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**Meeting Minutes:** Anglo American Kumba Iron Ore Project Phoenix – Thabazimbi mine

**Date:** 30 November 2011

**Time:** 11:00-13:30

The following individuals attended the meeting:

PERSON	ORGANISATION	E-MAIL
Viktoria Jansen-Gotchev	Anglo American Kumba Iron Ore (Kumba)	<a href="mailto:viktoria.jansen-gotchev@angloamerican.com">viktoria.jansen-gotchev@angloamerican.com</a>
Lee-Anne Meiring	Shangoni Management Services (Shangoni)	leeanne@shangoni.co.za
Heilet Hattingh	Kumba Thabazimbi (Kumba)	Heilet.Hattingh@angloamerican.com
Johanna Magele	Shangoni Management Services (Shangoni)	<a href="mailto:johanna@shangoni.co.za">johanna@shangoni.co.za</a>
Charles Nemutandani	Department of Water Affairs (DWA)	nemutandanit@dwa.gov.za
Caroline Shai	Department of Water Affairs (DWA)	shaic@dwa.gov.za
Jane Malaudzi	Department of Water Affairs (DWA)	Mulaudzi@dwa.gov.za
Pamela Mqulwana	MSA Group Services (MSA)	pamelam@msagroupservices.com

The following issues were discussed:

ITEM	ISSUES RAISED	RESPONSE
1.	<b>WELCOMING &amp; INTRODUCTION</b>	
	Lee-Anne Meiring (Shangoni) opened the meeting and thanked all for attending.	
2.	<b>AIM</b>	
	Lee-Anne Meiring (Shangoni) explained the aim of the meeting: <ul style="list-style-type: none"> <li>• present an overview of the project and timeframes for implementation;</li> <li>• discuss the identified activities</li> </ul>	

Directors: R B Hayes • J Nel • J A van Rooy • C J Potgieter • H L De Villiers



	<p>that would require WUL,</p> <ul style="list-style-type: none"> <li>• agree upon application processes to be followed and associated timeframes.</li> </ul>	
<b>ITEM</b>	<b>ISSUES RAISED/CONCERNS</b>	<b>RESPONSIBLE PERSON</b>
3.	Charles Nematandani (DWA) asked if there are old tunnels from previous mining activities in the Phoenix resource area. He further enquired if dewatering will be required?	<p>Heillet Hattingh (Kumba) responded that there are old tunnels from previous mining activities but they are positioned above the water table.</p> <p>Heillet Hattingh (Kumba) responded that the water use license application permits dewatering.</p>
4.	Charles Nematandani (DWA) asked where on the map is the locality of the bridge.	Heillet Hattingh (Kumba) responded that the bridge is located just after the R510 bridge.
5.	Charles Nematandani (DWA) asked if the existing plant and pipes can be used, instead of constructing new ones.	<p>Viktoria Jansen-Gotchev (Kumba) responded that an investigation was conducted on use existing infrastructure for project Phoenix but the results showed that no existing infrastructure can be used mainly due to the fact that the Phoenix resource is of different nature and the processing technology required has to accommodate these differences.</p> <p>Heillet Hattingh (Kumba) added that the existing plant is 70 years old and has reached its end of life.</p>
6.	Caroline Shai (DWA) asked where the leveling and lining of the Rooikuilspruit will be done.	Viktoria Jansen-Gotchev (Kumba) responded that the leveling will be done next to the plant, the Rooikuilspruit will be leveled and lined for 1km in order to prevent any seepage into the Van der Bijl pit.
7.	Caroline Shai (DWA) asked what the distance was between the pit and the spruit.	Heillet Hattingh (Kumba) responded that she is not exactly sure about the distance possibly 100m but there will be dewatering and the possibility exists that there might be impacts.
8.	Caroline Shai (DWA) asked how long the lining of the Rooikuilspruit will be.	Viktoria Jansen-Gotchev (Kumba) responded the Rooikuilspruit will be leveled and lined for 1km.
9.	Caroline Shai (DWA) asked why the valley was selected for the slimes dam location.	Viktoria Jansen-Gotchev (Kumba) responded that a site selection report was compiled for the location of the slimes dam. A total of 8 locations were assessed. TS1 option 2 site was identified as the best option because it will cater for approximately seventy (70) years of life of mine for Phoenix, and the environmental footprint for the tailing dams will be minimized.



		The site selection report will form part of the WULA.
10.	Heillet Hattingh (Kumba) asked if the mine can apply for a “blanket” application for the waste rock dumps, haul roads, slimes dams, storm water dams, cut off trenches, coarse tailings for Section 21 (c) & (i) uses.	Caroline Shai (DWA) requested a flood-line study to be done for these activities. If these activities are within the 1:100 year flood-line they will require licensing for Section 21 (c) & (i). Apply for each activity / facility (e.g. waste rock dumps, slimes dam, etc.), but not each tributary / water course / drainage line The Stormwater Management Plan will be guiding DWA’s decision.
11.	Pamela Mquhwana (MSA) asked why tanks are supposed to be licensed. Heillet Hattingh (Kumba) also added that the tanks are used for emergency purposes.	Caroline Shai (DWA) said that process and clean water tanks need no authorization but she will confirm this statement with Flip if tanks need to be licensed.
12.	Heillet Hattingh (Kumba) stated that there is a strong possibility that the stormwater management structures at Buffelshoek waste Rock Dump (WRD) are insufficient for protection of the railway line from flooding. The WRD is already licensed. Does the mine have to apply to DWA if any changes are made to the structures?	Caroline Shai (DWA) responded that a flood-line study must be done and if the activities are within the 1:100 year flood-line licensing is required for Section 21 (c) & (i). The mine must send the designs to Paul Meulenburg. Final confirmation of the process will be done after a site visit by DWA to Thabazimbi mine.
<b>13.</b>	<b>Timeframes</b>	
	Lee-Anne Meiring (Shangoni) enquired which process DWA wants to be followed - amendment or a new license application and how long will this process take.	Caroline Shai (DWA) responded that the licensing part will take approximately four months if all the relevant documentation is submitted and an amendment of the existing IWUL will be required. No need for a new WUL..
<b>14.</b>	<b>General</b>	
	<ul style="list-style-type: none"> <li>Caroline Shai (DWA) suggested DWA would like to conduct a site visit to become familiar with areas mentioned and activities to take place.</li> <li>Viktorija Jansen-Gotchev (Kumba) asked what documentation will be required by DWA.</li> </ul>	<p>Caroline Shai (DWA) requested that an e-mail is sent to Jane Malaudzi (DWA) with 3 possible dates for the site visit.</p> <p>DWA will send the mine a letter with all the requirements, but these will form part of the requirements:</p> <ul style="list-style-type: none"> <li>➤ Impact assessment report,</li> <li>➤ Flood-line study,</li> <li>➤ Wetland study,</li> <li>➤ Designs for the stormwater management (comments from civil)</li> </ul> <p>Bio-assessment of the aquatic environment.</p>

