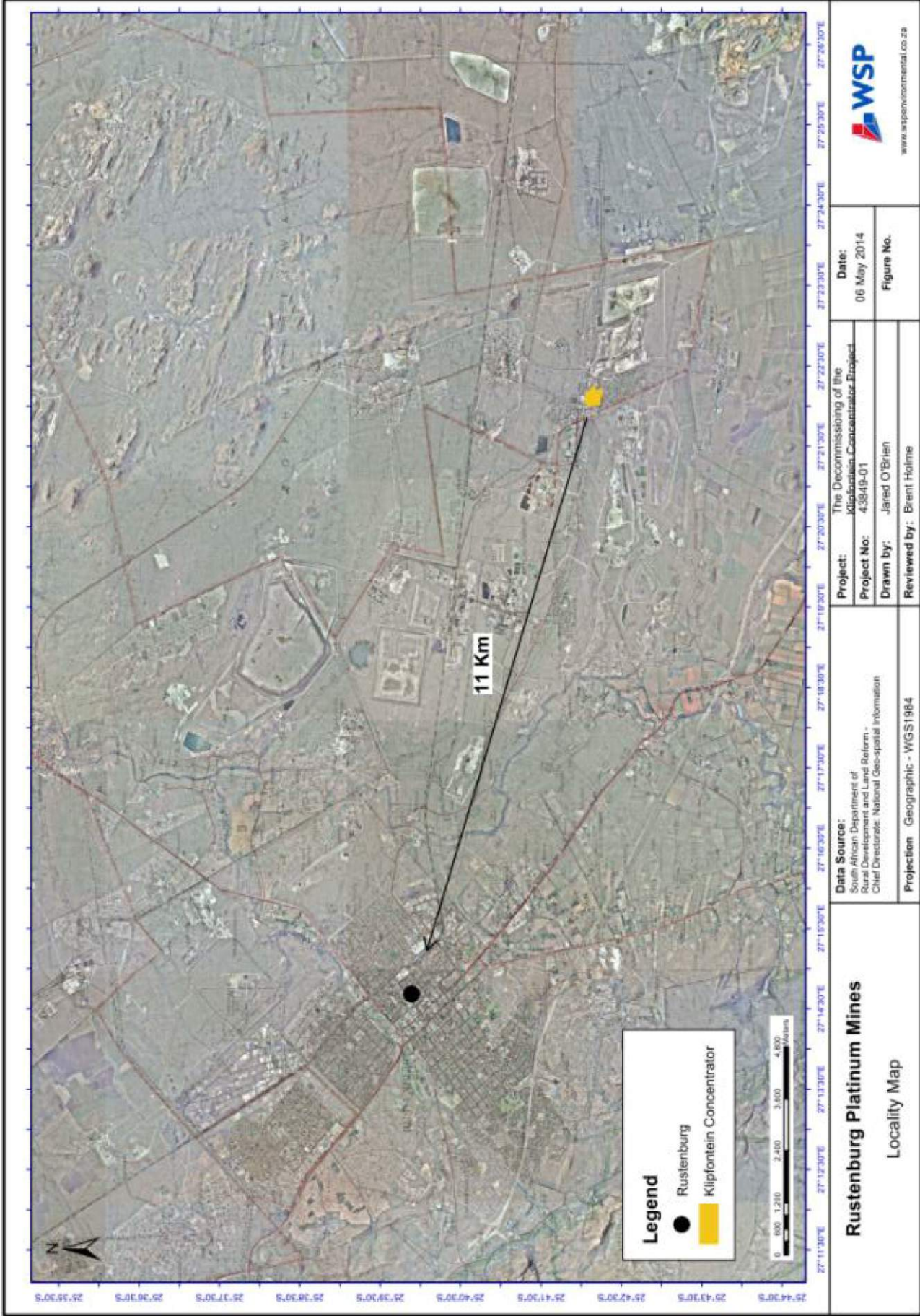
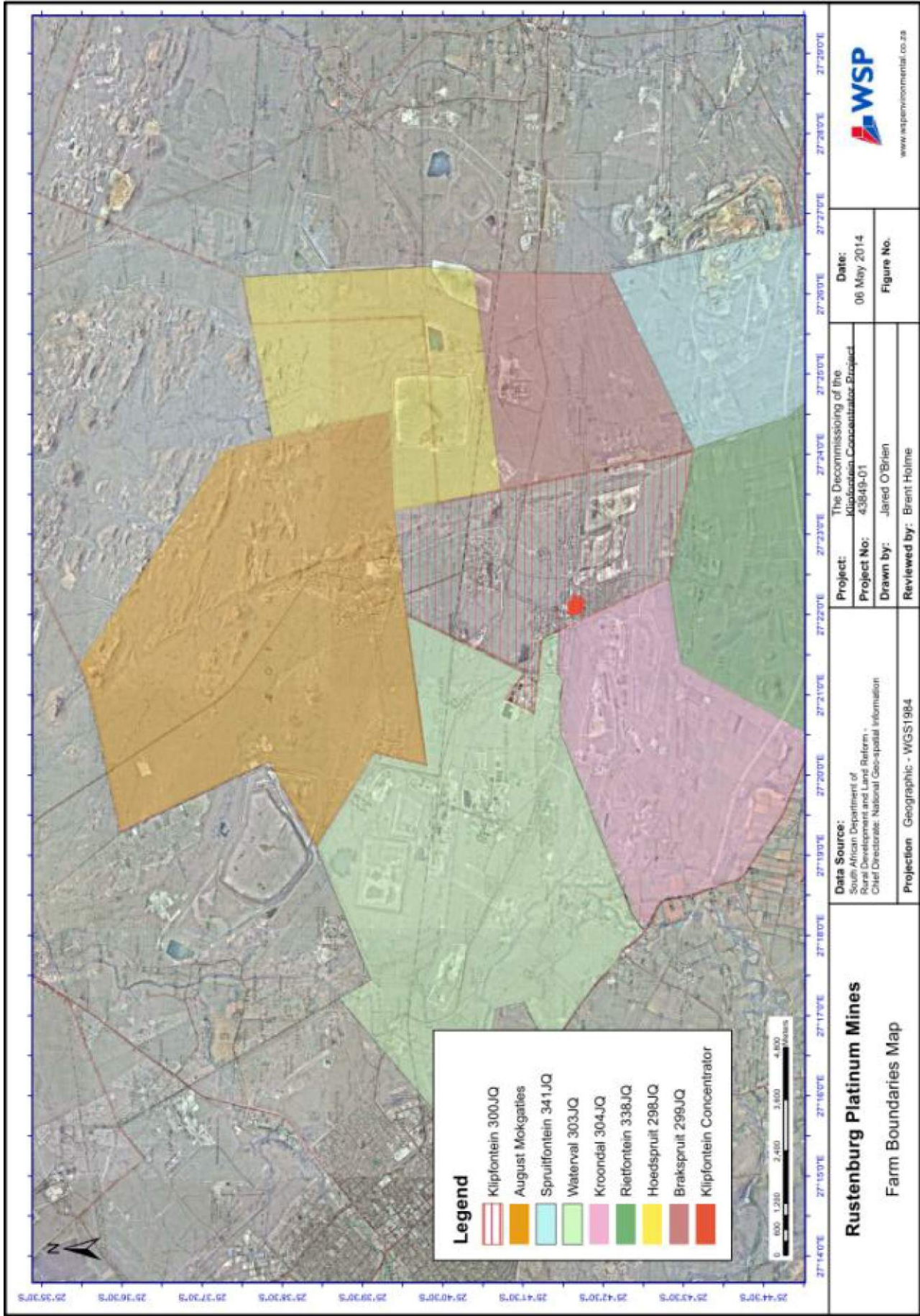


Figure 2: Locality Map



**Rustenburg Platinum Mines**  
Farm Boundaries Map

**Data Source:** South African Department of Rural Development and Land Reform - Chief Directorate: National Geo-spatial Information  
**Projection:** Geographic - WGS1984

**Project:** The Decommissioning of the Klipfontein Concentrator Project  
**Project No:** 43649-01  
**Drawn by:** Jared O'Brien  
**Reviewed by:** Brent Holme

**Date:** 06 May 2014  
**Figure No.**



Figure 3: Farm/Portion Map

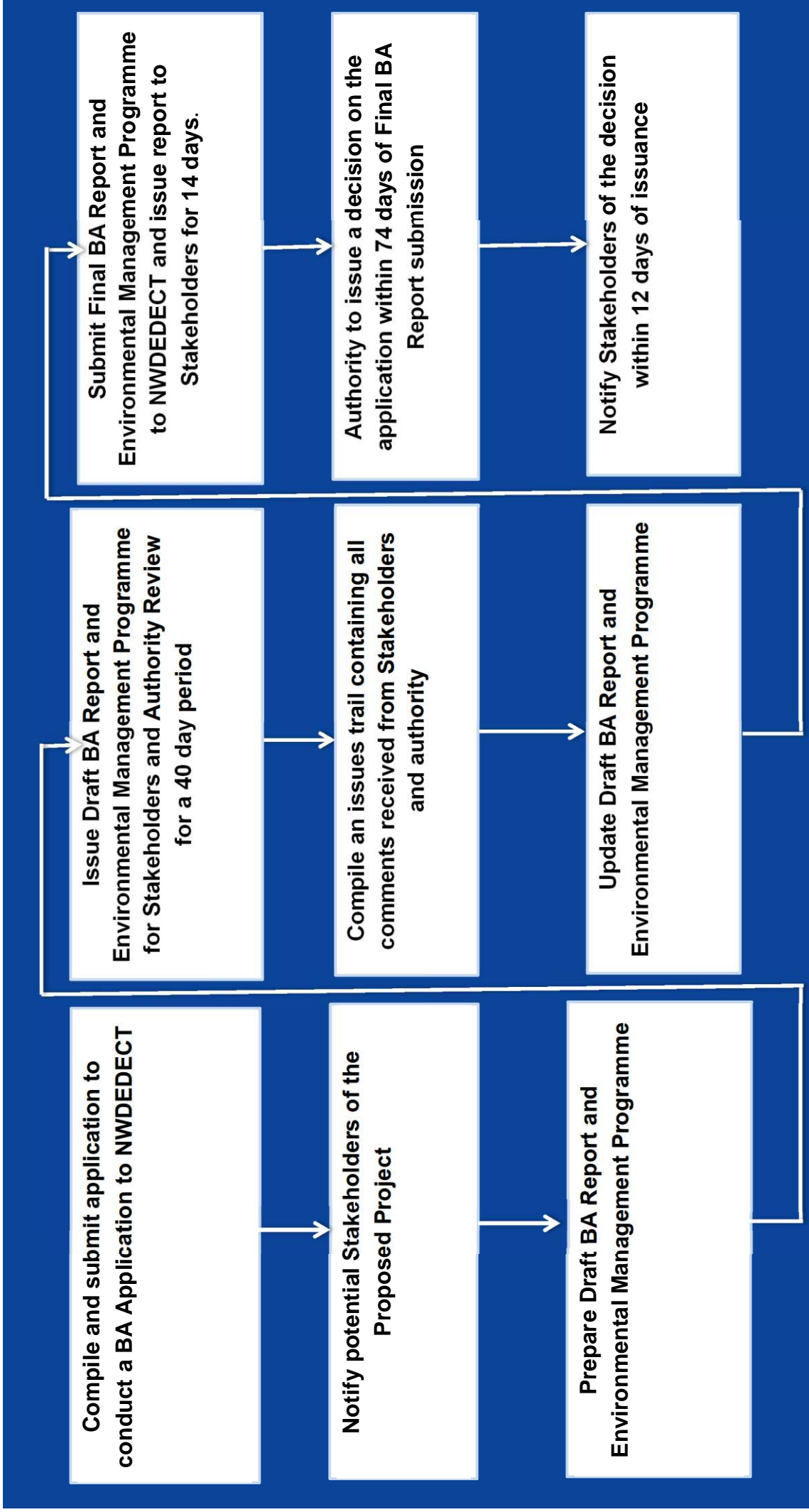


Figure 4: Basic Assessment Process

# Registration and Comments Sheet

**The Proposed Decommissioning of the Klipfontein Concentrator and Associated Infrastructure at  
Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section  
(NWDEDECT Reference: NWP/EIA/12/2014)**

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

**Claire Dendy**  
**WSP Environmental (Pty) Ltd**  
**Address:** P.O. Box 98867, Rivonia, 2151  
**Tel:** 011 361 1334  
**Fax:** 011 361 1381  
**Email:** Claire.Dendy@WSPGroup.co.za

*Please insert your personal details below:*

<b>Name:</b>				
<b>Organisation &amp; Designation:</b>				
<b>Address:</b>				
<b>Tel:</b>				
<b>Fax:</b>				
<b>E-mail:</b>				
<b>I would like my notifications by: (please tick the appropriate box)</b>	<b>Letter (mail)</b>	<b>E-mail</b>	<b>Fax</b>	<b>Telephone</b>

**In terms of GNR 543 (BA process regulations) please disclose below any direct business, financial, personal or other interest that you may have in the granting or rejection of the application for environmental authorisation:**

.....  
 .....

**Please list your interest in the project and comments below:**

.....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....

**Authorities Database**

Name	Surname	Company	Designation	Telephone No.	Fax No.	Cell No.	Email	Postal Address
Derrick	Makubelle	DEA	Pollution and Waste Management	(012) 310 3569			<a href="mailto:makubelle@environment.gov.za">makubelle@environment.gov.za</a>	
Mrs	Dikolomela	Department of Agriculture	Agriculturalist	(014) 5928272	(014) 5923428	08 44006845	<a href="mailto:adikolomela@nwpp.gov.za">adikolomela@nwpp.gov.za</a>	N/A
Mr F	Phumuzo	Department of Roads	Deputy Director	(014) 590 3271	(014) 590 3388	082 590 0029	<a href="mailto:dfuprez@rbcc.co.za">dfuprez@rbcc.co.za</a>	P O Box 16, Rustenburg, 0300
Mr F	J	Department of Mineral Resources	Deputy Director	(018) 464 1631		082 467 0886	<a href="mailto:phumuzo.nhavadzi@dmr.gov.za">phumuzo.nhavadzi@dmr.gov.za</a>	P O Box 4248, Rustenburg, 0300
Ndanganele	Mushome	Department of Mineral Resources	Disaster management	(014) 590 3333	(014) 597 3924		<a href="mailto:disaster@rustenburg.gov.za">disaster@rustenburg.gov.za</a>	
Livhweni	Lithlate	Department of Minerals and Energy	Enquiries	018 467 9830	018 467 9831		<a href="mailto:livhweni.lithlate@dmr.gov.za">livhweni.lithlate@dmr.gov.za</a>	Private Bag A1, Klerkskop, 2570, Cnr Margaret Prinsloo and Voortrekker St, Vall University of Technology Building, Aferidorp, 2571
Neo	Kpikong	Department of Mineral Resources	Enquiries	012 392 1411		082 827 6214	<a href="mailto:neo.kpikong@dmr.gov.za">neo.kpikong@dmr.gov.za</a>	
Jane	mulauzi	Land Claims Department	Land Claims Department	(012) 207 9911			<a href="mailto:jane.mulauzi@dmr.gov.za">jane.mulauzi@dmr.gov.za</a>	
Illian	Sivellane	Department of Water Affairs	Department of Water Affairs	(012) 392 1408			<a href="mailto:sivellane@dmr.gov.za">sivellane@dmr.gov.za</a>	
Phillip	Tiale	Department of Water Affairs	Department of Water Affairs	(012) 253 1026			<a href="mailto:tiale@dmr.gov.za">tiale@dmr.gov.za</a>	
Ms Sabenzile	Ntshangase	DWA	Water Pollution Control Officer	(012) 253 2761			<a href="mailto:ntshangase@dmr.gov.za">ntshangase@dmr.gov.za</a>	Private Bag X352, Hartbeespoort, 0167
Mr Justice	Mauluke	DWA	Deputy Director	(012) 392 1408			<a href="mailto:mauluke@dmr.gov.za">mauluke@dmr.gov.za</a>	Department of Water Affairs and Forestry, Private Bag X352, Hartbeespoort, 0216
Mr	Tlou	Leifragathe	Monnakoqa	(018) 299 6983	(014) 592 3553	073 851 5767		N/A
Mr Steven	Mukhola	North West READ	Assistant Director	014 597 3597		076 811 6609	<a href="mailto:smukhola@nwpp.gov.za">smukhola@nwpp.gov.za</a>	P O Box 6648, Rustenburg 0300
Mr Matlepong	North West READ	North West READ	North West READ	(014) 597 3597				
Mrs Delta	Mahibu	North West READ	Environmental Officer	(014) 597 3598	(014) 598 1153		<a href="mailto:kleoge@nwpp.gov.za">kleoge@nwpp.gov.za</a>	Mmabatho 2735
Mr Percy	Matlapeng	North West READ	Deputy Director: Air Quality	(014) 597 3597	(014) 592 3553		<a href="mailto:matlapeng@nwpp.gov.za">matlapeng@nwpp.gov.za</a>	X2038, Mmabatho 2735,
Mrs Molebale	Mchilisi	North West READ	Environmental officer control	(014) 597 3597			<a href="mailto:mchilisi@nwpp.gov.za">mchilisi@nwpp.gov.za</a>	Private Bag 82298, Rustenburg, 0300
Robert	Nemashi	North West READ	Case Officer				<a href="mailto:nemashi@nwpp.gov.za">nemashi@nwpp.gov.za</a>	
Mr Kagiso	Ramasika	North West READ	N/A					
Ms	Shosana	North West READ	Applications Clerk	018 389 5156			<a href="mailto:shosana@nwpp.gov.za">shosana@nwpp.gov.za</a>	P O Box 159, Bleskop, 0292
Mr Karabo	Peele	North West Department of Agriculture, Conservation & Environment	Chairman: Mining Commission	(014) 538 1047	(014) 538 0806		<a href="mailto:karabo@nwpp.gov.za">karabo@nwpp.gov.za</a>	Royal Bafokeng Nation, Civic Centre, P O Box 1, Phokeng, 0380
Mr Lawrence	Pete	North West Provincial Government	N/A					P O Box 464, Motesweti, 2870
Mkhali	Petele	EMS consultant (Royal Bafokeng Nation consultant)						
Mr	Petele	Royal Bafokeng Nation						
Mr	Stekue	Royal Bafokeng Nation						
Mr	Makgathi	Royal Bafokeng Nation						
Mr	Lenake	Royal Bafokeng Nation						
Mr Tshopo	Kalehlole	Rustenburg Local Municipality	Environmental Manager	(014) 590 3075	(014) 590 3070	083 961 0591	<a href="mailto:tenake@rustenburg.gov.za">tenake@rustenburg.gov.za</a>	
Ms	Mekope	Rustenburg Local Municipality	Environmental impact assessment co-ordinator	(014) 590 3185	(014) 590 3070	072 595 9460	<a href="mailto:mekope@rustenburg.gov.za">mekope@rustenburg.gov.za</a>	
Mr Steve	Bullcock	Anglo American Platinum	Head of Sustainable Development	(011) 373 6645	(011) 373 6645	083 455 2764	<a href="mailto:steve.bullcock@angloamerican.com">steve.bullcock@angloamerican.com</a>	Angb Platinum, P O Box 62179, Marshalltown, 2107
Ms	Selope	Rustenburg Local Municipality	Ward Committee Member					
Mr	Rapo	Rustenburg Local Municipality	Ward Committee Member	071 248 5246				
Mr	Dunge	Rustenburg Local Municipality	Ward Councilor	071 790 2285	(014) 590 3015		<a href="mailto:welcomeding@gmail.com">welcomeding@gmail.com</a>	
Ch D S	Mothamme	Rustenburg Local Municipality	Ward Councilor	072 600 4384				
Ms	Mxale	Rustenburg Local Municipality	Ward Committee	072 928 0507				
Mr	Sereng	Rustenburg Local Municipality	Ward 19 Councilor	073 240 6267			<a href="mailto:danielseneng@gmail.com">danielseneng@gmail.com</a>	
Mrs	Lesesane	Rustenburg Local Municipality	Ward Committee Member	073 466 6874				
Mr	Bothome	Rustenburg Local Municipality	Ward Councilor	(014) 590 3417			<a href="mailto:speaker@rustenburg.gov.za">speaker@rustenburg.gov.za</a>	
Mr	Mauwane	Rustenburg Local Municipality	Ward Councilor					
Ms Grace	Khurou	Rustenburg Local Municipality	Member	076 383 8271				
Mr Solomon	Rangale	Rustenburg Local Municipality	N/A	078 605 0687				
Ms	Pule	Rustenburg Local Municipality	Ward 7 Secretary	078 020 0844			<a href="mailto:estherpule@gmail.co.za">estherpule@gmail.co.za</a>	
Ms	Matlapeng	Rustenburg Local Municipality	Development Practitioner	(014) 590 248			<a href="mailto:matlapeng@nwpp.gov.za">matlapeng@nwpp.gov.za</a>	
Ms Angie	Norovi	Rustenburg Local Municipality	Councillor	082 210 2161				
Mr Tladi	Molele	Rustenburg Local Municipality	Chairperson	082 257 7805				
Mr Shadrack	Gwebu	Rustenburg Local Municipality	RPD Chairman	(014) 567 1415	(014) 567 1415	082 515 7457	<a href="mailto:shadrack@lanic.net">shadrack@lanic.net</a>	Ward 22, P O Box 32228, Paardekraai 03008
Ms Daphney	Mmitshiyane	Rustenburg Local Municipality	Community Member	(014) 597 0289	(014) 597 0289	082 530 3306		
Mr Thabo	Nondo	Rustenburg Local Municipality	Administrator	(014) 576 0364	(014) 576 0364	082 543 8970		
Ms Dipao	Seutake	Rustenburg Local Municipality	Councillor	(014) 590 3104	(014) 590 3411	082 552 2934		
Mr Rubeen	Sekano	Rustenburg Local Municipality	Community Member			082 677 3291		
Mr Roney	Monageng	Rustenburg Local Municipality	Deputy Headman Madibana	082 682 0476				
Mr Sooka	Malebana-Maishi	Rustenburg Local Municipality	Rustenburg Local Municipality	082 723 5150			<a href="mailto:rocky@crater.co.za">rocky@crater.co.za</a>	
Mr Soko	Lekoa	Rustenburg Local Municipality	Environmental Officer	082 765 3480			<a href="mailto:sleko@nwpp.gov.za">sleko@nwpp.gov.za</a>	
Mr Willie	Sekolai	Rustenburg Local Municipality	Environmental Manager	(014) 569 7056	(014) 569 7056	082 805 0388	<a href="mailto:suan.muller@mplats.co.za">suan.muller@mplats.co.za</a>	Impala Platinum Mines, P O Box 1050, Rustenburg, 0300
Ms Francisah	Maema	Rustenburg Local Municipality	Marketing Director	(014) 565 2843	(014) 565 2843	082 807 6087	<a href="mailto:davidmahube@mweb.co.za">davidmahube@mweb.co.za</a>	P O Box 189, Tlhabane, 0309
Ms Zochera	Motlodi	Rustenburg Local Municipality	Project Manager	(014) 565 4908	(014) 565 4709	082 809 3905	<a href="mailto:mw.nony@nwweb.co.za">mw.nony@nwweb.co.za</a>	Rustenburg Community Development Centre, P O Box 82238, Rustenburg, 0300
Ms Ethia	Wemod	Rustenburg Local Municipality	Community Member	(014) 576 0266				
Mr Waldie	Vatschenk	Rustenburg Local Municipality	Member	(014) 595 3635			<a href="mailto:mabau@elkomasa.net">mabau@elkomasa.net</a>	P O Box 236, Kronoli, 0350
Ms Agnes	Tsamal	Rustenburg Local Municipality	Reporter	(014) 592 8329	(014) 592 1669	082 885 5587	<a href="mailto:waldie@rustenburgherald.co.za">waldie@rustenburgherald.co.za</a>	Rustenburg Herald, North-West Province, P O Box 2043, Rustenburg, 0300
Mr	Tumane	Rustenburg Local Municipality	DPD Officer	(014) 590 3251	(014) 590 3003	082 974 4412		
Mr	Mputle	Rustenburg Local Municipality	Ward Councilor	(014) 590 3417			<a href="mailto:mputlejeny@gmail.com">mputlejeny@gmail.com</a>	
Ms	Coetzee	Rustenburg Local Municipality	Ward Councilor	(014) 590 3525			<a href="mailto:aseome@rustenburg.gov.za">aseome@rustenburg.gov.za</a>	
Mr	Raboy	Rustenburg Local Municipality	Ward 12 Councilor	(014) 590 3417	(014) 569 2724	0828089852	<a href="mailto:draboy@gmail.com">draboy@gmail.com</a>	
Mr	Motlodi	Rustenburg Local Municipality	Ward Councilor	(014) 590 3417			<a href="mailto:motlodi@yahoo.com">motlodi@yahoo.com</a>	
Mr R C	du Preez	Rustenburg Local Municipality	Local Economic Development	(014) 590 3054/30	(014) 590 3055	082 288 9073	<a href="mailto:kathleen@rustenburg.gov.za">kathleen@rustenburg.gov.za</a>	P O Box 16, Rustenburg, 0300
Mr Winston	Smart	Rustenburg Local Municipality	Electricity	(011) 799 3170	(014) 590 3430	083 252 8124	<a href="mailto:dupreez@rbcc.co.za">dupreez@rbcc.co.za</a>	Electrical, P O Box 16, Rustenburg, 0300
Mr Roel	le Roux	Rustenburg Local Municipality	Project Manager	(011) 798 4633	(011) 799 4811	083 283 0481	<a href="mailto:wsmart1@wvgnatomo.co.za">wsmart1@wvgnatomo.co.za</a>	PO Box 5100, Rivonia, 2128
Mr T D	Long	Rustenburg Local Municipality	Member	(012) 544 0121	(012) 544 0120	0833 289 9214	<a href="mailto:roell@magalieswater.co.za">roell@magalieswater.co.za</a>	Private Bag X82327, Rustenburg, 0300
Mr Stuart	Danganyitl	Rustenburg Local Municipality	Manager Engineering Services	(014) 598 1221			<a href="mailto:long@anglopl.com">long@anglopl.com</a>	P O Box 8208, Rustenburg, 0300
			Senior Project Manager	(011) 373 6866	(011) 373 5666	083 465 2882	<a href="mailto:stuart@ampbls.co.za">stuart@ampbls.co.za</a>	Angb Platinum, P O Box 62179, MARSHALLTOWN 2107

Ms Louise/ Mr Pemi Seko	Rustenburg Local Municipality	Community Members				083 507 5898 / 072 462 5405	P O Box 516, Rustenburg 0300
Ms Andy	Rustenburg Local Municipality	Mine Coordinator	(014) 590 3277	(014) 590 3955	083 524 2969	amarrathoko@rustenburg.gov.za	P O Box 16, Rustenburg 0300
Mr Robyn	Rustenburg Local Municipality	Engineering Manager	(011) 498 6099	(011) 498 6126	083 627 0511	robinw@rbv.co.za	Kopano Joint Venture, P O Box 62532, Marshalltown 2107
Ms Doris	Rustenburg Local Municipality	Member			083 756 3867		P O Box 105, Poshaneng 0311
Mr Tshopo	Rustenburg Local Municipality	Integrated Environmental Management	(014) 590 3075/31	(014) 590 3070	083 961 0591	itshaka@rustenburg.gov.za	P O Box 16, Rustenburg 0300
Ms Basabi	Rustenburg Local Municipality	N/A			083 968 2268		P O Box 16, Rustenburg 0300
Ms	Rustenburg Local Municipality	Coordinator Mining & Industrial	(014) 590 3379	(014) 590 3055	0835242969	amabalane@rustenburg.gov.za	N/A
Ms	Rustenburg Local Municipality	Ward Committee			0835452926		N/A
Ms	Rustenburg Local Municipality	Secretary Ward 8			0836343941		N/A
Mr	Rustenburg Local Municipality	Ward Committee			0838263955	setshelobopsi@gmail.com	N/A
Mr Sean	Rustenburg Local Municipality	Member	(014) 597 4636	(014) 597 4689	084 306 1543	info@matgalleswater.co.za	Private Bag X82327, Rustenburg 0300
Ms	Rustenburg Local Municipality	Ward Committee	0732603870		08442725338		N/A
Ms	Rustenburg Local Municipality	Ward Committee	0732603874		0843708649	willmsekammie@gmail.com	N/A
Ms Charmaine	Rustenburg Local Municipality	N/A	(014) 590 3414	(014) 590 3418	083 968 2268	civic@rbcc.co.za	P O Box 16, Rustenburg 0300
Ms Durhije	Rustenburg Local Municipality	Attorney, Regional Director	(011) 836 9831	(011) 836 8660	083 968 2268	durhije@rc.org.za	Legal Resource Centre, P O Box 9495, Johannesburg, 2000
Mr T J	Rustenburg Local Municipality	Librarian	(014) 590 3439	(014) 592 7566		tebapo@rustenburg.com	Rustenburg Local Municipality, P O Box 1485, Phokeng 0355
Mrs Maria	Rustenburg Local Municipality	N/A					Ward 20, 1877 Thabane Street, Extension 2, Botekong 0308
Mrs Agnes	Rustenburg Local Municipality	N/A					P O Box 30925, Botekong 0308
Ms Caroline	Rustenburg Local Municipality	N/A					P O Box 159, Bleskop, 0292
Ms Dineo	Rustenburg Local Municipality	Librarian	(014) 590 5276/7				Botekong Community Library, P O Box 16, Rustenburg 0300
Ms Jabulle	Rustenburg Local Municipality	Councillor	(014) 590 3111	(014) 592 0181	072 172 9982	roxmeslo@rbcc.co.za	Rustenburg Local Municipality, IDP Youth Woman and People with Disability, P O
Ms Julia	Rustenburg Local Municipality	Councillor	(014) 590 3417	(014) 590 3420	082 562 3177	jhkwanyane@yahoo.com	Box 16, RUSTENBURG, 0300
Ms Imrozealia	Rustenburg Local Municipality	Community Member			083 218 5081		P O Box 16, Rustenburg 0300
Ms Itumeleng	Rustenburg Local Municipality	Councillor	(014) 590 3417	(014) 590 3415	083 336 3954	itshaga@rbcc.co.za	(Ward 19), 163 Extension 1, Paardekraal 0302
Ms Joyce	Rustenburg Local Municipality	Member			083 928 0774		P O Box 31179, Botekong 0308
Ms Johanna Matyila	Rustenburg Local Municipality	N/A					10267 Extension 9, Sunrise Park, BOITEKONG 0308
Ms Ketumotse	Rustenburg Local Municipality, Roads	Provincial Manager: North West	(018) 381 2032/59	(018) 381 6953	072 425 4770	kmokgoppe@nw.sarara.org.za	South African Heritage Resource Agency (SAHRA), P O Box 3054, Mmabatho, 2735
Councillor Sheila	Rustenburg Local Municipality	Chief Whip	(014) 590 3014	014 590 3421	082 552 3047	2704@webmail.co.za	Chr. Nelson Mandela and Beyers Naude
Mr	TEBA	Consultant - TEBA	(011) 353 6058		0827369051	lazarusn@teba.co.za	N/A
Mr	DWA	E.o	012 253 1026		082 896 8222	benmudzanani@chwa.gov.za	
Mr Vusi	Rustenburg Platinum Mines		014 598 2360	086 246 7279	083 298 6280		Plbqj x 82077, Rustenburg, 0300
Mr Shimmy			018 299 6770				
Mr Steven	Dept of rural, enviro. & agric. development	Environmental Officer Control	018 389 5989				
Mr Prince	Bonjanala Platinum District Municipality	Environmental Manager	(014) 592 6321	(014) 592 4388	083 639 8750	prince@bojanala.gov.za	Bojanala Platinum District Municipality, P O Box 1985, Rustenburg, 0300



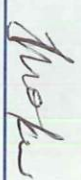

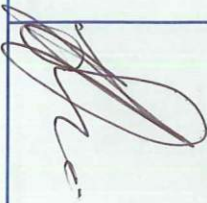














## ATTENDANCE REGISTER

Name	Company Name	Contact Details	Signature
Andize van Asswegen (X 15 BID)	RPM Hospital	Tel: 014-591 1141 Fax: 014 591 1161 Mobile: 083 236 9129 Email: avaswe@eangloplat.	
George Diale	RPM Hospital	Tel: 014 591 3000 Fax: 014 591 1161 Mobile: 07 355 33010 Email: George.Diale@angloamerica.com	
PREBA MOKWENA	RPM Hospital	Tel: 014 5911141 Fax: Mobile: 078 080 9066 Email: Freda.mokwena@angloamerica	
Freda SETSHEANE 	L.P.P.M LETLHAKULA	Tel: Fax: Mobile: 073 229 7827 Email: lppmprojects@gmail.com	

## ATTENDANCE REGISTER

Name	Company Name	Contact Details	Signature
MARINA BAKARENKO	PROTECTION SERVICES	Tel: 014598 1058 Fax: Mobile: Email:	
TENDANI MUFAMMI	Anglo	Tel: 014 763 9922 Fax: Mobile: 083 546 4348 Email: tendani.mufammi@angloamericain.com	
DAVID MAMAMAZA	G4S	Tel: Fax: Mobile: 0720859853 Email: david.mamamaza@gmail.com	
Mogosi Moko	G4S	Tel: Fax: Mobile: 0732082 125 Email: Mogosi.Moko@Gmail.com	

## ATTENDANCE REGISTER

Name	Company Name	Contact Details	Signature
Steven Motau	Rm Rec. Club	Tel: 014 591 1791 Fax: 014 593 1793 Mobile: 076 534 5749 Email: <a href="mailto:stevemotau@angloamerican.com">stevemotau@angloamerican.com</a>	
J.S. Roucas	RFB Public Libraries	Tel: 014 5902708 Fax: Mobile: Email:	
		Tel: Fax: Mobile: Email:	
		Tel: Fax: Mobile: Email:	

O'Brien, Jared

---

From: Sibiya, Brenda  
Sent: 10 July 2014 09:58 AM  
To: O'Brien, Jared  
Cc: Holme, Brent; Dendy, Claire  
Subject: Re: Stakeholder notification  
Attachments: 43849 - Klipfontein\_Notification\_Stakeholder\_Letter\_(Final).pdf

Tracking:	Recipient	Delivery	Read
	O'Brien, Jared	Delivered: 2014/07/10 09:58 AM	
	Holme, Brent	Delivered: 2014/07/10 09:58 AM	
	Dendy, Claire	Delivered: 2014/07/10 09:58 AM	Read: 2014/07/10 10:09 AM

Dear Stakeholder,

The attached notification letter refers to the Basic Assessment Process for the Decommissioning of the Klipfontein Concentrator and Associated Infrastructure at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section (NWDEDECT Reference Number: NWP/EIA/12/2014).

Should you have any comments or concerns please do not hesitate to contact the undersigned.

Regards.

Claire Dendy  
Assistant Consultant



**WSP, Environment & Energy, Africa**

WSP House, Bryanston Place, 199 Bryanston Drive, Bryanston, 2191, South Africa

Tel:

Mob:

Fax: +27 11 361 1301

[www.wspgroup.co.za](http://www.wspgroup.co.za)

WSP is one of the world's leading engineering and design consultancies. We provide services to transform the built environment and restore the natural environment. We have 15,000 employees, based in more than 300 offices, across 35 countries, on every continent.

This email and all contents are subject to the following disclaimer: <http://www.wspgroup.com/en/Welcome-to-WSP-Africa/WSP-Africa/Disclaimer>

WSP Environmental (Pty) Ltd, Registered Office: WSP House, Bryanston Place, 199 Bryanston Drive, Bryanston, 2191, South Africa Registered Number: 1999/008928/07 South Africa

## Email Distribution Record- Delivery Receipts

O'Brien, Jared

---

From: Microsoft Outlook  
Sent: 10 July 2014 09:58 AM  
Subject: Relayed: Re: Stakeholder notification

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

[dowdeswell@angloplat.com](mailto:dowdeswell@angloplat.com) (dowdeswell@angloplat.com)

[bbierman@angloplat.com](mailto:bbierman@angloplat.com) (bbierman@angloplat.com)

[cbadenhorst@angloplat.com](mailto:cbadenhorst@angloplat.com) (cbadenhorst@angloplat.com)

[tphumo@angloplat.com](mailto:tphumo@angloplat.com) (tphumo@angloplat.com)

[eheyman@angloplat.com](mailto:eheyman@angloplat.com) (eheyman@angloplat.com)

[amiles@angloplat.com](mailto:amiles@angloplat.com) (amiles@angloplat.com)

[kmogoera@angloplat.com](mailto:kmogoera@angloplat.com) (kmogoera@angloplat.com)

[mzitha@angloplat.com](mailto:mzitha@angloplat.com) (mzitha@angloplat.com)

[jrobinson@angloplat.com](mailto:jrobinson@angloplat.com) (jrobinson@angloplat.com)

[markr@angloplat.com](mailto:markr@angloplat.com) (markr@angloplat.com)

[bmurphy@angloplat.com](mailto:bmurphy@angloplat.com) (bmurphy@angloplat.com)

[sdejager01@angloplat.com](mailto:sdejager01@angloplat.com) (sdejager01@angloplat.com)

[Jacobus@ecoserv.com](mailto:Jacobus@ecoserv.com) (Jacobus@ecoserv.com)

[jselect@mweb.co.za](mailto:jselect@mweb.co.za) (jselect@mweb.co.za)

[mw.maria@mweb.co.za](mailto:mw.maria@mweb.co.za) (mw.maria@mweb.co.za)

[damariamatshaba@yahoo.com](mailto:damariamatshaba@yahoo.com) (damariamatshaba@yahoo.com)

[bruno@bafokeng.com](mailto:bruno@bafokeng.com) (bruno@bafokeng.com)

[ttyira@amplats.co.za](mailto:ttyira@amplats.co.za) (ttyira@amplats.co.za)

[george@bafokengsports.co.za](mailto:george@bafokengsports.co.za) (george@bafokengsports.co.za)

[pkhunou@amplats.co.za](mailto:pkhunou@amplats.co.za) (pkhunou@amplats.co.za)

[ishmaels@angloplat.com](mailto:ishmaels@angloplat.com) (ishmaels@angloplat.com)

[mmalebad@angloplat.com](mailto:mmalebad@angloplat.com) (mmalebad@angloplat.com)

[thabomakgale@bafokeng.com](mailto:thabomakgale@bafokeng.com) (thabomakgale@bafokeng.com)



[alalla@angloplat.com](mailto:alalla@angloplat.com) ([alalla@angloplat.com](mailto:alalla@angloplat.com))

[rgoris@angloplat.com](mailto:rgoris@angloplat.com) ([rgoris@angloplat.com](mailto:rgoris@angloplat.com))

[jpieters@rtbcc.co.za](mailto:jpieters@rtbcc.co.za) ([jpieters@rtbcc.co.za](mailto:jpieters@rtbcc.co.za))

[gramsay@aquarius.co.za](mailto:gramsay@aquarius.co.za) ([gramsay@aquarius.co.za](mailto:gramsay@aquarius.co.za))

[michael.moalosi@implats.co.za](mailto:michael.moalosi@implats.co.za) ([michael.moalosi@implats.co.za](mailto:michael.moalosi@implats.co.za))

[bashimanes@telkomsa.com](mailto:bashimanes@telkomsa.com) ([bashimanes@telkomsa.com](mailto:bashimanes@telkomsa.com))

[kgophs@yahoo.com](mailto:kgophs@yahoo.com) ([kgophs@yahoo.com](mailto:kgophs@yahoo.com))

[lerouxm@nwpg.gov.za](mailto:lerouxm@nwpg.gov.za) ([lerouxm@nwpg.gov.za](mailto:lerouxm@nwpg.gov.za))

[adriaan.stander@afrox.boc.com](mailto:adriaan.stander@afrox.boc.com) ([adriaan.stander@afrox.boc.com](mailto:adriaan.stander@afrox.boc.com))

[mphakoe@rtbcc.co.za](mailto:mphakoe@rtbcc.co.za) ([mphakoe@rtbcc.co.za](mailto:mphakoe@rtbcc.co.za))

[engoepe@num.org.za](mailto:engoepe@num.org.za) ([engoepe@num.org.za](mailto:engoepe@num.org.za))

[alanf@kelgran.co.za](mailto:alanf@kelgran.co.za) ([alanf@kelgran.co.za](mailto:alanf@kelgran.co.za))

[n.cornelius@xstrata.co.za](mailto:n.cornelius@xstrata.co.za) ([n.cornelius@xstrata.co.za](mailto:n.cornelius@xstrata.co.za))

[maos@gwisa.com](mailto:maos@gwisa.com) ([maos@gwisa.com](mailto:maos@gwisa.com))

[iti31424@mweb.co.za](mailto:iti31424@mweb.co.za) ([iti31424@mweb.co.za](mailto:iti31424@mweb.co.za))

[fran.graham@implats.co.za](mailto:fran.graham@implats.co.za) ([fran.graham@implats.co.za](mailto:fran.graham@implats.co.za))

[aventer@rtbcc.co.za](mailto:aventer@rtbcc.co.za) ([aventer@rtbcc.co.za](mailto:aventer@rtbcc.co.za))

[pviviers@angloplat.com](mailto:pviviers@angloplat.com) ([pviviers@angloplat.com](mailto:pviviers@angloplat.com))

[lkalayamotho@oldmutualpfa.com](mailto:lkalayamotho@oldmutualpfa.com) ([lkalayamotho@oldmutualpfa.com](mailto:lkalayamotho@oldmutualpfa.com))

[bernardm@angloplat.com](mailto:bernardm@angloplat.com) ([bernardm@angloplat.com](mailto:bernardm@angloplat.com))

[tmolete@rustenburg.gov.za](mailto:tmolete@rustenburg.gov.za) ([tmolete@rustenburg.gov.za](mailto:tmolete@rustenburg.gov.za))

[psoaisa@amplats.co.za](mailto:psoaisa@amplats.co.za) ([psoaisa@amplats.co.za](mailto:psoaisa@amplats.co.za))

[miguel.dossantos@tenovagroup.com](mailto:miguel.dossantos@tenovagroup.com) ([miguel.dossantos@tenovagroup.com](mailto:miguel.dossantos@tenovagroup.com))

[website: www.bafokeng.org.za](http://www.bafokeng.org.za) ([ernie@bafokeng.com](mailto:ernie@bafokeng.com))

[dhsetshedi@webmail.co.za](mailto:dhsetshedi@webmail.co.za) ([dhsetshedi@webmail.co.za](mailto:dhsetshedi@webmail.co.za))

[louise.smith@mweb.co.za](mailto:louise.smith@mweb.co.za) ([louise.smith@mweb.co.za](mailto:louise.smith@mweb.co.za))

[emfolwe@rustenburg.gov.za](mailto:emfolwe@rustenburg.gov.za) ([emfolwe@rustenburg.gov.za](mailto:emfolwe@rustenburg.gov.za))

[jgreyling@rustenburg.gov.za](mailto:jgreyling@rustenburg.gov.za) ([jgreyling@rustenburg.gov.za](mailto:jgreyling@rustenburg.gov.za))

[reotshepile@bafokeng.com](mailto:reotshepile@bafokeng.com) ([reotshepile@bafokeng.com](mailto:reotshepile@bafokeng.com))

[kagiso.senne@bafokeng.com](mailto:kagiso.senne@bafokeng.com) ([kagiso.senne@bafokeng.com](mailto:kagiso.senne@bafokeng.com))

[obdconstructors@hotmail.com](mailto:obdconstructors@hotmail.com) ([obdconstructors@hotmail.com](mailto:obdconstructors@hotmail.com))

