



Final Comment

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

Attention: Trans-Caledon Tunnel Authority

Abstraction and processing plant for the AMD project in the Western Basin

Karodia, S. & Nel, J. August 2012. Heritage Impact Assessment for the Witwatersrand Gold Fields Acid Mine Drainage Project (Western Basin)

The proposed development entails an acid mine drainage pipeline that will run from the abstraction point at Rand Uranium's No. 8 Shaft to the proposed high density sludge treatment area, and from there to a discharge point on the Tweelopiespruit within the Krugersdorp Game Reserve. Construction activities will also include of a new treatment plant on the Randfontein Estates site and construction of waste sludge disposal pumps and pipeline to the old opencast pits for the disposal of the sludge from the treatment process.

The authors note that the proposed pipeline routes are currently projected to run within existing pipeline servitudes that have been highly disturbed and that no impacts to heritage resources were identified during the survey. The authors note however, that potential impacts on the general heritage landscape, particularly with regards to the Cradle Of Humankind World Heritage Site, are expected to be more likely.

The following heritage resources were identified:

A single informal grave, BKS1310/2627BA/G012, with stone surface dressing and no headstone. It is located approximately 20 m away from the proposed pipeline and will not be impacted upon. Although the grave is located outside the development area, the authors suggest that the proposed treated water pipeline route follow the existing access road to avoid alteration, damage to, or destruction of any graves and the authors also recommended that grave G012 be fenced off to avoid damage to the grave during the construction and operational phases of the project.

A total of three dolomite outcrops were found during the survey. These features: BKS1310/2627BA/PY013, BKS1310/2627BA/PY014 and BKS1310/2627BA/PY015, are located within the Krugersdorp Game Reserve and are in close proximity to the proposed pipeline. The authors recommend that, due to the proximity of the Western Basin to the Cradle of Humankind World Heritage Site, the dolomite outcrops may be of palaeontological importance. The authors recommend that these features be exempt from the proposed footprint area.

Sites BKS1310/2627BA/BE009, BKS1310/2627BA/BE010 and BKS1310/2627BA/BE011 represent built environment heritage resources that form part of Randfontein Estates. The authors state that these structures currently fall outside the proposed treatment plant area and the pipeline routes and that no mitigation is



Our Ref: 9/2/228/0001

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required since they will be unaffected by the proposed development.

Site BKS1310/2627BA/BE016 forms the headgear at the No. 8 Shaft. The authors contend that this site and associated structures are not unique and all primary contexts, with regard to older operations, have been lost. The authors recommend that a destruction permit must be applied for from the relevant heritage resources authority before any further alteration at the site takes place.

Case Decision

If the recommendations made in the specialist report and in this comment are adhered to, the SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit has no objection to the development (in terms of the archaeological component of the heritage resources).

The SAHRA APM Unit supports the recommendations of the authors the three dolomite outcrops: BKS1310/2627BA/PY013, BKS1310/2627BA/PY014 and BKS1310/2627BA/PY015, and requires that these features be exempt from the proposed footprint area and remain entirely undisturbed by the proposed development.

If any new evidence of archaeological sites or artefacts, palaeontological fossils, graves or other heritage resources are found during development, construction or mining, SAHRA and a professional archaeologist must be alerted immediately.

For the grave site, BKS1310/2627BA/G012, the SAHRA Burial Grounds and Graves Unit supports the recommendations that the proposed treated water pipeline route follow the existing access road to avoid alteration, damage to, or destruction of any graves, and that site BKS1310/2627BA/G012 be fenced off to avoid damage to the grave during the construction and operational phases of the project.

Please note that for sites BKS1310/2627BA/BE009, BKS1310/2627BA/BE010, BKS1310/2627BA/BE011 and BKS1310/2627BA/BE016, which fall under Built Environment, comment must be obtained from the Gauteng Provincial Heritage Resources Authority, to whom this comment will be copied.

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

Yours faithfully

Andrew Salomon
Heritage Officer: Archaeology



The South African Heritage Resources Agency

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South African Heritage Resources Agency



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ADMIN:

Terms & Conditions:

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



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