[rabang4kb@yahoo.com](mailto:rabang4kb@yahoo.com) ([rabang4kb@yahoo.com](mailto:rabang4kb@yahoo.com))

[nishi.haripursad@angloamerican.com](mailto:nishi.haripursad@angloamerican.com) ([nishi.haripursad@angloamerican.com](mailto:nishi.haripursad@angloamerican.com))

[lesegomonare@yahoo.com](mailto:lesegomonare@yahoo.com) ([lesegomonare@yahoo.com](mailto:lesegomonare@yahoo.com))

[avasweol@angloplat.com](mailto:avasweol@angloplat.com) ([avasweol@angloplat.com](mailto:avasweol@angloplat.com))

[kennedypholose@gmail.com](mailto:kennedypholose@gmail.com) ([kennedypholose@gmail.com](mailto:kennedypholose@gmail.com))

[mschoe03@amplats.co.za](mailto:mschoe03@amplats.co.za) ([mschoe03@amplats.co.za](mailto:mschoe03@amplats.co.za))

[mlmolatlou@gmail.com](mailto:mlmolatlou@gmail.com) ([mlmolatlou@gmail.com](mailto:mlmolatlou@gmail.com))

[libby.redding@angloamerican.com](mailto:libby.redding@angloamerican.com) ([libby.redding@angloamerican.com](mailto:libby.redding@angloamerican.com))

[vinesh.dilsook@angloamerican.com](mailto:vinesh.dilsook@angloamerican.com) ([vinesh.dilsook@angloamerican.com](mailto:vinesh.dilsook@angloamerican.com))

[tbaloyi@nwpg.gov.za](mailto:tbaloyi@nwpg.gov.za) ([tbaloyi@nwpg.gov.za](mailto:tbaloyi@nwpg.gov.za))

[motaus@angloplat.com](mailto:motaus@angloplat.com) ([motaus@angloplat.com](mailto:motaus@angloplat.com))

[karaboemmanuel01@ovi.com](mailto:karaboemmanuel01@ovi.com) ([karaboemmanuel01@ovi.com](mailto:karaboemmanuel01@ovi.com))

[lady-segone@wemail.co.za](mailto:lady-segone@wemail.co.za) ([lady-segone@wemail.co.za](mailto:lady-segone@wemail.co.za))

[akinmont@twp.co.za](mailto:akinmont@twp.co.za) ([akinmont@twp.co.za](mailto:akinmont@twp.co.za))

[setshedi.tefo@yahoo.com](mailto:setshedi.tefo@yahoo.com) ([setshedi.tefo@yahoo.com](mailto:setshedi.tefo@yahoo.com))

[shuyzers@amplats.co.za](mailto:shuyzers@amplats.co.za) ([shuyzers@amplats.co.za](mailto:shuyzers@amplats.co.za))

[shuyzen@amplats.co.za](mailto:shuyzen@amplats.co.za) ([shuyzen@amplats.co.za](mailto:shuyzen@amplats.co.za))

[tsogomotswadi@gmail.com](mailto:tsogomotswadi@gmail.com) ([tsogomotswadi@gmail.com](mailto:tsogomotswadi@gmail.com))

[debrahlalele@yahoo.com](mailto:debrahlalele@yahoo.com) ([debrahlalele@yahoo.com](mailto:debrahlalele@yahoo.com))

[pietj.botha@angloamerican.com](mailto:pietj.botha@angloamerican.com) ([pietj.botha@angloamerican.com](mailto:pietj.botha@angloamerican.com))

[mfidikweprimary@gmail.com](mailto:mfidikweprimary@gmail.com) ([mfidikweprimary@gmail.com](mailto:mfidikweprimary@gmail.com))

[omphemetsevictoria@rockmail.com](mailto:omphemetsevictoria@rockmail.com) ([omphemetsevictoria@rockmail.com](mailto:omphemetsevictoria@rockmail.com))

[selvy.rathuloane@gmail.com](mailto:selvy.rathuloane@gmail.com) ([selvy.rathuloane@gmail.com](mailto:selvy.rathuloane@gmail.com))

[p.m.huma@gmail.com](mailto:p.m.huma@gmail.com) ([p.m.huma@gmail.com](mailto:p.m.huma@gmail.com))

[mitlhareng@rustenburg.gov.za](mailto:mitlhareng@rustenburg.gov.za) ([mitlhareng@rustenburg.gov.za](mailto:mitlhareng@rustenburg.gov.za))

[mitshilowa@angloplat.com](mailto:mitshilowa@angloplat.com) ([mitshilowa@angloplat.com](mailto:mitshilowa@angloplat.com))

[marapoo@rustenburg.gov.za](mailto:marapoo@rustenburg.gov.za) ([marapoo@rustenburg.gov.za](mailto:marapoo@rustenburg.gov.za))

[lizette@mandirk.co.za](mailto:lizette@mandirk.co.za) (lizette@mandirk.co.za)

[lekutame@nwpg.gov.za](mailto:lekutame@nwpg.gov.za) (lekutame@nwpg.gov.za)

[psebegoe@rtbcc.co.za](mailto:psebegoe@rtbcc.co.za) (psebegoe@rtbcc.co.za)

[mmashile@rtbcc.co.za](mailto:mmashile@rtbcc.co.za) (mmashile@rtbcc.co.za)

[mentor@nwpg.gov.za](mailto:mentor@nwpg.gov.za) (mentor@nwpg.gov.za)

[jcritch@randwater.co.za](mailto:jcritch@randwater.co.za) (jcritch@randwater.co.za)

[bstols@rtbcc.co.za](mailto:bstols@rtbcc.co.za) (bstols@rtbcc.co.za)

[khavenga@rustenburg.gov.za](mailto:khavenga@rustenburg.gov.za) (khavenga@rustenburg.gov.za)

[bleketi@rtbcc.co.za](mailto:bleketi@rtbcc.co.za) (bleketi@rtbcc.co.za)

[gking@xstrata.co.za](mailto:gking@xstrata.co.za) (gking@xstrata.co.za)

[dudu.ratshefola@angloamerican.com](mailto:dudu.ratshefola@angloamerican.com) (dudu.ratshefola@angloamerican.com)

[dpistorius@xstrata.co.za](mailto:dpistorius@xstrata.co.za) (dpistorius@xstrata.co.za)

[lioneln@fraseralexander.co.za](mailto:lioneln@fraseralexander.co.za) (lioneln@fraseralexander.co.za)

[shaunp@fraseralexander.co.za](mailto:shaunp@fraseralexander.co.za) (shaunp@fraseralexander.co.za)

[shawn.monyatsi@gmail.com](mailto:shawn.monyatsi@gmail.com) (shawn.monyatsi@gmail.com)

[iletsapa@angloamerican.co.za](mailto:iletsapa@angloamerican.co.za) (iletsapa@angloamerican.co.za)

[fredramontsheng@yahoo.com](mailto:fredramontsheng@yahoo.com) (fredramontsheng@yahoo.com)

[hashley@webmail.co.za](mailto:hashley@webmail.co.za) (hashley@webmail.co.za)

[gabriel.khunou@gmail.com](mailto:gabriel.khunou@gmail.com) (gabriel.khunou@gmail.com)

[sanbow@wesizwe.com](mailto:sanbow@wesizwe.com) (sanbow@wesizwe.com)

[RalkoaW@dwa.gov.za](mailto:RalkoaW@dwa.gov.za) (RalkoaW@dwa.gov.za)

[radebeh@bdfm.co.za](mailto:radebeh@bdfm.co.za) (radebeh@bdfm.co.za)

[pompieman@gmail.com](mailto:pompieman@gmail.com) (pompieman@gmail.com)

[ditiroon@gmail.com](mailto:ditiroon@gmail.com) (ditiroon@gmail.com)

[strike.magolego@dme.gov.za](mailto:strike.magolego@dme.gov.za) (strike.magolego@dme.gov.za)

[mw.notty@mweb.co.za](mailto:mw.notty@mweb.co.za) (mw.notty@mweb.co.za)

[davidmahube@mweb.co.za](mailto:davidmahube@mweb.co.za) (davidmahube@mweb.co.za)

[itumane@rustenburg.gov.za](mailto:itumane@rustenburg.gov.za) (itumane@rustenburg.gov.za)

[waldie@rustenburgherald.co.za](mailto:waldie@rustenburgherald.co.za) (waldie@rustenburgherald.co.za)

[mabeu@telkomsa.net](mailto:mabeu@telkomsa.net) ([mabeu@telkomsa.net](mailto:mabeu@telkomsa.net))

[slekota@nwpg.gov.za](mailto:slekota@nwpg.gov.za) ([slekota@nwpg.gov.za](mailto:slekota@nwpg.gov.za))

[dmatlapeng@nwpg.gov.za](mailto:dmatlapeng@nwpg.gov.za) ([dmatlapeng@nwpg.gov.za](mailto:dmatlapeng@nwpg.gov.za))

[estherpule@gmail.co.za](mailto:estherpule@gmail.co.za) ([estherpule@gmail.co.za](mailto:estherpule@gmail.co.za))

[speaker@rustenburg.gov.za](mailto:speaker@rustenburg.gov.za) ([speaker@rustenburg.gov.za](mailto:speaker@rustenburg.gov.za))

[rocky@crater.co.za](mailto:rocky@crater.co.za) ([rocky@crater.co.za](mailto:rocky@crater.co.za))

[eseduke@rtbcc.co.za](mailto:eseduke@rtbcc.co.za) ([eseduke@rtbcc.co.za](mailto:eseduke@rtbcc.co.za))

[shadrack@lantic.net](mailto:shadrack@lantic.net) ([shadrack@lantic.net](mailto:shadrack@lantic.net))

[amannathoko@rustenburg.gov.za](mailto:amannathoko@rustenburg.gov.za) ([amannathoko@rustenburg.gov.za](mailto:amannathoko@rustenburg.gov.za))

[stuardt@amplats.co.za](mailto:stuardt@amplats.co.za) ([stuardt@amplats.co.za](mailto:stuardt@amplats.co.za))

[tlong@angloplat.com](mailto:tlong@angloplat.com) ([tlong@angloplat.com](mailto:tlong@angloplat.com))

[setshedibogosi@gmail.com](mailto:setshedibogosi@gmail.com) ([setshedibogosi@gmail.com](mailto:setshedibogosi@gmail.com))

[amabalane@rustenburg.gov.za](mailto:amabalane@rustenburg.gov.za) ([amabalane@rustenburg.gov.za](mailto:amabalane@rustenburg.gov.za))

[robinw@rsv.co.za](mailto:robinw@rsv.co.za) ([robinw@rsv.co.za](mailto:robinw@rsv.co.za))

[roelfl@magalieswater.co.za](mailto:roelfl@magalieswater.co.za) ([roelfl@magalieswater.co.za](mailto:roelfl@magalieswater.co.za))

[djbaloyi@gmail.com](mailto:djbaloyi@gmail.com) ([djbaloyi@gmail.com](mailto:djbaloyi@gmail.com))

[aseome@rustenburg.gov.za](mailto:aseome@rustenburg.gov.za) ([aseome@rustenburg.gov.za](mailto:aseome@rustenburg.gov.za))

[mputle.jerry@gmail.com](mailto:mputle.jerry@gmail.com) ([mputle.jerry@gmail.com](mailto:mputle.jerry@gmail.com))

[wsmart1@twpmatomo.co.za](mailto:wsmart1@twpmatomo.co.za) ([wsmart1@twpmatomo.co.za](mailto:wsmart1@twpmatomo.co.za))

[kathleen@rustenburg.gov.za](mailto:kathleen@rustenburg.gov.za) ([kathleen@rustenburg.gov.za](mailto:kathleen@rustenburg.gov.za))

[motsoadi@yahoo.com](mailto:motsoadi@yahoo.com) ([motsoadi@yahoo.com](mailto:motsoadi@yahoo.com))

[danielseriteng@gmail.com](mailto:danielseriteng@gmail.com) ([danielseriteng@gmail.com](mailto:danielseriteng@gmail.com))

[mulaudzij2@dwa.gov.za](mailto:mulaudzij2@dwa.gov.za) ([mulaudzij2@dwa.gov.za](mailto:mulaudzij2@dwa.gov.za))

[irsebolai@ruraldevelopment.gov.za](mailto:irsebolai@ruraldevelopment.gov.za) ([irsebolai@ruraldevelopment.gov.za](mailto:irsebolai@ruraldevelopment.gov.za))

[Neo.Kgokong@dmr.gov.za](mailto:Neo.Kgokong@dmr.gov.za) ([Neo.Kgokong@dmr.gov.za](mailto:Neo.Kgokong@dmr.gov.za))

[ntshangases@dwaf.gov.za](mailto:ntshangases@dwaf.gov.za) ([ntshangases@dwaf.gov.za](mailto:ntshangases@dwaf.gov.za))

[tjaleK@dwa.gov.za](mailto:tjaleK@dwa.gov.za) ([tjaleK@dwa.gov.za](mailto:tjaleK@dwa.gov.za))

[Siwelanel@dwa.gov.za](mailto:Siwelanel@dwa.gov.za) ([Siwelanel@dwa.gov.za](mailto:Siwelanel@dwa.gov.za))

[livhuwani.tshilate@dmr.gov.za](mailto:livhuwani.tshilate@dmr.gov.za) ([livhuwani.tshilate@dmr.gov.za](mailto:livhuwani.tshilate@dmr.gov.za))

[ddupreez@rtbcc.co.za](mailto:ddupreez@rtbcc.co.za) (ddupreez@rtbcc.co.za)

[adikolomela@nwpg.gov.za](mailto:adikolomela@nwpg.gov.za) (adikolomela@nwpg.gov.za)

[DMakhubele@environment.gov.za](mailto:DMakhubele@environment.gov.za) (DMakhubele@environment.gov.za)

[ntanganedzoni.mushome@dmr.gov.za](mailto:ntanganedzoni.mushome@dmr.gov.za) (ntanganedzoni.mushome@dmr.gov.za)

[disaster@rustenburg.gov.za](mailto:disaster@rustenburg.gov.za) (disaster@rustenburg.gov.za)

[phumudzo.nethwadzi@dme.gov.za](mailto:phumudzo.nethwadzi@dme.gov.za) (phumudzo.nethwadzi@dme.gov.za)

[munman@rustenburg.gov.za](mailto:munman@rustenburg.gov.za) (munman@rustenburg.gov.za)

[tlenake@rustenburg.gov.za](mailto:tlenake@rustenburg.gov.za) (tlenake@rustenburg.gov.za)

[gmoopelwa@rustenburg.gov.za](mailto:gmoopelwa@rustenburg.gov.za) (gmoopelwa@rustenburg.gov.za)

[welcomeding@gmail.com](mailto:welcomeding@gmail.com) (welcomeding@gmail.com)

[stephen.bullock@angloamerican.com](mailto:stephen.bullock@angloamerican.com) (stephen.bullock@angloamerican.com)

[kmekgoe@rustenburg.gov.za](mailto:kmekgoe@rustenburg.gov.za) (kmekgoe@rustenburg.gov.za)

[khalid@eims.co.za](mailto:khalid@eims.co.za) (khalid@eims.co.za)

[klecoge@nwpg.gov.za](mailto:klecoge@nwpg.gov.za) (klecoge@nwpg.gov.za)

[smukhola@nwpg.gov.za](mailto:smukhola@nwpg.gov.za) (smukhola@nwpg.gov.za)

[malulekej@dwa.gov.za](mailto:malulekej@dwa.gov.za) (malulekej@dwa.gov.za)

[rnemanashi@nwpg.gov.za](mailto:rnemanashi@nwpg.gov.za) (rnemanashi@nwpg.gov.za)

[mmohlalisi@nwpg.gov.za](mailto:mmohlalisi@nwpg.gov.za) (mmohlalisi@nwpg.gov.za)

[pmatlapeng@nwpg.gov.za](mailto:pmatlapeng@nwpg.gov.za) (pmatlapeng@nwpg.gov.za)

[info@magalieswater.co.za](mailto:info@magalieswater.co.za) (info@magalieswater.co.za)

[thehartleys@intekom.co.za](mailto:thehartleys@intekom.co.za) (thehartleys@intekom.co.za)

[andia@mandirk.co.za](mailto:andia@mandirk.co.za) (andia@mandirk.co.za)

[billyn30@hotmail.com](mailto:billyn30@hotmail.com) (billyn30@hotmail.com)

[malakia@rustenburg.gov.za](mailto:malakia@rustenburg.gov.za) (malakia@rustenburg.gov.za)

[Aaron.kharivhe@dme.gov.za](mailto:Aaron.kharivhe@dme.gov.za) (Aaron.kharivhe@dme.gov.za)

[plouw@rustenburg.gov.za](mailto:plouw@rustenburg.gov.za) (plouw@rustenburg.gov.za)

[tsogobuilding@webmail.co.za](mailto:tsogobuilding@webmail.co.za) (tsogobuilding@webmail.co.za)

[patkhu@webmail.co.za](mailto:patkhu@webmail.co.za) (patkhu@webmail.co.za)

[jkboase@yahoo.com](mailto:jkboase@yahoo.com) (jkboase@yahoo.com)

[fikeinvestm@telkomsa.net](mailto:fikeinvestm@telkomsa.net) (fikeinvestm@telkomsa.net)  
[james.baloyi@gmail.com](mailto:james.baloyi@gmail.com) (james.baloyi@gmail.com)  
[petlelejb@yahoo.com](mailto:petlelejb@yahoo.com) (petlelejb@yahoo.com)  
[dialehb@absamail.co.za](mailto:dialehb@absamail.co.za) (dialehb@absamail.co.za)  
[freidrichs@uwp.co.za](mailto:freidrichs@uwp.co.za) (freidrichs@uwp.co.za)  
[jmarais@deat.gov.za](mailto:jmarais@deat.gov.za) (jmarais@deat.gov.za)  
[patking@bafokeng.com](mailto:patking@bafokeng.com) (patking@bafokeng.com)  
[morris.nte@implats.co.za](mailto:morris.nte@implats.co.za) (morris.nte@implats.co.za)  
[hvdwalt@rustenburg.gov.za](mailto:hvdwalt@rustenburg.gov.za) (hvdwalt@rustenburg.gov.za)  
[regomolefe@mweb.co.za](mailto:regomolefe@mweb.co.za) (regomolefe@mweb.co.za)  
[hein.jantzen@angloplat.com](mailto:hein.jantzen@angloplat.com) (hein.jantzen@angloplat.com)  
[mitumeleng@rustenburg.gov.za](mailto:mitumeleng@rustenburg.gov.za) (mitumeleng@rustenburg.gov.za)  
[kkhunou@rtbcc.co.za](mailto:kkhunou@rtbcc.co.za) (kkhunou@rtbcc.co.za)  
[olgachauke@webmail.co.za](mailto:olgachauke@webmail.co.za) (olgachauke@webmail.co.za)  
[herbertm@medialab.co.za](mailto:herbertm@medialab.co.za) (herbertm@medialab.co.za)  
[juliuscc@absamail.co.za](mailto:juliuscc@absamail.co.za) (juliuscc@absamail.co.za)  
[shuma@rtbcc.co.za](mailto:shuma@rtbcc.co.za) (shuma@rtbcc.co.za)  
[glongomo@xstrata.co.za](mailto:glongomo@xstrata.co.za) (glongomo@xstrata.co.za)  
[2704@webmail.co.za](mailto:2704@webmail.co.za) (2704@webmail.co.za)  
[kmokgophe@nw.shara.org.za](mailto:kmokgophe@nw.shara.org.za) (kmokgophe@nw.shara.org.za)  
[ttsagae@rtbcc.co.za](mailto:ttsagae@rtbcc.co.za) (ttsagae@rtbcc.co.za)  
[moreareprince@gmail.com](mailto:moreareprince@gmail.com) (moreareprince@gmail.com)  
[nemutendanit@dwa.gov.za](mailto:nemutendanit@dwa.gov.za) (nemutendanit@dwa.gov.za)  
[lazarusn@teba.co.za](mailto:lazarusn@teba.co.za) (lazarusn@teba.co.za)  
[jdnkwanyana@yahoo.com](mailto:jdnkwanyana@yahoo.com) (jdnkwanyana@yahoo.com)  
[durkje@Irc.org.za](mailto:durkje@Irc.org.za) (durkje@Irc.org.za)  
[civic@rtbcc.co.za](mailto:civic@rtbcc.co.za) (civic@rtbcc.co.za)  
[willemsekannie@gmail.com](mailto:willemsekannie@gmail.com) (willemsekannie@gmail.com)  
[jnxumalo@rtbcc.co.za](mailto:jnxumalo@rtbcc.co.za) (jnxumalo@rtbcc.co.za)

[tshepo@bafokeng.com](mailto:tshepo@bafokeng.com) ([tshepo@bafokeng.com](mailto:tshepo@bafokeng.com))

[kkopong@rustenburg.gov.za](mailto:kkopong@rustenburg.gov.za) ([kkopong@rustenburg.gov.za](mailto:kkopong@rustenburg.gov.za))

[jbpetlele@gmail.com](mailto:jbpetlele@gmail.com) ([jbpetlele@gmail.com](mailto:jbpetlele@gmail.com))

[mbokodo2003@yahoo.com](mailto:mbokodo2003@yahoo.com) ([mbokodo2003@yahoo.com](mailto:mbokodo2003@yahoo.com))

[mnape@xstrata.co.za](mailto:mnape@xstrata.co.za) ([mnape@xstrata.co.za](mailto:mnape@xstrata.co.za))

[ssematu@rtbcc.co.za](mailto:ssematu@rtbcc.co.za) ([ssematu@rtbcc.co.za](mailto:ssematu@rtbcc.co.za))

[teb83moverscratex@webmail.co.za](mailto:teb83moverscratex@webmail.co.za) ([teb83moverscratex@webmail.co.za](mailto:teb83moverscratex@webmail.co.za))

[orestnbeduwa@yahoo.com](mailto:orestnbeduwa@yahoo.com) ([orestnbeduwa@yahoo.com](mailto:orestnbeduwa@yahoo.com))

[fire@rtbcc.co.za](mailto:fire@rtbcc.co.za) ([fire@rtbcc.co.za](mailto:fire@rtbcc.co.za))

[bdvillie@amplats.co.za](mailto:bdvillie@amplats.co.za) ([bdvillie@amplats.co.za](mailto:bdvillie@amplats.co.za))

[malanp@angloplat.co.za](mailto:malanp@angloplat.co.za) ([malanp@angloplat.co.za](mailto:malanp@angloplat.co.za))

[princem@bojanala.gov.za](mailto:princem@bojanala.gov.za) ([princem@bojanala.gov.za](mailto:princem@bojanala.gov.za))

[editor@lesedingmedia.co.za](mailto:editor@lesedingmedia.co.za) ([editor@lesedingmedia.co.za](mailto:editor@lesedingmedia.co.za))

[aerasmus@angloplat.com](mailto:aerasmus@angloplat.com) ([aerasmus@angloplat.com](mailto:aerasmus@angloplat.com))

[ABritz@Angloplat.com](mailto:ABritz@Angloplat.com) ([ABritz@Angloplat.com](mailto:ABritz@Angloplat.com))

Subject: Re: Stakeholder notification

O'Brien, Jared

---

From: MAILER-DAEMON@yahoo.com  
Sent: 10 July 2014 09:59 AM  
To: Sibiya, Brenda  
Subject: Delivery failure

Message from yahoo.com.  
Unable to deliver message to the following address(es).

<[damariamatshaba@yahoo.com](mailto:damariamatshaba@yahoo.com)>:

Sorry your message to [damariamatshaba@yahoo.com](mailto:damariamatshaba@yahoo.com) cannot be delivered. This account has been disabled or discontinued [#102].

<[debrahlalele@yahoo.com](mailto:debrahlalele@yahoo.com)>:

Sorry your message to [debrahlalele@yahoo.com](mailto:debrahlalele@yahoo.com) cannot be delivered. This account has been disabled or discontinued [#102].

<[fredramontsheng@yahoo.com](mailto:fredramontsheng@yahoo.com)>:

This user doesn't have a yahoo.com account ([fredramontsheng@yahoo.com](mailto:fredramontsheng@yahoo.com)) [0]

<[jdnkwanyana@yahoo.com](mailto:jdnkwanyana@yahoo.com)>:

This user doesn't have a yahoo.com account ([jdnkwanyana@yahoo.com](mailto:jdnkwanyana@yahoo.com)) [0]

<[jkboase@yahoo.com](mailto:jkboase@yahoo.com)>:

This user doesn't have a yahoo.com account ([jkboase@yahoo.com](mailto:jkboase@yahoo.com)) [0]

<[orestnbeduwa@yahoo.com](mailto:orestnbeduwa@yahoo.com)>:

This user doesn't have a yahoo.com account ([orestnbeduwa@yahoo.com](mailto:orestnbeduwa@yahoo.com)) [0]

<[petlelejb@yahoo.com](mailto:petlelejb@yahoo.com)>:

This user doesn't have a yahoo.com account ([petlelejb@yahoo.com](mailto:petlelejb@yahoo.com)) [0]

<[rabang4kb@yahoo.com](mailto:rabang4kb@yahoo.com)>:

This user doesn't have a yahoo.com account ([rabang4kb@yahoo.com](mailto:rabang4kb@yahoo.com)) [0]

--- Original message follows.

The original message is over 5K. Message truncated.

Return-Path: <[Brenda.Sibiya@wspgroup.co.za](mailto:Brenda.Sibiya@wspgroup.co.za)>

Received-SPF: none (domain of wspgroup.co.za does not designate permitted sender hosts)

X-YMailISG: r9CuzwEWLDvgs0nzm1TFffQoqbFkdZ9qrCzrvdl2FPS4QgWh  
VP9jzxdpw2TV.wmpzOLRps9OWk9Jg.xtN2RnG9Ndp3emitsuDkpAiUS9I\_M  
h1ZcFlbwW5xwwFBbczqOOQs6TY6dgXzxR0JnFCGbpzghpsljXSmgM3xey02  
VIQV5vIFYEo9SjgVsl5tfPvPJLnvuu5DqxxvqGReNz6wB8r\_sWoDrRPjGsGU  
ebj9L2GfylzaCpGVVj6qPpITRBUPNr6.RDziASGTcP3MNEIQVWOGzDqdU9G  
9ETLj4RuQBT0GiP6DWHOcEPyGI0kfbdv1J45CxnMAyZS.742zRnG8XWekrO4  
26cUy50A\_rktBblyGf9VbreixqCXa1rFg7r4vtaEvSGsYqo\_kkoc7lUpB3lj  
mFcxIH.GqsOyRPEQmYBbAy5Syu3CTqv.yhJ3vaM6iZbbHf7A6JrhKhkxF8LM  
3w\_zhGlg\_LlLbvRZNQRs7SsHxt2bOUGKLM04p6c7s7BT0HREkEDsAfOidHC  
0Vc250n7vOyOOBfy583GLSn1ODHRLnkmtOCIWRg83u4l1.wSZ4Kz7.lpsk  
QOABGGnW.3.VG5mPr7FDWJnPo4wp\_mmC7hmCL18ZMwMy7WyNmTPvNqtG.t2z  
W7HVBG6HOV0mqFr8z1Qc9jJ41YD8jRj\_.qrbsv\_MycMMJNXi4VP.Kb6hBF8



5jzOvkM1Wiyf.6FOlq4iAip.OPGxKWZPUYj79Qc6E1DL7Te9RnTVDQdKo5iG  
4hLhyuB06u8vKrZi6xgEyui4TysoR0s\_82Y4E6jK.xkVihO5.mbK4xPyk61g  
d056q8K5.aHOFeea9J.oxAnPYKz2.a6ZJJiReY7j62S.hIMcUsUge\_NK3Jb  
jQI4QCqR4Lz0nIXcLkWXV8s6yMsq.q6e5uVR30TyvL8CI6ojr92oAYJJoI\_N  
3TpPWcwhV88cRpT0Ij26.rKdVLzmQv6wCPhtHSGGsRWjMIUV5KGRiq7y2ghv  
npcQT9sy6512aablc9tPrS8jdz5SpvlvY\_buxI5qGUJE8KSWbxQpemRopvpC  
O4yRAuaQxE6fuwHzq9SVOYhJAKnWjCD9f3z9pJ6LZSErG1\_5pcmXdawuXGj.  
K38YZzpMPMY4U2\_uMsBhJ9mBL36IFME9uDGluMMPdgmwCpswG8kvLipnU4m  
bnKU6luxWSZ3WQH4tflmXj5HzD\_37C47q\_hhSJ7Nw2\_aP3tPBqVv2qDnvt  
7AjjTqDvZNRSC3NHT4TBikFGS6Ddb4PvFYuCdu7mhTJhsrPe6ruEyz0L9Q7H  
CCEBORGL0\_PNtQwCHjeoeQOio4F239KfQX50i\_noq3gZ6gzNzaVp0k\_8CfC  
j5XEOr2geNM5INqT4Z7mOnAXzv8nOSY6K\_mv1kut.cvlb0JYNkMHB7SI1Dxx  
46F71KAinOqIrlbPlc\_fjnwOxcS5ms0.v1DMJQ1.V7d6CnVoes3duTWGH1KT  
IzlpAEUOlU9RI7.I.q4mKIZRPA212zdVEfcfg7W5h6wgbPZioLF7TWfsdFrb  
FUFiqGtcYtZzha3K5duSxtngTz6L54dPc781XCruYw9nqZ5i2WNp7MBPUc7o  
d1LeJrX3ht.Q.uM1tTtXDvlrqbNdwzQh

X-Originating-IP: [196.14.170.133]

Authentication-Results: mta1368.mail.bf1.yahoo.com from=WSPGroup.co.za; domainkeys=neutral (no sig);  
from=WSPGroup.co.za; dkim=neutral (no sig)

Received: from 127.0.0.1 (EHLO mail1.bemta18.message-labs.com) (196.14.170.133)

by mta1368.mail.bf1.yahoo.com with SMTPS; Thu, 10 Jul 2014 07:58:38 +0000

Return-Path: <[Brenda.Sibiya@wspgroup.co.za](mailto:Brenda.Sibiya@wspgroup.co.za)>

Received: from [196.14.170.99:8815] by server-5.bemta-18.message-labs.com id CA/FE-21449-0A74EB35; Thu, 10 Jul  
2014 07:58:24 +0000

X-Env-Sender: [Brenda.Sibiya@WSPGroup.co.za](mailto:Brenda.Sibiya@WSPGroup.co.za)

X-Msg-Ref: server-2.tower-213.message-labs.com!1404979099!6891495!1

X-Originating-IP: [196.38.231.62]

X-StarScan-Received:

X-StarScan-Version: 6.11.3; banners=-,-,-

X-VirusChecked: C

\*\*\* MESSAGE TRUNCATED \*\*\*

Date/Time: 11. Jul. 2014 8:05

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
4853 Memory TX	00145981153	P. 13	OK	
	00145903006		OK	
	00145671591		E-2) 2) 2) 2) 2)	P. 1-13
	00145671415		E-2) 2) 2) 2) 2)	P. 1-13
	00145970189		E-2) 2) 2) 2) 2)	P. 1-13
	00145780364		E-2) 2) 2) 2) 2)	P. 1-13
	00145974689		OK	
	00145697056		OK	
	00145652843		E-3) 3) 3) 3) 3)	P. 1-13
	00145654709		E-2) 2) 2) 2) 2)	P. 1-13

Reason for error  
 mmm. 1) Hang up or line fail  
 . 2) No answer  
 . 3) No answer  
 . 4) Exceeded max. E-mail size  
 E. 2) Busy  
 E. 4) No facsimile connection

WSP Reference no: 43849  
 NWDEECT Reference no: NWP/EA/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
 WSP Main  
 1000000000  
 1000000000  
 1000000000  
 1000000000  
 1000000000  
 1000000000  
 1000000000  
 1000000000

Date/Time: 11. Jul. 2014 8:07

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
4854 Memory TX	00145921869	P. 13	OK	
	00145903540		OK	
	00145697274		OK	
	00114986126		E-2) 2) 2) 2) 2)	P. 1-13
	00145903430		OK	
	00117894811		E-2) 2) 2) 2) 2)	P. 1-13
	00125440120		E-2) 2) 2) 2) 2)	P. 1-13
	00145974635		OK	
	00113735666		OK	
	00862467279		OK	
	00114930600		OK	
	00183816953		E-2) 2) 2) 2) 2)	P. 1-13

Reason for error

- E. 1) Hang up or line fail
- E. 3) No answer
- E. 5) Exceeded max. E-mail size

- E. 2) Busy
- E. 4) No facsimile connection

WSP Reference no: 43949  
NWDEECT Reference no: NWP/EJA/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2009, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated, and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 60 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
WSP House  
Spreetour Street  
2014 Republic Square  
Klerksdorp, 0851  
Tel: +27 (0)21 462 2100  
Fax: +27 (0)21 462 2101  
info@wspenvironmental.co.za  
www.wspenvironmental.co.za



Date/Time: 10. Jul. 2014 14:41

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
4849	Memory TX	00145903070	P. 13	OK	
		00183873144		E-2) 2) 2) 2) 2)	P. 1-13
		00145903003		OK	
		00112805505		OK	
		00112686885		E-2) 2) 2) 2) 2)	P. 1-13
		00145972241		OK	
		00145903388		OK	
		00867602441		OK	
		00865556593		OK	
		00145911161		OK	

Reason for error  
 E. 1) Hang up or line fail  
 E. 2) Busy  
 E. 3) No answer  
 E. 4) No facsimile connection  
 E. 5) Exceeded max. E-mail size

WSP Reference no: 43848  
 NWDETECT Reference no: NWP/EIA/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
 WSP House  
 57 Theobalds Road  
 Pretoria, 0001  
 Tel: +27 (0)11 450 1000  
 Fax: +27 (0)11 450 1001  
 Email: info@wspenviro.com  
 Website: www.wspenviro.com

Date/Time: 10. Jul. 2014 14:18

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
4843	Memory TX	00119691642	P. 13	E-3) 3) 3) 3) 3)	P. 1-13
		00113735530		OK	
		00145661326		E-3) 3) 3) 3) 3)	P. 1-13
		00866115996		OK	
		00114636176		OK	
		00145661297		E-2) 2) 2) 2) 2)	P. 1-13
		00866181455		OK	
		00145903497		OK	
		00145965390		OK	
		00145697033		OK	

Reason for error

- E. 1) Hang up or line fail
- E. 2) Busy
- E. 3) No answer
- E. 4) No facsimile connection
- E. 5) Exceeded max. E-mail size

WSP Reference no: 43849  
NWDETECT Reference no: NWP/EIA/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES - RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 303 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
WSP House  
Brynerton Road  
144 Rustenburg  
Rustenburg, NW  
Tel: +27 (0) 56 531 530  
Fax: +27 (0) 56 531 531  
http://www.wspenvironmental.co.za  
Reg No: 2013/0000070

Date/Time: 10. Jul. 2014 14:08

File No. Mode	Destination	Pg(s)	Result	Page Not Sent
4840 Memory TX	00145914810	P. 13	OK	
	00145914267		E-2) 2) 2) 2) 2)	P. 1-13
	00145982230		E-2) 2) 2) 2) 2)	P. 1-13
	00145380813		E-2) 2) 2) 2) 2)	P. 1-13
	00145903015		OK	
	00145913924		E-2) 2) 2) 2) 2)	P. 1-13
	00866047477		OK	
	00866649511		OK	
	00145981850		OK	
	00145903418		OK	

Reason for error

- E. 1) Hang up or line fail
- E. 2) Busy
- E. 3) No answer
- E. 4) No facsimile connection
- E. 5) Exceeded max. E-mail size

WSP Reference no: 43849  
NWDETECT Reference no: NWP/EIA/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1991 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JG within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been completed and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
WSP House  
Kleinfontein  
127 Klerksfontein  
WSP House, 127  
Tel: +27(0)1823 100 200  
Fax: +27(0)1823 100 100  
WSP Environmental (Pty) Ltd  
P.O. Box 10000  
127 Klerksfontein

Date/Time: 10. Jul. 2014 14:31

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
4846	Memory TX	00865124158	P. 13	OK	
		00113735249		OK	
		00145903415		E-2) 2) 2) 2) 2)	P. 1-13
		00145679273		E-3) 3) 3) 3) 3)	P. 1-13
		00145903055		OK	
		00113735756		OK	
		00145914455		OK	
		00113735862		OK	
		00145982191		E-3) 3) 3) 3) 3)	P. 1-13
		00145679190		OK	

Reason for error

- E. 1) Hang up or line fail
- E. 2) Busy
- E. 3) No answer
- E. 4) No facsimile connection
- E. 5) Exceeded max. E-mail size

WSP Reference no: 43949  
NWDETECT Reference no: NWP/EIA/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MNES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 J2 within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (v): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (vi): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
107 Bona  
Kyalama Road  
M1 Kyalama Road  
Kyalama, 0318  
Tel: +27(0)18 363 1186  
Fax: +27(0)18 363 1186  
WSP@wsp.co.za  
Reg. no. 2009/0000000

WSP Env. Pty.  
0183631186





Date/Time: 10. Jul. 2014 14:44

File No.	Mode	Destination	Pg (s)	Result	Page Not Sent
4850	Memory TX	00145911793	P. 4	OK	
		00862974971		OK	
		00145914567		OK	
		00145924398		OK	
		00145923428		E-3) 3) 3) 3) 3)	P. 1-4
		00118342379		E-1) 1) 1) 1) 1)	P. 1-4
		00184879831		E-3) 3) 3) 3) 3)	P. 1-4
		00122531026		E-3) 3) 3) 3) 3)	P. 1-4
		00122532761		OK	
		00145923553		OK	

Reason for error

- E. 1) Hang up or line fail
- E. 2) Busy
- E. 3) No answer
- E. 4) No facsimile connection
- E. 5) Exceeded max. E-mail size

WSP Reference no: 43849  
NWDETECT Reference no: NWP/EIA/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 J2 within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
 5010 Bona  
 Republic of South Africa  
 1116 Klerksfontein  
 Republic, 2324  
 Tel: +27 (0)1826 2324  
 Fax: +27 (0)1826 2324  
 Email: info@wspenviro.com  
 Web: www.wspenviro.com  
 Reg No: 2010/0156207

Date/Time: 10. Jul. 2014 14:11

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
4841 Memory TX	00145906002	P. 13	E-3) 3) 3) 3) 3)	P. 1-13
	00145928861		OK	
	00145971030		E-3) 3) 3) 3) 3)	P. 1-13
	00145971030		E-3) 3) 3) 3) 3)	P. 1-13
	00145373960		OK	
	00118368680		OK	
	00145914979		OK	
	00145664418		E-2) 2) 2) 2) 2)	P. 1-13
	00145653921		E-2) 2) 2) 2) 2)	P. 1-13
	00145981552		E-3) 3) 3) 3) 3)	P. 1-13

Reason for error

- E. 1) Hang up or line fail
- E. 2) Busy
- E. 3) No answer
- E. 4) No facsimile connection
- E. 5) Exceeded max. E-mail size

WSP Reference no: 43848  
NWDEECT Reference no: NW/EN/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
WSP House  
Kopfontein Road  
130 Kopfontein Mine  
Kopfontein, 2021  
Tel: +27 (0) 56 241 2000  
Fax: +27 (0) 56 241 2001  
http://www.wspenvironmental.co.za  
Reg No: 2012/0000000/07

Date/Time: 10. Jul. 2014 14:22

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
4844 Memory TX	00145903047	P. 13	OK	
	00122523565		E-2) 2) 2) 2) 2)	P. 1-13
	00145965061		E-2) 2) 2) 2) 2)	P. 1-13
	00145967056		E-2) 2) 2) 2) 2)	P. 1-13
	00145923400		E-3) 3) 3) 3) 3)	P. 1-13
	00145363124		E-2) 2) 2) 2) 2)	P. 1-13
	00145903411		OK	
	00145699535		OK	
	00145364020		E-2) 2) 2) 2) 2)	P. 1-13
	00145966130		OK	

Reason for error

- E. 1) Hang up or line fail
- E. 2) Busy
- E. 3) No answer
- E. 4) No facsimile connection
- E. 5) Exceeded max. E-mail size

WSP Reference no: 43849  
NWDETECT Reference no: NWP/EI/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1989) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (k): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
1011 Route  
Blydenburg  
Blydenburg  
Blydenburg, 0301  
Tel: 018 261 1111  
Fax: 018 261 1111  
Email: info@wspenviro.com  
WSP Environmental (Pty) Ltd  
1011 Route  
Blydenburg



Date/Time: 10. Jul. 2014 14:38

File No.	Mode	Destination	Pg (s)	Result	Page Not Sent
4848	Memory TX	00113735894	P. 13	OK	
		00145664368		E-2) 2) 2) 2) 2)	P. 1-13
		00145661296		E-3) 2) 3) 3) 3)	P. 1-13
		00145363652		E-3) 3) 3) 3) 3)	P. 1-13
		00145903420		E-2) 2) 2) 2) 2)	P. 1-13
		00145380806		E-2) 2) 2) 2) 2)	P. 1-13
		00145920181		E-3) 3) 3) 3) 3)	P. 1-13
		00116820634		OK	
		00145979261		E-3) 3) 3) 3) 3)	P. 1-13
		00145970296		OK	

Reason for error

- E. 1) Hang up or line fail
- E. 3) No answer
- E. 5) Exceeded max. E-mail size

- E. 2) Busy
- E. 4) No facsimile connection

WSP Reference no: 43849  
NWDETECT Reference no: NWP/EA/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1989) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
WSP House  
Springfontein Road  
Pretoria 0001  
Tel: +27 (0) 11 711 1100  
Fax: +27 (0) 11 711 1101  
Reg No: 2008/0000000/06

WSP Group  
011 711 1100

Date/Time: 10. Jul. 2014 14:14

File No.	Mode	Destination	Pg (s)	Result	Page Not Sent
4842	Memory TX	00145981554	P. 13	E-3) 3) 3) 3) 3)	P. 1-13
		00145922910		E-3) 3) 3) 3) 3)	P. 1-13
		00145926298		E-1) 1) 1) 1) 1)	P. 1-13
		00145927596		OK	
		00184629036		E-2) 2) 2) 2) 2)	P. 1-13
		00145972384		E-2) 2) 2) 2) 2)	P. 1-13
		00145291963		E-2) 2) 2) 2) 2)	P. 1-13
		00145928816		E-3) 3) 2) 3) 3)	P. 1-13
		00145903421		E-2) 2) 2) 2) 2)	P. 1-13
		00123485668		E-2) 2) 2) 2) 2)	P. 1-13

Reason for error

- E. 1) Hang up or line fail
- E. 3) No answer
- E. 5) Exceeded max. E-mail size

- E. 2) Busy
- E. 4) No facsimile connection

WSP Reference no: 43848  
NWDETECT Reference no: NWP/EIA/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1989) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
WSP Home  
Kleinfontein  
101 Impoverished  
Kopje, 025  
Tel: +27 (0) 210 710 100  
Fax: +27 (0) 210 710 101  
P.O. Box 10000, Kleinfontein  
K2 200, 6000 Kleinfontein

WSP Group c/o  
Environmental

Date/Time: 21. Jul. 2014 10:02

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
4878	Memory TX	00865676069	P. 13	OK	

Reason for error

- E. 1) Hang up or line fail
- E. 2) Busy
- E. 3) No answer
- E. 4) No facsimile connection
- E. 5) Exceeded max. E-mail size

WSP Reference no: 43849  
NWDETECT Reference no: NWP/EIA/12/2014



10 July 2014

Dear Stakeholder,

**NOTICE OF A BASIC ASSESSMENT PROCESS FOR THE DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

**1. PROJECT DESCRIPTION AND LOCATION**

The Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. The Klipfontein Concentrator is located on the Farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West Province. Anglo American Platinum: Rustenburg Section (RPM-RS) decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at two new Concentrators. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support rehabilitation of the site. In 2008, RPM-RS identified that land on which the Proposed Project is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex.

**2. ENVIRONMENTAL APPLICATION**

As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required according to the National Environmental Management Act (No. 107 of 1998) (NEMA) prior to the commencement of the Proposed Project. The following Government Notice Regulation (GNR) 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation.

The North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) will be responsible for considering the application for Environmental Authorisation in terms of the NEMA.

**3. STAKEHOLDER REGISTRATION**

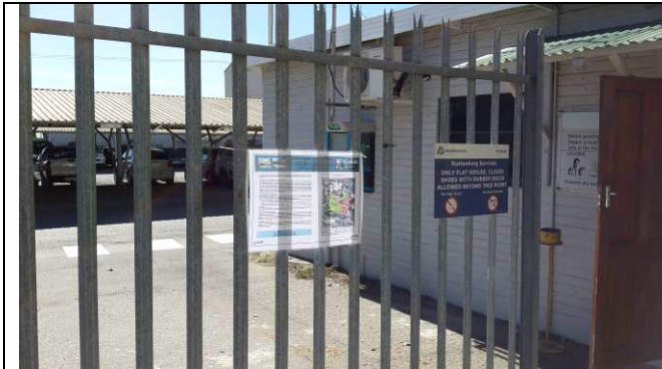
WSP Environmental (Pty) Ltd (WSP) has appointed as the environmental assessment practitioner (EAP) to manage the BA process. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report. Furthermore, registered stakeholders will be provided with an opportunity (14 days) to review the final BA report.

WSP Environmental (Pty) Ltd  
WSP House  
Registration Place  
M11 Springbok, P.O.  
Box 1017, 0297  
Tel: +27 (0) 56 453 3333  
Fax: +27 (0) 56 453 3333  
E-mail: [info@wspenvironmental.com](mailto:info@wspenvironmental.com)  
www.wspenvironmental.com

WSP Group plc  
02000000000000



# Site Notice Photo Plate



Site A (Entrance to the Klipfontein Concentrator)





Site B (The Platinum Health Medical Centre Notice Board)



Site C (The Rustenburg Public Library)



Site D (Intersection of Road to Marikana & Road to Khomani Mine (25° 41' 58.31" S 27° 21' 58.67" E))



Site E (RPM-RS Recreational Centre)



Site F (Klipfontein Residential Area - 25° 42' 17.68" S 27° 22' 00.45" E)







# Rustenburg Herald



## Department of Public Works, Roads and Transport

### Bid Notice and Invitation to Bid

Bid No	Bid Description	CIDB Grading	Compulsory Meeting	Evaluation Criteria	Contact Person
PW-RT 108/13	Construction of Thole Tau Traditional Office and Community Hall	7CB or higher	Date: 24 July 2014 Time: 11:00 Venue: Existing Ganyesa Traditional Office	90-Price 10-Preference points (points will be allocated according to B-BBEE ratings) Functionality as specified in the bid documents	Ms R Molelekwa, tel. (018) 380-1608 Mr N Nderitu, cell 078 368 4757

Minimum threshold for pre-qualification is 50%.  
Documents will be available from 14 July 2014 at the Department of Public Works, Roads and Transport, Gate House, Old Parliament Building, Ngaka Modiri Molema Road at a non-refundable fee of R300.00 each.  
Closing date: 8 August 2014 at 11:00



Department of Public Works, Roads and Transport  
North West Provincial Government  
REPUBLIC OF SOUTH AFRICA

## Department of Public Works, Roads and Transport

### Bid Notice and Invitation to Bid

Bid No	Bid Description	Compulsory Meeting	Evaluation Criteria	Contact Person
PWRT 92/13	Upgrading (gravel to tar) of section of road D3462 approximately 10.0km from N14 to Dithakwaneng in the Dr Ruth Segomotsi Mompati District in the North West Province	Date: 29 July 2014 Time: 11:00 Venue: Dithakwaneng Tribal Council Office	90-Price 10-Preference Points (points will be allocated according to B-BBEE ratings) Functionality as specified in bid documents	Ms M Molete, tel. (018) 388-1371

The minimum threshold for pre-qualification is 60%.  
Contract participation goal is 20% of the contract sum.  
CIDB grading: 8CE or higher  
Documents will be available from 23 July 2014 at the Department of Public Works, Roads and Transport, Gate House, Old Parliament Building, Ngaka Modiri Molema Road at a non-refundable fee of R300.00 each.  
Closing date: 13 August 2014 at 11:00



Department of Public Works, Roads and Transport  
North West Provincial Government  
REPUBLIC OF SOUTH AFRICA

### MR KLEEN

Cleaning, Chemicals, Acid Solvents & Paper Products  
50 KOKK ST, OOSEINDE, RUSTENBURG  
014 596 5850, 083 407 0146

**SPECIAL**

5/ Dishwash	..... R24,95	5/ Car Wash	..... R39,95
5/ Handy Wipe	..... R24,95	5/ Engine Clean	..... R39,95
5/ Bleach	..... R19,95	5/ One Shot G.P.	..... R39,95

Refuse Bags (Heavy Duty) 20s ..... R16,95  
5/ Pool Acid (Hydrochloric) ..... R22,00  
+ 1 Treat Sodium Carbonate FREE

## Corner Book Sale

The next SPCA Book Sale will be taking place on Saturday, 12 July, at the Safari Gardens Shopping Centre (Safari Spar) from 08:00 to 12:00. Please come and have a look and support the Rustenburg SPCA.

## SIAN SASHA OH SO STYLISH

SALON SIAN SASHA HAS A MAJOR ANNOUNCEMENT FOR ALL OUR CLIENTS - BECAUSE TIMES HAVE BEEN DIFFICULT IN RUSTENBURG FOR THE LAST FEW MONTHS - WE HAVE DECIDED TO CREATE A SPECIAL FOR EVERY WIFE, GIRLFRIEND, MOTHER, SISTER, DAUGHTER, COLLEAGUE OR EVEN A BEST FRIEND THAT NEEDS A PICK ME UP AND A SPOIL!

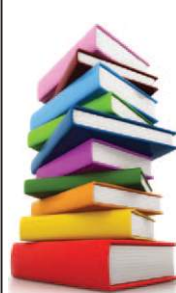
We know every lady wants to feel as though they wear their hair at its best - so we decided to offer you an unbelievable special - so you can have a GOOD HAIR DAY EVERYDAY and feel as though you've just walked out of a magazine!

For R700 you get highlights or color, treatment, cut and a blow wave - your stylist will be Annie, one of the top color specialists in Rustenburg.

PS. GENTS are more than welcome to also come in... maybe you could get your loved one a voucher as a surprise.

Phone Annie to make a personal appointment on 082 210 5953 - this special will run till the 25th of July!

WE ARE AT THE TUSCANY PICK N PAY CENTRE IN CASHAN RUSTENBURG! REMEMBER THIS COULD BE A NEW SHOPPING EXPERIENCE FOR OUR CLIENTS. TUSCANY SPAR IS NOW TUSCANY PICK N PAY.



### ONS WENSPAN

Benodig 'n gekwalifiseerde Haarkapster

Kontak: 084 511 0358  
+014 592 9062

Marie Marguerite PHOTOGRAPHY

info@mmphotographer.co.za | 073 964 9894 | www.mmphotographer.co.za

## Hedgehog's Nest

Function & Wedding Venue

**OPEN DAY 26 JULY 2014**

"Cheffing is not a job, it's a way of life"  
"A professional start to a creative future"  
Are you creative, disciplined and has loads of aspiration... then Hedgehog's Nest Culinary Institute (HCI) is looking for you....

We offer the following 3-Year International recognised & accredited City & Guilds course programme (Centre no. 848440):  
**Advanced Diploma in Culinary Arts & Patisserie Studies**

For more information contact the Principal of Hedgehog's Nest Culinary Institute, Pieter Germishuys on one of the following numbers:  
•(Mobile) 083 865 9585  
•(E-mail) germishuysp1@gmail.com  
•(W) 082 663 7281  
•(Website) www.hedgehogsnest.co.za

WEDDINGS - CONFERENCES - KIDDIES PARTIES - MATRIC FAREWELLS & YEAR-END FUNCTION  
To make an appointment contact Charmaine 082 663 7281 or E-mail: info@hedgehogsnest.co.za  
Website: www.hedgehogsnest.co.za

## NOTICE OF ENVIRONMENTAL ASSESSMENT

Basic Assessment for the Decommissioning of the Klipfontein Concentrator and Associated Infrastructure at Anglo American Platinum Limited: Rustenburg Platinum Mines - Rustenburg Section

NWDEDECT REFERENCE NUMBER: NWP/EIA/12/2014

**Description and Location**  
The Anglo American Platinum: Rustenburg Section (RPM-RS) Klipfontein Concentrator was commissioned in 1931 and processed approximately 120 000 tons of ore per month. RPM-RS decided to remove the Klipfontein Concentrator from active service (mothballed in 2007). The Klipfontein Concentrator is located on the farm Klipfontein 300 JQ within the Rustenburg Local Municipality and the Bojanala Platinum District Municipality of the North West province. In 2008, RPM-RS identified that land on which the Klipfontein Concentrator is located is considered a hotspot for contamination resulting from historic processing activities at the Klipfontein Complex. RPM-RS propose to decommission the redundant Klipfontein Concentrator (Proposed Project) to support the rehabilitation of the site. Due to the presence of contamination, environmental authorisation is required prior to commencement of the Proposed Project.

**Environmental Authorisation**  
As the Klipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required prior to the commencement of the Proposed Project. The following GNR 544 listed activities are applicable to the Proposed Project:

- Activity 27 (iv): The decommissioning of existing facilities or infrastructure for activities, where the facility or land on which it is located is contaminated; and
- Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

The applicant is thus required to undertake a Basic Assessment (BA) process in order to achieve environmental authorisation. The North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) will be responsible for considering the application for Environmental Authorisation in terms of the National Environmental Management Act (No 107 of 1998).

**Stakeholder registration**  
WSP Environmental (Pty) Ltd (WSP) has been appointed as the environmental assessment practitioner to manage the BA process in accordance with the NEMA, GNR 543. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report.

**Purpose of this Notice**  
To notify stakeholders of the commencement of the BA process. Parties wishing to register as stakeholders, in order to offer their comment on the Proposed Project, are requested to forward their full contact details to Claire Dendy at the details provided below. Registered stakeholders will be forwarded all future correspondence, and notified individually of additional opportunities to participate in the process.

**Claire Dendy**  
Tel: 011 361 1334  
Fax: 011 361 1381  
E-mail: Claire.Dendy@wspgroup.co.za  
Address: PO Box 98867, Sloane Park, 2152

**Rustenburg** – Making good on their promises, mining giant Lommin chief executive officer, Ben Magara and North West MEC Colleen Maine on Thursday, 10 July, launched the first phase of the Marikana Extension 2 housing project.

"The Project which came out of the Special Presidential Package initiative is aimed at eradicating informal settlements and boosting development around the mining area of Marikana," department-

# NUMSA strike costing economy R200 MILLION A DAY

With the economy having contracted in the first quarter of the year due to the devastating five-month long strike in the platinum sector, it was reported on Tuesday 8 July that the week-long around R200 million a day, putting further pressure on the struggling rand.

**Close to an agreement**  
Labour Minister Mildred Cliphant spent most of Monday locked in separate meetings with the employers and the Union, whose members in the metal and engineering sector went on strike on 1 July demanding a 12% wage increase and a R1000 housing allowance in a one-year bargain-

**Obstacles remain**  
The Steel and Engineering Industries Federation of SA (SEIFSA) on Thursday 3 July tabled a three-year wage offer of between eight and 10% for different levels of workers in the first year. On Monday 7 July, however, Gerhard Papentus, chief executive officer of the National Employers' Association of SA (NAESA), said "talks had deadlocked and that any wage offer was subject to an agreement on the establishment of a reduced entry level wage in respect of new entrants and the adoption of measures to make the industry more flexible... it is, however, disappointing that NUMSA does not even want to discuss these issues. Without an agreement on these NEASA proposals, we simply cannot see our way open to offer any wage increases."

NEASA represents between 70 000 and 80 000 workers, while SEIFSA represents about 3 000 companies with about 120 000 employees.

**Basic Assessment for the Decommissioning of the Kipfontein Concentrator and Associated Infrastructure at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section**

**NOTICE OF ENVIRONMENTAL ASSESSMENT**

**AngloAmerican**

**DESCRIPTION AND LOCATION**  
The Anglo American Platinum: Rustenburg Section (RPM-RS) Kipfontein Concentrator was commissioned in 1981 and processed approximately 120 000 tons of ore per month. RPM-RS decided to remove the Kipfontein Concentrator from active service (mothballed identified that land on which the Kipfontein Concentrator is located is considered a hotspot for contamination resulting from historic processing activities at the Kipfontein Complex. RPM-RS proposed to decommission the redundant Kipfontein Concentrator (Proposed Project) to support the rehabilitation of the site. Due to the presence of contamination, environmental authorisation is required prior to commencement of the Proposed Project.

**Environmental Authorisation**  
As the Kipfontein Concentrator involves the decommissioning of a facility which is located on partially contaminated land, environmental authorisation is required prior to the commencement of the Proposed Project. The following GNR 544 listed activities are applicable to the Proposed Project: Activity 27 (v): The decommissioning of existing facilities or infrastructure, for storage or storage and handling.

**Purpose of this Notice**  
To notify stakeholders of the commencement of the BA process. Parties wishing to register as stakeholders, in order to offer their comment on the Proposed Project, are requested to forward their full contact details to Claire Dendy at the details provided below. Registered stakeholders will be forwarded all future correspondence, and notified individually of additional opportunities to participate in the process.

**Stakeholder registration**  
WSP Environmental (Pty) Ltd (WSP) has been appointed as the environmental assessment practitioner to manage the BA process in accordance with the NEMA, GNR 543. This process includes consultation with parties who may be affected by, or have an interest in, the Proposed Project. WSP will notify registered stakeholders of the date and location of the draft BA report once the report has been compiled and released for public review. Registered stakeholders will have a period of 40 days in which to review and comment on the draft BA report.

**Address:** PO Box 98867, Sloane Park, 2152  
**E-mail:** Claire.Dendy@wspgrp.co.za  
**Fax:** 011 361 1381  
**Tel:** 011 361 1334  
**Address:** PO Box 98867, Sloane Park, 2152

**Annual Open Day Event**  
Boshock Smelter is actively involved in our community as part of our social responsibility and service to the community. Consequently, we will be holding our annual community open day event in order to allow all our stakeholders to gain insight into our operation, including procurement undertakings. All interested parties inclusive of business undertakings, scholars and students are welcome to attend.

**Annual Community Open Day**  
Boshock Smelter, Rustenburg, North West  
Boshock Smelter would like to invite you to the annual open day event which will be held as follows:

**Date:** 24 July 2014  
**Time:** 09:00 – 15:00  
**Venue:** Robega Community Hall  
As your industrial neighbour, Boshock Smelter a Glencore Merate Venture Operation, would like to once again record the value we place on our interaction with the community, jointly working towards a mutual sustainable future and favourable relationship.

**For more information, please contact Tshupo Sethonga at (014) 573-1751 or e-mail: tshupo.sethonga@glencore.co.za**

ing projects in the Marikana mining area v 2000 houses will be built over the next years, starting with 292 houses and 252 con- national residential units (CRUs).  
"We have also purchased 400 hectare por- of land from private owners in Marikana at of R47 million, purely for human settlements poses," he said.

**Government will intervene**  
Finance Minister Nhlanhla Nene said government would allow talks to continue but would inter- vene should the deadlock remain unresolved.

**Violence**  
Things started to go wrong on the third day of the strike already, when about 150 NUMSA protest- ers armed with knobkieries, tree branches, sticks and hammers vandalised several factories in the Booyens area of Johannesburg and tried to set a building alight. The fire was doused by the owners, but a dog was torched and burnt to death. According to reports, similar incidents took place in Benoni and Germiston.

**Effect**  
Anabel Bishop, an economist at Investec Ltd in Johannesburg, on Monday warned that the strike "will have a fairly immediate negative impact, widening the trade and current-account def- icits and slowing economic growth. Manufacturers tend not to hold significant stockpiles, deliver- ing what they produce on an order instead."

Halted production at General Motors because of a disruption of auto-component supplies, threat- ens about a third of South African manufacturing and affects almost 12 000 employers, including companies such as Bell Equipment, Evraz Highveld Steel & Vanadium and units of Murray & Roberts and Aveng. BMW halted production for a week, bringing forward planned maintenance at its plant in Pretoria.

Last year a fifteen-day NUMSA strike crippled the South African car-manufacturing industry, causing about R20-billion (\$1.9-billion) in lost revenue.

The current work stoppage has also affected construction at Eskom's Medupi and Kusile power- plant sites where worker attendance was about 30% lower yesterday, according to Andrew Etz- inger, a spokesperson for the utility. NUMSA last month rejected a reported 5.6% pay-increase offer from the electricity utility.

walkout, following shortly on the protracted five-month platinum mining strike.

**GLENCORE**

**Annual Open Day Event**

**2014 OPEN DAY**



Our ref: 43849  
NWDEDECT Ref no.: NWP/EIA/12/2014



24 July 2014

**Bonjanala District Municipality**

Corner of:  
Beyers Naude &  
Fatima Bhayat Drive,  
0300,  
Rustenburg.

To Prince Morare,

This letter serves to acknowledge that MALEBO ME (name in print) has received one CD of the Draft Basic Assessment Report (BAR) and associated Environmental Management Programme (EMPR), for the Proposed Decommissioning of the Klipfontein Concentrator and Associated Infrastructure Project at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section, on the 25<sup>th</sup>. 07. 2014 (date).

Kind Regards,

A handwritten signature in black ink, appearing to read 'Jared O'Brien', is written over a horizontal line.

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

**WSP Environmental**  
WSP House, Bryanston Place Office  
Park  
199 Bryanston Drive  
Bryanston  
Johannesburg  
2157  
Tel: +27(0) 11 361 1380  
Fax: +27(0) 11 361 1381  
<http://www.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Group plc  
Offices worldwide

Our ref: 43849  
NWDEDECT Ref no.: NWP/EIA/12/2014



24 July 2014

**North West Department of Mineral Resources**

Private Bag A1  
KLERKSDORP  
2570

To Phumudzo Nethwadzi,

This letter serves to acknowledge that \_\_\_\_\_ (name in print) has received one hard copy and one CD of the Draft Basic Assessment Report (BAR) and associated Environmental Management Programme (EMPR), for the Proposed Decommissioning of the Klipfontein Concentrator and Associated Infrastructure Project at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section, on the \_\_\_\_\_ (date).

Kind Regards,

A handwritten signature in black ink, appearing to read 'Jared O'Brien', is written over a horizontal line.

**Jared O'Brien**  
**Environmental Consultant**

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



**WSP Environmental**

WSP House, Bryanston Place Office  
Park  
199 Bryanston Drive  
Bryanston  
Johannesburg  
2157  
Tel: +27(0) 11 361 1380  
Fax: +27(0) 11 361 1381  
<http://www.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Group plc  
Offices worldwide



**DEPARTMENT: MINERAL RESOURCES  
REPUBLIC OF SOUTH AFRICA**

**Tel: 018-487 9830**

**Fax: 018-487 9836**

Name of Applicant: RPM Limited

File No: NW 30/5/1/2/2/2016 NW 30/5/1/2/3/2/1/23.....EM

File No : NW 5/3/2/..... NW 6/2/2/.....

**CHECKLIST: MINERAL LAW ADMINISTRATION**

- Proof Of Consultation with Landowner/Interested/Affected Parties
- Other Public Review of the Draft Basic

Assessment Report

**CHECKLIST: MINE ENVIROMENTAL MANAGEMENT**

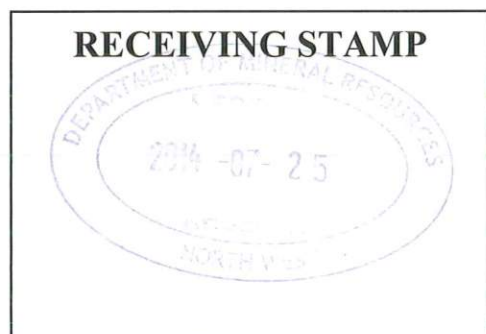
- 1 Original + ..... Copies ( Scoping Report / EMP's / EIA)
- Proof of Water Registration
- Memorandum Agreement
- Itemisation as required in terms of Regulation 53 & 54 of the MPRDA
- Letter from the Bank : Financial Provision
- Bank Guarantee
- Application for Closure Certificate

*Receipt of the above-mentioned documentation is hereby acknowledged.*

DME OFFICIAL [Signature]

APPLICANT [Signature]

***COPY TO BE PROVIDED TO APPLICANT***





## water & sanitation

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA

### NORTH WEST REGION

OFFICE OF THE REGIONAL MANAGER: WATER RESOURCE MANAGEMENT,  
CROCODILE (WEST) MARICO WMA

---

Fax No:	(012) 253-2761	✉	<b>P/B X 357</b>	✍	Comia Theunissen
			HARTBEEPOORT	☎	(012) 253-1026
e-mail:	theunissenc@dwa.gov.za		0216	📁	16/2/7/A220/C5/.....

2014-07-25

WSP Environmental (Pty) Ltd  
WSP House  
Bryanston Place  
199 Bryanston Drive  
Bryanston  
2021

For Attention : Claire Dendy

Ref No: 43849 NWP/EIA 12/2014

RE: Draft BAR /EMP - AAP: Rustenburg Platinum Mines - Rustenburg Section (Operations) - Proposed decommissioning of Klipfontein Concentrator and Associated Infrastructure

This office acknowledges the receipt of your application documents regards to the above-mentioned on 25 July 2014 (**Task T293/2014**). The office responsible for this area is : **Ms Lethabo Ramashala** can be contacted at (012) 207-9911.

Comments would be forwarded in due time.

Thank you

**Ms C. THEUNISSEN**  
CHIEF ADMIN CLERK

Our ref: 43849  
NWDEDECT Ref no.: NWP/EIA/12/2014



24 July 2014

**North West Department of Water Affairs**

Private Bag X 357  
Hartbeespoort  
0216

To Mr. Phillip Tjale,

This letter serves to acknowledge that Cornia Theunissen (name in print) has received one hard copy and one CD of the Draft Basic Assessment Report (BAR) and associated Environmental Management Programme (EMPR), for the Proposed Decommissioning of the Klipfontein Concentrator and Associated Infrastructure Project at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section, on the 25/7/2014 (date).

Kind Regards,

**Jared O'Brien**  
**Environmental Consultant**

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

NW REGION  
INSTITUTIONAL  
ESTABLISHMENT  
DEPARTMENT OF WATER AFFAIRS  
HARTBEESSPOORT  
2014-07-25  
LAFAPHA LA MEBERO YA METSI  
DEPARTEMENT VAN WATERNESE  
KUST  
HARTBEESSPOORT  
0216

**WSP Environmental**  
WSP House, Bryanston Place Office  
Park  
199 Bryanston Drive  
Bryanston  
Johannesburg  
2157  
Tel: +27(0) 11 361 1380  
Fax: +27(0) 11 361 1381  
<http://www.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Group plc  
Offices worldwide

Our ref: 43849  
NWDEDECT Ref no.: NWP/EIA/12/2014



24 July 2014

**North West Department of Economic Development, Environment and Tourism**

AgriCentre Building  
Corner of Dr James Moroka and Stadium Road  
Private Bag X2039  
Mmabatho  
2735

To Mr. Sammy Mabula,

This letter serves to acknowledge that Sammy Mabula (name in print) has received one hard copy and one CD of the Draft Basic Assessment Report (BAR) and associated Environmental Management Programme (EMPR), for the Proposed Decommissioning of the Klipfontein Concentrator and Associated Infrastructure Project at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section, on the 25 July 2014 (date).

Kind Regards,

**Jared O'Brien**  
**Environmental Consultant**

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

018 2996710  
084 028 9393  
mmabula@nwppg.gov.za

**WSP Environmental**  
WSP House, Bryanston Place Office  
Park  
199 Bryanston Drive  
Bryanston  
Johannesburg  
2157  
Tel: +27(0) 11 361 1380  
Fax: +27(0) 11 361 1381  
<http://www.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Group plc  
Offices worldwide

Our ref: 43849  
NWDEDECT Ref no.: NWP/EIA/12/2014



24 July 2014

**Rustenburg Local Municipality**

159 Nelson Mandela,  
Rustenburg.

To Kelebogile Mekgoe,

This letter serves to acknowledge that Kelebogile Mekgoe (name in print) has received one CD of the Draft Basic Assessment Report (BAR) and associated Environmental Management Programme (EMPR), for the Proposed Decommissioning of the Klipfontein Concentrator and Associated Infrastructure Project at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section, on the 25/07/2014 (date).

Kind Regards,

A handwritten signature in black ink, appearing to read 'Jared O'Brien', is written over a horizontal dashed line.

**Jared O'Brien**  
**Environmental Consultant**

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

**WSP Environmental**  
WSP House, Bryanston Place Office  
Park  
199 Bryanston Drive  
Bryanston  
Johannesburg  
2157  
Tel: +27(0) 11 361 1380  
Fax: +27(0) 11 361 1381  
<http://www.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Group plc  
Offices worldwide

Our ref: 43849  
NWDEDECT Ref no.: NWP/EIA/12/2014



24 July 2014

**Rustenburg Platinum Mines Sports and Recreation Club**

To Mr. Steven Mutau,

This letter serves to acknowledge that Steven Mutau (name in print) has received one hard copy of the Draft Basic Assessment Report (BAR) and associated Environmental Management Programme (EMPR), for the Proposed Decommissioning of the Klipfontein Concentrator and Associated Infrastructure Project at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section, on the 25/7/14 (date). The Draft Reports are to be presented to stakeholders requesting to review the Draft Reports. The Draft Reports may not be removed from the venue. The public review period ends on 03 September 2014.

Kind Regards,

**Claire Dendy**  
**Consultant**

Tel: 011 361 1334

Fax: 086 505 3939

Email: [Claire.dendy@wspgroup.co.za](mailto:Claire.dendy@wspgroup.co.za)

**WSP Environmental**

WSP House, Bryanston Place Office  
Park  
199 Bryanston Drive  
Bryanston  
Johannesburg  
2157  
Tel: +27(0) 11 361 1380  
Fax: +27(0) 11 361 1381  
<http://www.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Group plc  
Offices worldwide



Our ref: 43849  
NWDEDECT Ref no.: NWP/EIA/12/2014



24 July 2014

**Rustenburg Local Municipality**

Corner of 159 Nelson Mandela &  
Beyers Naude Streets,  
Rustenburg.

To Appearance Ndlovu,

This letter serves to acknowledge that Winyi Tshothae (name in print) has received one CD of the Draft Basic Assessment Report (BAR) and associated Environmental Management Programme (EMPR), for the Proposed Decommissioning of the Klipfontein Concentrator and Associated Infrastructure Project at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section, on the \_\_\_\_\_ (date).

Kind Regards,

A handwritten signature in black ink, appearing to read 'Jared O'Brien'.

**Jared O'Brien**  
**Environmental Consultant**

Tel: 011 361 1396

Fax: 086 505 3939

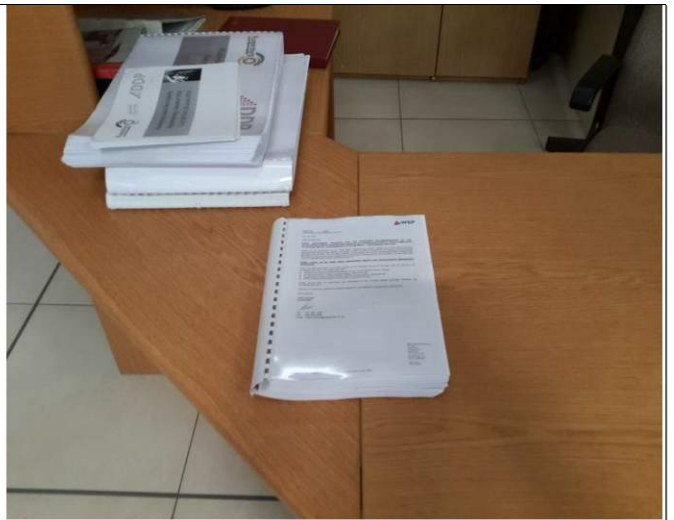
Email: Jared.O'Brien@wspgroup.co.za

A handwritten signature in black ink, appearing to read 'Winyi Tshothae'.

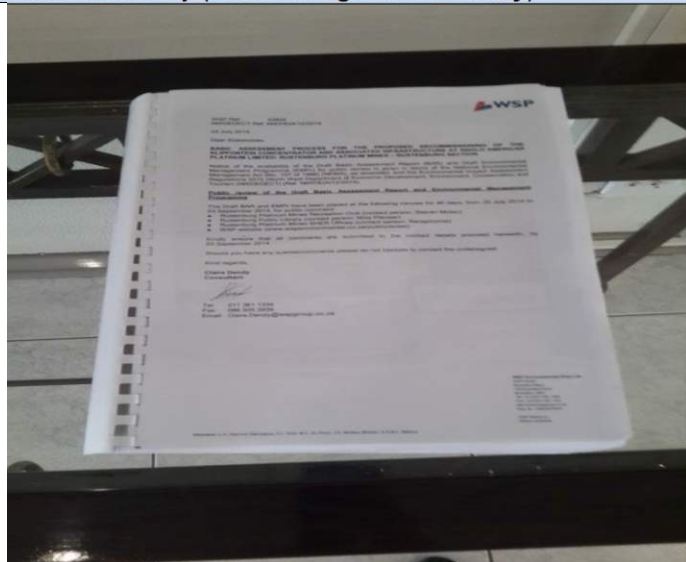
**WSP Environmental**  
WSP House, Bryanston Place Office  
Park  
199 Bryanston Drive  
Bryanston  
Johannesburg  
2157  
Tel: +27(0) 11 361 1380  
Fax: +27(0) 11 361 1381  
<http://www.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Group plc  
Offices worldwide

Draft BAR Distribution Records - Photo Plate



Proof of Delivery (Rustenburg Public Library)



Proof of Delivery (Rustenburg Platinum Mines Recreation Club)

WSP Ref: 43849  
NWDEDECT Ref: NWP/EIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMPr) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) (Ref. NWP/EIA/12/2014).

**Public review of the Draft Basic Assessment Report and Environmental Management Programme**

The Draft BAR and EMPr have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mutau)
- Rustenburg Public Library (contact person: Miss Pienaar)
- Rustenburg Platinum Mines SHER Offices (contact person: Receptionist)
- WSP website ([www.wspenvironmental.co.za/publicreview](http://www.wspenvironmental.co.za/publicreview))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

**Claire Dendy  
Consultant**



Tel: 011 361 1334  
Fax: 086 505 3939  
Email: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)

**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.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Global Inc.  
Offices worldwide





O'Brien, Jared

---

From: Sibiya, Brenda  
Sent: 23 July 2014 11:22 AM  
To: O'Brien, Jared  
Cc: Dendy, Claire  
Subject: BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION

Attachments: 43849\_Klip\_Decom\_Draft BAR Public Rev Notice (Final).pdf

Tracking:	Recipient	Delivery	Read
	O'Brien, Jared	Delivered: 2014/07/23 11:22 AM	
	Dendy, Claire	Delivered: 2014/07/23 11:22 AM	Read: 2014/07/23 12:59 PM

Dear Stakeholder,

The attached notification letter refers to the public review period for the Basic Assessment Report and associated Environmental Management Programme for the Decommissioning of the Klipfontein Concentrator and Associated Infrastructure at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section (NWDEDECT Reference Number: NWP/EIA/12/2014).

Should you have any comments or concerns please do not hesitate to contact the undersigned.

Regards.

Claire Dendy  
Assistant Consultant



WSP, Environment & Energy, Africa  
WSP House, Bryanston Place, 199 Bryanston Drive, Bryanston, 2191, South Africa  
Tel: +27 11 361 1334  
Mob: +27 82 852 8482  
Fax: +27 11 361 1301

[www.wspgroup.co.za](http://www.wspgroup.co.za)

WSP is one of the world's leading engineering and design consultancies. We provide services to transform the built environment and restore the natural environment. We have 15,000 employees, based in more than 300 offices, across 35 countries, on every continent.

This email and all contents are subject to the following disclaimer: <http://www.wspgroup.com/en/Welcome-to-WSP-Africa/WSP-Africa/Disclaimer>

WSP Environmental (Pty) Ltd, Registered Office: WSP House, Bryanston Place, 199 Bryanston Drive, Bryanston, 2191, South Africa Registered Number: 1999/008928/07 South Africa

From: Microsoft Outlook  
To: palesam@teba.co.za; tsogomotswadi@gmail.com; lady-segone@wemail.co.za; ilesejane669@gmail.com; nitrade@mweb.co.za; ramssello@gmail.com; akinmont@twp.co.za; p.m.huma@gmail.com; mtlhareseeng@rustenburg.gov.za; pietj.botha@angloamerican.com; setshedi.tefo@yahoo.com; debrahlalele@yahoo.com; selvy.rathuloane@gmail.com; shuyzen@amplats.co.za; livhuwani.tshilate@dmr.gov.za; ntanganedzoni.mushome@dmr.gov.za; disaster@rustenburg.gov.za; mulaudzij2@dwa.gov.za; irsebolai@ruraldevelopment.gov.za; Neo.Kgokong@dmr.gov.za; phumudzo.nethwadzi@dme.gov.za; princem@bojanala.gov.za; morareprince@gmail.com; shuyzers@amplats.co.za; ddupreez@rtbcc.co.za; adikolomela@nwpg.gov.za; DMakhubele@environment.gov.za; fredramontsheng@yahoo.com; hashley@webmail.co.za; lioneln@fraseralexander.co.za; vinesh.dilsook@angloamerican.com; mitshilowa@angloplat.com; iletsapa@angloamerican.co.za; shaunp@fraseralexander.co.za; setshedibogosi@gmail.com; ditiroon@gmail.com; khalid@eims.co.za; shawn.monyatsi@gmail.com; gabriel.khunou@gmail.com; pompieman@gmail.com; libby.redding@angloamerican.com; avasweol@angloplat.com; kennedypholose@gmail.com; obdconstructors@hotmail.com; mfidikweprimary@gmail.com; omphemetsevictoria@rockmail.com; lesegomonare@yahoo.com; rabang4kb@yahoo.com; motaus@angloplat.com; karaboemmanuel01@ovi.com; mlmolatlou@gmail.com; nishi.haripursad@angloamerican.com; mschoe03@amplats.co.za; tbaloyi@nwpg.gov.za; tlong@angloplat.com; roelfl@magalieswater.co.za; wsmart1@twpmatomo.co.za; robinw@rsv.co.za; amannathoko@rustenburg.gov.za; stuardt@amplats.co.za; kathleen@rustenburg.gov.za; mputle.jerry@gmail.com; itumane@rustenburg.gov.za; waldie@rustenburgherald.co.za; motsoadi@yahoo.com; djbaloyi@gmail.com; aseome@rustenburg.gov.za; amabalane@rustenburg.gov.za; kmokgophe@nw.shara.org.za; ttsagae@rtbcc.co.za; jdnkwanyana@yahoo.com; nemutendanit@dwa.gov.za; lazarusn@teba.co.za; 2704@webmail.co.za; jnxumalo@rtbcc.co.za; civic@rtbcc.co.za; willemsekannie@gmail.com; info@magalieswater.co.za; tshepo@bafokeng.com; kkopong@rustenburg.gov.za; durkje@lrc.org.za; oskosana@nwpg.gov.za; rnemanashi@nwpg.gov.za; mmohlalisi@nwpg.gov.za; munman@rustenburg.gov.za; tlenake@rustenburg.gov.za; gmoopelwa@rustenburg.gov.za; pmatlapeng@nwpg.gov.za; ntshangases@dwaf.gov.za; tjaleK@dwa.gov.za; Siwelanel@dwa.gov.za; klecoge@nwpg.gov.za; smukhola@nwpg.gov.za; malulekej@dwa.gov.za; kmekgoe@rustenburg.gov.za; slekota@nwpg.gov.za; rocky@crater.co.za; eseduke@rtbcc.co.za; mabeu@telkomsa.net; mw.notty@mweb.co.za; shadrack@lantic.net; danielseriteng@gmail.com; welcomedng@gmail.com; stephen.bullock@angloamerican.com; dmatlapeng@nwpg.gov.za; estherpule@gmail.co.za; speaker@rustenburg.gov.za; strike.magolego@dme.gov.za; regomolefe@mweb.co.za; freidrichs@uwp.co.za; jmarais@deat.gov.za; n.cornelius@xstrata.co.za; morris.nte@implats.co.za; hvdwalt@rustenburg.gov.za; patking@bafokeng.com; shuma@rtbcc.co.za; mitumeleng@rustenburg.gov.za; kkhunou@rtbcc.co.za; hein.jantzen@angloplat.com; herbertm@medialab.co.za; juliuscc@absamail.co.za; alanf@kelgran.co.za; louise.smith@mweb.co.za; adriaan.stander@afrox.boc.com; gramsay@aquariussa.co.za; reotshepile@bafokeng.com; ernie@bafokeng.com; dhsetshedi@webmail.co.za; michael.moalosi@implats.co.za; iti31424

To: @mweb.co.za; fran.graham@implats.co.za; engoepe@num.org.za; bashimanes@telkomsa.com; mphakoe@rtbcc.co.za; maos@gwisa.com; orestnbeduwa@yahoo.com; jbpetlele@gmail.com; mbokodo2003@yahoo.com; glongomo@xstrata.co.za; ssematu@rtbcc.co.za; teb83moverscratex@webmail.co.za; mnape@xstrata.co.za; ABritz@Angloplat.com; bdvillie@amplats.co.za; malanp@angloplat.co.za; fire@rtbcc.co.za; editor@lesedingmedia.co.za; aerasmus@angloplat.com; fikeinvestm@telkomsa.net; plouw@rustenburg.gov.za; thehartleys@intekom.co.za; andia@mandirk.co.za; olgachauke@webmail.co.za; malakia@rustenburg.gov.za; Aaron.kharivhe@dme.gov.za; billyn30@hotmail.com; dialehb@absamail.co.za; patkhu@webmail.co.za; jkboase@yahoo.com; tsogobuilding@webmail.co.za; james.baloyi@gmail.com; petlelejb@yahoo.com; kagiso.senne@bafokeng.com; bruno@bafokeng.com; khavenga@rustenburg.gov.za; bleketi@rtbcc.co.za; davidmahube@mweb.co.za; ttyira@amplats.co.za; george@bafokengsports.co.za; thabomakgale@bafokeng.com; alalla@angloplat.com; jselect@mweb.co.za; mw.maria@mweb.co.za; damariamatshaba@yahoo.com; bstols@rtbcc.co.za; psebegoe@rtbcc.co.za; mmashile@rtbcc.co.za; mentor@nwpg.gov.za; sanbow@wesizwe.com; RalkoaW@dwa.gov.za; radebeh@bdfm.co.za; marapoo@rustenburg.gov.za; gking@xstrata.co.za; dudu.ratshefola@angloamerican.com; dpistorius@xstrata.co.za; lizette@mandirk.co.za; lekutame@nwpg.gov.za; jcritch@randwater.co.za; jpieters@rtbcc.co.za; bernardm@angloplat.com; tmolete@rustenburg.gov.za; mzitha@angloplat.com; jrobinson@angloplat.com; markr@angloplat.com; psoaisa@amplats.co.za; miguel.dossantos@tenovagroup.com; emfolwe@rustenburg.gov.za; jgreyling@rustenburg.gov.za; aventer@rtbcc.co.za; pviviers@angloplat.com; lkalayamotho@oldmutualpfa.com; Jacobus@ecoserv.com; mmalebad@angloplat.com; tphumo@angloplat.com; eheyman@angloplat.com; rgoris@angloplat.com; pkhunou@amplats.co.za; ishmaels@angloplat.com; amiles@angloplat.com; kmogoera@angloplat.com; bmurphy@angloplat.com; sdejager01@angloplat.com; dowdeswell@angloplat.com; bbierman@angloplat.com; cbadenhorst@angloplat.com

Sent: 23 July 2014 11:22 AM  
Subject: Relayed: BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

[palesam@teba.co.za](mailto:palesam@teba.co.za)

[tsogomotswadi@gmail.com](mailto:tsogomotswadi@gmail.com)

[lady-segone@wemail.co.za](mailto:lady-segone@wemail.co.za)

[ilesejane669@gmail.com](mailto:ilesejane669@gmail.com)

[nitrade@mweb.co.za](mailto:nitrade@mweb.co.za)

[ramssello@gmail.com](mailto:ramssello@gmail.com)

[akinmont@twp.co.za](mailto:akinmont@twp.co.za)



[p.m.huma@gmail.com](mailto:p.m.huma@gmail.com)  
[mtlhareseng@rustenburg.gov.za](mailto:mtlhareseng@rustenburg.gov.za)  
[pietj.botha@angloamerican.com](mailto:pietj.botha@angloamerican.com)  
[setshedi.tefo@yahoo.com](mailto:setshedi.tefo@yahoo.com)  
[debrahlalele@yahoo.com](mailto:debrahlalele@yahoo.com)  
[selvy.rathuloane@gmail.com](mailto:selvy.rathuloane@gmail.com)  
[shuyzen@amplats.co.za](mailto:shuyzen@amplats.co.za)  
[livhuwani.tshilate@dmr.gov.za](mailto:livhuwani.tshilate@dmr.gov.za)  
[ntanganedzoni.mushome@dmr.gov.za](mailto:ntanganedzoni.mushome@dmr.gov.za)  
[disaster@rustenburg.gov.za](mailto:disaster@rustenburg.gov.za)  
[mulaudziz2@dwa.gov.za](mailto:mulaudziz2@dwa.gov.za)  
[irsebolai@ruraldevelopment.gov.za](mailto:irsebolai@ruraldevelopment.gov.za)  
[Neo.Kgokong@dmr.gov.za](mailto:Neo.Kgokong@dmr.gov.za)  
[phumudzo.nethwadzi@dme.gov.za](mailto:phumudzo.nethwadzi@dme.gov.za)  
[princem@bojanala.gov.za](mailto:princem@bojanala.gov.za)  
[morareprince@gmail.com](mailto:morareprince@gmail.com)  
[shuyzers@amplats.co.za](mailto:shuyzers@amplats.co.za)  
[ddupreez@rtbcc.co.za](mailto:ddupreez@rtbcc.co.za)  
[adikolomela@nwpg.gov.za](mailto:adikolomela@nwpg.gov.za)  
[DMakhubele@environment.gov.za](mailto:DMakhubele@environment.gov.za)  
[fredramontsheng@yahoo.com](mailto:fredramontsheng@yahoo.com)  
[hashley@webmail.co.za](mailto:hashley@webmail.co.za)  
[lioneln@fraseralexander.co.za](mailto:lioneln@fraseralexander.co.za)  
[vinesh.dilsook@angloamerican.com](mailto:vinesh.dilsook@angloamerican.com)  
[mitshilowa@angloplat.com](mailto:mitshilowa@angloplat.com)  
[iletsapa@angloamerican.co.za](mailto:iletsapa@angloamerican.co.za)  
[shaunp@fraseralexander.co.za](mailto:shaunp@fraseralexander.co.za)  
[setshedibogosi@gmail.com](mailto:setshedibogosi@gmail.com)  
[ditiroon@gmail.com](mailto:ditiroon@gmail.com)

[khalid@eims.co.za](mailto:khalid@eims.co.za)  
[shawn.monyatsi@gmail.com](mailto:shawn.monyatsi@gmail.com)  
[gabriel.khunou@gmail.com](mailto:gabriel.khunou@gmail.com)  
[pompieman@gmail.com](mailto:pompieman@gmail.com)  
[libby.redding@angloamerican.com](mailto:libby.redding@angloamerican.com)  
[avasweol@angloplat.com](mailto:avasweol@angloplat.com)  
[kennedypholose@gmail.com](mailto:kennedypholose@gmail.com)  
[obdconstructors@hotmail.com](mailto:obdconstructors@hotmail.com)  
[mfidikweprimary@gmail.com](mailto:mfidikweprimary@gmail.com)  
[omphemetsevictoria@rockmail.com](mailto:omphemetsevictoria@rockmail.com)  
[lesegomonare@yahoo.com](mailto:lesegomonare@yahoo.com)  
[rabang4kb@yahoo.com](mailto:rabang4kb@yahoo.com)  
[motaus@angloplat.com](mailto:motaus@angloplat.com)  
[karaboemmanuel01@ovi.com](mailto:karaboemmanuel01@ovi.com)  
[mlmolatlou@gmail.com](mailto:mlmolatlou@gmail.com)  
[nishi.haripursad@angloamerican.com](mailto:nishi.haripursad@angloamerican.com)  
[mschoe03@amplats.co.za](mailto:mschoe03@amplats.co.za)  
[tbaloyi@nwpg.gov.za](mailto:tbaloyi@nwpg.gov.za)  
[tlong@angloplat.com](mailto:tlong@angloplat.com)  
[roelfl@magalieswater.co.za](mailto:roelfl@magalieswater.co.za)  
[wsmart1@twpmatomo.co.za](mailto:wsmart1@twpmatomo.co.za)  
[robinw@rsv.co.za](mailto:robinw@rsv.co.za)  
[amannathoko@rustenburg.gov.za](mailto:amannathoko@rustenburg.gov.za)  
[stuard@amplats.co.za](mailto:stuard@amplats.co.za)  
[kathleen@rustenburg.gov.za](mailto:kathleen@rustenburg.gov.za)  
[mputle.jerry@gmail.com](mailto:mputle.jerry@gmail.com)  
[itumane@rustenburg.gov.za](mailto:itumane@rustenburg.gov.za)  
[waldie@rustenburgherald.co.za](mailto:waldie@rustenburgherald.co.za)  
[motsoadi@yahoo.com](mailto:motsoadi@yahoo.com)

[djbaloyi@gmail.com](mailto:djbaloyi@gmail.com)

[aseome@rustenburg.gov.za](mailto:aseome@rustenburg.gov.za)

[amabalane@rustenburg.gov.za](mailto:amabalane@rustenburg.gov.za)

[kmokgophe@nw.shara.org.za](mailto:kmokgophe@nw.shara.org.za)

[ttsagae@rtbcc.co.za](mailto:ttsagae@rtbcc.co.za)

[jdnkwanyana@yahoo.com](mailto:jdnkwanyana@yahoo.com)

[nemutendanit@dwa.gov.za](mailto:nemutendanit@dwa.gov.za)

[lazarusn@teba.co.za](mailto:lazarusn@teba.co.za)

[2704@webmail.co.za](mailto:2704@webmail.co.za)

[jnxumalo@rtbcc.co.za](mailto:jnxumalo@rtbcc.co.za)

[civic@rtbcc.co.za](mailto:civic@rtbcc.co.za)

[willemsekannie@gmail.com](mailto:willemsekannie@gmail.com)

[info@magalieswater.co.za](mailto:info@magalieswater.co.za)

[tshepo@bafokeng.com](mailto:tshepo@bafokeng.com)

[kkopong@rustenburg.gov.za](mailto:kkopong@rustenburg.gov.za)

[durkje@lrc.org.za](mailto:durkje@lrc.org.za)

[oskosana@nwpg.gov.za](mailto:oskosana@nwpg.gov.za)

[rnemanashi@nwpg.gov.za](mailto:rnemanashi@nwpg.gov.za)

[mmohlalisi@nwpg.gov.za](mailto:mmohlalisi@nwpg.gov.za)

[munman@rustenburg.gov.za](mailto:munman@rustenburg.gov.za)

[tlenake@rustenburg.gov.za](mailto:tlenake@rustenburg.gov.za)

[gmoopelwa@rustenburg.gov.za](mailto:gmoopelwa@rustenburg.gov.za)

[pmatlapeng@nwpg.gov.za](mailto:pmatlapeng@nwpg.gov.za)

[ntshangases@dwaf.gov.za](mailto:ntshangases@dwaf.gov.za)

[tjaleK@dwa.gov.za](mailto:tjaleK@dwa.gov.za)

[Siwelanel@dwa.gov.za](mailto:Siwelanel@dwa.gov.za)

[klecoge@nwpg.gov.za](mailto:klecoge@nwpg.gov.za)

[smukhola@nwpg.gov.za](mailto:smukhola@nwpg.gov.za)

[malulekej@dwa.gov.za](mailto:malulekej@dwa.gov.za)

[kmekgoe@rustenburg.gov.za](mailto:kmekgoe@rustenburg.gov.za)  
[slekota@nwpg.gov.za](mailto:slekota@nwpg.gov.za)  
[rocky@crater.co.za](mailto:rocky@crater.co.za)  
[eseduke@rtbcc.co.za](mailto:eseduke@rtbcc.co.za)  
[mabeu@telkomsa.net](mailto:mabeu@telkomsa.net)  
[mw.notty@mweb.co.za](mailto:mw.notty@mweb.co.za)  
[shadrack@lantic.net](mailto:shadrack@lantic.net)  
[danielseriteng@gmail.com](mailto:danielseriteng@gmail.com)  
[welcomeding@gmail.com](mailto:welcomeding@gmail.com)  
[stephen.bullock@angloamerican.com](mailto:stephen.bullock@angloamerican.com)  
[dmatlapeng@nwpg.gov.za](mailto:dmatlapeng@nwpg.gov.za)  
[estherpule@gmail.co.za](mailto:estherpule@gmail.co.za)  
[speaker@rustenburg.gov.za](mailto:speaker@rustenburg.gov.za)  
[strike.magolego@dme.gov.za](mailto:strike.magolego@dme.gov.za)  
[regomolefe@mweb.co.za](mailto:regomolefe@mweb.co.za)  
[freidrichs@uwp.co.za](mailto:freidrichs@uwp.co.za)  
[jmarais@deat.gov.za](mailto:jmarais@deat.gov.za)  
[n.cornelius@xstrata.co.za](mailto:n.cornelius@xstrata.co.za)  
[morris.nte@implats.co.za](mailto:morris.nte@implats.co.za)  
[hvdwalt@rustenburg.gov.za](mailto:hvdwalt@rustenburg.gov.za)  
[patking@bafokeng.com](mailto:patking@bafokeng.com)  
[shuma@rtbcc.co.za](mailto:shuma@rtbcc.co.za)  
[mitumeleng@rustenburg.gov.za](mailto:mitumeleng@rustenburg.gov.za)  
[kkhunou@rtbcc.co.za](mailto:kkhunou@rtbcc.co.za)  
[hein.jantzen@angloplat.com](mailto:hein.jantzen@angloplat.com)  
[herbertm@medialab.co.za](mailto:herbertm@medialab.co.za)  
[juliuscc@absamail.co.za](mailto:juliuscc@absamail.co.za)  
[alanf@kelgran.co.za](mailto:alanf@kelgran.co.za)  
[louise.smith@mweb.co.za](mailto:louise.smith@mweb.co.za)

[adriaan.stander@afrox.boc.com](mailto:adriaan.stander@afrox.boc.com)  
[gramsay@aquarius.co.za](mailto:gramsay@aquarius.co.za)  
[reotshepile@bafokeng.com](mailto:reotshepile@bafokeng.com)  
[ernie@bafokeng.com](mailto:ernie@bafokeng.com)  
[dhsetshedi@webmail.co.za](mailto:dhsetshedi@webmail.co.za)  
[michael.moalosi@implats.co.za](mailto:michael.moalosi@implats.co.za)  
[iti31424@mweb.co.za](mailto:iti31424@mweb.co.za)  
[fran.graham@implats.co.za](mailto:fran.graham@implats.co.za)  
[engoepe@num.org.za](mailto:engoepe@num.org.za)  
[bashimanes@telkomsa.com](mailto:bashimanes@telkomsa.com)  
[mphakoe@rtbcc.co.za](mailto:mphakoe@rtbcc.co.za)  
[maos@gwisa.com](mailto:maos@gwisa.com)  
[orestnbeduwa@yahoo.com](mailto:orestnbeduwa@yahoo.com)  
[jbpetele@gmail.com](mailto:jbpetele@gmail.com)  
[mbokodo2003@yahoo.com](mailto:mbokodo2003@yahoo.com)  
[glongomo@xstrata.co.za](mailto:glongomo@xstrata.co.za)  
[ssematu@rtbcc.co.za](mailto:ssematu@rtbcc.co.za)  
[teb83moverscratex@webmail.co.za](mailto:teb83moverscratex@webmail.co.za)  
[mnape@xstrata.co.za](mailto:mnape@xstrata.co.za)  
[ABritz@Angloplat.com](mailto:ABritz@Angloplat.com)  
[bdvillie@amplats.co.za](mailto:bdvillie@amplats.co.za)  
[malanp@angloplat.co.za](mailto:malanp@angloplat.co.za)  
[fire@rtbcc.co.za](mailto:fire@rtbcc.co.za)  
[editor@lesedingmedia.co.za](mailto:editor@lesedingmedia.co.za)  
[aerasmus@angloplat.com](mailto:aerasmus@angloplat.com)  
[fikeinvestm@telkomsa.net](mailto:fikeinvestm@telkomsa.net)  
[plouw@rustenburg.gov.za](mailto:plouw@rustenburg.gov.za)  
[thehartleys@intekom.co.za](mailto:thehartleys@intekom.co.za)  
[andia@mandirk.co.za](mailto:andia@mandirk.co.za)

[olgachauke@webmail.co.za](mailto:olgachauke@webmail.co.za)  
[malakia@rustenburg.gov.za](mailto:malakia@rustenburg.gov.za)  
[Aaron.kharivhe@dme.gov.za](mailto:Aaron.kharivhe@dme.gov.za)  
[billyn30@hotmail.com](mailto:billyn30@hotmail.com)  
[dialehb@absamail.co.za](mailto:dialehb@absamail.co.za)  
[patkhu@webmail.co.za](mailto:patkhu@webmail.co.za)  
[jkboase@yahoo.com](mailto:jkboase@yahoo.com)  
[tsogobuilding@webmail.co.za](mailto:tsogobuilding@webmail.co.za)  
[james.baloyi@gmail.com](mailto:james.baloyi@gmail.com)  
[petlelejb@yahoo.com](mailto:petlelejb@yahoo.com)  
[kagiso.senne@bafokeng.com](mailto:kagiso.senne@bafokeng.com)  
[bruno@bafokeng.com](mailto:bruno@bafokeng.com)  
[khavenga@rustenburg.gov.za](mailto:khavenga@rustenburg.gov.za)  
[bleketi@rtbcc.co.za](mailto:bleketi@rtbcc.co.za)  
[davidmahube@mweb.co.za](mailto:davidmahube@mweb.co.za)  
[tyira@amplats.co.za](mailto:tyira@amplats.co.za)  
[george@bafokengsports.co.za](mailto:george@bafokengsports.co.za)  
[thabomakgale@bafokeng.com](mailto:thabomakgale@bafokeng.com)  
[alalla@angloplat.com](mailto:alalla@angloplat.com)  
[jselect@mweb.co.za](mailto:jselect@mweb.co.za)  
[mw.maria@mweb.co.za](mailto:mw.maria@mweb.co.za)  
[damariamatshaba@yahoo.com](mailto:damariamatshaba@yahoo.com)  
[bstols@rtbcc.co.za](mailto:bstols@rtbcc.co.za)  
[psebegoe@rtbcc.co.za](mailto:psebegoe@rtbcc.co.za)  
[mmashile@rtbcc.co.za](mailto:mmashile@rtbcc.co.za)  
[mentor@nwpg.gov.za](mailto:mentor@nwpg.gov.za)  
[sanbow@wesizwe.com](mailto:sanbow@wesizwe.com)  
[RalkoaW@dwa.gov.za](mailto:RalkoaW@dwa.gov.za)  
[radebeh@bdfm.co.za](mailto:radebeh@bdfm.co.za)

[marapoo@rustenburg.gov.za](mailto:marapoo@rustenburg.gov.za)  
[gking@xstrata.co.za](mailto:gking@xstrata.co.za)  
[dudu.ratshefola@angloamerican.com](mailto:dudu.ratshefola@angloamerican.com)  
[dpistorius@xstrata.co.za](mailto:dpistorius@xstrata.co.za)  
[lizette@mandirk.co.za](mailto:lizette@mandirk.co.za)  
[lekutame@nwpg.gov.za](mailto:lekutame@nwpg.gov.za)  
[jcritch@randwater.co.za](mailto:jcritch@randwater.co.za)  
[jpieters@rtbcc.co.za](mailto:jpieters@rtbcc.co.za)  
[bernardm@angloplat.com](mailto:bernardm@angloplat.com)  
[tmolete@rustenburg.gov.za](mailto:tmolete@rustenburg.gov.za)  
[mzitha@angloplat.com](mailto:mzitha@angloplat.com)  
[jrobinson@angloplat.com](mailto:jrobinson@angloplat.com)  
[markr@angloplat.com](mailto:markr@angloplat.com)  
[psoaisa@amplats.co.za](mailto:psoaisa@amplats.co.za)  
[miguel.dossantos@tenovagroup.com](mailto:miguel.dossantos@tenovagroup.com)  
[emfolwe@rustenburg.gov.za](mailto:emfolwe@rustenburg.gov.za)  
[jgreyling@rustenburg.gov.za](mailto:jgreyling@rustenburg.gov.za)  
[aventer@rtbcc.co.za](mailto:aventer@rtbcc.co.za)  
[pviviers@angloplat.com](mailto:pviviers@angloplat.com)  
[lkalayamotho@oldmutualpfa.com](mailto:lkalayamotho@oldmutualpfa.com)  
[Jacobus@ecoserv.com](mailto:Jacobus@ecoserv.com)  
[mmalebad@angloplat.com](mailto:mmalebad@angloplat.com)  
[tphumo@angloplat.com](mailto:tphumo@angloplat.com)  
[eheymann@angloplat.com](mailto:eheymann@angloplat.com)  
[rgoris@angloplat.com](mailto:rgoris@angloplat.com)  
[pkhunou@amplats.co.za](mailto:pkhunou@amplats.co.za)  
[ishmaels@angloplat.com](mailto:ishmaels@angloplat.com)  
[amiles@angloplat.com](mailto:amiles@angloplat.com)  
[kmogoera@angloplat.com](mailto:kmogoera@angloplat.com)

[bmurphy@angloplat.com](mailto:bmurphy@angloplat.com)

[sdejager01@angloplat.com](mailto:sdejager01@angloplat.com)

[dowdeswell@angloplat.com](mailto:dowdeswell@angloplat.com)

[bbierman@angloplat.com](mailto:bbierman@angloplat.com)

[cbadenhorst@angloplat.com](mailto:cbadenhorst@angloplat.com)

Subject: BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION



WSP Ref: 43849  
NWDEDECT Ref: NWP/EIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMPr) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT) (Ref. NWP/EIA/12/2014).

**Public review of the Draft Basic Assessment Report and Environmental Management Programme**

The Draft BAR and EMPr have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mutau)
- Rustenburg Public Library (contact person: Miss Pienaar)
- Rustenburg Platinum Mines SHER Offices (contact person: Receptionist)
- WSP website ([www.wspenvironmental.co.za/publicreview](http://www.wspenvironmental.co.za/publicreview))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

**Claire Dendy  
Consultant**



Tel: 011 361 1334  
Fax: 086 505 3939  
Email: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)

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.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Global Inc.  
Offices worldwide

Kliffontein P. 1

Date/Time: 23.Jul. 2014 12:02

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
4902 Memory TX	00119691642	P. 1	E-3) 3) 3) 3) 3)	P. 1
	00113735530		OK	
	00145661326		E-3) 3) 3) 3) 3)	P. 1
	00866115996		OK	
	00114636176		OK	
	00145661297		E-2) 2) 2) 2) 2)	P. 1
	00866181455		OK	
	00145903497		OK	
	00145903047		OK	
	00145965390		OK	
	00145697033		OK	

Reason for error

E. 1) Hang up or line fail

E. 3) No answer

E. 5) Exceeded max. E-mail size

E. 2) Busy

E. 4) No facsimile connection



WSP Ref: 43849  
NWDEECT Ref: NWP/EIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMP) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDEECT)) (Ref. NWP/EIA/12/2014).

**Public review of the Draft Basic Assessment Report and Environmental Management Programme**

The Draft BAR and EMP have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mutwa)
- Rustenburg Public Library (contact person: Miss Pienaar)
- Rustenburg Platinum Mines SHEER Offices (contact person: Receptionist)
- WSP website ([www.wspenviro.com/infocentre](http://www.wspenviro.com/infocentre))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

Claire Dendy  
Consultant

Tel: 011 351 1334  
Fax: 080 635 3939  
Email: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)

WSP Environmental (Pty) Ltd  
WSP Group  
Bancroft Park  
103 Spangmo Drive  
Bryanston, 2021  
Tel: 011 351 1334  
Fax: 011 351 1335  
www.wspenviro.com  
Pretoria, South Africa

\* \* \* Communication Result Report ( 23. Jul. 2014 16:41 ) \* \* \*

1) WSP ENVIRO  
2)

Date/Time: 23. Jul. 2014 12:16

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
4908 Memory TX	00145903388	P. 1	OK	
	00867602441		OK	
	00865556593		OK	
	00145911161		OK	
	00145911793		OK	
	00862974971		OK	
	00145914567		OK	
	00145924398		OK	
	00145923428		E-3) 3) 3) 3) 3)	P. 1
	0118342379		E-3) 3) 2) 3) 3)	P. 1
	00184879831		E-2) 2) 2) 2) 2)	P. 1

Reason for error  
E. 1) Hang up or line fail  
E. 3) No answer  
E. 5) Exceeded max. E-mail size

E. 2) Busy  
E. 4) No facsimile connection



WSP Ref: 43649  
NWDETECT Ref: NWP/EIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED; RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMP) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) (Ref. NWP/EIA/12/2014).

Public review of the Draft Basic Assessment Report and Environmental Management Programme

The Draft BAR and EMPs have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mutau)
- Rustenburg Public Library (contact person: Miss Pienaar)
- Rustenburg Platinum Mines SHER Offices (contact person: Receptionist)
- WSP website ([www.wspenvironmental.co.za/publicreview](http://www.wspenvironmental.co.za/publicreview))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

Claire Dendy  
Consultant

Tel: 011 361 1334  
Fax: 085 605 0909  
Email: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)

WSP Environmental (Pty) Ltd  
WSP House  
WSP Group Plaza  
181 Breyten Road  
Brynerton, 0151  
Tel: 011 361 1334  
Fax: 085 605 0909  
100 Breyten Road, 181 B  
100 Breyten Road, 181 B  
100 Breyten Road, 181 B

Date/Time: 23. Jul. 2014 11:57

File No.	Mode	Destination	Pg (s)	Result	Page Not Sent
4900	Memory TX	00145906002	P. 1	E-3) 3) 3) 3) 3)	P. 1
		00145928861		OK	
		00145971030		E-3) 3) 3) 3) 3)	P. 1
		00148368680		E-2) 2) 2) 2) 2)	P. 1
		00145914979		OK	
		00145664418		E-2) 2) 2) 2) 2)	P. 1
		00145653921		E-2) 2) 2) 2) 2)	P. 1
		00145981552		E-3) 3) 3) 3) 3)	P. 1
		00145981554		E-3) 3) 3) 3) 3)	P. 1

Reason for error  
 E. 1) Hang up or line fail  
 E. 3) No answer  
 E. 5) Exceeded max. E-mail size

E. 2) Busy  
 E. 4) No facsimile connection



WSP Ref: 43849  
 NWDEDECT Ref. NWPEIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMP) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDEDECT)) (ref. NWPEIA/12/2014).

Public review of the Draft Basic Assessment Report and Environmental Management Programme

The Draft BAR and EMP have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mutau)
- Rustenburg Public Library (contact person: Misa Piensaar)
- Rustenburg Platinum Mines SHER Offices (contact person: Receptionist)
- WSP website (www.wspenvironmental.co.za/publicreview)

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

Claire Dendy  
 Consultant

Tel: 011 361 1334  
 Fax: 085 505 3859  
 Email: Claire.Dendy@wspgroup.co.za

WSP Environmental (Pty) Ltd  
 WSP House  
 100 Wynwood Drive  
 Sandton 2001  
 Tel: +27 11 331 3333  
 Fax: +27 11 331 3331  
 www.wspgroup.co.za  
 Reg No: 2004/0276452

WSP Group Inc  
 Other services

Date/Time: 23. Jul. 2014 12:19

File No.	Mode	Destination	Pg (s)	Result	Page Not Sent
4909	Memory TX	00122531026	P. 1	E-3) 3) 2) 3) 3)	P. 1
		00122532761		OK	
		00145923553		OK	
		00145981153		OK	
		00145903006		OK	
		00145671591		E-2) 2) 2) 2) 2)	P. 1
		00145671415		E-2) 2) 2) 2) 2)	P. 1
		00145970289		OK	
		00145780364		E-2) 2) 2) 2) 2)	P. 1
		00145974689		OK	
		00145697056		OK	
		00145652843		E-3) 3) 3) 3) 3)	P. 1

Reason for error

E. 1) Hang up or line fail  
E. 3) No answer  
E. 5) Exceeded max. E-mail size

E. 2) Busy  
E. 4) No facsimile connection



WSP Ref: 43849  
NWDETECT Ref: NWP/EIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES - RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMPr) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) (Ref. NWP/EIA/12/2014).

Public review of the Draft Basic Assessment Report and Environmental Management Programme

The Draft BAR and EMPr have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mutau)
- Rustenburg Public Library (contact person: Miss Pieterse)
- Rustenburg Platinum Mines OICR Offices (contact person: Receptionist)
- WSP website (www.wspenvironmental.co.za/publicreview)

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

Claire Dendy  
Consultant

Tel: 011 361 1334  
Fax: 086 505 3539  
Email: Claire.Dendy@wspgroup.co.za

WSP Environmental (Pty) Ltd  
WSP Group  
Rustenburg Phone  
141 Spangweg Drive  
Rustenburg, 0851  
08 662 5071 5061 1334  
Fax 08 662 5071 5061 3539  
www.wspenvironmental.co.za  
Reg. No. 19530/2012

WSP Group Inc.  
10000 WSP Drive

\* \* \* Communication Result Report ( 23. Jul. 2014 17:46 ) \* \* \*

1) WSP ENVIRO  
2)

Date/Time: 23. Jul. 2014 12:22

File No.	Mode	Destination	Pg (s)	Result	Page Not Sent
4910	Memory TX	00145654709	P. 1	E-2) 2) 2) 3) 2)	P. 1
		00145921869		OK	
		00145903540		OK	
		00145697274		OK	
		00114986126		E-2) 2) 2) 2) 2)	P. 1
		00145903430		OK	
		00117894811		E-2) 2) 2) 2) 2)	P. 1
		00125440120		E-2) 2) 2) 2) 2)	P. 1
		00145974635		OK	
		00113735666		OK	
		00862467279		OK	
		00114930600		OK	
		00183816953		E-2) 2) 2) 2) 2)	P. 1

## Reason for error

E. 1) Hang up or line fail  
E. 3) No answer  
E. 5) Exceeded max. E-mail sizeE. 2) Busy  
E. 4) No facsimile connection



WSP Ref: 43849  
NWDETECT Ref: NWP/EIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGIO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMP) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) (Ref: NWP/EIA/12/2014).

**Public review of the Draft Basic Assessment Report and Environmental Management Programme**

The Draft BAR and EMPs have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mulaui)
- Rustenburg Public Library (contact person: Miss Piensa)
- Rustenburg Platinum Mines SHER Offices (contact person: Receptionist)
- WSP website ([www.wspenvironmental.co.za/publicreview](http://www.wspenvironmental.co.za/publicreview))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

Claire Dendy  
Consultant

Tel: 011 361 1334  
Fax: 083 505 3639  
Email: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)

WSP Environmental (Pty) Ltd  
1177 Route  
Boksbaai Place  
1015 Boksbaai  
Boksbaai, 2011  
Tel: +27 21 951 1411  
Fax: +27 21 951 1411  
info@wspgroup.co.za  
Reg. No. 2002/0270947

WSP 2014/06  
01/06/2014

1) WSP ENVIRO  
2)

Date/Time: 23. Jul. 2014 12:09

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
4905 Memory TX	00145679273	P. 1	E-3) 3) 3) 3) 3)	P. 1
	00145903055		OK	
	00117375756		E-2) 2) 2) 2) 2)	P. 1
	00145914455		OK	
	00113735862		OK	
	00145982191		E-3) 3) 3) 3) 3)	P. 1
	00145679190		OK	
	00145914684		OK	
	00117375759		E-2) 2) 2) 2) 2)	P. 1
	00145661311		E-2) 2) 2) 2) 2)	P. 1
	00117375145		E-2) 2) 2) 2) 2)	P. 1

Reason for error  
E. 1) Hang up or line fail  
E. 3) No answer  
E. 5) Exceeded max. E-mail size

E. 2) Busy  
E. 4) No facsimile connection



WSP Ref: 43849  
NWDECT Ref: NWP/EIA/12/2014  
23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMP) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDEECT) (Ref. NWP/EIA/12/2014).

Public review of the Draft Basic Assessment Report and Environmental Management Programme

The Draft BAR and EMP have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mulau)
- Rustenburg Public Library (contact person: Mies Pienaar)
- Rustenburg Platinum Mines SHER Offices (contact person: Receptionist)
- WSP website ([www.wspenvironmental.co.za/publicreview](http://www.wspenvironmental.co.za/publicreview))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

Claira Dendy  
Consultant

Tel: 011 331 1334  
Fax: 086 505 3939  
Email: [Claira.Dendy@wspgroup.co.za](mailto:Claira.Dendy@wspgroup.co.za)

WSP Environmental (Pty) Ltd  
100% Black Owned  
Banking Partner  
115 Brydone Drive  
Burgersdorp, 2012  
Tel: +27 (0)11 331 1334  
Fax: +27 (0)11 331 1337  
E: [info@wspenvironmental.co.za](mailto:info@wspenvironmental.co.za)  
Reg. No. 2002/024097

WSP Group Inc.  
11000 17th Ave. S.W.



Date/Time: 23. Jul. 2014 12:11

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
4906 Memory TX	00113735219	P. 1	OK	
	00113735846		OK	
	00145915008		E-2) 2) 2) 2) 2)	P. 1
	00145982039		OK	
	00145731606		E-2) 2) 2) 2) 2)	P. 1
	00113735436		OK	
	00113735894		OK	
	00145664368		E-2) 2) 2) 2) 2)	P. 1
	00145661296		E-3) 3) 3) 3) 3)	P. 1
	00145363652		E-3) 3) 3) 3) 3)	P. 1
	00145903420		E-3) 3) 2) 2) 2)	P. 1

Reason for error  
E. 1) Hang up or line fail  
E. 3) No answer  
E. 5) Exceeded max. E-mail size

E. 2) Busy  
E. 4) No facsimile connection



WSP Ref: 43849  
NWDEECT Ref. NWP/EIA/12/2014  
23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED; RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMP) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDEECT) (Ref. NWP/EIA/12/2014).

**Public review of the Draft Basic Assessment Report and Environmental Management Programme**

The Draft BAR and EMP have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mutau)
- Rustenburg Public Library (contact person: Miles Plonsar)
- Rustenburg Platinum Mines SHER Offices (contact person: Receptionist)
- WSP website ([www.wspenvironmental.co.za/publicreview](http://www.wspenvironmental.co.za/publicreview))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

**Clara Dendy**  
Consultant

Tel: 011 361 1334  
Fax: 086 505 3030  
Email: [Clara.Dendy@wspgroup.co.za](mailto:Clara.Dendy@wspgroup.co.za)

WSP Environmental (Pty) Ltd  
1011-1012  
WSP Group  
1011-1012  
1011-1012  
Tel: +27 21 554 1300  
Fax: +27 21 554 1301  
WSP Environmental (Pty) Ltd  
Reg. No. 2004/0151027



Date/Time: 23. Jul. 2014 11:59

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
4901 Memory TX	00145922910	P. 1	E-2) 2) 3) 3) 3)	P. 1
	00145926298		E-1) 1) 1) 3) 1)	P. 1
	00145927596		OK	
	00184629036		E-2) 2) 2) 2) 2)	P. 1
	00145972384		E-2) 2) 2) 2) 2)	P. 1
	00145291963		E-2) 2) 2) 2) 2)	P. 1
	00145928816		E-3) 3) 3) 3) 3)	P. 1
	00145903421		E-3) 3) 3) 3) 2)	P. 1
	00123485668		E-2) 2) 2) 2) 2)	P. 1

Reason for error  
 E. 1) Hang up or line fail  
 E. 3) No answer  
 E. 5) Exceeded max. E-mail size

E. 2) Busy  
 E. 4) No facsimile connection



WSP Ref: 43849  
 NWDETECT Ref. NWP/EIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED; RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMP) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDETECT) (Ref. NWP/EIA/12/2014).

**Public review of the Draft Basic Assessment Report and Environmental Management Programme**

- The Draft BAR and EMP have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:
- Rustenburg Platinum Mines Recreation Club (contact person: Steven Nutau)
  - Rustenburg Public Library (contact person: Miss Pienaar)
  - Rustenburg Platinum Mines SHER Offices (contact person: Receptionist)
  - WSP website ([www.wspenvironmental.co.za/publicreview](http://www.wspenvironmental.co.za/publicreview))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

Claire Dandy  
 Consultant

Tel: 011 361 1334  
 Fax: 095 505 5939  
 Email: [Claire.Dandy@wspgroup.co.za](mailto:Claire.Dandy@wspgroup.co.za)

WSP Environmental (Pty) Ltd  
 WSP House  
 195 Smalwag Drive  
 Midrand, 2013  
 Tel: +27 (0) 11 361 1334  
 Fax: +27 (0) 11 361 1334  
 Registration No. 2013/0000000/07  
 Reg. No. WSP/07/0000000  
 WSP (Pty) Ltd  
 Office No. 195

Date/Time: 23. Jul. 2014 12:06

File No.	Mode	Destination	Pg (s)	Result	Page Not Sent
4904	Memory TX	00145332014	P. 1	E-3) 3) 3) 3) 3)	P. 1
		00145903111		E-3) 3) 3) 2) 2)	P. 1
		00145661308		OK	
		00145661320		E-2) 2) 2) 2) 2)	P. 1
		00866346044		OK	
		00145363701		E-2) 2) 2) 2) 2)	P. 1
		00117262848		E-2) 2) 2) 2) 2)	P. 1
		00117263121		E-2) 2) 2) 2) 2)	P. 1
		00865124158		OK	
		00113735249		OK	
		00145903415		E-3) 3) 2) 2) 2)	P. 1

Reason for error  
 E. 1) Hang up or line fail  
 E. 3) No answer  
 E. 5) Exceeded max. E-mail size  
 E. 2) Busy  
 E. 4) No facsimile connection



WSP Ref: 43849  
 NWDEECT Ref: NWP/EIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMPr) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDEECT) (Ref. NWP/EIA/12/2014).

Public review of the Draft Basic Assessment Report and Environmental Management Programme

The Draft BAR and EMPr have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mulu)
- Rustenburg Public Library (contact person: Miss Pieterse)
- Rustenburg Platinum Mines SHER Offices (contact person: Receptionist)
- WSP website ([www.wspenvironmental.co.za/publicreview](http://www.wspenvironmental.co.za/publicreview))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

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

Kind regards,

**Claire Dendy**  
 Consultant

Tel: 011 301 1334  
 Fax: 085 505 3939  
 Email: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)

WSP Environmental (Pty) Ltd  
 WSP Group  
 Registration No. 2003/0001000/08  
 118 Bayswater Drive  
 Bayswater, 2014  
 Tel: +27 (0)21 561 1981  
 Fax: +27 (0)21 561 1981  
<http://www.wspgroup.co.za>  
 Reg No: TW02041021F

WSP Group Ltd  
 Office 2008-106

Date/Time: 23. Jul. 2014 12:13

File No.	Mode	Destination	Pg (s)	Result	Page Not Sent
4907	Memory TX	00145380806	P. 1	E-2) 2) 2) 2) 2)	P. 1
		00145920181		E-3) 3) 3) 3) 3)	P. 1
		00116820624		E-3) 3) 3) 3) 3)	P. 1
		00145979261		E-3) 2) 3) 3) 3)	P. 1
		00145970296		OK	
		00145903070		OK	
		00183873144		E-2) 2) 2) 2) 2)	P. 1
		00145903003		OK	
		00112805505		OK	
		00112686885		E-2) 2) 2) 2) 2)	P. 1
		00115972241		E-2) 2) 2) 2) 2)	P. 1

Reason for error  
E. 1) Hang up or line fail  
E. 3) No answer  
E. 5) Exceeded max. E-mail size

E. 2) Busy  
E. 4) No facsimile connection



WSP Ref: 43849  
NWDEECT Ref. NWP/EIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMP) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDEECT) (Ref. NWP/EIA/12/2014).

Public review of the Draft Basic Assessment Report and Environmental Management Programme

The Draft BAR and EMP have been placed at the following venues for 40 days, from 26 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mutau)
- Rustenburg Public Library (contact person: Mize Plommar)
- Rustenburg Platinum Mines SHER Offices (contact person: Receptionist)
- WSP website ([www.wspenvironmental.co.za/publicreview](http://www.wspenvironmental.co.za/publicreview))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

Claire Dendy  
Consultant

Tel: 011 351 1334  
Fax: 085 505 3939  
Email: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)

WSP Environmental (Pty) Ltd  
1011 10th Floor  
101 Wynnton Bldg  
Brynerton, 2817  
Tel: +27 26 3 31 1288  
Fax: +27 26 3 31 1284  
WSP Environmental  
Reg No: 2002/0001027  
101 Wynnton Bldg  
Brynerton, 2817

Date/Time: 23. Jul. 2014 11:54

File No. Mode	Destination	Pg (s)	Result	Page Not Sent
4899 Memory TX	00145914810	P. 1	OK	
	00145914267		E-2) 2) 2) 2) 2)	P. 1
	00145982230		E-2) 2) 2) 2) 2)	P. 1
	00145380813		E-2) 2) 2) 2) 2)	P. 1
	00145903015		OK	
	00145913924		E-2) 2) 2) 2) 2)	P. 1
	00866047477		OK	
	00866649511		OK	
	00145981850		OK	
	00145903418		OK	

Reason for error  
 E. 1) Hang up or line fail  
 E. 2) Busy  
 E. 3) No answer  
 E. 4) No facsimile connection  
 E. 5) Exceeded max. E-mail size



WSP Ref: 43849  
 NWDEECT Ref: NWP/EIA/12/2014

23 July 2014

Dear Stakeholder,

**BASIC ASSESSMENT PROCESS FOR THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR AND ASSOCIATED INFRASTRUCTURE AT ANGLO AMERICAN PLATINUM LIMITED: RUSTENBURG PLATINUM MINES – RUSTENBURG SECTION**

Notice of the availability of the Draft Basic Assessment Report (BAR) and Draft Environmental Management Programme (EMP) for public review is given in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), as amended, and the Environmental Impact Assessment Regulations 2010 (North West Department of Economic Development, Environment, Conservation and Tourism (NWDEECT) (Ref. NWP/EIA/12/2014).

Public review of the Draft Basic Assessment Report and Environmental Management Programme

The Draft BAR and EMP have been placed at the following venues for 40 days, from 25 July 2014 to 03 September 2014, for public comment:

- Rustenburg Platinum Mines Recreation Club (contact person: Steven Mutau)
- Rustenburg Public Library (contact person: Elise Pienaar)
- Rustenburg Platinum Mines SHEH Offices (contact person: Receptionist)
- WSP website ([www.wspenvironmental.co.za/publicreview](http://www.wspenvironmental.co.za/publicreview))

Kindly ensure that all comments are submitted to the contact details provided herewith, by 03 September 2014.

Should you have any queries/comments please do not hesitate to contact the undersigned.

Kind regards,

Claire Dendy  
 Consultant

Tel: 011 351 1334  
 Fax: 086 505 3039  
 Email: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za)

WSP Environmental (Pty) Ltd  
 WSP House  
 101 Bessie Drive  
 Blydenburg, 0151  
 Tel: +27 (0)11 351 1334  
 Fax: +27 (0)11 351 1335  
[www.wspgroup.co.za](http://www.wspgroup.co.za)  
 P.O. Box 101010  
 Johannesburg, 1501

[← SERVICES](#)[ALL SERVICES A-Z](#)[PUBLIC DOCUMENTS](#)

## PUBLIC DOCUMENTS

As part of our Environment & Energy team's service to clients, certain documentation must be made available for public review. These documents are hosted here for the duration of the public review period.

**Realignment of Main Road 49/2 between Nongoma and Ngome, KwaZulu-Natal – Department of Transport**

Contact Person: Ziyaad Kadwa | E: [Ziyaad.Kadwa@wspgroup.co.za](mailto:Ziyaad.Kadwa@wspgroup.co.za) | T: +27 (0) 31 240 8860 

Public review period: 14 July 2014 to 25 August 2014

- [Download draft basic assessment report](#)
- [Download Appendix D – Heritage Assessment](#)
- [Download Appendix D – Vegetation and Wetland Assessment](#)
- [Download Appendix E – Comments and Response Report](#)
- [Download Appendix F – Draft Environmental Management Programme \(EMP\)](#)

**The Decommissioning of the Klipfontein Concentrator: Draft Basic Assessment Report - Anglo American Platinum Limited: Rustenburg Platinum Mines**

Contact person (WSP Consultant): Claire Dendy | E: [Claire.Dendy@wspgroup.co.za](mailto:Claire.Dendy@wspgroup.co.za) | T: +27 11 361 1380 

Public review period: 25 July 2014 to 03 September 2014

[Download the report - 4 MB](#)

[Share](#)    

### WSP – A WORLDWIDE PRESENCE

[GLOBAL](#)  
[AFRICA](#)[MIDDLE EAST](#)  
[EUROPE](#)

### CONTACT

[Johannesburg \(Bryanston\)](#)  
[WSP House, Bryanston Place](#)

### QUICK LINKS

[CAREERS](#)

Frederick R. Motsepe

# Registration and Comments Sheet

## The Proposed Decommissioning of the Klipfontein Concentrator and Associated Infrastructure at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section (NWDEDECT Reference: NWP/EIA/12/2014)

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

**Claire Dendy**  
**WSP Environmental (Pty) Ltd**  
 Address: P.O. Box 98867, Rivonia, 2151  
 Tel: 011 361 1334  
 Fax: 011 361 1381  
 Email: Claire.Dendy@WSPGroup.co.za

Please insert your personal details below:

Name:	FREDERICK R. MOTSEPE			
Organisation & Designation:	FRM MAINTENANCE AND CLEANING SERVICES/CEO			
Address:	335 MAKGOTLHE SECTION PHOKENG LUKA VILLAGE			
Tel:	074 837 0072 / 072 380 1770			
Fax:	086 560 4389			
E-mail:	ramseymotsepe@yahoo.com			
I would like my notifications by: (please tick the appropriate box)	Letter (mail)	E-mail <input checked="" type="checkbox"/>	Fax	Telephone

In terms of GNR 543 (BA process regulations) please disclose below any direct business, financial, personal or other interest that you may have in the granting or rejection of the application for environmental authorisation:

FACILITIES MAINTENANCE, ELECTRICAL REPAIRS, PAINTING, PLUMBING,  
 TILING, WATERPROOFING, OFFICE SETTING, STATIONARY SUPPLIES,  
 CLEANING, GARDEN MAINTENANCE

Please list your interest in the project and comments below:

ELECTRICITY  
 IT SOLUTIONS  
 PLUMBING  
 PAINTING  
 TILING  
 OFFICE SETTING  
 STATIONING  
 STATIONARY SUPPLIES  
 FLOOD CONTROL  
 CLEANING SERVICES  
 FACILITIES MANAGEMENT



O'Brien, Jared

---

From: Khalid Patel <khalid@eims.co.za>  
Sent: 19 August 2014 04:12 PM  
To: Sibiya, Brenda; O'Brien, Jared  
Cc: Holme, Brent; Dendy, Claire; 'Francois'; Teresa@moumo.co.za  
Subject: RE: Stakeholder notification

Hi

Thank you for your notification. Please register me on behalf of the Royal Bafokeng Nation, the legal landowner on which the proposed decommissioning activity is planned to take place as an I&AP.

The background document outlines clearly the proposed activity and process going forward. In addition, it states that the project location is considered a " hotspot for contamination" as a result of historic activities. Please could elaborate on the contamination specifically the following:

1. Provide me with more information on the contaminants including the degree of contamination on the property ( in this regard please send me a copy of the contamination assessment undertaken and the proposed remediation assessment that should follow, inclusive of expected costs;
2. Clearly explain how this contaminated property will interact with the new NEMWA Contaminated Land Regulations promulgated in May 2014 and if this property will have to be registered ?

Kind regards,

Khalid

---

From: Sibiya, Brenda [<mailto:Brenda.Sibiya@WSPGroup.co.za>]  
Sent: 10 July 2014 09:58 AM  
To: O'Brien, Jared  
Cc: Holme, Brent; Dendy, Claire  
Subject: Re: Stakeholder notification

Dear Stakeholder,

The attached notification letter refers to the Basic Assessment Process for the Decommissioning of the Klipfontein Concentrator and Associated Infrastructure at Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section (NWDEDECT Reference Number: NWP/EIA/12/2014).

Should you have any comments or concerns please do not hesitate to contact the undersigned.

Regards.

Claire Dendy  
Assistant Consultant



**WSP, Environment & Energy, Africa**

WSP House, Bryanston Place, 199 Bryanston Drive, Bryanston, 2191, South Africa

Tel:

Mob:

Fax: +27 11 361 1301

WSP Reference no: 43849  
NWDEDECT Reference no: NWP/EIA/12/2014

**Environmental Impact Management Services (Pty) Ltd**

Block 5  
Fernridge Office Park  
5 Hunter Road  
Ferndale  
Randburg  
South Africa

08 September 2014

Dear Khalid Patel,

**RE: COMMENTS RAISED BY ENVIRONMENTAL IMPACT MANAGEMENT SERVICES (PTY) LTD ON BEHALF OF THE ROYAL BAFOKENG NATION, THE LEGAL LANDOWNERS ON WHICH THE KLIPFONTEIN CONCENTRATOR IS LOCATED**

Thank you for providing comments on the draft Basic Assessment Report (BAR). These comments, together with responses from WSP will be presented in the final BAR for submission to the Competent Authority. For ease of reference, WSP's responses are also included below.

**1. Register Khalid Patel (Khalid) on the BA process stakeholder database on behalf of the RBN (the legal landowner on which the proposed decommissioning activity is planned)**

Portion 4 of the Farm Klipfontein 300 JQ is owned by the RBN (based on communication with Andre Britz, Rustenburg Platinum Mines (RPM) Land Manager). RBN is registered on the project stakeholder database and has been since project initiation.

**2. Provide more information on the contaminants present on the site including the degree of contamination on the property**

It is noted that the current application for Environmental Authorisation, and the associated draft BAR, relates to the decommissioning of facilities which are located on contaminated land. The application does not seek to apply for remediation nor is it intended to address contaminated land issues on the site. These will be dealt with separately by RPM in accordance with the relevant statutory requirements. Notwithstanding this, for contextual purposes, based on a phase 1 site characterisation carried out by WSP in 2011, contamination on the Klipfontein Concentrator site was broadly characterised as follows:

- Minor hydrocarbon spillages were identified associated with the dedicated oil storage bunded area.
- The presence of tar derivatives in one suspected remaining tar dam was identified as a potential contamination source. However, these were anticipated relatively immobile due to their physical properties and the attenuation tendency of the underlying soil. *It is noted that subsequent to the Phase 1 report, RPM has investigated the suspected tar pit area which indicates that only residual tar is present.*
- Based on regional soil distribution, geology, and geohydrology, on site conditions, and regional land use, no significant groundwater contamination was expected.
- The site is reasonably well isolated in terms of potential pathways for contaminant migration.

**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.wspgroup.co.za>  
Reg. No: 1995/08790/07

WSP Global Inc.  
Offices worldwide

3. A copy of a land contamination assessment undertaken on the Klipfontein property and the proposed remediation assessment that should follow, inclusive of expected costs.
4. An explanation as to how the contaminated property will interact with the newly promulgated National Environmental Management Act: Waste Amendment Act (No. 26 of 2014) (NEM:WAA) and the promulgation of Part 8 of the National Environmental Management Act: Waste Act (No. 59 of 2008) (NEM:WA) (dated: 02 May 2014).
5. Has the property been registered with the Department as contaminated land?

As noted above that the current application for Environmental Authorisation relates to the decommissioning of facilities. The approach to the assessment and potential remediation of contamination will be addressed as a separate process by RPM i.e. through the mine closure planning process (EMPR) and the provisions of Part 8 of the NEMWA.

The site has not been registered as contaminated land. The site has not been proclaimed as an Investigation Area under Section 8.

RPM is committed to ongoing communication with RBN regarding matters relating to contamination and remediation, as well as complying with the associated statutory requirements. However, as indicated, this falls outside of the current BA process for decommissioning.

Regards,

A handwritten signature in black ink, appearing to read 'Jared O'Brien', written over a horizontal line.

**Jared O'Brien**  
**Environmental Consultant**

Tel: 011 361 1396

Fax: 086 505 3939

Email: JaredO'Brien@wspgroup.co.za

# RUSTENBURG PLATINUM MINES: THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR PROJECT LOCATED IN THE NORTH WEST PROVINCE

## ISSUES RAISED BY VARIOUS STAKEHOLDERS (INCLUDING AUTHORITIES) AND ASSOCIATED MANAGEMENT RESPONSES – BASIC ASSESSMENT PROCESS

ISSUES AND RESPONSES							
Issue reference	Stakeholder	Issue	Source	Date	Responses	Action Plan	
						Plan	Responsible person
1.	Richard Edward De Lange (Stakeholder)	Submission of his CV.	Email	19/07/2014	WSP will forward the CV to the project applicant for consideration.	WSP to forward the CV to Human Resources at RPM.	WSP/RPM (Immediate)
2.	Phumudzo Nethwazi (North West DMR)	Phumudzo wished to remind WSP that the Department of Mineral Resources (DMR) does not provide an opinion with respect to draft documents. DMR will only comment on the final version should it be submitted to the DMR. He further advised to make sure that such a document should be compiled in compliance with the prescribed DMR template.	Email	04/08/2014	WSP is undertaking a Basic Assessment (BA) process in order to obtain environmental authorisation in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA). As such, the DMR is considered a commenting authority during this process. The notification email was sent to DMR on 18 July 2014 in order to notify DMR of the proposed decommissioning project. The letter was also aimed at informing DMR that the decommissioning activities, as well as care and maintenance activities associated with the Proposed Project, are included in the Rustenburg Section Environmental Management Programme Consolidation which was submitted to the DMR in 2013. Furthermore, the RPM preliminary closure management plan which includes broad management measures for decommissioning and closure of mining and associated activities was also submitted to the DMR (dated 2011). The draft BA Report and Environmental Management Programme Report (EMPR) was submitted to your Department to provide the DMR with an opportunity to comment on the BA process. WSP further notified the DMR of the authorities site visit for the competent as well as commenting. The purpose of the meeting is as follows: <ul style="list-style-type: none"> <li>- Provide a brief background to the Proposed Project;</li> <li>- Provide a level of Proposed Project detail;</li> <li>- Detail the BA process followed to date; and</li> <li>- Detail the BA process to be followed going forward.</li> </ul>	No Action Required from the DMR unless the DMR deem necessary to review the Final BA Report. The availability of the Final BA Report will be communicated to the DMR in due course.	WSP (upon issuance of the Final BA Report)
3.	Frederick R. Motsepe (FRM Maintenance and Cleaning Services)	The stakeholder indicated that his business makes provision for certain cleaning services.	Fax	15/08/2014	This comment is not deemed applicable to this type of application.	N/A	N/A
4.	Khalid Patel (Khalid) on the BA process stakeholder database on behalf of the Royal Bafokeng Nation (RBN) (the legal landowner on which the proposed decommissioning activity is planned).	Provide more information on the contaminants present on the site including the degree of contamination on the property.	Email	19/08/2014	Portion 2 of the Farm Klipfontein 300 JQ is owned by the RBN (based on communication with Andre Britz, RPM Land Manager). RBN is registered on the project stakeholder database and has been since project initiation.  It is noted that the current application for Environmental Authorisation, and the associated draft BAR, relates to the decommissioning of facilities which are located on contaminated land. The application does not seek to apply for remediation nor is it intended to address contaminated land issues on the site. These will be dealt with separately by RPM in accordance with the relevant statutory requirements. Notwithstanding this, for contextual purposes, based on a phase 1 site characterisation carried out by WSP in 2011, contamination on the Klipfontein Concentrator site was broadly characterised as follows: <ul style="list-style-type: none"> <li>- Minor hydrocarbon spillages were identified associated with the dedicated oil storage bunded area;</li> <li>- The presence of potentially toxic tar derivatives in one alleged</li> </ul>	Keep the land owner informed of on-going BA process and any items relating to contaminated land.	WSP & RPM
5.	Khalid Patel EIMS (consultancy) On behalf of RBN					RPM is committed to ongoing communication with RBN regarding matters relating to contamination and remediation, as well as complying with the associated statutory requirements. However, as indicated, this falls outside of the current BA process for decommissioning.	RPM

**RUSTENBURG PLATINUM MINES: THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR PROJECT LOCATED IN THE NORTH WEST PROVINCE**

ISSUES AND RESPONSES								
Issue reference	Stakeholder	Issue	Source	Date	Responses	Action Plan		
						Plan	Responsible person	
					tar dam was identified as a potential contamination source. However these were anticipated relatively immobile due to their physical properties and the attenuation tendency of the underlying soil. It is noted that subsequent to the Phase 1 report, RPM has investigated the suspected tar pit area which indicates that only residual tar is present.  <ul style="list-style-type: none"> <li>- Based on regional soil distribution, geology, and geohydrology, on site conditions, and regional land use, no significant groundwater contamination was expected.</li> <li>- The site is reasonably well isolated in terms of potential pathways for contaminant migration.</li> </ul>			
6.		A copy of a land contamination assessment undertaken on the Klipfontein property and the proposed remediation assessment that should follow, inclusive of expected costs.			The current application for Environmental Authorisation relates to the decommissioning of facilities. The approach to the assessment and potential remediation of contamination will be addressed as a separate process by RPM i.e. through the mine closure planning process (EMPR) and the provisions of Chapter 8 of the National Environmental Management Waste Act.	RPM is committed to ongoing communication with RBN regarding matters relating to contamination and remediation, as well as complying with the associated statutory requirements. However, as indicated, this falls outside of the current BA process for decommissioning.	RPM	
7.		An explanation as to how the contaminated property will interact with the newly promulgated National Environmental Management Act: Waste Amendment Act (No. 26 of 2014) (NEM:WAA) and the promulgation of Part 8 of the National Environmental Management Act: Waste Act (No. 59 of 2008) (NEM:WA) (Dated: 02 May 2014).			As above.	As above.	RPM	
8.		Has the property been registered with the Department as contaminated land?			The site has not been registered as contaminated land. The site has not been proclaimed as an Investigation Area under NEM:WA Part 8.	As above.	RPM	
9.	Portia Nxuso (Netcare)	Request to register on stakeholder database	Email	10/09/2014	Contact details: <ul style="list-style-type: none"> <li>- 079 695 6803; or</li> <li>- 0125221000.</li> </ul>	WSP added to the stakeholder database. The stakeholder will be notified of all future BA process updates.	WSP	
10.	Kelebogile Mxgoe (RLM)	The Rustenburg Local Municipality (RLM) is satisfied with all proposed in the application and has taken the following into consideration: <ul style="list-style-type: none"> <li>- According to the RLM Environmental Management Framework (EMF), the site is situated in the Environmental Management Zone identified as 'Potential Mining Area Management</li> </ul>	Email	07/08/2014	WSP note the response and have included in the final BA Report submission to the North West Rural, Environmental and Agricultural Development (NWREAD) for consideration.	Submission of the Final BA Report to the NWREAD case officer for consideration.	WSP	

**RUSTENBURG PLATINUM MINES: THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR PROJECT LOCATED IN THE NORTH WEST PROVINCE**

ISSUES AND RESPONSES							
Issue reference	Stakeholder	Issue	Source	Date	Responses	Action Plan	
						Plan	Responsible person
		<p>Zone'.</p> <p>- The proposed activity will occur within the mine lease area of RPM.</p> <p>The decommissioning and removal of redundant infrastructure will promote the objectives of mine closure rehabilitation of contaminated land. The potential impacts and risks associated with the concentrator will be reduced as it contained harmful substances.</p> <p>It is therefore requested that all relevant legislation and other requirements of other Government Departments (i.e. National, Provincial and Local) must still be complied with.</p>					
11.	Philip Hine (SHARA)	<p>The Archaeology, Palaeontology and Meteorites Unit does not object to the closure of the concentrator on the basis that no archaeological or palaeontological resources will be affected by the decommissioning. However, considering that it is older than 60 years of age, the matter should be referred to the North West Provincial Heritage Resources Authority (Mr Mosiane Mothlabane).</p>	Email (Formal Letter)	08/07/2014	Acknowledged and Accepted.	WSP contacted the Provincial Heritage Resources Authority (Mr Mosiane Mothlabane) and received formal response o the enquiry.	WSP
12.	Mosiane Mothlabane (North West Provincial Heritage Resources Authority)	No objection to the Proposed Project, on condition that, if any new evidence of graves, artifacts and/or ruins are encountered, work should be stopped immediately and a heritage consultant called immediately to take mitigation measures.	Email (Formal Letter)	29/07/2014	Acknowledged and Accepted.	RPM to instruct the contractor to be aware of this requirement during the dismantling activities and immediately report such an incident. The contractor is to operate in accordance with the project EMPr.	RPM (and associated contractor)
13.	Sammy Mabula (NWREAD)	Sammy asked if the applicant was undergoing an Environmental Management Programme Report (EMPR) Amendment process in accordance with the Minerals and Petroleum Resources	Authorities Meeting	13/08/2014	The RPM underwent an EMPr Alignment and Consolidation Process during the course of 2012 and 2013 in an effort to combine all RPM EMPrs. Furthermore, JO explained that the consolidation process included reference to the decommissioning of the Klipfontein Concentrator (i.e. provision has been made in terms of closure costing and mine closure). In addition to the consolidation of the EMPr, RPM have submitted the preliminary mine closure plan to the	No action required.	N/A

**RUSTENBURG PLATINUM MINES: THE PROPOSED DECOMMISSIONING OF THE KLIPFONTEIN CONCENTRATOR PROJECT LOCATED IN THE NORTH WEST PROVINCE**

ISSUES AND RESPONSES							
Issue reference	Stakeholder	Issue	Source	Date	Responses	Action Plan	
						Plan	Responsible person
14.	Sammy Mabula (NWREAD)	Development Act (No. 28 of 2002) (MPRDA).  Sammy asked if WSP had advertised in two separate newspapers during the stakeholder engagement initialisation phase of the BA process. He added that there was no title on the second advert within the draft BA Report submitted to the Department by WSP.	Authorities Meeting	13/08/2014	DMR. As such, the project has been accounted for in terms of the MPRDA.  WSP completed a similar process for the "Decommissioning of the Frank Concentrator Project" in 2013, in which the same environmental authorisation process was followed (i.e. a BA process in accordance with the NEMA. It was noted that the Decommissioning of the Frank Concentrator was included in the EMPR Consolidation process, financial provision for mine closure and the mine closure plan. As such, no EMPR Amendment process was required in parallel to the NEMA authorisation process.  Two identical adverts were published in two different newspapers namely, the Rustenburg Herald and the Platinum Weekly. A title will be added to the Platinum Weekly tear-sheet within the Final BA Report for ease of reference.	WSP to add title to both adverts in the appendices of the Final BA Report.	WSP
15.	Sammy Mabula (NWREAD)	Sammy indicated that the Final BA Report and the EMPR may already be reviewed and forwarded to the Department supervisor prior to the completion of the 14 day Final Report public review period.	Authorities Meeting	13/08/2014	Any additional comments received within those 14 days would be compiled into an updated comments and response report and submitted to the case officer following the completion of the final BA Report review period. This will ensure transparency and ensure that any comments received will be provided to the case officer prior to the case officer forwarding the report and the findings on for signature (review by supervisor). Sammy agreed and accepted the plan of action proposed.	WSP to submit any comments received on the 15th day (i.e., day following the ending of the 14 day review period).	WSP

**Note: all communication (in the form of emails and letters) is included in Appendix E as the original documents. Contact the EAP should additional detail be required.**

---

# Appendix F: Environmental Management Programme Report (EMPr)





UNITED  
BY OUR  
DIFFERENCE



## Draft Environmental Management Programme Report for the Klipfontein Concentrator Decommissioning Project







Anglo American Platinum Limited: Rustenburg Platinum  
Mines - Rustenburg Section

2014/09/16

2014-09-16

Confidentiality: Public

# Quality Management

Issue/revision	Issue 1	Revision 1	Revision 2	Revision 3
Remarks	Draft	Final		
Date	July 2014	September 2014		
Prepared by	Jared O'Brien	Jared O'Brien		
Signature				
Checked by	Joanna Goeller	Joanna Goeller		
Signature				
Authorised by	Kim Allan	Kim Allan		
Signature				
Project number	43849	43849		
Report number	1	2		
File reference	W:\000 Projects\000 Environmental Services\ES - Live Projects\43849 -The Decommissioning and Removal of the Klipfontein Concentrator\Reports\Final Report Submission\Appendices\Appendix F			

# Draft Environmental Management Programme Report for the Klipfontein Concentrator Decommissioning Project

Anglo American Platinum Limited: Rustenburg Platinum Mines - Rustenburg Section

2014/09/16

## Client

Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section  
Private Bag X 82077  
Rustenburg  
0300

## Consultant

WSP House  
Bryanston Place, 199 Bryanston Drive  
Bryanston  
2191  
South Africa

Tel: +27 11 361 1391  
Fax: +27 11 161 1381

[www.wspgroup.co.za](http://www.wspgroup.co.za)

## Registered Address

WSP Environmental (Pty) Ltd  
1995/008790/07  
WSP House, Bryanston Place, 199 Bryanston Drive,  
Bryanston, 2191, South Africa

---

# Table of Contents

Contact Details of Responsible Persons .....	vii
1 Introduction.....	1
1.1 Project Background and Location.....	1
1.1.1 Rustenburg Platinum Mines – Rustenburg Section .....	1
1.1.2 Rustenburg Platinum Mines – Klipfontein Concentrator .....	4
1.2 Motivation and Terms of Reference.....	6
1.3 Methodology Applied .....	8
2 Environmental Management Programme .....	9
2.1 Environmental Management Programme Objectives .....	9
2.2 Roles and Responsibilities.....	9
2.3 Awareness and Competence.....	11
2.4 Environmental Management Plan.....	11
3 Environmental Code of Conduct.....	28
3.1 Pollution Prevention.....	28
3.2 Trespassing .....	28
3.3 Fire Control.....	28
3.4 Caring for Plants and Animals .....	28
4 Environmental Emergency and Response Procedure .....	29
5 Monitoring Programme .....	29
5.1 Monitoring.....	29
5.2 Non-conformance and Corrective Action .....	30
5.2.1 Compliance with Environmental Authorisation and Draft EMPr .....	30
5.2.2 Duty of Care .....	30
5.3 Documentation and Reporting .....	30
5.4 Public Complaints.....	31
6 Environmental Awareness Plan.....	31
6.1 Internal Communication.....	32
6.2 Standard Meetings .....	32
6.3 Environmental Topics .....	32
6.4 External Communication.....	33
6.5 Training.....	33
7 Closure Plan .....	33
7.1 Closure Objectives .....	33
7.1.1 Environmental Impact Management .....	33
7.1.2 Decommissioning and Rehabilitation.....	34
7.2 Closure Actions .....	34
7.3 Post Closure .....	36
7.3.1 Monitoring and Maintenance .....	36
7.4 Financial Provision for Closure .....	38
8 Conclusion.....	39
9 References .....	40

## List of Figures

Figure 1: Locality Map of the Proposed Project .....	2
Figure 2: Locality Map of the Proposed Project .....	3
Figure 3: Illustration of Structures and Infrastructure that will be removed .....	5
Figure 4: Proposed Post Closure Land Use Plan (SRK, 2012) .....	35

## List of Tables

Table 1-1: Legislation requirements as detailed in the BA Report and/or the EMPr .....	7
Table 2-1: Roles and Responsibilities .....	9
Table 2-2: Structure of EMP .....	12
Table 2-3: Environmental Management Plan .....	13
Table 7-1: Actions Plan for RPM-RS Concentrators - Klipfontein .....	36
Table 7-2: Monitoring requirements (following mine closure) .....	36

## List of Appendices

Appendix A - Emergency Preparedness/Response Procedure .....	42
Appendix B - Environmental Awareness Plan .....	43

## Table of Abbreviations and Acronyms

Abbreviation/Acronyms	Description
DEA	Department of Environmental Affairs
DMR	Department of Mineral Resources
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
EMPr	Environmental Management Programme
GNR.	Government Notice Regulation
IBCs	Intermediate Bulk Containers
MPRDA	Minerals and Petroleum Resources Development Act (No. 28 of 2002)
MSDS	Material Safety Data Sheet
NWREAD	North West Department of Rural, Environmental and Agricultural Development
PPE	Personal Protective Equipment
RPM-RS	Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section
SANBI	South African National Biodiversity Institute
VMP	Vegetation Management Plan
VOC	Volatile Organic Compound
WSP	WSP Environmental (Pty) Ltd

# Contact Details of Responsible Persons

## Project Proponent

<b>Anglo American Limited: Rustenburg Platinum Mines Limited – Rustenburg Section</b>	
<b>Concentrators Manager</b>	
<b>Name:</b>	Vusumuzi Mahlangu
<b>Tel:</b>	014 598 1360
<b>Email:</b>	vusumuzi.mahlangu@angloamerican.com
<b>Senior Safety, Health and Environmental Specialist – Rustenburg Concentrators</b>	
<b>Name:</b>	Barend Nortje
<b>Tel:</b>	014 598 2404
<b>Fax:</b>	086 760 0488
<b>Email:</b>	barend.nortje@angloamerican.com
<b>Environmental Control Officer – Rustenburg Concentrators</b>	
<b>Name:</b>	Mulalo Tshilowa
<b>Tel:</b>	014 598 2119
<b>Fax:</b>	086 555 6593
<b>Email:</b>	mulalo.tshilowa@angloamerican.com
<b>Environmental Manager: Rustenburg Section and Water &amp; Waste Specialist</b>	
<b>Name:</b>	Vinesh Dilsook
<b>Tel:</b>	014 598 2295
<b>Mob:</b>	073 109 6126
<b>Email:</b>	vinesh.dilsook@angloamerican.com

## Environmental Assessment Practitioner

<b>WSP Environmental (Pty) Ltd</b>	
<b>Environmental Assessment Practitioner</b>	
<b>Name:</b>	Jared O'Brien
<b>Position:</b>	Environmental Consultant (Project Manager)
<b>Tel:</b>	011 361 1396
<b>Fax:</b>	086 505 3939
<b>Email:</b>	jared.o'brien@wspgroup.co.za
<b>Assistant Practitioner</b>	
<b>Name:</b>	Claire Dendy
<b>Position:</b>	Assistant Environmental Consultant (Lead Consultant)
<b>Tel:</b>	011 361 1334

<b>WSP Environmental (Pty) Ltd</b>	
<b>Fax:</b>	011 361 1301
<b>Email:</b>	claire.dendy@wspgroup.co.za

## Competent Authority

<b>North West Department of Rural, Environmental and Agricultural Development</b>	
<b>Application Officer</b>	
<b>Name:</b>	Ouma Skosana
<b>Reference</b>	NWP/EIA/12/2014
<b>Position:</b>	Application Control Officer
<b>Tel:</b>	018 389 5156
<b>Fax:</b>	018 384 0676
<b>Email:</b>	oskosana@nwpg.gov.za
<b>Case officer</b>	
<b>Name:</b>	Moragorago Mabula
<b>Position:</b>	Case Officer
<b>Tel:</b>	018 299 6710
<b>Cell</b>	084 028 9393
<b>Fax:</b>	018 294 6008
<b>Email:</b>	mmabula@nwpg.gov.za



# Executive Summary

The Anglo American Platinum Limited: Rustenburg Platinum Mines - Rustenburg Section (RPM-RS) Klipfontein Concentrator was commissioned in 1931. The Klipfontein Concentrator had the capacity to crush approximately 130 000 tons of ore per month. Following the establishment of the UG2 and the Waterval Concentrators, RPM-RS decided to remove the Klipfontein Concentrator from active service. As such, the Klipfontein Concentrator is considered a redundant plant.

RPM-RS propose to decommission and dismantle the infrastructure associated with the Klipfontein Concentrator to support the rehabilitation of the site (Proposed Project). Infrastructure which includes, the concentrator offices, concentrator workshop, concentrator changes houses and pilot plant are considered useful to RPM-RS and as such will remain onsite.

The anticipated environmental impacts associated with the Proposed Project have been evaluated according to their significance, which is determined as a result of the consequence and likelihood. Consequence is a function of schedule, cost, quality, safety/health, legal and regulatory, reputation and environmental impact, whereas the likelihood of the impact is a function of the frequency of the activity and frequency of the incident/impact. The consequence multiplied by the likelihood gives the significance of the potential impact. All impacts were assessed in the Draft Basic Assessment (BA) Report without and then with management measures in place. Mitigation and management measures have been devised within this report to reduce the significance of the impacts. The Environmental Management Programme Report (EMPr) (this report) consolidates all mitigation and management measures devised for the Proposed Project (**Table 2-3**).

Stakeholder engagement was undertaken, upon receipt of a project reference number from the North West Department of Economic Development, Environment, Conservation and Tourism, in a transparent and comprehensive manner. All comments received from the public review periods will be recorded and responded to in the final BA Report. Based on the environmental baseline assessment, specialist input as well as the stakeholder engagement, an impact assessment was undertaken and where relevant the necessary management measures have been recommended and included in this report.

As such, the BA process assessed both biophysical and socio-economic environments and identified appropriate management and mitigation measures to address the negative impacts and promote the positive impacts. The biophysical impact assessment revealed that there are no environmental fatal flaws and no significant negative impacts associated with the Proposed Project should mitigation and management measures be implemented. In addition, it should be noted that the overall socio-economic impacts associated with the Proposed Project are positive. The positive impact on the socio-economic environment includes that of job creation by virtue of the commissioning of an external contractor however, as this is a decommissioning project these jobs are available for a limited timeframe.

WSP is of the opinion that should the identified mitigation and management measures be implemented, the Proposed Project ought to proceed in order to achieve the long term rehabilitation of the site and to avoid risk of environmental damage. The decommissioning of the Klipfontein Concentrator project contributes to achieving the objectives of mine closure.



# 1 Introduction

WSP Environmental (Pty) Ltd (WSP) was appointed by Anglo American Platinum Limited: Rustenburg Platinum Mines – Rustenburg Section (RPM-RS) to undertake the necessary environmental authorisation (EA) and stakeholder engagement process required for the decommissioning and demolition of a redundant concentrator located in the RPM-RS lease area.

WSP propose to undertake the necessary authorisation in accordance with the National Environmental Management Act (No. 107 of 1998), as amended (NEMA) with specific reference to Government Notice Regulation (GNR.) 543 of 2010 which requires a Basic Assessment (BA) process to be undertaken including the compilation of a Draft Environmental Management Programme Report (EMPr) (this report).

## 1.1 Project Background and Location

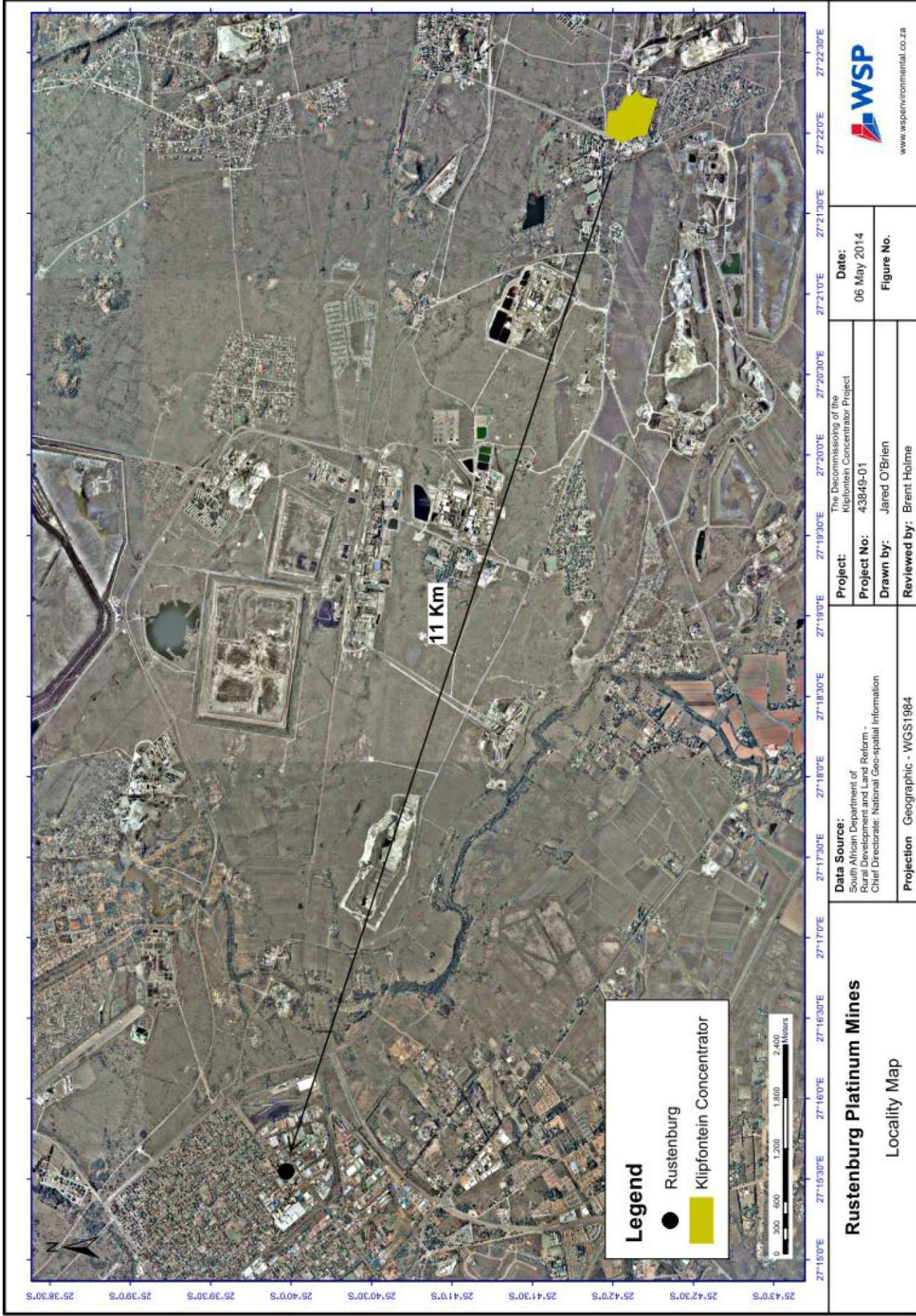
### 1.1.1 Rustenburg Platinum Mines – Rustenburg Section

RPM-RS mines, processes, refines and markets platinum and other platinum group metals as well as base metals at their operations in Rustenburg located within the North West Province of South Africa (**Figure 1** and **Figure 2**). RPM-RS is one of a number of RPM operations across South Africa.

The RPM-RS mine lease area covers an area of approximately 16 651.6 hectares. The ore extracted by RPM-RS includes that of two ore bodies, namely the Merensky Reef and the UG2 Reef at various shafts contained within the RPM-RS mine lease area. RPM-RS utilise various mining methods such as hybrid, board and pillar, conventional stopping, trackless development and opencast mining in order to extract the ore depending on the geological structure of the area being mined and the surface conditions. Following extraction from the reef the ore is passed through a number of processing and beneficiation stages in order to extract the required precious and base metals. The infrastructure required includes but is not limited to the following:

- Concentrators;
- Smelters;
- Precious Metals Refinery; and
- Base Metals Refinery.

RPM-RS has a planned life of mine of at least an additional 30 years.



<b>Rustenburg Platinum Mines</b> Locality Map		<b>Data Source:</b> South African Department of Rural Development and Land Reform - Chief Directorate: National Geo-spatial Information		<b>Project:</b> The Decommissioning of the Klipfontein Concentrator Project <b>Project No:</b> 43849-01		<b>Date:</b> 06 May 2014	
		<b>Projection:</b> Geographic - WGS1984		<b>Drawn by:</b> Jared O'Brien <b>Reviewed by:</b> Brent Holme		<b>Figure No.</b>	
						<a href="http://www.wspenvironmental.co.za">www.wspenvironmental.co.za</a>	

**Figure 1: Locality Map of the Proposed Project**

# Rustenburg Platinum Mines

Figure 1

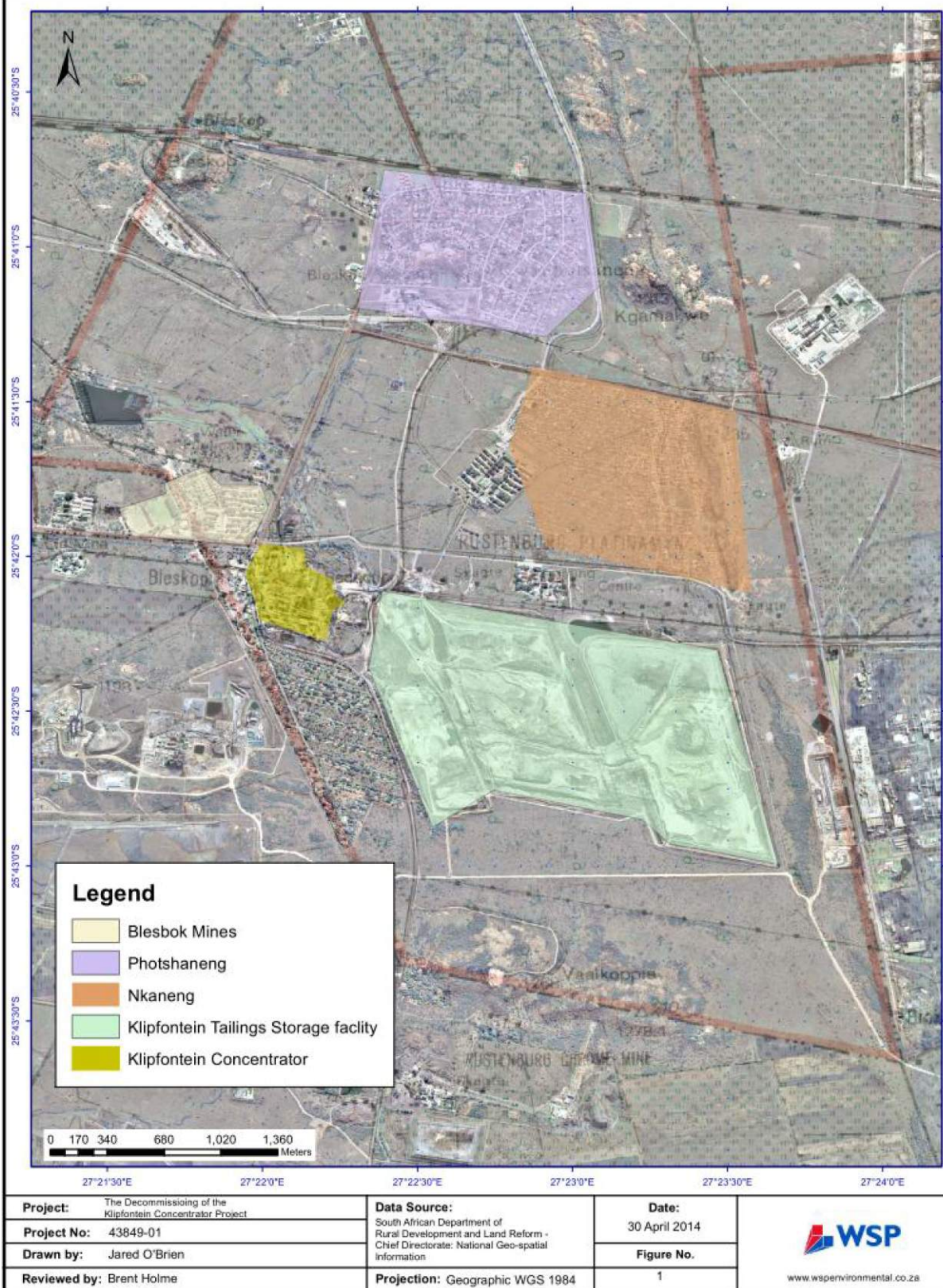


Figure 2: Locality Map of the Proposed Project

---

### 1.1.2 Rustenburg Platinum Mines – Klipfontein Concentrator

The Klipfontein Concentrator was commissioned in 1931 and is located approximately 11km east of Rustenburg in the North West Province. The Klipfontein Concentrator comprises an area of approximately 20ha. The Klipfontein Concentrator had the capacity to crush approximately 120 000 tons of ore per month.

Following the establishment of the UG2 and the Waterval Concentrators, RPM-RS decided to remove the Klipfontein Concentrator from active service (mothballed in 2007) due to the technological capabilities available at the two new concentrators (i.e. the increased efficiency). As such, the Klipfontein Concentrator is considered a redundant plant and no longer has any beneficial use to the mining operation. The Klipfontein Concentrator is currently under care and maintenance.

RPM-RS propose to decommission and dismantle the infrastructure associated with the Klipfontein Concentrator located on Portion 2 of the Farm Klipfontein 300 JQ in 2015 in an effort to support the rehabilitation of the site. The following areas of the Klipfontein Concentrator, but not limited to, are to be decommissioned and dismantled to slab level:

- Milling Section;
- Thickener section;
- Filtration section;
- Reagent section;
- Crusher section;
- Flotation section;
- Redressing section; and
- General areas.

Certain infrastructure associated with the Klipfontein Concentrator will remain onsite as the infrastructure is still considered useful to RPM-RS, which includes offices and workshops that will be used by the Central Services department. **Figure 3** indicates the structures and infrastructure which are to be removed as well as the infrastructure that will remain in-situ.

**Rustenburg Platinum Mines**  
Figure

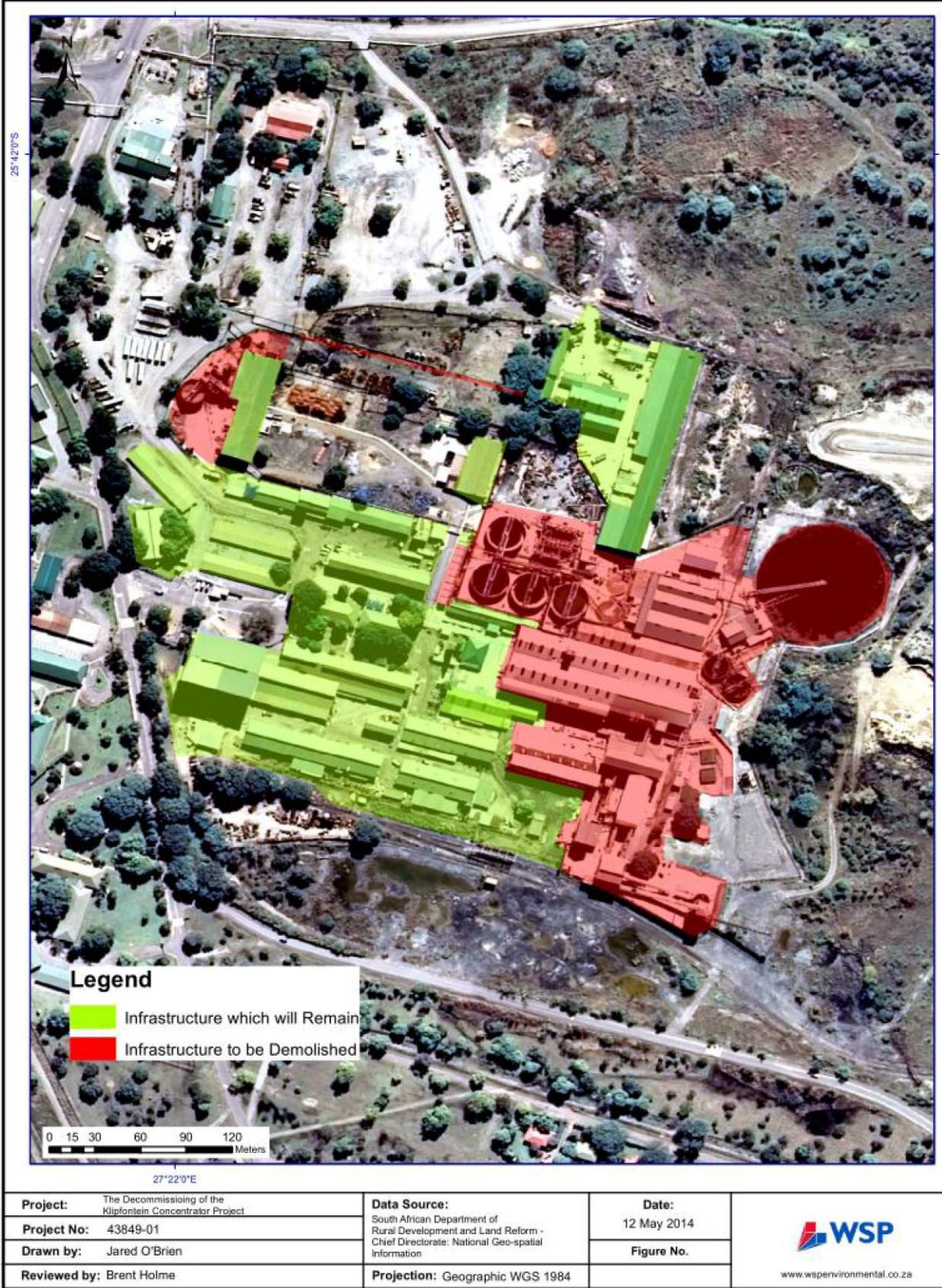


Figure 3: Illustration of Structures and Infrastructure that will be removed

---

## 1.2 Motivation and Terms of Reference

In 2008, WSP undertook a contaminated land assessment and remediation strategy for RPM-RS mine lease area. The resultant report identified contaminated hotspots across the Klipfontein Concentrator property resulting from the historic processing activities.

No remediation will take place as part of this Proposed Project, however, the remediation costs associated with the area have been included in the RPM-RS mine wide closure plan (as submitted to the Department of Mineral Resources (DMR) – North West Region) and as such the site will be rehabilitated upon mine closure. Furthermore, any requirements in terms of Part 8 of the National Environmental Management: Waste Act (59 of 2008) (NEM:WA) will be dealt with separately by RPM-RS.

Due to the presence of contaminated land on the site on which decommissioning is intended, RPM-RS require EA according to the NEMA prior to the commencement of the decommissioning and demolition activities. In order to obtain EA, RPM-RS is required to undertake a BA process in accordance with GNR.543 of 2010. The Proposed Project triggers the following listed activities in terms of GNR.544 of 2010:

- Activity 27 (iv)
  - The decommissioning of existing facilities or infrastructure, for activities, where the facility or the land on which it is located is contaminated.
- Activity 27 (v)
  - The decommissioning of existing activities or infrastructure, for storage, or storage and handling, of dangerous goods of more than 80 cubic metres.

Both activity 27 (iv) and (v) exclude any facilities or infrastructure that commenced under an EA issued in terms of the Environmental Impact Assessment (EIA) Regulations, 2006 made under section 24(5) of the NEMA and published in GNR. 385 of 2006, or GNR. 543 of 2010.

The EA process is being undertaken to ensure compliance with South African legislation and best practice guidelines considered applicable.

The following was undertaken as part of the BA process:

- Compilation and submission of an application to commence with the EA process to the North West Department of Rural, Environmental and Agricultural Development (READ) (Submission date: 26 May 2014);
- Transparent and comprehensive stakeholder engagement process, including the distribution of stakeholder notification material and an authorities meeting (stakeholder notification material distribution date: 09 – 11 July 2014);
- Compilation of a BA Report and accompanying documentation (June/July 2014);
- Compilation of a Draft EMP (June/July 2014);
- Public and state department review of the relevant draft documentation associated with the Proposed Project (July – September 2014); and
- Public and state department review of the relevant final documentation associated with the Proposed Project (September 2014).

Environmental and socio-economic impacts have been identified and assessed in order to identify significant impacts associated with the Proposed Project (refer to the BA Report).

It is expected that the contractor be conversant with all legislation pertaining to the environment, including provisional and local government ordinances, which may be applicable to the contract. Some of the environmental legislation application to the Proposed Project includes, but is not limited to, the following:

- The South African Constitution (No. 108 of 1996);
- NEMA;
- National Environmental Management Waste Act (No. 59 of 2008);



- National Environmental Management: Biodiversity Act (No. 10 of 2004);
- National Environmental Management: Air Quality Management Act (No. 39 of 2004);
- National Water Act (No. 36 of 1998);
- The National Heritage Resources Act (No. 25 of 1999) (NHRA); and
- Hazardous Substances Act (No. 15 of 1973).

The competent authority responsible for considering this application is the NWREAD.

**Table 1-1** details whether the BA Report or this report address the requirements of the NEMA.

**Table 1-1: Legislation requirements as detailed in the BA Report and/or the EMPr**

<b>Legislated requirements as per the NEMA GNR. 543</b>	<b>BA Report</b>	<b>EMPr</b>
Details of the EAP who prepared the report.	<b>Section A</b>	<b>Section A</b>
Description of the proposed activity.	<b>Section A</b>	<b>Section 1</b>
Description of the property including the description of any identified alternatives to the proposed activity that are feasible and reasonable, including the advantages and disadvantages that the proposed activity or alternatives will have on the environment and on the community that may be affected by the activity.	<b>Section A</b>	-
Description of the environment that may be affected by the proposed activity/prospecting or mining operation and the manner in which the geographical, physical, biological, social, economic and cultural aspects of the environment may be affected by the proposed activity.	<b>Section B</b>	-
Identification of all legislation and guidelines that have been considered in the preparation of the BA process.	<b>Section A9</b>	-
Description of the methodology applied in order to rate the impacts of the proposed project.	<b>Section D2</b>	-
Details of the public participation process conducted in terms of Section 21(2)(a) of the NEMA in connection with the application.	<b>Section C</b>	-
Description of the need and desirability of the proposed activity.	<b>Section B7</b>	-
Description and assessment of the significance of any environmental impacts.	<b>Section D</b>	-
Any environmental management and mitigation measures proposed by the EAP.	-	<b>Section 2</b>
Any environmental monitoring arrangements set up for the Proposed Project.	-	<b>Section 5</b>
Any inputs and recommendations made by specialist studies (if required).	-	<b>Section 2</b>
Draft EMPr containing required information outlined in Section 33 of the NEMA.	-	<b>This Report</b>
Description of any assumptions, uncertainties and gaps in knowledge.	<b>Section D</b>	-
A reasoned opinion as to whether the activity should or should not be authorised.	<b>Section E</b>	<b>Section 8</b>
Any representations and comments received in connection with the application or the BA Report.	<b>Section C</b>	-
The minutes of any meetings held by the EAP with interested and affected parties and other role players which record the views of the participants.	<b>Appendix E</b>	-
Any responses by the EAP to those representations, comments and views.	<b>Appendix E</b>	-
Any technical design information and supporting information.	<b>Appendix</b>	-

Legislated requirements as per the NEMA GNR. 543	BA Report	EMPr
	<b>B</b>	
Any specific information required by the competent authority.	<b>N/A</b>	<b>N/A</b>
Any other matters required in terms of sections 24(4)(a) and (b) of the NEMA.	<b>N/A</b>	<b>N/A</b>

### 1.3 Methodology Applied

The Draft EMPr provides the actions for the management of potential environmental and social related impacts which may result from the Proposed Project. The Draft EMPr provides a detailed outline of the implementation programme to minimise and/or eliminate the anticipated negative environmental impacts and enhance the positive impacts associated with the Proposed Project. The Draft EMPr provides strategies to be used to address the roles and responsibilities of environmental management personnel onsite, as well as a framework for environmental compliance and monitoring.

This Draft EMPr, which should form an integral part of the contract documents, informs the contractor as to his/her duties in the fulfilment of the project objectives with particular reference to the prevention and mitigation of environmental impacts caused by activities associated with the Proposed Project. The contractor should note that obligations imposed by the Draft EMPr are binding in terms of the conditions of the contract that pertain to the Proposed Project.

This Draft EMPr has been compiled for the decommissioning/demolition and aftercare phases of the Proposed Project. The Draft EMPr includes the following:

- Details and expertise of the person who prepared the Draft EMPr;
- Information on proposed management or mitigation measures that will be taken to address the environmental impacts that have been identified in the BA Report, including environmental impacts or objectives in respect of all project phases;
- A description of the aspects of the activity that are covered by the Draft EMPr;
- An identification of the persons who will be responsible for the implementation of the mitigation measures;
- Proposed mechanisms for monitoring compliance with the Draft EMPr and reporting thereto;
- Measures to rehabilitate the environment affected by the Proposed Project (as far as possible);
- Timeframes for which the proposed mitigation measures should be implemented;
- The process for managing any environmental damage associated with the Proposed Project; and
- An environmental awareness plan.

The Draft EMPr has been compiled in conjunction with the BA Report and will be submitted to NWREAD as an appendix to the BA Report. The Draft EMPr has been developed in accordance with minimum legal requirements of NEMA GNR. 543 Section 33.

## 2 Environmental Management Programme

### 2.1 Environmental Management Programme Objectives

The objectives of the Draft EMPr are to:

- Encourage good management practices through planning and commitment to environmental issues; and
- Provide rational and practical environmental guidelines to:
  - Minimise disturbance of the natural environment;
  - Ensure water and water resource protection;
  - Prevent or minimise all forms of pollution;
  - Protect indigenous flora and fauna;
  - Prevent soil erosion;
  - Promote sustainable use of resources;
  - Promote the reduction, reuse, recycling and recovery of waste;
  - Adopt the best practical means available to prevent or minimise adverse environmental impacts;
  - Comply with all applicable laws, regulations, standards and guidelines for the protection of the environment;
  - Develop waste management practices based on prevention, minimisation, recycling, treatment or disposal of waste;
  - Describe all monitoring procedures required to identify impacts on the environment;
  - Define how the management of the environment is reported and performance evaluated; and
  - Train onsite personnel with regard to their environmental obligations.

### 2.2 Roles and Responsibilities

Formal responsibilities are necessary to ensure that key management measures/procedures are executed. Specific responsibilities of the Project Manager, Site Manager, Environmental Control Officer, Staff and Contractor(s) for the Proposed Project are provided for in **Table 2-1**.

**Table 2-1: Roles and Responsibilities**

Responsible Person	Responsibilities
<b>Project Manager</b>	<ul style="list-style-type: none"> <li>■ Ensure that RPM-RS and the contractor are aware of all specifications, legal constraints and RPM-RS standards and procedures pertaining to the Proposed Project specifically with regards to environmental and social aspects;</li> <li>■ Ensure that all conditions of the EA and Draft EMPr are communicated and adhered to by RPM-RS and its contractor(s);</li> <li>■ Monitor the implementation of the EA conditions and the Draft EMPr commitments throughout the Proposed Project by means of, but not limited to, site inspections and meetings. This should be documented as part of the onsite implementation records; and</li> <li>■ Be fully conversant with the BA Report for the Proposed Project, the conditions</li> </ul>

Responsible Person	Responsibilities
	of the EA and of the EMPr.
<b>Site Manager</b>	<ul style="list-style-type: none"> <li>■ Be fully conversant with the BA Report, the conditions of the EA and of the Draft EMPr;</li> <li>■ Approve method statements;</li> <li>■ Provide support to the Environmental Control Officer;</li> <li>■ Be fully conversant with all relevant environmental legislation and RPM-RS environmental policies and procedures - Ensure compliance thereof;</li> <li>■ Have overall responsibility for the implementation of the conditions of the EA and the Draft EMPr;</li> <li>■ Ensure that audits are conducted to ensure/assess compliance with the conditions of the EA and the Draft EMPr;</li> <li>■ Liaise with the Project Manager or his delegate, the Environmental Control Officer and others on matters concerning the environment;</li> <li>■ Prevent actions that will harm or may cause harm to the environment, and take steps to prevent pollution and unnecessary degradation onsite; and</li> <li>■ Confine decommissioning and demolition activities to demarcated areas.</li> </ul>
<b>Environmental Control Officer</b>	<ul style="list-style-type: none"> <li>■ A suitably qualified Environmental Control Officer who would, on a weekly basis, monitor the project compliance with the conditions of the EA and the Draft EMPr; and</li> <li>■ The costs of the Environmental Control Officer shall be borne by RPM-RS (proof of appointment must be maintained onsite).</li> </ul> <p>Responsibilities of the Environmental Control Officer include:</p> <ul style="list-style-type: none"> <li>■ Be fully conversant with the BA Report, the conditions of EA and the Draft EMPr;</li> <li>■ Be fully conversant with all relevant environmental legislation and RPM-RS environmental policies and procedures - Ensure compliance thereof;</li> <li>■ Ensure that periodic environmental performance audits/inspections are undertaken on a weekly basis to ensure implementation onsite;</li> <li>■ Approve method statements;</li> <li>■ Maintain the following: <ul style="list-style-type: none"> <li>– A site incident register;</li> <li>– A non-conformance register;</li> <li>– A public complaints register; and</li> <li>– A register of audits.</li> </ul> </li> <li>■ Remain employed until the completion of the decommissioning and demolition activities; and</li> <li>■ Report all findings identified onsite to the Project Manager.</li> </ul> <p>In addition, the Environmental Control Officer will:</p> <ul style="list-style-type: none"> <li>■ Convey the contents of the conditions of the EA and the Draft EMPr to the relevant site staff and discuss the contents in detail with the Project Manager and contractor(s);</li> <li>■ Undertake regular and comprehensive inspection of the site and surrounding</li> </ul>

Responsible Person	Responsibilities
	<p>areas in order to monitor compliance with the conditions of the EA and the Draft EMPr;</p> <ul style="list-style-type: none"> <li>■ Take appropriate action if the specifications contained in the EA and the Draft EMPr are not followed;</li> <li>■ Monitor and verify that environmental impacts are kept to a minimum, as far as possible; and</li> <li>■ Ensure that activities onsite comply with all relevant environmental legislation.</li> </ul>
<b>Contractors, Staff and Service Providers</b>	<ul style="list-style-type: none"> <li>■ Complying with RPM-RS environmental management specifications;</li> <li>■ Be conversant with all conditions of the EA and the EMPr, and ensure compliance thereto; and</li> <li>■ Adhering to any environmental instructions issued by the Site Manager/Project Manager on the advice of the Environmental Control Officer.</li> </ul>

## 2.3 Awareness and Competence

It is important to ensure that all relevant personnel have the appropriate level of environmental awareness and competence to ensure continued environmental due diligence and ongoing minimisation of environmental degradation and harm.

To achieve effective environmental management, it is important that employees, contractors (including subcontractors) are aware of the responsibilities in terms of the relevant environmental legislation and the contents of the Draft EMPr, conditions of the EA and the relevant RPM-RS procedures. The Environmental Control Officer shall be responsible for the training sessions.

Environmental training must include the following:

- Employees must have a basic understanding of the key environmental features of the surrounding environment;
- Employees will be thoroughly familiar with the requirements of the Draft EMPr, conditions of the EA and the environmental specifications as they apply to the decommissioning and demolition activities;
- Employees must undergo training for the demolition activities associated with the Proposed Project and have a basic knowledge of the potential environmental and social impacts that may occur and how they can be minimised and mitigated. Environmental awareness and waste management should be covered in toolbox talks at least once a week; and
- Records of all training must be maintained onsite.

## 2.4 Environmental Management Plan

The draft EMP (**Table 2-3**) contains guidelines, operating procedures and rehabilitation/pollution control requirements which will be binding to the onsite personnel working for, or on behalf of RPM-RS. It is essential that the draft EMP be carefully studied, understood, implemented and adhered to at all times.

In instances where the method statements provided by the contractor conflict with the draft EMP, such conflicts will be discussed between the Site Manager, Environmental Control Officer and contractor and if unresolved the EA and the draft EMP will take precedent.

The following RPM-RS reports and guidelines should be retained onsite and read in conjunction with this document:

- Emergency Preparedness and Response Procedure (**Appendix A**);
- The Consolidated and Aligned Environmental Management Programme for RPM-RS (**Provided on Request**);
- A Report on the Updating of a Previous Cultural Heritage Impact Assessment for the EMPR Alignment and Consolidation Process at Anglo American Platinum: Rustenburg Platinum Mines – Rustenburg Section, Northwest Province (Heritage Management Plan) (**Provided on Request**).

To simplify the draft EMP requirements, each column related to the draft EMP table has been described in **Table 2-2**. The draft EMP identifies various actions which are undertaken throughout the decommissioning/demolition and aftercare phases. Not every action will be required during the entire course of demolition activities. Therefore, the actions identified in the draft EMP have been given priority timeframes for proposed implementation. *Note: Only the decommissioning (demolition) is considered relevant to the Proposed Project however, the aftercare phase is included in order to make provision for management measures which should be applied following physical work on site. As such, the design, construction and operational phases are not been considered..*

**Table 2-2: Structure of EMP**

Section	Description
<b>Impact</b>	This section indicates which impact the mitigation measure is referring to.
<b>Mitigation Measure</b>	This section indicates the actions required to either prevent and/or minimise the potential impacts on the environment that are associated with the Proposed Project.
<b>Environment</b>	This section indicates which aspect of the environment the impact/mitigation measures are referring to.
<b>Project Phase</b>	This section refers to the project phase referred to by the impact/mitigation measure. The Proposed Project phases include the following: Demolition and Aftercare.
<b>Implementation Timeframe</b>	<p>This section refers to the duration within which the impact/mitigation measure is to be applied. The following timeframes should be noted:</p> <ul style="list-style-type: none"> <li>■ The Proposed Project is planned for <i>initiation</i> (i.e. Demolition initiation) in January 2015 (dependant on receipt of EA). Therefore, where Demolition initiation is indicated within <b>Table 2-3</b> the recommendations are to be implemented upon initiation of activities on-site;</li> <li>■ <i>On-going</i> refers to the continuous implantation of the mitigation measure throughout the duration of the Proposed Project activities (starting at the initiation phase). As per the current demolition schedule, the activities on-site are aimed at 2018 completion. Therefore, where on-going is indicated within <b>Table 2-3</b> the recommendations are to be applied until project completion (i.e. 2018 – dependant on date of EA receipt); and</li> <li>■ <i>As-required</i>, refers to the implementation of the mitigation measure as the need arises.</li> </ul>
<b>Responsibility</b>	This section indicates the party responsible for implementing the environmental measures and action plans laid out in the EMP.

Table 2-3: Environmental Management Plan

Impact	Mitigation Measure	Receiving Environment													Implementation Timeframe	Project Phase		Responsibility										
		Topography	Geology	Soil	Land Use	Land Capability	Air	Surface Water	Groundwater	Fauna	Flora	Noise	Visual	Waste Management		Traffic	Cultural & Heritage	Health & Safety	Employment	Climate	Demolition	Aftercare	Environmental Control Officer	Contractor	Project Manager	Site Manager		
Potential soil erosion as a result of dismantling activities, leading to soil degradation and loss of topsoil.	As little vegetation as possible should be removed from the site in order to reduce soil erosion.			X	X	X	X	X	X	X	X	X	X								X		X					
	Existing access routes should be used as much as possible in order to reduce the potential for soil compaction and soil erosion.			X	X	X	X	X	X	X	X										X		X					
Potential hydrocarbon spillages from fuel storage areas, equipment, machinery and vehicles (including redundant equipment and transformers) currently onsite at the concentrator may lead to soil contamination, potentially impacting on surface water runoff and groundwater quality.	Equipment, machinery and vehicles should be serviced regularly at an offsite location, and daily inspections should be conducted to ensure that the equipment, vehicles and machinery are performing at optimum performance standards and to ensure that there are no leakages of vehicle fuel/oil tanks.			X	X	X	X	X	X	X	X	X	X				X						X					
	The area chosen for the purpose of fuel and chemical management must be the minimum required.			X	X	X	X	X	X	X	X	X	X											X				
	The storage areas, accommodating hazardous substances such as fuel, oils and chemicals, must be securely fenced (under lock and key). The storage area floor must be an impermeable surface and suitably bunded to retain 110% of all the container volumes.			X	X	X	X	X	X	X	X	X	X											X				
	Fuels, lube oils or other chemicals used outside of the bunded area should be kept to a minimum and suitable secondary containment in the form of drip trays should be used.			X	X	X	X	X	X	X	X	X	X												X			
	In the event that oil traps or interceptors need to be used, maintenance should be undertaken on a regular basis and records maintained.			X	X	X	X	X	X	X	X	X	X											X				
	All liquids stored on-site are to be labelled and identifiable. Material safety data sheets (MSDS) for on-site chemicals, hydrocarbon materials and/or waste and hazardous substances must be readily available. MSDS must include mitigation measures to ameliorate against any potential environmental impacts which may result from a spill, incorporating health and safety mitigation measures. The mitigation measures are to be applied in conjunction with the requirements of EEMP.			X	X	X	X	X	X	X	X	X	X	X				X							X			
	If soil becomes contaminated, it should be removed and placed on an impermeable surface (preferably a plastic sheet) and			X	X	X	X	X	X	X	X	X	X												X			





Impact	Mitigation Measure	Receiving Environment													Implementation Timeframe	Project Phase		Responsibility								
		Topography	Geology	Soil	Land Use	Land Capability	Air	Surface Water	Groundwater	Fauna	Flora	Noise	Visual	Waste Management		Traffic	Cultural & Heritage	Health & Safety	Employment	Climate	Demolition	Aftercare	Environmental Control Officer	Contractor	Project Manager	Site Manager
Generation of particulate matter from dismantling and transportation of redundant materials and waste.	Erosional channels on the stockpiles are to be managed by the application of erosion stabilising measures.			X	X	X	X	X				X									X	X				
	Tarpaulins should be used to cover material which has the potential to become airborne, being removed from site to prevent the production of dust.			X	X	X	X	X				X									X	X				
	Areas producing high concentrations of dust (access roads, soil stockpiles, dismantled material, etc.) should be sprayed with uncontaminated water, or a dust suppressant chemical to prevent dust generation.			X	X	X	X	X				X									X	X				
Generation of exhaust fumes from equipment, machinery and vehicles associated with the dismantling activities.	A complaints register must be provided to the public at an accessible location (i.e. site entrance point) to report any excessive dust incidents.			X	X	X	X	X				X									X	X				
	All vehicles and machinery onsite should be maintained to ensure that emissions being created are not in excess of the manufacturer's specifications of exhaust carbon dioxide output. Inspections should take place on a weekly basis.																					X	X			
	No burning of waste should be permitted onsite.																				X	X				
Release of volatile organic compounds (VOCs) associated with hydrocarbon spillages as well as potential spillages from equipment, machinery and vehicles during demolition.	The contractor should order any equipment to be repaired or withdrawn from use if evident that it is not operating optimally.																				X	X				
	Personal protective equipment (PPE) should be provided to all onsite employees.																					X	X			
	All hydrocarbon spillages are to be cleaned as soon as practically possible with the use of spill kits onsite. In cases where the content of the spillage is unknown, the contractor is to test the material or assume hazardous and treat as such. Remediation and subsequent disposal should follow.																					X	X			
Release of VOCs from potential rupture of the transformers and structures associated with the substation located onsite.	The transformers are located within a bunded area, however, spill kits are to be placed nearby to ensure any rupture is appropriately cleaned and the resultant waste material managed and disposed of according to the type of waste. Refer to Emergency Preparedness and Response Procedure (Appendix A).			X	X	X	X	X				X									X	X				
				X	X	X	X	X				X									X	X				



Impact	Mitigation Measure	Receiving Environment													Implementation Timeframe	Project Phase		Responsibility								
		Topography	Geology	Soil	Land Use	Land Capability	Air	Surface Water	Groundwater	Fauna	Flora	Noise	Visual	Waste Management		Traffic	Cultural & Heritage	Health & Safety	Employment	Climate	Demolition	Aftercare	Environmental Control Officer	Contractor	Project Manager	Site Manager
Incorrect management of contaminated soil identified onsite could have an impact on surface water runoff.	On identification of any spillage, the spillage is to be managed according to the EMP, the MSDS and the Emergency Preparedness and Response Procedure in an effort to prevent the contaminated material from entering nearby areas via a surface water medium.  If soil becomes contaminated, as a minimum it should be removed and placed on an impermeable surface (preferably a plastic sheet) and covered with a similar material to minimise surface water and soil contamination until the soil can be removed from the site.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X			
Onsite disposal of materials (waste) associated with the dismantling activity could have an impact on the surface water runoff.	All waste is to be collected and transferred by a permitted waste contractor in accordance with the South African National Standard 10228 and disposed of at a permitted landfill site (unless required for reuse, recycling or treatment purposes). All records of waste removed, transported and disposed of is to be retained for a period of 5 years. Similarly, safety disposal certificates are to be retained as proof of correct disposal.  Hazardous waste may not be stored onsite for a period longer than 90 days prior to disposal.  Hazardous waste stored onsite should be undertaken in a manner which does not lead to contamination of soils, surface water, groundwater or air quality (i.e. contained within an impermeable container with not access to pollution pathways).  Under no circumstances will any waste material generated from the dismantling project be disposed of onsite permanently.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X			
The permeation of contaminated surface water may have an impact on underlying groundwater off the site.	A clean and dirty water system is present at the Klipfontein Concentrator. All dirty water (i.e. water originating within the site) is directed to drainage sumps and contained within the site boundary. All clean water is directed around the site.  If soil becomes contaminated, it should be removed and placed on an impermeable surface (preferably a plastic sheet) and covered with a similar material to minimise surface water and soil contamination until the soil can be removed from the site.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X			

Impact	Mitigation Measure	Receiving Environment													Implementation Timeframe	Project Phase		Responsibility								
		Topography	Geology	Soil	Land Use	Land Capability	Air	Surface Water	Groundwater	Fauna	Flora	Noise	Visual	Waste Management		Traffic	Cultural & Heritage	Health & Safety	Employment	Climate	Demolition	Aftercare	Environmental Control Officer	Contractor	Project Manager	Site Manager
Potential contamination of groundwater sources associated with mismanagement of materials generated from the dismantling process.	A spill kit should be available at all times during the decommissioning activities.			X	X	X	X	X	X	X	X	X	X	X							X	X	X			
	All water that is dewatered from existing sumps is to be pumped directly into Intermediate Bulk Containers (IBCs).			X	X	X	X	X	X	X	X	X	X	X							X	X	X			
	The water can be tested, and should the results indicate that no contaminants (hydrocarbons) are present; the water can be used for dust suppression activities.			X	X	X	X	X	X	X	X	X	X	X							X	X	X			
	If the water is deemed contaminated, the water should be treated at an existing licensed plant or alternatively disposed of as hazardous waste.			X	X	X	X	X	X	X	X	X	X	X							X	X	X			
Potential contamination of groundwater sources associated with mismanagement of materials generated from the dismantling process.	All materials resulting from dismantling are to be immediately removed from site or stored temporarily prior to removal from site.			X	X	X	X	X	X	X	X	X	X								X	X	X			
	The temporary storage is to be undertaken on an impermeable surface in the case of dangerous goods.			X	X	X	X	X	X	X	X	X	X								X	X	X			
	Inert waste to be temporarily stored in a designated area which is sign boarded to ensure awareness of any safety related issues.			X	X	X	X	X	X	X	X	X	X								X	X	X			
Fauna within the site may be disturbed during the decommissioning activities.	If soil becomes contaminated, it should be removed and placed on an impermeable surface (preferably a plastic sheet) and covered with a similar material to minimise surface water and soil contamination until the soil can be removed from the site.			X	X	X	X	X	X	X	X	X	X									X	X	X		
	Vehicles, machinery and equipment should be limited to pre-defined access routes within the Kipfontein Concentrator thereby minimising the overall footprint of the Proposed Project.			X	X	X	X	X	X	X	X	X	X								X	X	X			
Fauna within the site may be disturbed during the decommissioning activities.	The area disturbed by the Proposed Project should be the minimum required.			X	X	X	X	X	X	X	X	X	X								X	X	X			
	If rare or protected plant species are found on-site, a permit needs to be acquired for their relocation. The South African National Biodiversity Institute (SANBI) must be approached in order to give input and assist with the relocation.				X	X	X	X	X	X	X	X	X	X							X	X	X			



Impact	Mitigation Measure	Receiving Environment													Implementation Timeframe	Project Phase		Responsibility								
		Topography	Geology	Soil	Land Use	Land Capability	Air	Surface Water	Groundwater	Fauna	Flora	Noise	Visual	Waste Management		Traffic	Cultural & Heritage	Health & Safety	Employment	Climate	Demolition	Aftercare	Environmental Control Officer	Contractor	Project Manager	Site Manager
activities.	Regular toolbox talks are to be held within which hunting and poaching should be noted and prohibited onsite.																				X		X			
	Issue information flyers containing all actions prohibited onsite including that of poaching and hunting.																				X	X	X			
	Erect posters to notify and emphasize the prohibition of such acts.																				X		X			
	Vehicles, machinery and equipment should be limited to pre-defined access routes.																				X		X			
The impact of demolition of infrastructure may lead to the disturbance and /or destruction of vegetation occurring within the site boundary.	Noise abatement equipment should be retrofitted onto demolition equipment and machinery if generating excessive noise.																				X		X			
	Demolition activities should be limited to daylight hours for both disturbance and safety reasons associated with fauna and humans.																				X		X			
	As little vegetation as possible should be removed from the site in order to maintain as much biodiversity as possible and to reduce soil erosion.																				X		X			
The destruction of endemic ecosystems that have developed on the site may be destroyed during decommissioning activities.	Vehicles, machinery and equipment should be limited to pre-defined access routes within the site.																				X		X			
	RPM-RS is to ensure that any alien and/or invasive plant species identified onsite are removed and disposed of in an adequate manner. Should significant ingress occur a specialist should be contacted to advise on the most reasonable practical solution.																				X		X			
Alien and invasive plant species may be introduced during the decommissioning activities.	RPM-RS to manage alien and invasive species according to the following guidelines:																				X		X			
	<ul style="list-style-type: none"> <li>■ Weeds, alien and invasive vegetation must be removed should ingress occur.;</li> <li>■ Monitor alien species ingress; and</li> <li>■ Topsoil containing alien species seed is not to be used during site rehabilitation.</li> </ul>																				X		X			
	Topsoil that is potentially contaminated with the seed of alien invader plants will not be permitted for use during the rehabilitation phase unless adequately treated and confirmed clear of alien species.																				X		X			
																						X		X		

















---

## 3 Environmental Code of Conduct

One of the objectives of the Draft EMPr is to ensure that the entire workforce, contractors, sub-contractors and other staff involved in the Proposed Project have an understanding of environmental issues and potential impacts of site activities. This example of an environmental code of conduct provides the basic rules that should be strictly adhered to. It is recommended that the Code of Conduct be translated into the appropriate language of the construction workers and placed onsite. It is the responsibility of the Environmental Control Officer to ensure that each contractor, sub-contractor and workforce understand and adhere to the Code of Conduct.

### 3.1 Pollution Prevention

- Littering will not be tolerated;
- All waste is to be placed in the correct waste containers provided;
- Only use the toilet facilities provided;
- Immediately report to your supervisor when you spill, or notice a hazardous substance being spilled, or when you see a vehicle, piece of machinery or container that is leaking fuel, oil or other hazardous substances; and
- If you spot any litter lying around – please pick it up and throw it in the correct waste container.

### 3.2 Trespassing

- Never climb over any fence or trespass on private property;
- You are not allowed to enter neighbouring properties unless authorised to do so by the land owner or the operator of the land;
- Maintain the character and visual quality of the area; and
- Never deface, draw or cut lettering or any other markings on trees, rocks or buildings in the area.

### 3.3 Fire Control

- No fires are allowed onsite;
- Make sure you are familiar with firefighting procedures;
- Make sure you are aware of the locations of all firefighting equipment; and
- No burning of waste is allowed onsite.

### 3.4 Caring for Plants and Animals

- Strictly leave all animals alone – never tease, catch or set devices to trap or kill any animals; and
- Never damage, chop down or remove any tree or shrub (unless you are instructed to do so).

## 4 Environmental Emergency and Response Procedure

RPM-RS has developed and implemented an ISO 14001:2004 EMS which has resulted in all significant environmental aspects being identified and rigorously managed.

The Minerals and Petroleum Resources Development Act (No. 28 of 2002) (MPRDA) regulations Section 51(b) (iii) require that RPM-RS implements procedures for environmental related emergencies and remediation. In addition, Section 4.4.7 of the EMS standard ISO 14001:2004 requires that the organisation establish and maintain procedures to identify potential for and respond to accidents and emergency situations, and for preventing and mitigating the environmental impacts that may be associated with them. The organisation shall review and revise, where necessary, its emergency preparedness and response procedures, in particular, after the occurrence of incidents where practicable. The organisation shall also periodically test such procedures where practicable.

The EMS, as briefly mentioned above, identifies and ensures management of environmental emergencies and remediation through an emergency preparedness and response plan. An effective, comprehensive, well-considered and tested environmental emergency preparedness and response plan has the potential to save lives, prevent unnecessary damage to company and other property and to manage environmental risk in the event of a large chemical spill, oil spill or fuel spill. RPM-RS has an emergency preparedness and response plan (as contained in **Appendix A**), which is certified and therefore complies with the requirements of both the MPRDA and ISO 14001:2004. The purpose of the mine emergency preparedness and response plan is to provide guidance to employees and contractors as to their responsibilities in the event of an actual environmental emergency or potential environmental emergency at the mine, with regards to chemical, oil, fuel, spills and other incidents.

The emergency preparedness and response plan has been developed to provide guidance to ensure that:

- Actual and potential emergency situations or accidents have been identified;
- Legal liability is managed and danger to the environment, personnel, contractors and non-employees is minimised;
- Public relations are effectively managed during and following an emergency; and
- Reporting is effective and corrective/follow-up actions are implemented.

The said emergency preparedness and response plan will be applied to the Proposed Project.

## 5 Monitoring Programme

### 5.1 Monitoring

The existing EMS will ensure conformance with the Draft EMPr and conditions of the EA through the contract/work instruction specifications.

The monitoring that will be required during the decommissioning/demolition phase includes monitoring actions per activity/facility. The following environmental aspects will be monitored with reference to the Proposed Project:

- Air quality;
- Surface water quality;
- Groundwater;
- Flora; and
- Fauna.

---

The Environmental Control Officer will ensure compliance with the Draft EMPr and conditions of the EA during decommissioning and demolition activities, and will manage the monitoring actions described herein. Furthermore, the Environmental Control Officer will report to the Site Manager should any non-compliance be identified or corrective action deemed necessary. Only in severe cases of non-compliance, or repeated offences, will the Environmental Control Officer be required to report to the Site Manager.

## 5.2 Non-conformance and Corrective Action

The auditing of the decommissioning and demolition activities may identify non-conformances to the Draft EMPr and conditions of the EA. Non-conformances may also be identified through incidents, emergencies or complaints recorded. In order to correct non-conformances, the source must be determined and corrective actions must be identified and implemented.

### 5.2.1 Compliance with Environmental Authorisation and Draft Environmental Management Programme

- A copy of the Draft EMPr and conditions of the EA will be available onsite at all times for the duration of the decommissioning and demolition activities;
- All persons employed by a contractor or their sub-contractors will abide by the requirements of the Draft EMPr and conditions of the EA;
- Any members of the workforce found to be in breach of any of the specifications contained within the draft EMPr and conditions of the EA may be ordered by the Site Manager to leave the site. A contractor will not direct a person to undertake any activity which would place them in contravention of the specifications contained within the Draft EMPr and conditions of the EA;
- Should a contractor be in breach of any of the specifications contained in the Draft EMPr and conditions of the EA, the Site Manager will, in writing, instruct the contractor responsible for the incident of non-compliance regarding corrective and/or remedial action required, specify a timeframe for implementation of these actions, implement a penalty and/or indicate that work will be suspended should non-compliance continue;
- Should non-compliance continue, further written notification will be forwarded to the contractor responsible for the incident of non-compliance outlining the required corrective and/or remedial action, the timeframe for implementation, penalties and/or work will be suspended as specified previously; and
- Departmental officials will be given access to the property referred to in the BA Report and Draft EMPr for the purpose of assessing and/or monitoring compliance with the Draft EMPr and conditions of the EA, at all reasonable times.

### 5.2.2 Duty of Care

All personnel involved with the decommissioning and demolition activities onsite will be responsible for implementing measures to prevent pollution or degradation of the environment from occurring, continuing or recurring. Insofar as such harm to the environment is authorised by law, or cannot reasonably be avoided or stopped, personnel shall minimise and rectify such pollution or degradation of the environment.

## 5.3 Documentation and Reporting

The following documentation must be kept onsite in order to record compliance with the Draft EMPr and conditions of the EA:

- Record of complaints; and
- Record of emergencies and incidents.

The contractor will be required to report on the following:



- Environmental incidents involving contractor/RPM-RS employees and/or the public;
- Environmental complaints and correspondence received from the public; and
- Incidents that cause harm or may cause harm to the environment.

The above records will form an integral part of the Environmental Control Officer's reports and records maintained for the duration of the Proposed Project. These records will be kept with the Draft EMPr and conditions of the EA, and will be made available for scrutiny if so requested by the Site Manager or his delegate.

The contractor will ensure that the following information is recorded for all environmental complaints/incidents/emergencies:

- Nature of complaint/incident/emergency;
- Causes of complaint/incident/emergency;
- Party/parties responsible for causing complaint/incident/emergency;
- Immediate actions undertaken to stop/reduce/contain the causes of the complaint/incident/emergency;
- Additional corrective or remedial action taken and/or to be taken to address and to prevent reoccurrence of the complaint/incident/emergency;
- Timeframes and the parties responsible for the implementation of the corrective or remedial actions;
- Procedures to be undertaken and/or penalties to be applied if corrective or remedial actions are not implemented; and
- Copies of all correspondence received regarding complaints/incidents/emergency.

## 5.4 Public Complaints

A signboard must be erected at the entrance to Klipfontein Concentrator, informing the public of the decommissioning and demolition activities taking place. The signboard must include the following information:

- The name of the contractor; and
- The name and contact details of the site representative to be contacted in the event of emergencies or complaint registration.

## 6 Environmental Awareness Plan

The NEMA requires that an environmental awareness plan be submitted as a part of the EMPr submission. The Proposed Project will utilise the existing RPM-RS Communication, Consultation and Involvement Plan (as attached in **Appendix B**). This Environmental Awareness Plan was established as part of the development and implementation of the certified ISO 14001:2005 EMS.

To ensure all personnel working within the mine lease area, contractors and stakeholders are environmentally aware of the consequences of their actions on the environment while employed by RPM-RS; an Environmental Awareness Plan (**Appendix B**) has been established that is implemented in accordance with the NEMA, as well as the existing EMS utilised at RPM-RS.

The following methodology is being used to implement and ensure environmental awareness:

- Internal Communication;
- Standard Meetings;
- Environmental Topics;
- External Communication;
- Complaints; and

- 
- Training.

## 6.1 Internal Communication

Internal Communication of environmental issues to ensure environmental awareness will be done by the following means:

- Meetings;
- Memos;
- Notice boards;
- Briefs;
- Reports;
- Monthly themes;
- Daily operational bulletin;
- Newsletter;
- E-mail;
- Telephone; and
- Induction training.

## 6.2 Standard Meetings

The following standard meetings are held at specific times to ensure that environmental awareness; potential problems, complaints etc. are heard and addressed proactively:

- Safety, Health and Environmental Meetings are held monthly by the Senior Management;
- Safety, Health and Environmental Meetings are held daily, weekly and monthly by the different operations and environmental issues are one of the topics on the agenda;
- Monthly EMS meetings are held where environmental issues relating to the EMS are discussed; and
- All Employees can also communicate to Senior Management through their reporting lines or by using complaint forms and incident forms to improve communication.

## 6.3 Environmental Topics

The following environmental topics are covered during the standard meetings:

- Water Quality;
- Air Quality;
- Power Consumption;
- Waste Management;
- Fauna and Flora;
- Emergency Procedures;
- Incidents Reporting;
- Systems; and
- General Environmental Awareness (e.g. World Environment Day, National Arbour Day).

## 6.4 External Communication

Any environmental issues regarding the Proposed Project will be communicated to/from Head Office (in terms of Divisional and Group Communication) by means of the following:

- Fax or E-mail;
- News briefs from Head office;
- Formal meetings and workshops;
- Quarterly environmental report; and
- Annual environmental report.

Communication to community, government, neighbouring mines, farmers, land owner, environmental Groups, NGOs and other stakeholders will be communicated to ensure environmental awareness by means of the following:

- Fax or E-mail;
- Postal system;
- Telephone;
- Formal meetings; and
- Open days.

## 6.5 Training

The following facets to training form part of the Environmental Awareness Plan:

- Environmental awareness training is given at induction when personnel return from leave; and
- Environmental competency training is given to supervisory personnel at the Mine and contractors working at the Mine.

# 7 Closure Plan

A final RPM-RS closure plan has been developed by RPM-RS (SRK, 2012, Report Number: 435110). The Klipfontein Concentrator is located within the RPM-RS mine lease area and as such the property is included within the closure planning of the mine. The following subsections include extracts from the 2012 Final RPM-RS closure plan (Closure Plan) and as such this section should be read in conjunction with the Closure Plan. Financial provision has been provided for in the existing mine closure trust fund as submitted to the DMR. The Closure Plan can be provided upon request by the Department however for the purposes of the Proposed Project, this section is considered sufficient. Furthermore, it should be noted that the Closure Plan is currently under consideration by the DMR.

## 7.1 Closure Objectives

### 7.1.1 Environmental Impact Management

Existing impacts on the environment will be mitigated and managed by implementing the management and mitigation requirements as identified in **Table 2-3**. Upon mine closure (i.e. upon reaching life of mine) the Klipfontein Concentrator site will be rehabilitated in accordance with the following documentation:

- Anglo American Platinum's best practice guidelines;
- The MPRDA and associated Regulations;

- 
- Section 28 of the NEMA;
  - Other applicable South African legislation;
  - The Closure Plan; and
  - This report.

The Closure Plan states the following objectives relating directly to the Klipfontein Concentrator:

- Adhere to all statutory and other legal requirements;
- Ensure safety and health of all stakeholders during closure and post closure and that communities using the site after closure are not exposed to unacceptable risks;
- Ensure that closure supports productive uses considering pre mining conditions and are in agreement with commitments to stakeholders;
- Physically and chemically stabilise remaining structures to minimise residual risks;
- Promote bio-diversity and biological sustainability to the maximum extent practicable; and
- Utilise closure strategies that promote a self-sustaining condition with little or no need for on-going care and maintenance.

### 7.1.2 Decommissioning and Rehabilitation

The Proposed Project involves the formal decommissioning of the Klipfontein Concentrator. Following receipt of EA, the Klipfontein Concentrator will be formally decommissioned at which point the dismantling and demolition of the structure will begin. The rehabilitation of the property on which the concentrator is located will be rehabilitated in accordance with the documentation as described in **Sub-section 7.1.1**.

## 7.2 Closure Actions

The information contained in this section was abstracted from the Closure Plan. The plan includes reference to the post closure land capability requirements which are specific to individual areas within the mine lease area. The post closure land use dictates the final surface preparation required to achieve the post closure land use. **Figure 4** illustrates the planned post closure land uses for the RPM-RS mine lease area (the Proposed Project location is indicated in black). The post closure land use objective for the Klipfontein Concentrator area is grazing.

Successful contouring and re-vegetation of the Proposed Project area will help control soil erosion, maintain soil productivity and reduce sediment loading in streams. As part of biodiversity management, re-vegetation will enhance the resulting biodiversity opportunities by utilising non-invasive plants that fit the criteria of the habitat (e.g. soils, water availability, slope and other appropriate environmental factors). Invasive species will be avoided and the area will be managed to control the spread of these species. This report (the EMPr) supports the objectives of the Closure Plan. **Table 7-1** indicates the closure action plans related to the Proposed Project.

It should be noted however, that **Table 7-1** refers to actions to be undertaken upon mine closure. The Proposed Project supports mine closure, in terms of the EMPr contained within **Section 2**, however the conditions contained in **Table 7-1** will only become binding once mine closure is reached.

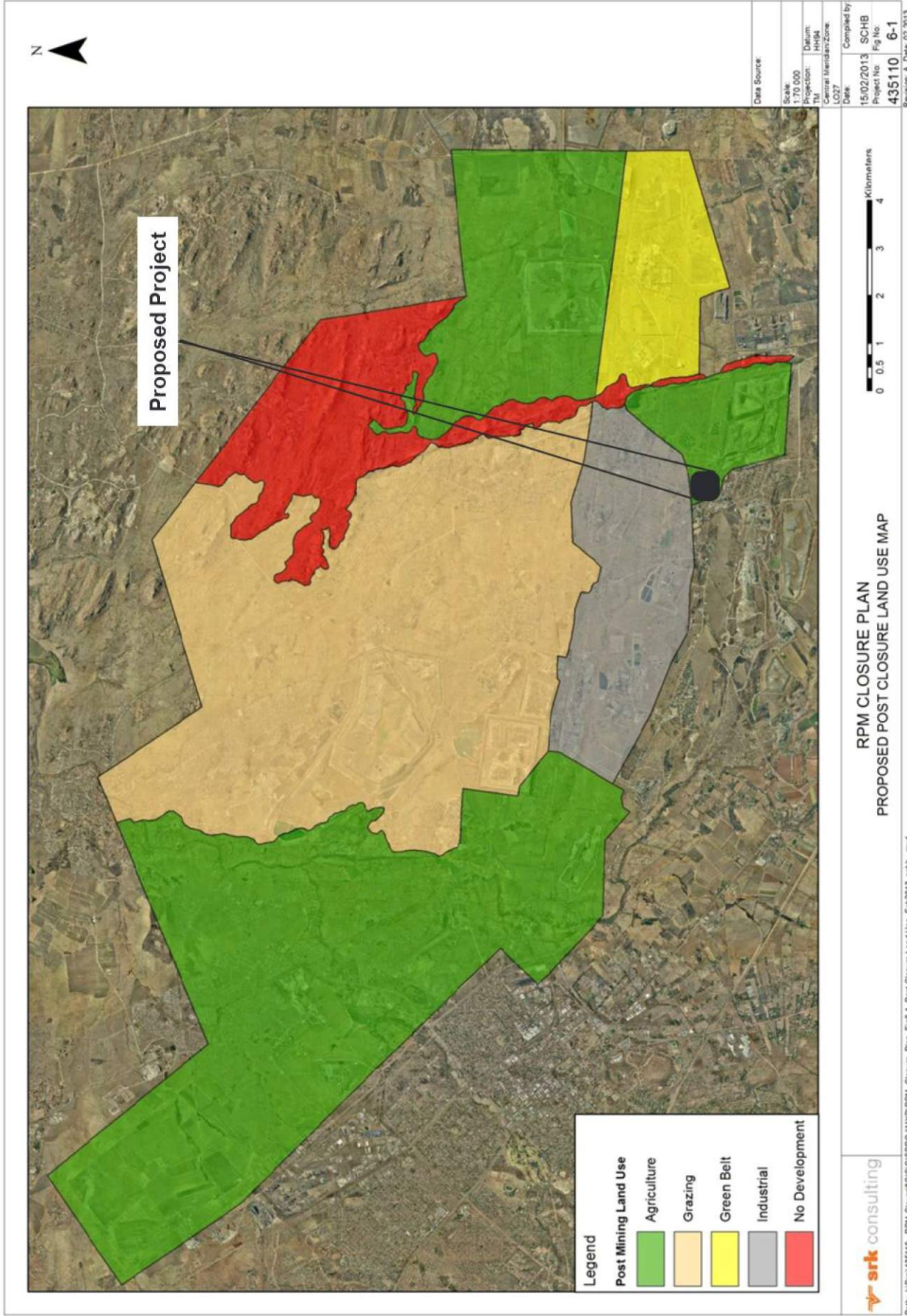


Figure 4: Proposed Post Closure Land Use Plan (SRK, 2012)

**Table 7-1: Actions Plan for RPM-RS Concentrators - Klipfontein**

Concentrator Closure Action Plan
All soil, contaminated with hydrocarbons, will be identified, excavated, if possible to at least 200 mm below the contaminated zone.
All tanks, pipes and sumps containing hydrocarbons will be flushed or emptied.
Removed soils will be treated by bioremediation or appropriately disposed as determined by the nature and extent of the contamination.
RPM-RS will flush or empty all tanks, sumps and pipes containing non-biodegradable chemicals (liquid solid or gas) to ensure that chemical residue are removed from the site.
Liquid storage tanks (including septic tanks) will be emptied, the structure demolished and sub-surface holes filled.
All equipment and plant in which chemicals have been stored or transported are to be cleaned and disposed of in a suitable disposal facility.
Process any remaining ore or concentrate prior to closure, in the process depleting accumulated chemical stocks.
All power and water services to be disconnected and certified as safe prior to commencement of any demolition works.
A survey for the presence of any asbestos containing materials will be performed. Any asbestos detected will be disposed of as hazardous waste.
Remove all radiation sources and dispose of appropriately.
All remaining inert equipment and demolition debris will be placed in nearest shaft or any alternative that may be identified.
All tanks, pipes and sumps containing hydrocarbons or any other solution/ fluids to be flushed or emptied prior to removal to ensure no hydrocarbon/chemical residue remains.
All above ground electrical, water and other service infrastructure and equipment to be removed and placed in disposal pits or the designated temporary salvage yards.
Dams to be emptied by evaporation and where necessary alternative management may be considered. Sediments to be characterised and reprocessed or disposed of according to their chemical characteristics.
All pond liners to be salvaged/removed for disposal in designated landfills.
Demolition to be undertaken as per the action plan for "Infrastructure".
Topsoil to be replaced at thicknesses required to achieve post closure land use.
Establish vegetation as per the Vegetation Management Plan (to be developed).

*Kindly refer to the Closure Plan for the full details contained within the table (provided upon request).*

## 7.3 Post Closure

### 7.3.1 Monitoring and Maintenance

This EMPr accounts for the rehabilitation phase and includes reference to site monitoring and maintenance. In addition to the EMPr, RPM-RS have devised a site monitoring plan which will be revised during the first year of the closure period to reflect the post-closure monitoring requirements. A post-closure care and maintenance plan will also be prepared during the first year of the closure period. The objective of the monitoring plan will be to document the recovery of the RPM-RS lease area towards the closure land use goals, in accordance with the overall closure objectives. The monitoring that will be required during the post-closure period includes monitoring actions per activity/facility.

**Table 7-2** includes all monitoring requirements associated with RPM-RS Concentrator plants. The table makes reference to the environment, the criteria used, the indicators and the reporting requirements.

**Table 7-2: Monitoring requirements (following mine closure)**

Relinquishment Criteria			
Category	Criteria	Indicator	Reporting Requirements
<b>GROUND AND SURFACE WATER</b>	Compliance with the standards as per the WUL	Downstream water quality monitoring & groundwater modelling and plume monitoring	Monitoring report
<b>SOIL QUALITY</b>	Soil quality that complies with the Draft National Framework for Contaminated Land (DEA, 2010)	Soil quality in areas where contaminated identified	Results of soil quality assessment
<b>LAND PRODUCTIVITY</b>	Land capability and productivity as per land use plan	Land capability and productivity	Comparison to analogue areas and pre mining aerial photographs
			Socioeconomic survey
<b>EROSION</b>	Implementation or construction of erosion control measures	Engineered structures to control water flow	Evidence on rehabilitation report that required structures are in place and functioning
		Establishment of vegetation	See Vegetation below
<b>SAFETY/STABILITY</b>	Decommissioning of all buildings, structures and roads  Obtainment of water quality criteria and decommissioning of ponds	All buildings and surface infrastructure to be dismantled and removed from site. Roads should be removed and sloped to blend in with the natural landscape. Concrete pads should be buried and no visible man-made structures should remain	Photographic evidence that buildings and infrastructure has been removed.
		Water quality monitoring of water in structures	Monitoring report and photographic evidence
		Ponds decommissioned	

The monitoring that will be required during the post-closure period is summarised below:

- Air Quality: The operational monitoring network will be rationalised to monitor potential post closure impacts with dust samples being collected routinely from strategic positions;
- Surface water quality: Strategic water sample position will be identified and samples collected on a monthly basis. Analyses to include both chemical as well as suspended load measurements;
- Groundwater: Groundwater levels in boreholes as well as in-pit will be recorded quarterly. Groundwater samples will be collected and analysed for a suite of chemical parameters;
- Vegetation: Quarterly visual inspections to be undertaken in re-vegetated areas to assess vegetation establishment and provide early detection of erosion. Suitable plots within each area will be identified where quantitative ecological monitoring can be undertaken to determine species diversity and percentage cover; and
- General: Routine patrols to be carried out to determine the effectiveness of access control measures.

---

Annual reports will be prepared to document the results of the monitoring during the closure and post-closure phases. These reports will provide important information required to manage the on-going closure activities, with the data and reports being used to:

- Provide recommendations;
- Indicate where closure activities have not been successful;
- Provide information where care and maintenance is required during the post-closure period; and
- Indicate if closure criteria has been achieved.

## 7.4 Financial Provision for Closure

Regulation 527 of the MPRDA specifies that the Environmental Management Programme (EMPR) must include environmental objectives and specific goals for mine closure. The applicant for a mining right must make prescribed financial provision for the rehabilitation or management of negative environmental impacts, which must be reviewed annually (§41).

An environmental trust fund called the Platinum Producers' Environmental Trust was established for Anglo American Platinum mines during 1995 to satisfy the requirement for financial provision. All the Anglo American Platinum Operations contribute to the fund on an annual basis. Each Operation has a separate account in the fund. Anglo American Platinum is committed to update the total environmental liability on an annual basis. The latest closure liability assessment for RPM-RS makes provision for the Proposed Project under the concentrators section of the assessment. A copy of the 2011 Certificate of Approval for closure contributions from the DMR can be provided upon request.



## 8 Conclusion

The Klipfontein Concentrator was commissioned in 1931 and is located approximately 11km east of Rustenburg in the North West Province. The Klipfontein Concentrator had the capacity to crush approximately 120 000 tons of ore per month. Following the establishment of the UG2 and the Waterval Concentrators, RPM-RS decided to remove the Klipfontein Concentrator from active service. As such, the Klipfontein Concentrator is considered a redundant plant.

RPM-RS proposes to decommission and dismantle the infrastructure associated with the Klipfontein Concentrator to support the rehabilitation of the site. Certain infrastructure associated with the Klipfontein Concentrator will remain onsite as the infrastructure is still considered useful to RPM-RS.

The anticipated environmental impacts associated with the Proposed Project have been evaluated according to their significance, which is determined as a result of the consequence and likelihood. Consequence is a function of schedule, cost, quality, safety/health, legal and regulatory, reputation and environmental impact, whereas the likelihood of the impact is a function of the frequency of the activity and frequency of the incident/impact. The consequence multiplied by the likelihood gives the significance of the potential impact. All impacts were assessed in the Draft BA Report without and then with management measures in place. Mitigation and management measures have been devised within this report to reduce the significance of the impacts. The EMPr (this report) consolidates all mitigation and management measures devised for the Proposed Project (**Table 2-3**).

Due to the nature of the Proposed Project, no location alternatives were evaluated other than the no-go option. Stakeholder engagement was initiated upon receipt of a project reference number from the NWREAD in a transparent and comprehensive manner. All comments received from the public review periods will be recorded and responded to in the final BA Report. Based on the environmental baseline assessment, specialist input as well as the stakeholder engagement, a detailed impact assessment was undertaken and where relevant the necessary management measures have been recommended and included in this report.

In summary, the BA process assessed both biophysical and socio-economic environments and identified appropriate management and mitigation measures to address the negative impacts and promote the positive impacts. The biophysical impact assessment revealed that there are no environmental fatal flaws and no significant negative impacts associated with the Proposed Project should mitigation and management measures be implemented. In addition, it should be noted that the overall socio-economic impacts associated with the Proposed Project are positive should the mitigation measures contained in this report be applied. The positive impact on the socio-economic environment includes that of job creation by virtue of the commissioning of an external contractor.

WSP is of the opinion that should the identified mitigation and management measures be implemented, the Proposed Project ought to proceed in order to achieve the long term rehabilitation of the site and to apply the duty of care principal in terms of the NEMA. The decommission of the Klipfontein Concentrator forms part of the RPM-RS closure planning and thus is required to achieve the objectives of mine closure.

---

## 9 References

Allan, K. (2013): Environmental Management Programme Alignment and Consolidation - Rustenburg Platinum Mines. WSP Environmental Pty (Ltd), Johannesburg, South Africa.

Van Vollenhoven, A. (2014): A Report on the Updating of a Previous Cultural Heritage Impact Assessment for the EMPR Alignment and Consolidation Process at Anglo American Platinum: Rustenburg Platinum Mines – Rustenburg Section, Northwest Province. Archaetnos Culture & Cultural Resource Consultants, South Africa.

Unknown. (2012): Mandatory Code of Practice Rustenburg Concentrators: Emergency Preparedness and Response Procedure (Version: 4.0 Reference Number: RPMC-ALL-SHER-COP-0011). Anglo American Platinum, South Africa.

Unknown. (2005): Anglo Platinum Mine (Rustenburg Section) Biodiversity Management Plan. Clean Stream Environmental Services. Johannesburg, South Africa.

# Appendices

---

## Appendix A - Emergency Preparedness/Response Procedure

# MANDATORY CODE OF PRACTICE RUSTENBURG CONCENTRATORS





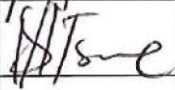
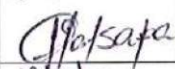
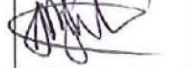
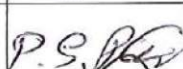
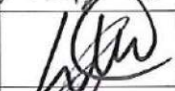

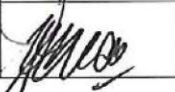
## EMERGENCY PREPAREDNESS AND RESPONSE

VERSION: 4.0

LAST REVISION DATE: 2012-08-29

FIRST IMPLEMENTATION DATE: 2009-08-26

REFERENCE NUMBER: RPMC-ALL-SHER-COP-0011

	NAME	POSITION	SIGNATURE	DATE
<b>AUTHOR:</b>	Barend Nortje	Safety Risk Manager		6/9/12.
<b>REVIEWED BY:</b>	Thabo Masilo	Chief Safety Officer		6/9/12
<b>REVIEWED BY:</b>	David Hadzhi	Environmental Coordinator		5/9/12
<b>REVIEWED BY:</b>	Jurie Van Brakel	Section Engineering Manager / Chairman of Standards Committee		5/9/12
<b>REVIEWED BY:</b>	Dineo Tsame	Occupational Hygiene Officer		6/9/12
<b>REVIEWED BY:</b>	Itumeleng Letsapa	Full Time Health and Safety Rep		6/9/12
<b>REVIEWED BY:</b>	Andries Myburgh	UASA Representative		6/9/12
<b>REVIEWED BY:</b>	Glorand Pule	NUM Representative		6/9/12
<b>RECOMMENDED BY:</b>	Dirk Crafford	Plant Manager Waterval Concentrator		5/9/2012
<b>RECOMMENDED BY:</b>	Piet Botha	Plant Manager UG2 Concentrator		05/09/2012
<b>APPROVED BY:</b>	Buks Marais	Manager Concentrators		6/9/2012

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

## Contents

3	Status of the Code of Practice.....	3
4	Drafting Committee .....	4
5	General Information .....	5
6	Terms and Definitions.....	5
7	Risk Management .....	7
8	Emergency Preparedness Programme.....	7
8.1	Emergency Preparedness Measures.....	8
8.2	Emergency Response Measures .....	11
9.	Contravention .....	19
9.1	Distribution .....	19
9.2	Additional Information.....	19
10	Safety Requirements for this Standard.....	19
	Emergency aspects addressed in other COP's .....	19
11	Implementation Plan.....	19
12	History of Changes .....	20
13	Record Control .....	20
14	References .....	21
15	Appendices.....	21
	Appendix B: Action list .....	21
1	Emergency Control: .....	22
	Appendix B: Action list .....	23

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

## **FOREWORD**

This Code of Practice is prepared in accordance with the DMR Guideline Ref. # DME 16/3/2/1-A5. The purpose of this Code is to document the practices and procedures to be applied to address emergency preparedness and response. The Code is a management tool intended to add value to and enhance the Business Unit. If this objective is not achieved, the Code is not effective and should be reviewed.

Consequently, the Code should be a live document that is in continual use as a guide and a reference. All decisions made and actions should, as a matter of routine, be vetted and reviewed in terms of the Code. Responsible managers and supervisors should be conversant and familiar with the contents of the Code.

This Code is intended to be the framework for the management plan for emergency preparedness and response.

### **3 Status of the Code of Practice**

- This Code of Practice was drawn up in accordance with Guideline DMR Reference Number Department of Mineral and Resources 16/3/2/1-A5 issued by the Chief Inspector of Mines.
- This is a mandatory Code of Practice in terms of section 9(2) and (3) of the MHSA;
- This Code of Practice may be used in an accident investigation/inquiry to ascertain compliance and also to establish whether the COP is effective and fit for purpose;
- The latest revision of the Code of Practice shall supersede all earlier issues.
- All managerial instructions, recommendations, procedures (voluntary Codes of Practice) and standards on the relevant topics must comply with the Code of Practice and must be reviewed to ensure compliance.

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

#### 4 Drafting Committee

Full Name	Title	Designation	Affiliation	Experience
Dineo Tsame	Ms.	Occupational Hygiene Officer		
Barend Nortje	Mr.	Safety Risk Manager	-	14 years
David Hadzhi	Mr.	Environmental Coordinator		11 years
Thabo Masilo	Mr.	Chief Safety Officer		15 years
Jurie van Brakel	Mr.	Section Engineering Manager/ Chairperson Standards Committee	Resident Engineer's Association	24 years
Itumeleng Letsapa	Mr.	Full- Time Health and Safety Representative	-	16 years
Dirk Crafford	Mr.	Plant Manager Waterval Concentrator	MMMA SAIMM	23 years
Piet Botha	Mr.	Plant Manager UG 2 Concentrator	MMMA SAIMM	32 years
Glorand Pule	Mr.	NUM representative	UNION Association	11 years
Andries Myburgh	Mr.	UASA representative	UNION Association	4 years
Buks Marais	Mr.	Manager Concentrators	MMMA SAIMM	35 years



REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

## 5 General Information

Name of Operation/Business Unit	Rustenburg Concentrators
Owner	Anglo American Platinum
Location	Portion J of the farm Waterval 303 JQ District
Magisterial District	Rustenburg
Contact details	Mr. WJ. Marais  Manager Concentrators: Rustenburg  Telephone: +27 (0) 14 598 2360  Fax: +27 (0) 14 598 2039
DMR Reference number	3068
Commodities produced	The group produces platinum together with other platinum group metals (palladium, rhodium, iridium, ruthenium and osmium) as well as gold and some base metals (nickel, copper and cobalt sulphate).
Mining method	Concentrating.
Unique features	Rustenburg Concentrators comprises of the following areas: <ul style="list-style-type: none"> <li>• Waterval Concentrator</li> <li>• Waterval UG 2 Concentrator</li> <li>• Metallurgical Services</li> </ul>

## 6 Terms and Definitions

“Aggravating circumstances”: Situations/conditions that could make an emergency situation worse

“Contingency plan”: A written plan that indicates services that will be used during prolonged business interruptions to ensure continued production.

“Credible incident”: An incident with the potential to become an Emergency situation.

“DMR” means the Department of Mineral Resources;

“Emergency” means a situation, event or set of circumstances at a mine that could threaten the health or safety of persons at or off the mine, and which requires immediate remedial action, such as the evacuation, rescue or recovery of persons, to prevent serious injury or harm, or further serious injury or harm, to persons;

“Emergency committee” A group of management individuals from all disciplines who performs tasks associated with their fields of expertise. (HR, Safety, Engineering, etc.)

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

“Person in charge”: A knowledgeable person on site at the Emergency situation, who controls the actions of personnel and use of equipment.

“Emergency response team”: A team of 4 individuals per shift who have received formal training in the handling of the identified credible incidents. The team will consist of a team captain and 3 team members.

“Emergency controller/ Coordinator”: A knowledgeable person on site at the Emergency situation, who controls the actions of personnel and use of emergency equipment.

“Environmental”: An unplanned event, which has the potential to result in a significant adverse environmental impact and/or could result in legal liability to RPMC in terms of environmental legislation commitments.

“Material Safety Data Sheet”: Contains all relevant information concerning risks associated with the material, appropriate use and handling requirements and steps to be taken in the event of a spill or accident involving the product.

“Mitigating circumstances”: People, Equipment, Services and Materials that could reduce the impact of the emergency on the performance of the RPMC

“MHSA” means Mine Health and Safety Act, 1996 (Act No.29 of 1996);

“Place of safety” (Emergency Assembly Point) means any place, which, despite an emergency, can sustain life for the duration of the emergency and is adequate in size to accommodate the maximum number of affected persons likely to be present in the area served by it.

“Route of Action”: A guide that provides a list of actions that must be followed by an individual/team.

“SHE Emergency”: A SHE emergency is an unplanned event, which has the potential to result in a significant adverse Safety, Health or Environmental impact and/or could result in legal liability to RPMC in terms of SHE related legislation commitments and could expose Anglo Platinum to litigation or public embarrassment. The event occurs over the short term and requires an immediate response.

**Abbreviations**

Abbreviation	Explanation
RPMC	Rustenburg Platinum Mine Concentrators
ARL	Acceptable Risk Level
COP	Code of Practice
RPMC	Rustenburg Platinum Mine Concentrators
DMR	Department of Mineral Resources
GPAD	Group Public Affairs Department
HOD	Head of Department
ISO	International Standards Organization
MSDS	Material Safety Data Sheet
OHSAS	Occupational Health Safety Assessment Series
PPE	Personal Protective Equipment
RWD	Return Water Dam
SAPS	South African Police Services
SHE	Safety, Health, Environment
CCD	Corporate Communications Department

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

## 7 Risk Management

The philosophy to which is adhered to, is one of managed of risk. This implies that the risk can only be controlled through the application of ongoing management. Section 11 of the MHSA requires the employer to identify hazards, assess the health and safety risks to which employees may be exposed while they are at work, and record the significant hazards identified and risk assessed. The employer must determine how the significant risks identified in the risk assessment process must be dealt with, having regard to the requirement of section 11(2) and (3) that, as far as reasonably practicable, attempts should first be made to eliminate the risk, thereafter to control the risk at source, thereafter to minimise the risk and thereafter, insofar as the risk remains, to provide personal protective equipment and to institute a programme to monitor the risk. To assist the employer with the risk assessment all possible relevant information such as accident statistics, ergonomic studies, research reports, manufacturers specifications, approvals, design criteria and performance figure for all relevant equipment should be obtained and considered. In addition to the periodic review required by section 11(4) of the MHSA, the COP should be reviewed and updated after every emergency, altered circumstance, or if significant changes are introduced to procedures, mining and ventilation layouts, mining methods, plant or equipment and material.

## 8 Emergency Preparedness Programme

- Without proper guidance and training it is almost certain should the employees be faced with a sudden threat, they will follow their own natural instinct, which could result in chaos and panic. The effect of an uncontrolled emergency situation could be catastrophic and cause complete disruption of all operations.
- It is essential that corrective action, taken to cope with an emergency which will be coordinated and disciplined, in order to prevent a disaster.
- Not all the aspects of this emergency plan will be applicable in every situation, as this plan suits local circumstances and only acts as a guideline. One essential common feature is the necessity for efficient communications.
- Privileged information of the emergency should only be divulged on a “need to know” basis.
- An Emergency Controller/ Coordinator, normally the most senior person on site, will coordinate site activities, with the assistance of the site HOD Team.
- The Emergency Controller/ Coordinator (most senior person at the scene) should be informed as soon as possible of any emergency and kept informed of developments.
- All persons who suffered injuries due to the emergency situation or during the emergency Situation must be transported to the RPM Hospital for treatment.

### HOD/Official Team Structure:

Emergency Coordinator: Plant Manager

HOD's/Officials in

: **Production**

Day Shift Leader/Production Overseer

#### **Human Resources**

HR Officer/Coordinator

#### **Engineering**

Section Engineer/Section Engineering Manager

#### **Protection Services**

Protection Services Manager/ Protection Services

Superintendent

#### **Supply Chain**

Stores Controller/Buyer

#### **Safety, Health and Environmental**

Safety/ Occupational Hygiene /Environmental

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

## **8.1 Emergency Preparedness Measures**

### **8.1.1 Detection and early warning systems:**

Warning systems are used to provide warnings to employees and external stakeholders that are close to or may be affected by a SHE emergency. Contamination of streams and risk to surrounding communities may extend to areas outside of the boundary of the mine site. Warnings to nearby communities may be required.

#### **On site warning systems at Rustenburg Concentrators include:**

- Fire alarms;
- Portable fire alarm (in case of power failure);
- Telephone systems;
- Computer Networking;
- Two-way Radio's;

There are no formalized warning systems for surrounding communities.

### **8.1.2 Communication systems;**

In the event of an emergency the Control Room must be contacted. The Control Room operator will contact the emergency coordinator as per notification flowchart – Annexure A.

#### **Contact Numbers**

Emergency contact numbers are available on the Rustenburg Concentrators emergency telephone list. The emergency telephone list is available on notice boards. The number for the control room is:

1. Waterval UG2 Control Room – 014 598 2726
2. Waterval Retrofit Control Room – 014 598 2362
3. Protection Services (Main Control Room) – 014 598 2307 / 2111/ 2441
4. Metallurgical Services (Main control room) - 014 598 2307 / 2111/ 2441

## **Communications with external parties and Employees**

The Corporate Communications Department (CCD) will be responsible for liaison with the media in respect of all crises within Anglo American Platinum group companies, unless specified otherwise by the CCD. The complete procedure for media liaison is available in the Group Public Affairs Policy of Anglo American Platinum.

Communication with the Principal Inspector of Mines must be done immediately by the Concentrator Manager or Section Engineering Manager if any Emergency has occurred as required by the MSHA for reporting.

In all cases, employees and contractors are drawn to Procedure Communication, Consultation and Awareness Systems Procedure, which also applies during and after emergency situations.

## **Testing**

Emergency procedures will be tested (emergency mock- ups) as per emergency drill schedule and findings of the mock-ups are captured on IRM.net and records kept by the plant safety officers, a copy of the report are sent to the Document Controller. The annual schedule is available from the Safety

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

Risk Manager. Testing of communication systems, Emergency services response and on-site reaction will be addressed during emergency drills.

**8.1.3 Emergency medical care;**

First Aide will be provided on site by trained level1 First Aid Certificate holders. (All Supervisors of all shifts of all sections as per shift schedule (e.g. Morning / afternoon / night) are level1 First aid Certificate holders).

All injuries are referred to Netcare 911. When requesting an ambulance, the following number should be dialled 011 209 8782 speed dial 60699. This number will connect to the Anglo American Platinum dispatching service of Netcare 911 who will dispatch an ambulance and paramedics to assist. The speed-dial number is clearly displayed with the number, so as to ensure that all employees can contact the number, at all times, while at work.

All medical waste will be sent with the Ambulance in a red disposal bag and will not be disposed on site.

**8.1.4 Evacuation and escape procedures;**

Evacuation Procedures

- Testing of the warning systems shall be carried out monthly.

**8.1.4.1. Unplanned Evacuations for on Site Emergencies**

Procedure is as follows:

Evacuation Leader - Shift A, Shift B, Shift C, Shift and Shift D:

**Unplanned Evacuation**

1. Activate the alarm and carry out an evacuation;
2. Evacuate to the assembly points;
3. Supervisor performs a headcount;
4. The Safety Officer or Team Captain will investigate and evaluate the extent of the danger, and inform the Emergency Controller/ Coordinator;
5. Most senior person in charge will establish whether outside emergency services are required.
6. Plant Manager / Supervisor declare area safe;
7. Complete incident notification;

**Fire:**

1. Same as point 1 to 5 above.
2. If the emergency alarm is activated.
  - Supervisor/Plant Overseer to organize search teams to investigate and report back;
  - Arrange with Local Fire Department to extinguish fire.

**8.1.4.2. Unplanned Evacuations after hours**

This procedure is the same as in unplanned evacuations during normal hours.

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

#### **8.1.4.3 Planned Evacuations**

##### **a) Maintenance Work**

The rest of the evacuation will be exactly the same as during an unplanned evacuation during normal working hours.

##### **b) Fire Drill**

Evacuation as per normal procedure in the affected sections, the personnel will remain at the emergency evacuation point, until the all clear instruction is received from the Plant Manager / Supervisor.

#### **8.1.4.4 General**

- During a fire or any other emergency, the two way radio channels must be cleared and only used for communications concerning the fire or emergency.
- The Emergency alarm can be activated manually or on start up of the main firewater pumps in the case of the UG2 Concentrator. In case of an electrical failure the manual alarm will be activated.
- If either alarm is activated the supervisor will respond immediately in order to determine the cause of the alarm.
- These personnel will assemble at the assembly point. The Plant Manager or his deputy will coordinate the investigation using rovers to establish the whereabouts of the fire or cause of the alarm.
- All employees are to be on standby for evacuation or instruction from supervisor. Employees in danger will evacuate on their own initiative. The emergency coordinator will assume responsibility when he is on site.
- When the emergency coordinator is not on site, the most senior person on site will assume responsibility.
- When a fire is discovered, the person discovering it must take immediate steps to bring the fire under control. He/she must ensure that the control centre /immediate supervisor are informed as to the extent and location of the fire.
- The control centre will then inform the supervisor to investigate the extent of the emergency and to report back to the control centre.
- The person instructed will ensure that the emergency alarm is activated to assemble all employees.
- The Safety Officer or Team Captain will ensure that all relevant information relating to the fire or emergency is written down.
- All the emergency committee members will be notified as per notification flowchart - Annexure A.
- The Safety Risk Manager will ensure that the necessary SAMRASS forms are completed for the DMR where required.

#### **8.1.5 Training, awareness; and Competence**

Training is conducted in accordance with the procedure Training, Awareness and Competence Systems Procedure.

**The following training is provided as part of our emergency preparedness and response:**

- First Aid training is provided to all supervisory employees
- Basic Fire fighting – Rustenburg Fire Department
- Environmental Awareness training
- HAZCHEM Training
- At height rescue

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

- o Confined Space Rescue

**8.1.5.1** Training done to all ex-leave/ new employees :

- Legal refresher training

**8.2 Emergency Response Measures**

**8.2.1 Rescue and response capabilities;**

A directory of available emergency fire-fighting equipment and other supplies on site and the person(s) responsible for the equipment is given in; the fire plan.

**Equipment details:**

- o Fire water main ring with hydrant points and 60mm hoses and branches;
- o CO2 Fire extinguishers;
- o Dry-powder fire extinguishers;
- o Water deluge systems;
- o Smoke and fire detection systems;
- o Foam systems;
- o Argon Gas Auto deluge systems;
- o Hazardous Chemical spill kits – Peat-Sorb;
- o First Aid bags;
- o Stretchers;
- o Spine Boards and Spider Harnesses;
- o Safety Showers and Eye Baths.

**8.2.2 Management of emergencies**

**8.2.2.1 Determining of credible incidents that could lead to an emergency situation**

Credible incidents that could lead to an emergency situation were assessed at Rustenburg Concentrators. The following documentation was scrutinized and physical plant inspections conducted:

- Past experience and related industry incident information;
- SHE incident analysis and investigation documentation;
- Baseline Risk Assessment documentation;
- Lessons learned from Emergency practice drills;
- Major changes. Follow the Change Management Procedure i.e. chemical, equipment, facilities; procedures and people;
- The business units needs with regard to emergency units;
- External news letters from the DMR; and
- Additional information gathered from newspapers and television broadcasts that apply to our employees, environment, material, equipment and product.

**8.2.2.2 Risk assessment**

A comprehensive risk assessment was conducted and all credible incidents identified during the risk assessment process, all mitigating and aggravating circumstances has been identified. The control measures to be initiated form the route of action for each credible incident. The route of action only serve as a general guide during the emergency situation and it will be up to the most senior person on the plant to initiate additional actions, as each situation may change and pose its own challenges. During each review

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

the route of action will be revised to ensure that it stays current and applicable to each identified credible incident.

Incidents identified through the risk assessment process at Rustenburg Concentrators include but is not limited to:

- Bomb Threats
- Bulk Storage Tank Failure
- Chemical Transport Tanker Failure
- Compressors/Blowers Failure
- Return dam wall failure
- Electricity Supply Failure
- Fire and Fire Protection Systems Failures
- Gas Storage Failure
- Mud rushes due to excessive water in bins
- Multiple Injuries
- Natural Disaster
- Process Explosion
- Suspended Fall from Height
- Road Transport Incidents
- Strikes and Riots
- Structural collapse
- Transformer Explosions
- Health Epidemic
- Noxious airborne pollutant exposure
- Confined spaces
- Major Chemical Spillage
- Tailings Dam Failure

### **8.2.2.3 Contingency plan**

Critical items/services that will be needed for use during emergency situations must be identified and listed and records kept with supply chain.

The suppliers of these critical items/services must be contacted and contracts drawn-up between them and Anglo American Platinum to ensure that the items listed can be supplied within the shortest possible time.

### **8.2.2.4 Recovery Plan**

- i. The Recovery Plan will be initiated immediately after an Emergency situation has occurred.
- ii. The Section Engineering Manager will be the leader or controller during this phase of the emergency situation.
- iii. The recovery plan will be based on the use of the SAP and site specific P and ID's, to ensure the equipment is purchased according to specifications.
- iv. The Section Engineering Manager is responsible to update and review the Recovery Plan.

### **Notification process**

There are six main steps in managing an emergency, from the identification of the situation to final close off.

These are as follows:

1. Find and identify
2. Ensure human safety



REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

3. Reporting
4. Containment and clean-up
5. Corrective and preventative action
6. Monitoring

The notification process travels up the organizational chain of command.

#### **8.2.2.5 Prevention**

Rustenburg Concentrators systems such as process safety, assurance, inspections and plant integrity measurements are implemented to prevent emergencies from occurring and escalating to a catastrophic event

##### **Risk Control Measures:**

- Protective systems - equipment and leak seal equipment.
- Color coding of master control devices.
- Location and shutdown procedures of master control devices.
- Planned Maintenance schedules on SAP.
- Pre-use checklists, Audits and Inspections.
- Diesel Generators.
- UPS Systems

#### **8.2.2.6 Management of Emergencies:**

##### **8.2.2.6.1 Bomb Threats**

- The operator receiving the call relating to the bomb threat must:
  - Stay calm and do not confront the caller;
  - Make note of the conversation;
  - Contact the most senior person in charge and the control centre immediately with the information.
- The most senior person in charge/control centre must contact the Emergency committee as per notification flow chart – Appendix A.
- Follow unplanned evacuation procedure.
- Concentrator surveillance unit to be contacted for assistance – 014 598 2384.
- SAPS to be contacted for assistance - 10111
- The fire teams must remain on standby while protection services conduct a thorough plant search.
- Demarcate the area/s containing suspect parcels or devices with yellow and black demarcation tape (black and yellow means no entry).
- Re-treat to the evacuation point.
- Protection services to follow emergency access procedure when SAPS arrives at the site.
- Protection Services to escort SAPS to the demarcated area and keep a safe distance.
- SAPS to defuse or remove the device/s under protection services escort.
- Person in charge to give all clear before personnel can return to their workplaces.

##### **8.2.2.6.2 Bulk Storage Tank Failure**

- Follow unplanned evacuation procedure and if necessary change position of evacuation point as per the wind direction.
- Contact the most senior person in charge and the control centre immediately with the information.

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

- The most senior person in charge/control centre must contact the emergency committee as per notification flow chart – Appendix A.
- Demarcate the bulk storage tank area with black and yellow tape (means no entry) to preserve evidence and ensure reference is made to the MSDS when dealing with the spill.
- Correct PPE to be worn as specified by the MSDS.
- Gather all information for future reference.
- Pump the chemical in the bunded area into available storage tanks.
- Pump any contaminated chemical into containers and dispose as hazardous waste as per the Waste Handling Procedure – RPMC-ALL-ENV-PRO-0036
- The area should be cleaned as per Spillage Clean-up Procedure RPMC-ALL-ENV-PRO-0037.
- When the area has been made safe the emergency coordinator will give the all clear and the affected areas/plant can return to their workstations.

#### **8.2.2.6.3 Chemical Transport Tanker Spill**

- Follow unplanned evacuation procedure if necessary and if necessary change position of evacuation point as per the wind direction.
- Contact the most senior person in charge and the control centre immediately with the information.
- The most senior person in charge/control centre must contact the emergency committee as per notification flow chart – Appendix A.
- Demarcate the tanker area with black and yellow tape (means no entry) to preserve evidence and ensure reference is made to the MSDS when dealing with the spill.
- Correct PPE to be worn as specified by the MSDS.
- Gather all information for future reference.
- Pump the chemical from the tanker into available storage tanks or if contaminated dispose as hazardous waste as per the Waste Handling Procedure RPMC-ALL-ENV-PRO-0036.
- Dyke the area as required preventing spillage from reaching watercourses and pumping excess chemical into the containers and disposing as hazardous waste.
- When the area has been made safe, the emergency coordinator will give the all clear and the affected areas/plant can return to their workstation.

#### **8.2.2.6.4 Tailings Dam wall Failure or Overflow**

- Report the failure or overflow immediately to the control centre.
- The control centre to notify the person in charge as per the notification flowchart.
- Emergency committee will assess the situation and initiate action.
- The community downstream will be warned by protection services.

#### **8.2.2.6.5 Electrical Supply failure (ESCOM)**

- Follow the unplanned evacuation procedure
- The emergency diesel generators should/ will start-up after the power failure.
- Engineering department to assess the power failure and report possible duration to the Emergency Coordinator.
- Sufficient diesel supply must be arranged to ensure continual running of emergency equipment i.e.:
  - Ventilation fans
  - Emergency lights where available
  - Compressors
  - Fire Water pumps
  - UPS system battery charges

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

- Other critical processes in the plant.
- When the power supply is restored, the Emergency Controller will issue the all clear and the personnel may return to their workstations.

#### **8.2.2.6.6 Natural Disasters**

Being acts of providence, these emergencies cannot be prevented, although impact of such acts can be reduced:

- Earthquakes
- Storms (Wind/Lightning)
- Surface Flooding

The nature and extent of the disaster will dictate the appropriate actions, but the following general rules will apply:

- The person normally in charge of a section or department must take immediate control and must decide on the action required, inter alia, should they evacuate, which evacuation point, head count, etc.
- Contact the most senior person in charge and the control centre immediately with the information.
- The most senior person in charge/control centre must contact the emergency committee as per notification flow chart – Appendix A.
  - As soon as possible after the disaster, the emergency committee must assess the damage, firstly to personnel and then to buildings and equipment.
  - After assessment, if the buildings are safe, personnel can return to their workstations and engineering to attend to the damaged buildings and equipment as per action plans.

#### **8.2.2.6.7 Process explosion**

- Follow the Unplanned Evacuation Procedure.
- Contact the most senior person in charge and the control centre immediately with the information.
- The most senior person in charge/control centre must contact the emergency committee as per notification flow chart – Appendix A.
- Injured employees to be treated according to the disaster preparedness procedure of the occupational health department.
- Demarcate the area with black and yellow demarcation tape (no unauthorised entry), no evidence may be removed until the DMR Inspector has inspected the area and the cause of the explosion has been determined, or permission has been granted.
- The emergency committee in conjunction with the DMR must conduct a full investigation regarding the cause of the explosion.
- The necessary SAMRASS forms must be completed and submitted to the DMR.
- Engineering to initiate the engineering Action plan.
- Production management team to assess process flow to determine alternative for continued production.
- When the person in charge declares the affected area safe, personnel can return to their workstations.

#### **8.2.2.6.8 Road Transport Incidents (Rustenburg Concentrators Transportation Only)**

- Rustenburg Concentrator personnel to notify control centre if they are involved in a company vehicle transport incident. (if possible)

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

- The control centre must notify the person in charge as per the notification flowchart and provide the necessary information.
- Contingency plan to be decided upon depending on the seriousness of the injuries sustained by personnel, damage to company transport and where the incident occurred.
- A full investigation to be conducted in conjunction with the SAPS, SHE Department and relevant road traffic department.
- Prepare the necessary Road Accident Fund documentation and submit.

#### **8.2.2.5.9 Labour Unrest (Check numbers)**

When a confrontation exists, the Control Centre as per the Notification Flowchart must immediately contact the Concentrator Surveillance Unit- 014 -5982384.

The Person in charge or HR Manager shall have full authority to:

- Communicate with the employees' representative and communicate with the following for advice and/or instructions:
  - a. Emergency Committee
  - b. Corporate Office
  - c. Protection Services
  - d. Trade Union Representatives
  - e. Department of Manpower
- Notify the SAPS and ask them to remain at a distance, unless/until their presence is requested by the emergency committee.
- Once unrest is apparent, call a meeting with the representative body to discuss the specific grievances or attempt to establish what the grievances are.
  - Grievances should be presented through the agreed negotiating structure.
  - The relevant Union local organizer or general secretaries should be notified if the matter couldn't immediately be resolved.

#### **8.2.2.5.10 Sabotage**

- Contact the Concentrator Surveillance Unit immediately- 014- 5982384.
- Protection Services Manager to keep person in charge informed of the situation.
- The person in charge to order an evacuation if required and when it is safe to do so.
- Medical and fire department to be placed on standby.
- Person in charge to hand-over to the protection services/ SAPS on arrival at site.

#### **Immediate employee action:**

- To protect the scene, barricade the area and prevent unauthorised entry.
- Report to immediate supervisor.
- Warn employees about the situation.
- Do not panic.
- Ensure that no evidence is disturbed.
- Engineering to initiate the engineering action plan.
- The person in charge can give the all clear and personnel can return to their workstations.

#### **8.2.2.5.11 Water Supply Failure**

- Contact the control centre
- The control centre to contact the Person in charge as per notification flowchart.

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

- Water from the reservoir must be diverted into the process water side-stream to ensure continued production.
- Determine loss of water supply and possible duration.
- Contact rand water board.
- Inform employees to preserve water.

**8.2.2.6.12 Spillage of Tailings from the transfer system (pump and pipes) and spillage of effluent from the tailings dam.**

- Burst / spill / leak from tailings at surface.
- Inform Plant/ Concentrator Manager to action emergency shutdown/change the line and / or redirect tailings to alternative deposit site.
- To limit the amount of uncontrolled release of tailings it is essential that the process plants be informed immediately of a spill / leak so that emergency shutdown procedures can be implemented immediately.
- Do situation analysis: Identify / locate the position, area affected and volume released, zones downstream which may potentially be affected, if release continues, and cause of release, etc.
- If there is a risk of significant environmental pollution, associated legal risk or risk to health or community well being in the short term-
  - Inform relevant Dept. Heads (Plant, Safety, Hygiene, Engineering, and Environmental Departments) and report the incident through the Incident/Non-conformance reporting system as per procedure RPMC-ALL-SHER-PRO-0013 SHE Investigating and Reporting of Incidents / Injuries.
- Evacuation of area around and downstream of spill in zone of influence of possible flow slide. Prevent further access to area (barricade). Post guards at a safe distance from the spill.
- If the spill can be contained immediately by the identifier without further risk to this person, other people or the environment, emergency response task team should be notified to plan the containment and clean up.
- Implement containment and cleanup program.
- The area identified for the disposal of the spilt tailings will be disposed by the tailings appointed contractor. Repair or correct faulty plant / equipment (e.g. bust pipe).
- The mechanism leading to the release of tailings must be repaired timeously to enable the process plant to get back on stream.
- Monitor containment and clean up actions and update in the management system.
- Initiate environmental monitoring activities if required.
- Environmental monitoring such as soil and water sampling must be taken for testing from areas downstream of the spill need to be implemented to ascertain if the tailings or runoff from the tailings has entered and contaminated any resources.

**8.2.2.5.13 Spillage of Effluent from the tailings dam**

- Spillage, leakage or overtopping of effluent from the tailings dam, excluding pipelines.
- Inform Plant/ Concentrator Manager Waterval and UG2 plant about the possibility of no return of effluent from the tailings dam back to the plant for re-use, or the need to increase effluent return to lower ponds levels at the tailings facility.
- Do situation analysis: Identify / locate the position, area affected and volume released, zones downstream which may potentially be affected, if release continues, and cause of release, etc. Ascertain if the release has or will impact on the downstream community and environment outside of the mine area.
- If there is a risk of significant environmental pollution, associated legal risk to health or community well being in the short term, then report the incident through the Incident/Non-conformance reporting system as per procedure RPMC-ALL-SHER-PRO-0013 Non-conformance and Corrective action

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

- Inform communities downstream of spill / release not to use surface water and evacuate people to other areas if required.
- Additional effluent must not be allowed to leave the source or beach, which would otherwise increase the extent of contaminants to the environment.
- Ensure no further or additional discharge of effluent is possible from the source.
- Check that process make-up water from the fresh water dam is minimised. Maximise make-up from the return water dam.
- Monitor water quality in the receiving environment.
- Repair or correct fault (e.g. breached earth wall, spillway eroded, excessive solutions etc.)
- The mechanism leading to the release of the effluent must be repaired timeously.
- Repair work may only be possible after the spillage has been cleaned away and the level of the effluent has been sufficiently lowered.
- Monitor containment and clean up actions and update in the management system.
- Initiate Environmental monitoring activities if required.

#### **8.2.2.5.14 Rescuing of person suspended working at heights**

- Establish contact with the victim.
- Contact the fire department / rescue team & ambulance.
- Calm the victim down.
- Secure the area below and above the victim and remove bystanders from the area.
- Communicate with him/her to minimize the risk of suspension trauma, and to determine the possible extend of his injuries.
- Have the victim release his trapeze strap from his safety harness; ensure that the victim places one foot in the strap, he can then adjust the strap to fit. This will give the rescue team time to prepare for the retrieval of the victim. Keeping in mind that suspension trauma could result if the person is left in the safety harness to long.
- A rescuer is to keep open communication with the victim and have the victim change legs every so often.
- If in the proximity of electrical circuits, send or send for a competent person to isolate all power by means of a proper lockout system, and ensure that the key is brought back and kept with the rescuer.
- The rescue team / person trained and competent to use the self descender rescue kit.

#### **The rescue team is to determine how the victim is to be retrieved e.g.**

- a) If a victim has fallen and is able to stand on something or be pulled onto something this is to be done. Ensuring that the platform / structure or object is safe for the victim and the rescuer.
- b) If the workmen is between floors, a ladder can be placed safely under the victim and the victim can stand on the ladder and release himself (keeping in mind the victim has just fallen and will be nervous and extra care is to be taken)
- c) If the workmen is below a floor where access can't be obtained from the bottom but where access can be obtained from the top the automatic self rescuer kit is to be used to lower the victim down provided:
- d) Anchorage points are securely fitted and tested to take weight without slipping
  - The rescue kit is inspected and found to be in good working order
  - At least two persons to be present whilst rescue is undertaken
  - Only one person to be lowered at one time with the self descender rescue kit
  - The victim's weight should be taken up by the rescue system
  - Rescue kit operator to ensure system working properly and attachments points secure.

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

- Once integrity of system confirmed, second person to detach safety harness lanyard.
- e) this devices should only be attached to a” D” ring on the victims safety harness at no time should they be attached around the waist or a limb of the victim. The rescue team will probably be required to cut the victims lanyards loose from the connection point this is only to be done if the victim is correctly secured to the automatic self rescuer kit.
  - f) Where there is no access to the victim from below or above a man cage can be used to access the victim the rescuers are to be two persons in the cage to help the victim in. Only once the victim is in the man cage should his lanyards be removed from the anchorage point.

## 9. Contravention

Breach of this COP may lead to disciplinary / legal action.

### 9.1 Distribution

#	Distributed to	Physical Copy	Electronic Copy
1	Standards Committee	Document Control Storage Facility	Intranet> Policies and Standards
2	Manager Concentrators/ Plant/ Manager Concentrators		

### 9.2 Additional Information

- Emergency procedures will be tested (emergency mock- ups) as per emergency schedule. Records and findings of the emergency drills are kept on site by the plant Safety Officers.
- This COP is instituted as a base line on which the process of emergency preparedness and response will be conducted at Rustenburg Concentrators.
- The original copy of this COP is available at the Document Control Office. The COP is incorporated into the official documentation system of the Rustenburg Concentrators.

## 10 Safety Requirements for this Standard

### Emergency aspects addressed in other COP's

- Confined space entry – addressed in the confined space entry procedure (RPMC-ALL-OCH-STD-0092).
- Communication with external parties – Communication, Consultation and Involvement (RPMC-ALL-SHER-PRO-0008)
- Training is conducted in accordance with the procedure (RPMC-ALL-SHER-PRO-0006).
- Change management implemented in accordance with the Change Management Procedure (RPMC-ALL-ENG-PRO-0010)
- Waste Handling Procedure (RPMC-ALL-ENV-PRO-0036).
- Spillage Clean-up Procedure (RPMC-ALL-ENV-PRO-0037).

## 11 Implementation Plan

This COP has been implemented at the Rustenburg Concentrators as of the 26 August 2009.

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

## 12 History of Changes

Reason for Change - Index	
A. As a result of incidents	B. As a result of audit findings
C. New / changes in governance documents	D. Changes in legislation
E Changes in technology	F. Changes in machinery/equipment
G Results of risk assessments	H. Change in training requirements
I. New document format	J. Change due to spelling or grammatical error
K. To integrate a special instruction into the document control system	

Date of change	Revised Item (Paragraph number)	Changes Made	Reason Code	Name of reviewer
		NEW STANDARD	C	Standards Committee
2011-06-15		UPDATED COVER PAGE, VERSION AND REVISION	C/I	Standards Committee
	4	ADDED ADDITIONAL MEMBERS TO THE DRAFTING COMMITTEE		
	8.1.2 AND 8.1.3	ADDED THE LAST SENTENCE		
	8.2.2.5.1	UPDATED NUMBER		
	8.2.2.5.2	ADDED FIRST BULLET POINT.		
	8.2.2.5.8	ADDED ROAD ACCIDENT FUND		
	8.2.2.5.14	CHANGED TITLE AND CHANGED SECOND BULLET POINT TO "STOP EQUIPMENT"		
2012-06-27		COP REVISED AND UPDATED ACCORDING TO ANNUAL REVIEW	C/I	Standards Committee
2012-08-29	8.2.2.2	ADD ADDITIONAL BULLET POINT "MAJOR CHEMICAL SPILLAGE"	C	Standards Committee

## 13 Record Control

Records to be maintained in accordance with this Standard (refer to the Anglo American Platinum



REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

Identification	Reference number	Responsible for filing	Responsible for maintenance	Location of storage area	Retention period	Method of disposal
Emergency Preparedness and Response	RPMC-ALL-SHER-COP-0011	Document Controller	Document Controller	Document Control Storage Facility	Keep current and previous version. Archive Electronic Copies after 5 years	Shredding older versions and archive after 5 years
Communication, Consultation and Involvement	RPMC-ALL-SHER-PRO-0008					
Training, Awareness and Competence	RPMC-ALL-SHER-PRO-0006					

#### 14 References

- DMR (Department of Mineral Resources) Guidelines – DME 16/3/2/1-A5.
- Anglo Fatal Risk Standards
- Anglo Platinum Golden Rules
- Training, Awareness and Competence
- Anglo Golden Rules
- Emergency Numbers
- Communication, Consultation and Involvement
- Group Environmental Centre Environmental: Non Conformity and Incident Control.

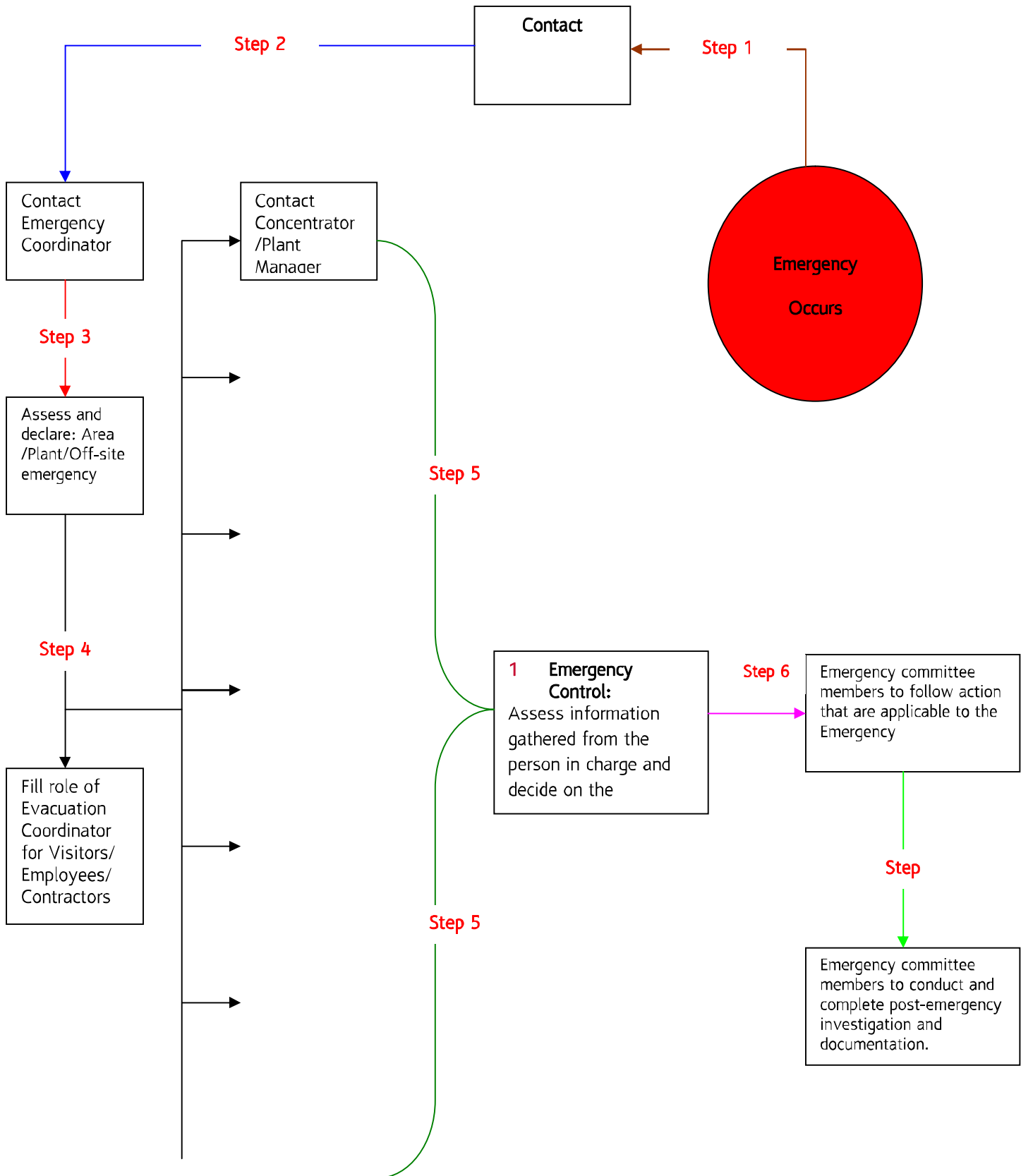
#### 15 Appendices

Appendix A- Notification Chart

Appendix B: Action list

REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

**Annexure A: Notification flow chart**



REF NO:	RPMC-ALL-SHER-COP-0011	DATE OF IMPLEMENTATION:	2009-08-26
VERSION NO:	4.0	LAST REVISION DATE:	2012-08-29

**Appendix B: Action list**

**1. Control centre coordinator**

Activity steps	Tick	Comments
1. Inform emergency coordinator. As per notification flowchart.		
2. If requested by the emergency coordinator informs the emergency committee. As per notification flowchart.		

**2. Emergency coordinator**

Activity steps	Tick	Comments
1. Familiarize yourself with available information.		
2. Evaluate situation and ensure that all the necessary steps are taken to manage the incident.		
3. Liaise with the person in charge to ensure that all people on-site are safe. If help is needed in a specific area, ensure that help is available.		
4. Liaise with Safety Officer to ensure shutdown activities takes place and feedback to Manager.		
5. Liaise with Section Engineer for support services where necessary.		
6. Liaise with Store Supervisor for support services and suppliers where necessary.		
7. Liaise with HR Officer to ensure all staff is kept informed.		
8. Liaise with Plant Safety Officer to ensure medical aid is provided.		
9. Liaise with Protection Services to ensure access for emergency vehicles/crews.		
10. Inform Manager Rustenburg Concentrators and Section Engineering Manager.		
11. Call off emergency after consultation with Emergency committee. All clear to be given.		
12. Ensure post-incident critique and debriefing is done.		
13. Ensure investigation team is appointed and damage assessment is done.		
14. If the public was affected, ensure that a liaison centre is set up as soon as possible.		
15. Ensure that sources of supply and services such as Utilities, vendors and contractors are available to the Recovery team.		
16. Activate mutual aid plans with other organizations for supplying customers and satisfying contracts.		

## Appendix B - Environmental Awareness Plan

# OPERATIONAL PROCEDURE RUSTENBURG CONCENTRATORS

## TRAINING, AWARENESS AND COMPETENCE

VERSION: 15.0

LAST REVISION DATE: 2012-07-11

FIRST IMPLEMENTATION DATE: 2003-10-30

REFERENCE NUMBER: RPMC-ALL-SHER-PRO-0006

	NAME	POSITION	SIGNATURE	DATE
<b>AUTHOR:</b>	Francois Erasmus	HRD Coordinator		11/07/12
<b>REVIEWED BY:</b>	Barend Nortje	Safety Risk Manager		12/07/12
<b>REVIEWED BY:</b>	Jurie Van Brakel	Section Engineering Manager / Chairman of Standards Committee		12/07/12
<b>REVIEWED BY:</b>	David Hadzhi	Environmental Coordinator		12/07/12
<b>REVIEWED BY:</b>	Dineo Tsame	Occupational Hygiene Officer		10/07/10
<b>REVIEWED BY:</b>	Thabo Masilo	Chief Safety Officer		12/07/12
<b>RECOMMENDED BY:</b>	Dirk Crafford	Plant Manager Waterval Concentrator		12/7/2012
<b>RECOMMENDED BY:</b>	Piet Botha	Plant Manager UG2 Concentrator		12/07/2012
<b>APPROVED BY:</b>	Buks Marais	Manager Concentrators		16/7/2012

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

## Contents

1	Aim .....	3
2	Scope.....	3
3	Definitions.....	3
4	Abbreviations .....	3
5	Responsible for Review .....	4
6	Responsible for Implementation .....	4
7	General.....	4
	7.1 Contravention .....	4
	7.2 Distribution.....	4
	7.3 Additional Information .....	4
	None.....	4
8	Safety Requirements for this Procedure.....	4
9	Procedure.....	4
9.6	Procedure Flowcharts .....	7
9.6.3	Skills Development (Central Training) External .....	11
9.6.4	Skills Development (Site specific Training) External Provider .....	13
9.6.5	Contractor Induction for all Contractors.....	16
9.6.6	PTO Scheduling Process .....	17
10	History of Changes .....	19
11	Record Control .....	22
12	References .....	22
13	Appendices.....	23

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

## 1 Aim

Section 10 of the Mine Health and Safety Act Regulations (29/1996), Section 4.4.2 of OHSAS 18001 and Section 4.4.2 of ISO 14001 requires that the organisation shall identify training needs and shall ensure that all personnel performing tasks for it or its behalf that have potential to cause harm or have significant impact upon Safety, Health or the Environment identified by the organisation are competent in the basis of appropriate education, training or experience and shall retain associated records.

The aim of this procedure is to make sure that personnel working for Rustenburg Concentrators are aware of:

- The importance of conformity with the SHE Policy and procedures and with the requirements of the SHE and Quality Management System.
- Their roles and responsibilities in achieving conformity with the requirements of the SHE and Quality Management System.
- The potential consequences of non-compliance to specified procedures.

## 2 Scope

This procedure is applicable to Rustenburg Concentrators and details the approach to:

- Identification of training and skills development needs;
- Those responsible to provide training;
- Those receiving training.

## 3 Definitions

None

## 4 Abbreviations

Abbreviation	Explanation
RPMC	Rustenburg Platinum Mine Concentrators
AFRS	Anglo Fatal Risk Standards
SHER	Safety, Health, Environment and Risk
SAQA	South African Qualifications Authority
OSD	Operational Skills Development
HRD	Human Resource Development
EMS	Environmental Management System
OHSAS	Occupational Health and Safety Act Series
PPE	Personal Protective Equipment
PTO	Planned task observation

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

Abbreviation	Explanation
IPA	Individual Performance Agreement
IDC	Individual Development Charter

**5 Responsible for Review**

The Standards Committee is responsible to review this procedure every four years or when changes are required.

**6 Responsible for Implementation**

SHE and HRD Department

Manager Rustenburg Concentrators

Plant Manager

**7 General**

**7.1 Contravention**

Breach of this Procedure may lead to disciplinary / legal action.

**7.2 Distribution**

#	Distributed to	Physical Copy	Electronic Copy
1	SHE / HRD Department	Document Control Storage Facility	Anglo Platinum Intranet> Policies and Procedures
2	Concentrator Manager/ Plant Managers		
3	Manager Rustenburg Concentrators		Management Documents Library

**7.3 Additional Information**

None

**8 Safety Requirements for this Procedure**

Refer to the Anglo Safety, Health and Environmental Way Standards.

**9 Procedure**

**9.1 Identification of Training Needs**

The identification of SHE and technical training and development needs will be governed by an approved Concentrator Process career path & Engineering career path and informed by the Rustenburg Concentrator legal and business requirements. The SHE general awareness



REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

communication provides descriptions of safety, health and environmental aspects / impacts or hazards / risks per plant. This provides the direct Supervisor with the information he / she requires to identify training needs and nominate relevant employees for training. A training and development skills matrix are compiled and maintained by the HRD department. This matrix will indicate the SHE Management system responsibility / role, required knowledge and skills, interventions required and intervals of interventions in terms of development of employees towards Safety, Health, and Environmental and role competency. Mini panels (A1 to D1 IDC's) and IPA (D2 and up) are conducted and requirements from management obtained to determine skills gaps with reference to the approved career paths. The information obtained from the mini-panels and IPA's will also assist in the development of the annual Workplace Skills Plan. The mini-panels are conducted in line with the group talent management and capacity pool guidelines.

### **9.2 Inductions for all employees including labour hire contractors**

All Rustenburg Concentrators employees undergo Legal Refresher Training. (Section 9.6.1 – Flow sheet). SHE Management systems standards has been included in the training content. This training is conducted on a weekly basis to all employees returning from leave. A Concentrator Generic Process Induction will be presented on an adhoc basis for new employees.

All Rustenburg Concentrators Engineering employees to undergo Engineering Generic Induction (Section 9.6.1 - Flow sheet). This training is conducted at OSD HRD Centre on a weekly basis to all engineering employees returning from leave.

All contractors have to attend a Rustenburg Concentrator Contractor Induction (Section 9.6.5 – Flow sheet). SHE Management system standards have been included in the training content. This training is conducted weekly and all contractors attend this induction.

Visitors to Concentrators do not form part of the Legal Refresher Training due to the logistical layout of the Concentrator Business Area, however they must attend on-site visitor's induction (DVD) conducted by the specific plant Representative.

### **9.3 Provision for job specific Safety, Health and Environmental Awareness Training**

Supervisory staff within a specific Concentrator will be equipped with the necessary knowledge and information to guide their employees on safety, health and environmental hazards/aspects applicable to performing a specific task.

#### **The Safety, Health and Environment Sections presents:**

- Toolbox talks
- Monthly SHE awareness talk topics for discussion at SHE Meetings at Rustenburg Concentrators and by all contractors. The talk topics are also displayed on major notice boards.
- General Environmental Awareness of which attendance registers must be completed and submitted to the HRD.
- Adhoc safety, health and environmental awareness sessions to various departments and on request. The presentations mainly focus on:
  - ❖ Reinstruction
  - ❖ OHSAS 18001 and ISO 14001 standards
  - ❖ Occupational Hygiene / Health Awareness
  - ❖ Environmental Awareness
  - ❖ Environmental issues relevant to individual tasks
  - ❖ Risk Assessments

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

## 9.4 Competency Training

The HRD Department and approved external training providers are responsible for the Safety, Health and Environmental, role competency and awareness training of Rustenburg Concentrators employees. This training is done both on a one to one basis and through training interventions and presentations. Specialized training & development for employees is also conducted in line with the skills needs analysis matrixes and is provided by external providers. Competence and the effectiveness of training and development initiatives as described in the matrix will be determined through for example the following methods:

- Computer Based Training
- Theoretical & On-the-job Assessments
- Trend analyses of incidents reported
- Analyses of work areas during visits and audits
- Trend analysis of monthly zero tolerance data as recorded per Concentrator
- Trend analysis of compensatable diseases and injuries
- Regulatory fines of warnings
- Risk Assessments
- Class room training
- AFRS competency training
- Legal or mandatory training and/ or licensing
- Development on progression routes and career paths.

## 9.5 Review of Training Material

The content of all training development material will be updated at least once every two years, or when a need arises, as is identified from the standards committee, all reviewed training material (irrespective of its application on the site) must first be approved by the relevant Plant/ Concentrator Manager and then finalized at the standard committee before it is put into use.

The tracking and control of revised documents will be controlled as per the Rustenburg Concentrators document control procedure.

### 9.5.1 Evaluation of training

All training and HRD services provided at the Rustenburg Concentrators need to be evaluated and analysed, this is to ensure a quality learning delivery and continual improvement. To this effect the following guidelines will be in place;

Technical training, for example Surface mobile equipment training will be evaluated by means of PTO's conducted on the Responsible Supervisor.

Production tasks will be evaluated on an annual basis by means of PTO's conducted by the relevant Production Supervisor.

Engineering tasks will be evaluated on an annual basis by means of PTO's conducted by the responsible artisans and/ or Engineering Foremen.

All critical tasks identified at Rustenburg Concentrators will be indicated on a critical PTO matrix; these tasks will be evaluated by means of a PTO conducted by the responsible supervisor and/ or artisans/ Foremen. (Section 9.6.6 – Flow Sheet).

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

Legal Refresher Training conducted at Met Services will be evaluated on a weekly basis and the evaluations analysed monthly by the HRD Assistant. This will be done by using the Business Event Appraisal document, after which the evaluation analysis will be forwarded to the HRD Coordinator.

External training which is presented on-site will be evaluated using the Business Event Appraisal document and analysed immediately by the relevant site HRD Officer. All deviations to be addressed before the external training facilitator/ instructor leave the site.

### **9.5.2 Record Keeping**

All Training records will be kept and maintained by the HRD Department on-site and at Metallurgical Services. These records will include but not limited to:

- Legal Refresher Records
- Completed PTO's
- Copies of Certificates
- Copies of assessments for technical training (Surface Mobile equipment)
- Mini-panel Documentation

These records will be maintained and kept up to date as per the Rustenburg Concentrators & WLTRP record control procedure.

### **9.6 Procedure Flowcharts**

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

### 9.6.1 Legal Refresher Training for Anglo employees

Responsible person	When	Flow no.	Flow diagram	Documents or records	Comments
Ex-leave employee	Attend training	1	<ul style="list-style-type: none"> <li>Attend Legal Refresher Training</li> <li>Complete relevant course documentation</li> <li>Complete Business Event Appraisal form</li> </ul>	Attendance register; - Induction business event appraisal form; Acknowledge form, assessments	
Induction Facilitator	After Induction	2	<ul style="list-style-type: none"> <li>Verify and check documents for completeness</li> <li>Forward induction documents to HRD Assistant</li> </ul>	Attendance register; Acknowledgement form; Induction business appraisal form; assessments	
HRD Assistant	On Receipt of the relevant documents	3	<ul style="list-style-type: none"> <li>Update - SAP</li> <li>Update – HRD Share folder (Excel)</li> <li>File relevant documents</li> <li>Send an exception report/list to all sections</li> </ul>	Attendance Register; Business Event Appraisal form; Monthly report; Exception report	E-mail reports to: -HR Off -HRD Off.
HRD Assistant	Monthly	4	<ul style="list-style-type: none"> <li>Capture and analyse the business event appraisal forms, send report to HRD Coordinator</li> </ul>	Business event appraisal form; Electronic Evaluation analysis tool	E-mail reports to: -HRD Coordinator
HRD Assistant	On Receipt of the relevant documents	5	<ul style="list-style-type: none"> <li>Book all engineering employees to attend Generic induction / UMO at OSD Engineering HRD Centre</li> </ul>	Exception report	

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

**9.6.2 Internal Skills Development (Training) for employees**

Responsible person	When	Flow no.	Flow diagram	Documents or records	Comments
Plant Managers / Supervisors	Ongoing	1	<ul style="list-style-type: none"> <li>Refer to Skills Matrix</li> <li>Recognise training need</li> <li>Nominate candidates for scheduled training sessions</li> </ul>	<ul style="list-style-type: none"> <li>Nomination form</li> <li>Training Schedules</li> </ul>	
Plant manager / Supervisor	Ongoing	2	<ul style="list-style-type: none"> <li>Approve Nominations by signing Nomination form</li> <li>Forward signed document to HRD Officer</li> </ul>	<ul style="list-style-type: none"> <li>Nomination Form</li> </ul>	
HRD Assist / HRD Officer	Ongoing	3	<ul style="list-style-type: none"> <li>Check Nomination form for completeness</li> <li>Sign Nomination form.</li> <li>Book on SAP Event</li> </ul>	<ul style="list-style-type: none"> <li>Signed Nomination form</li> </ul>	
HRD Assistant/HRD Officer	Ongoing	4	<ul style="list-style-type: none"> <li>Forward Nomination form to HRD Assistant</li> <li>Update shared folder with confirmations. (Changes on a daily /weekly basis)</li> </ul>	<ul style="list-style-type: none"> <li>Nomination form; Shared folder – Excel; SAP</li> </ul>	
HRD Officer	Ongoing	5	<ul style="list-style-type: none"> <li>Access shared folder for confirmations</li> <li>Notify relevant employees to attend nominated course</li> <li>Complete cancellation/ replacement form if cancelled</li> </ul>	<ul style="list-style-type: none"> <li>Shared folder – Excel; Cancellation form if applicable</li> </ul>	Notify:- Employee Supervisor Plant/ Concentrator Manager
Learner	With & After training	6	<ul style="list-style-type: none"> <li>Attend course.</li> <li>Complete Attendance. Register</li> <li>Complete relevant HRD forms &amp; assessments (when applicable)</li> <li>Complete business event appraisal form</li> </ul>	<ul style="list-style-type: none"> <li>Attendance registers;</li> <li>Assessments</li> <li>Business event appraisal form</li> </ul>	

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

HRD Facilitator	During training session	7	<ul style="list-style-type: none"> <li>Mark assessments (if applicable)</li> <li>Analyse evaluation forms</li> <li>Feedback to Learners</li> <li>Complete results &amp; feedback report</li> </ul>	<ul style="list-style-type: none"> <li>Evaluation forms</li> <li>Assessments</li> <li>Results &amp; feedback report</li> </ul>
Course Facilitator	After training	8	<ul style="list-style-type: none"> <li>Local courses forward relevant HRD documents to HRD Assistant</li> <li>ADC, KDC, ESTC attendance registers/Report on SAP</li> </ul>	<ul style="list-style-type: none"> <li>Attendance register</li> <li>SAP Report</li> <li>Feedback &amp; results form</li> </ul>
HRD Assistant	Monthly	9	<ul style="list-style-type: none"> <li>Compile monthly report for EE &amp; Skills dev committee</li> <li>Print certificates on relevant courses</li> <li>Capture Certificate no. on electronic database</li> <li>Forward certificates to relevant sections.</li> </ul>	<ul style="list-style-type: none"> <li>Monthly report; Certificates; Post delivery verification book; Copies of documents</li> </ul>
HRD Officer	Ongoing	10	<ul style="list-style-type: none"> <li>Update Skills Matrix</li> <li>Issue original certificates to employee.</li> <li>Distribution of certificate form to be signed by employee and copy of certificate then filed in personal file</li> </ul>	<ul style="list-style-type: none"> <li>Certificate; Copy of certificate; Distribution of Certificate form</li> </ul>

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

### 9.6.3 Skills Development (Central Training) External

Responsible person	When	Flow no.	Flow diagram	Documents or records	Comments
Supervisor / Plant/ Concentrator Manager	Ongoing	1	<ul style="list-style-type: none"> <li>Recognise training need</li> <li>Nominate candidates to receive training on an external nomination form.</li> <li>Approve Nomination</li> </ul>	Nomination Form;	
HRD Officer/HRD Assistant	Ongoing	2	<ul style="list-style-type: none"> <li>Obtain Quotation from External Provider.</li> <li>Line approves Quotation</li> <li>Forward signed documents to HRD Assistant</li> </ul>	Nomination Form; Quotation;	
HRD Assistant / MRC	As soon as quotation received	3	<ul style="list-style-type: none"> <li>Complete external training checklist</li> <li>Forward approved Quotation to MRC</li> <li>Do necessary accommodation booking through Anglo Travel</li> <li>E-mail confirmation of ANGO order to external provider.</li> <li>Forward Accommodation voucher to nominee.</li> </ul>	SAP requisition E-mail; AMEX voucher, Confirmation letter	
External Training Provider (HRD Assistant to obtain)	When training completed	4	<p>Forward:</p> <ul style="list-style-type: none"> <li>Attendance register where available</li> <li>Certificates (when applicable)</li> </ul>	Attendance Register; Certificates	

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

HRD Assistant	Monthly	5	<ul style="list-style-type: none"> <li>• Compile monthly report for Central EE &amp; Skills Development committee.</li> <li>• Certificates to be captured on database</li> <li>• Forward certificates to relevant section</li> </ul>	<p>Certificate, License; Electronic database; Monthly Technical Skills Development (EE) Report;</p> <p>Post delivery verification certificates</p>	
HRD Officer	Upon receipt of documents	6	<ul style="list-style-type: none"> <li>• Update skills Matrix</li> <li>• Issue Certificates to relevant candidates</li> <li>• Update personnel training files with signed copies of certificates</li> <li>• Compile Monthly Technical Skills Development (training) Report to Site Specific EE &amp; SD Committee</li> </ul>	<p>Certificate; copies of documents; E-mail report; Distribution of certificates form</p>	
HRD Assistant/ MRC	Upon receipt of documents from external training provider	7	<ul style="list-style-type: none"> <li>• Check correct details on TAX invoice from ext. provider</li> <li>• Send original invoice for payment to MRC – keep copy on files.</li> <li>• MRC to sign External training Checklist form.</li> <li>• Create, Follow-up &amp; lock event on SAP</li> <li>• Complete external training checklist</li> </ul>	<p>Tax invoice; SAP event; external training checklist</p>	

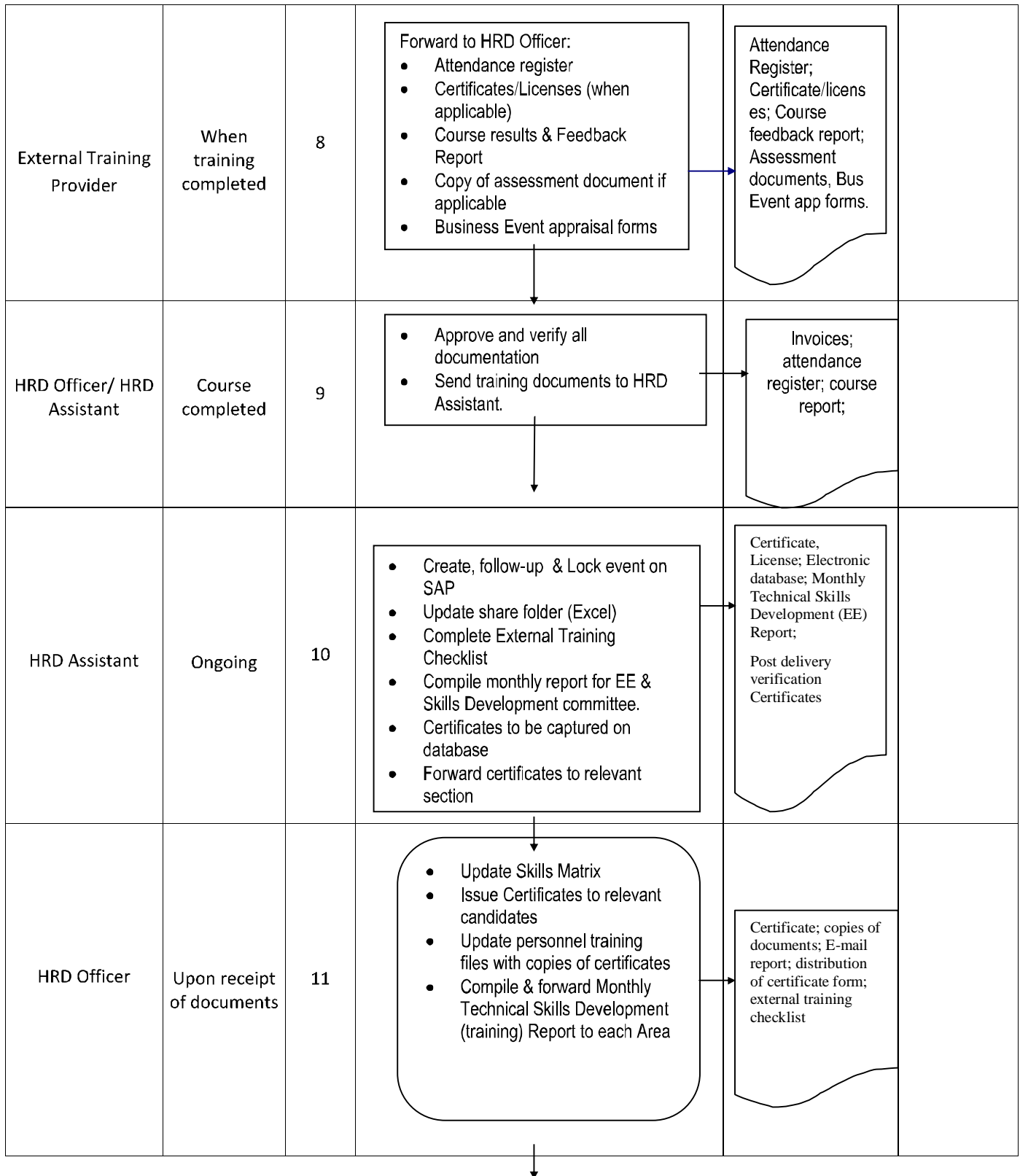


REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

**9.6.4 Skills Development (Site specific Training) External Provider**

Responsible person	When	Flow no.	Flow diagram	Documents or records	Comments
Supervisor / Plant/ Concentrator Manager	Ongoing	1	<ul style="list-style-type: none"> <li>Recognise training need</li> <li>Nominate candidates to receive training on an internal nomination form</li> </ul>	Nomination Form;	
HRD Officer	Ongoing	2	<ul style="list-style-type: none"> <li>Obtain Quotation from Approved External Provider</li> <li>Establish date of training event</li> <li>Booking of venue</li> </ul>	Quotation; Confirmation to Extr. Provider	
Plant / Concentrator Manager/HRD Officer	Ongoing	3	<ul style="list-style-type: none"> <li>Approve Nominations by signing Nomination form &amp; Quotation</li> <li>HRD Forward signed quotation to Plant MRC dept.</li> </ul>	Nomination Form; Quotation;	
MRC	Ongoing	4	<ul style="list-style-type: none"> <li>Receive Quotation from HRD Officer</li> <li>Make out a SAP requisition.</li> <li>Process Anglo Order no.</li> <li>Communicate Anglo Order no. to HRD Officer.</li> </ul>	SAP; E-mail; Quotation; Order no.	
HRD Officer	As soon as quotation received	5	<ul style="list-style-type: none"> <li>E-mail confirmation of training to external provider.</li> </ul>	Confirmation E-mail;	
HRD Officer	Ongoing	6	<ul style="list-style-type: none"> <li>Send Confirmation to Nominees</li> <li>Put training bookings on HRD notice boards</li> </ul>	Confirmation by hand / e-mail; notice boards	
Nominee	On Course	7	<ul style="list-style-type: none"> <li>Attend the training event.</li> <li>Complete HRD Documents</li> </ul>	Attendance registers etc.	

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11



REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

MRC/HRD Assistant	Upon receipt of documents from external training provider	12	<ul style="list-style-type: none"> <li>• Check correct details on TAX invoice from ext. provider</li> <li>• Obtain approval signatures</li> <li>• Send original invoice for payment to MRC – keep copy on files.</li> <li>• MRC to sign External training Check list.</li> </ul>	<div style="border: 1px solid black; padding: 5px; width: fit-content;">       Tax invoice;        Extr. Train Checklist     </div>	
-------------------	---	----	--	---	--

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

**9.6.5 Contractor Induction for all Contractors**

Responsible person	When	Flow no.	Flow diagram	Documents or records	Comments
Contractor Supervisor / Safety Officer	Before Induction	1	<ul style="list-style-type: none"> <li>Contractor Supervisor to submit all relevant documents to Safety Officer according to requirements of contractor pack</li> </ul>	ID Doc's; Medical Certificates; KBC cards all relevant contractor pack documents	
Safety Officer / Attendees	With induction	2	<ul style="list-style-type: none"> <li>Attend induction before entering the plant</li> <li>Complete attendance register</li> <li>Safety Officer to ensure that all documents are in order.</li> <li>Attendees complete Assessment</li> <li>Complete acknowledgement forms</li> </ul>	Attendance register; Contractor Pack documents	
Safety Officer	After induction	3	<ul style="list-style-type: none"> <li>Hand-out On-site induction cards</li> <li>File documents</li> <li>Forward training documents to Met Services HRD</li> </ul>	Induction cards; Attendance register; ID; Medicals; KBC	
HRD Assistant	On receipt of documents	4	<ul style="list-style-type: none"> <li>Check all documents &amp; sign off delivery book</li> <li>Capture event on SAP database</li> <li>Capture data on share folder</li> <li>Return Documents to Safety Officer.</li> </ul>	Attendance Register; ID; Medicals; KBC cards	

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

9.6.6 PTO Scheduling Process

Responsible person	When	Flow no.	Flow diagram	Documents or records	Comments
Safety Officer	Monthly	1	<ul style="list-style-type: none"> <li>PTO Schedule to be forwarded to Line Management.</li> </ul>	PTO Schedule	
Supervisor	Monthly	2	<ul style="list-style-type: none"> <li>Ensure that PTO is printed from the Intranet.</li> <li>Supervisor to conduct PTO correctly on the job as per schedule</li> </ul>	PTO document;	
Safety Officer	Monthly	3	<ul style="list-style-type: none"> <li>Completed PTO document to be forwarded to Safety Dept. for analysis.</li> <li>Any deviation to be noted &amp; recorded and remedial actions allocated.</li> </ul>	PTO Document;	
Safety Officer	Monthly	4	<ul style="list-style-type: none"> <li>Forward completed PTO to relevant department with recommended actions if applicable.</li> </ul> <p>If YES</p> <p>If NO</p>	PTO document; PTO Matrix;	
Safety Officer, Risk Officer, SME, HRD Officer	Monthly	5	<ul style="list-style-type: none"> <li>Safety Officer to forward PTO to SME for corrections.</li> <li>Then Risk Officer to rectify and submit to Standards Committee.</li> <li>HRD Dept. to retrain if applicable.</li> <li>Supervisor to re-do the PTO</li> <li>Follow from step 1</li> </ul>	PTO document; Document change control RPMC-ALL-SHER-PRO-003. Attendance register if PTO to be re-trained.	

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

HRD Officer	Monthly	6	<ul style="list-style-type: none"> <li>Update PTO Matrix for recordkeeping.</li> </ul>	PTO matrix;	
HRD Officer	Monthly	7	<ul style="list-style-type: none"> <li>PTO be filed/archived in employee's personal file</li> </ul>	PTO document;	Records matrix
Safety Officer	Monthly	8	<ul style="list-style-type: none"> <li>Report to be completed and send to Supervisors/Safety dept./HRD</li> </ul>	PTO report;	

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

## 10 History of Changes

Reason for Change - Index	
A. As a result of incidents	B. As a result of audit findings
C. New / changes in governance documents	D. Changes in legislation
E Changes in technology	F. Changes in machinery/equipment
G Results of risk assessments	H. Change in training requirements
I. New document format	J. Change due to spelling or grammatical error
K. To integrate a special instruction into the document control system	

Date of change	Revised Item (Paragraph number)	Changes Made	Reason Code	Name of reviewer
18 May 2004	7.1	Table 4; Include issue based risk assessments	B	SHER team (see Attendance register for OHSAS 18001 & ISO 14001 Corrective Action Workshop)  Attendance Register to include meetings
2004-07-20		a) Inserting date of print; b) Removing the requirement that the author of a document approve changes on the "History of Changes" as per Auditor recommendation (16 July 2004)	B	Martie Deysel (DC)
2004-08-30		Review (changes can be seen electronically via word track changes)	B/J	Document Controller, SHER Coordinator, Environmental Manager, Safety Officers, Plant Managers, Standards Committee Members
22/09/2004		Review as per track changes	B	S Bullock, C Oelofse, H Prinsloo, M Deysel, JJ van Staden, D le Roux, N Louw, D van Jaarsveld
25/10/2004		Review	B  Audit Report number 4569433/4 dated 07/10/2004	M Deysel, C Oelofse, S Bullock, C Viljoen, F Erasmus, K Arendse, E Ferreira
06-01-2005		Take out A de Lange & K la Grange (FFF)		MDeysel, Standards

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

		structure change)		Committee
17-03-2005		Procedure to be reviewed after BSI audit and new HRD Coordinator appointment as part of continual improvement and before conducting a Management Review.		Training Dep, Standards Committee
2005-06-01		Procedure re-written to address procedures as is currently.	C, J	HRD Coordinator, Environmental Coordinator, SHER Coordinator, Occupational Hygienist, Document Controller
2006-09-08		Section 7.3 updated to reflect exact SHE Training. Section 7.1 updated to reflect training needs matrix.	B	Environmental Coordinator, Occupational Hygienist, SHER Coordinator
2007-07-02		Procedure reviewed New template, reference numbering changed	C,I	RPMC Standards Committee / Sareena Naidoo (Document Controller)
2009-07-27	Par 1	ADD "HARM OR HAVE" IN THE FORTH SENTENCE.	C/ I/ H	RPMC Standards Committee / Francois van Loggerenberg
	Par 3	ADD TERMS AND DEFINITIONS ACCORDING TO OHSAS 18001.		
	Par 4	ADD ABBREVIATIONS "SHER", "SAQA" AND "OSD" AND EXPLANATION		
	Par 6	ADD "AND HRD DEPARTMENT"		
	Par 9.1	ADD LAST SENTENCE TO THE FIRST PARAGRAPH		
	Par 9.1.1.	ADD TABLE SHOWING THE ACTIVITY GROUPS, ASPECTS IDENTIFIED, TRAINING REQUIREMENTS AND THE FREQUENCY OF THE SPECIFIC TRAINING		
	Par 9.2	ADD SECOND PARAGRAPH		
	Par 9.5	ADD LAST THREE BULLET POINTS		
	Par 9.6.1	ADD PARAGRAPH 9.6.1		
	Par 9.7.1	POINT 4 ADD "MAKE A COPY OF ACKNOWLEDGEMENT FORM AND HAND IT TO EMPLOYEE" IN COLUMN 4 FROM LEFT" ADD "ACKNOWLEDGEMENT FORM IN THE SAME ROW IN COLUMN 5 FROM LEFT		



REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

		ADD FLOW NO 6		
	Par 9.7.2	ADD "COMPLETE EVALUATION FORM" IN ROW 7		
	Par 9.7.3	ROW 6, COLUMN 4 FROM LEFT ADD "SECOND BULLET POINT, ADD "ASSESSMENT DOCUMENTS" IN COLUMN 6.		
	Par 9.7.4	ROW 3 ADD SECOND BULLET POINT		
	Par 10 / 11	UPDATE VERSION, REVISION AND REFERENCES		
2009-11-25		REVISE PROCEDURE ACCORDING TO AUDIT FINDINGS	B	RTB Conc. Standards Committee
		ADD APPENDIX 9.7.5		
2010-09-17		UPDATED VERSION AND REVISION DATE	H/I	RTB Conc. Standards Committee
	Par 9.6.1	ADD "BUSINESS EVENT APPRAISAL"		
	Par 9.7.1	BULLET POINT 3 ADD "COMPLETE BUSINESS EVENT APPRAISAL FORM" AND "INDUCTION BUSINESS EVENT APPRAISAL"		
	Par 9.7.2	BULLET POINT 4 AND 5 " ADD ASSISTANT"		
	Par 9.7.3	ADD "CENTRAL TRAINING" (HEADING)		
		ADD "AMEX" TO THE THIRD BULLET POINT		
		ADD "DISTRIBUTION OF CERTIFICATES FORM" TO THE SEVENTH POINT.		
		ADD "EXTERNAL TRAINING CHECKIST" TO THE EIGHTH FLOW NO.		
2012-07-11	5	UPDATED REVIEW CYCLE TO "EVERY FOUR YEARS"	H/I	RTB Conc. Standards Committee and HRD Dept.
	9.1	ADD "Process career path & Engineering"		
	9.2	ADD "A Concentrator Generic Process Induction will be presented on an adhoc basis for new employees."  Add (Section 9.6.1 - Flow sheet)."  Add "Rustenburg Concentrator Contractor		

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

		Induction” Add “the Legal Refresher Training” Add “is conducted weekly and all contractors” Add “conducted by the specific plant Representative.”		
	9.4	ADD “Safety, Health and Environmental” and “through training interventions” Add “Development on progression routes and career paths”		
	9.5.1	ADD “Engineering Foremen.” and “(Section 9.6.6 – Flow Sheet).” Add sixth paragraph”		
	9.5.2	ADD “Legal Refresher”		
	9.6.1	FLOW NO 1 “ADD LEGAL REFRESHER TRAINING” FLOW NO 2: ADD FLOW DIAGRAM “EXCEPTION REPORT”		

## 11 Record Control

Records to be maintained in accordance with this Procedure (refer to the Anglo American Platinum Record retention schedules for retention periods and disposal methods):

Identification	Reference number	Responsible for filing	Responsible for maintenance	Location of storage area	Retention period	Method of disposal
Training, Awareness and Competence	RPMC-ALL-SHER-PRO-0006	Document Controller	Document Controller	Document Control Storage Facility	Keep current and previous version. Archive electronic versions after 5 years	Shredding older versions, archive electronic copies after 5 years
Record Control	RPMC-ALL-SHER-PRO-0004					
SHE Systems Manual	RPMC-ALL-SHER-PRO-0001					

## 12 References

- Governance Documentation Policy (CTR-F&PM-FC-POL-0001)
- Record Control – (RPMC-ALL-SHER-PRO-0004)
- Rustenburg Concentrators SHE Management Systems procedures
- Anglo Fatal Safety Way Standards

REF NO:	RPMC-ALL-SHER-PRO-0006	DATE OF IMPLEMENTATION:	2003-10-30
VERSION NO:	15.0	LAST REVISION DATE:	2012-07-11

- Anglo American Platinum Documentation Templates
- OHSAS 18001:2007
- ISO 14001: 2004
- ISO 9001: 2008
- INTRANET
- New Document and Change Request forms

### **13 Appendices**

None

**WSP Environmental (Pty) Ltd**  
WSP House  
Bryanston Place, 199 Bryanston Drive  
Bryanston  
2191  
South Africa  
Tel: +27 11 361 1391  
Fax: +27 11 161 1381  
[www.wspgroup.co.za](http://www.wspgroup.co.za)

UNITED  
BY OUR  
DIFFERENCE



---

## Appendix G: Other Information

Not Applicable

**WSP Environmental (Pty) Ltd**  
WSP House  
Bryanston Place, 199 Bryanston Drive  
Bryanston  
2191  
South Africa  
Tel: +27 11 361 1381  
Fax: +27 86 505 3939  
[www.wspgroup.co.za](http://www.wspgroup.co.za)

UNITED  
BY OUR  
DIFFERENCE

